



**RIGGING &
LIFTING
CATALOG**



WWW.GORILAGLOBAL.COM



WELCOME

At Gorila®, we understand that in every lifting operation, trust means everything. That's why we've brought together in this unified catalog our full range of slings, equipment, and accessories, all designed to deliver strength, safety, and precision in the most demanding applications.

Each product is manufactured under the highest quality standards to support those who face great challenges every day—providing durability and peace of mind in every operation. With Gorila®, your load is in good hands.

For more information, visit www.gorilaglobal.com and our official social media channels.



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SLINGS

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- WEB SLING AMERICAN STANDARD
- SPECIALS WEB SLINGS
- WEB SLING EUROPEAN STANDARD
- ROUND SLING EUROPEAN STANDARD
- ROUND SLING POLYESTER
- CHAIN SLING
- WIRE ROPE SLING



UHMWPE

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- ROUND SLING
- SYNTHETIC CHAIN SLING



SLING PROTECTORS

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- UHMWPE PROTECTOR
- POLYURETHANE PROTECTOR
- TUFLEX PROTECTOR



WIRE ROPES

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- WIRE ROPE



ACCESSORIES

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- SHACKLES
- LIFTING POINTS
- MASTER LINKS
- COUPLING LINKS
- HOOKS
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- WIRE ROPE THIMBLE
- TURNBUCKLE
- SOCKETS
- SWIVELS



EQUIPMENTS

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- LEVER HOISTS
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- WIRE ROPE PULLING HOIST
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- MAGNETIC LIFTER



LIFTING CLAMPS AND GRABS

CLICK HERE



- HORIZONTAL PLATE CLAMP
- INDUSTRY STANDARD HORIZONTAL PLATE CLAMP
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- VERTICAL PLATE CLAMP ARTICULATED
- UNIVERSAL SCREW CLAMP DOUBLE EYE TYPE
- BEAM CLAMP WITH SHACKLE
- HORIZONTAL PLATE CLAMP WITH SAFETY LOCK
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- HORIZONTAL PLATE CLAMP WITH SPLIT JAW
- DRUM CLAMP
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- ROUND STOCK GRABS
- CONCRETE PIPE LIFTING CLAMPS



EQUIPMENT & ACCESSORIES COMPLEMENTARY

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- TELESCOPIC POLE
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- FORK HOOK
- VERTICAL DRUM LIFTER

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ENERGY



CONSTRUCTION



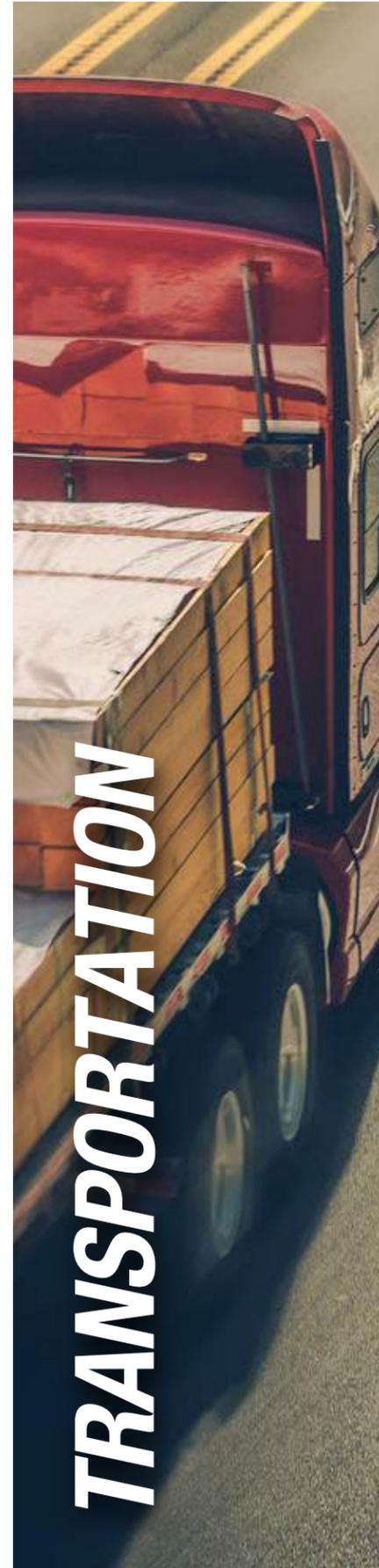
PORTS



AEROSPACE



MINING



TRANSPORTATION



OIL

WEB SLINGS

AMERICAN STANDARD

- Web slings, American standard, are made of polyester in compliance with ASME B30.9 and WSTDA specifications.
- This type of sling has the advantage of being manufactured in 1 to 4 plies and in widths ranging from 1" to 24", maintaining a 5:1 safety factor.
- They are flexible, will not mark or scratch the load during lifting.
- They are lightweight, easy to store, and very simple to handle. In addition, they allow for simple lifting configurations in multi-leg assemblies, with different types of accessories for load handling.



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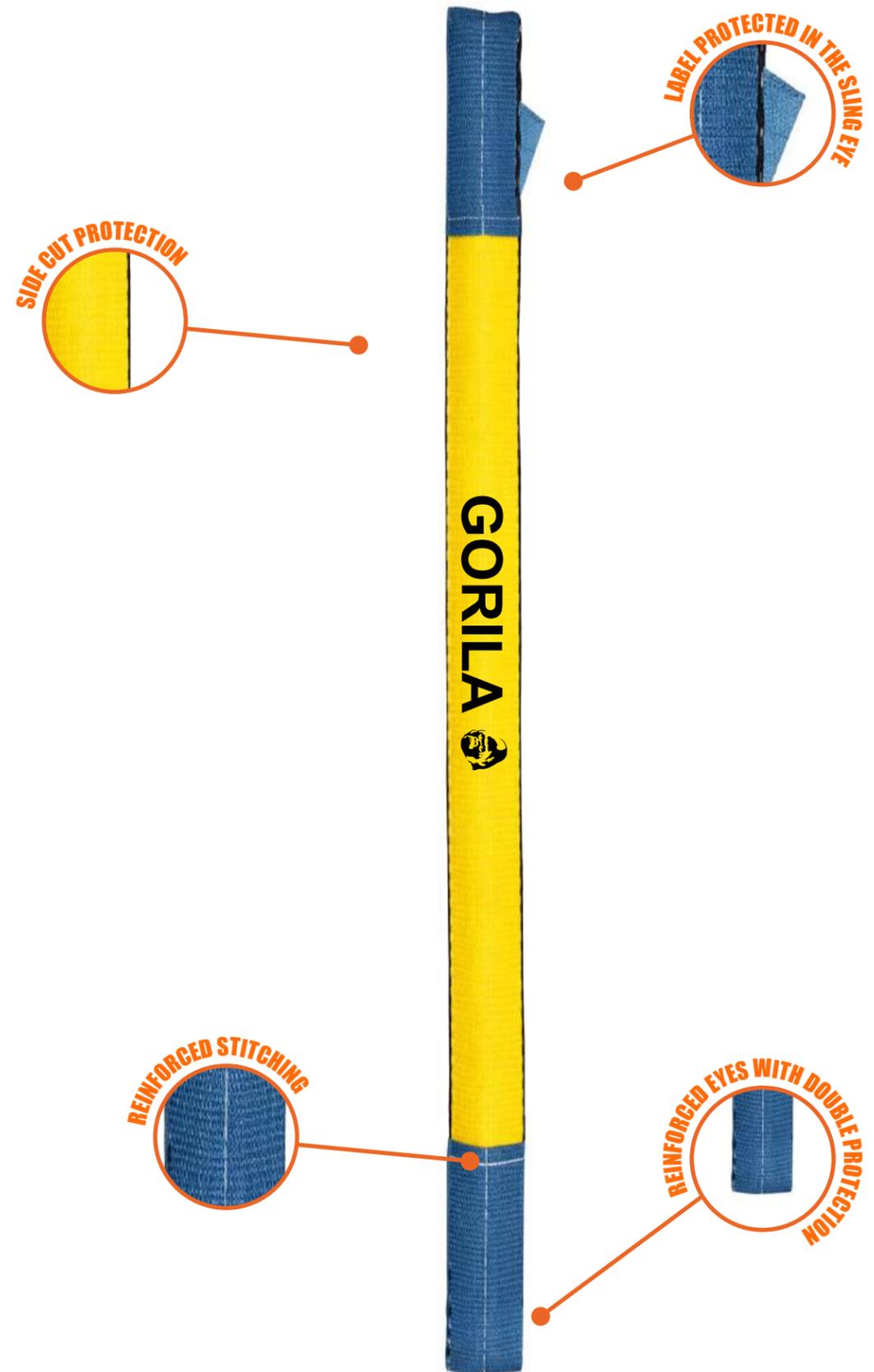




WEB SLINGS

CHARACTERISTICS

- Highly versatile lifting element used for a wide range of applications.
- Made of high-tenacity polyester.
- Reinforced eyes to extend service life.
- Reinforced stitching.
- Label with double protection and a unique traceability code.
- Standard: ASME B30.9.
- Association: WSTDA.
- Safety factor: 5:1
- Brand: Gorila®





EE1-601

ATTRIBUTES		RATED CAPACITY	
Width	25 mm / 1 in	0,73 t	1,600 lbs.
Plies	1	0,58 t	1,280 lbs.
Material	Polyester	1,45 t	3,200 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE1-602

ATTRIBUTES		RATED CAPACITY	
Width	50 mm / 2 in	1,45 t	3,200 lbs.
Plies	1	1,16 t	2,560 lbs.
Material	Polyester	2,9 t	6,400 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE1-603

ATTRIBUTES		RATED CAPACITY	
Width	75 mm / 3 in	2,18 t	4,800 lbs.
Plies	1	1,74 t	3,840 lbs.
Material	Polyester	4,35 t	9,600 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE1-604

ATTRIBUTES		RATED CAPACITY	
Width	100 mm / 4 in	2,9 t	6,400 lbs.
Plies	1	2,32 t	5,120 lbs.
Material	Polyester	5,81 t	12,800 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE1-606

ATTRIBUTES		RATED CAPACITY	
Width	150 mm / 6 in	4,35 t	9,600 lbs.
Plies	1	3,48 t	7,680 lbs.
Material	Polyester	8,71 t	19,200 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE1-608

ATTRIBUTES		RATED CAPACITY	
Width	200 mm / 8 in	5,81 t	12,800 lbs.
Plies	1	4,64 t	10,240 lbs.
Material	Polyester	11,61 t	25,600 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE1-610

ATTRIBUTES		RATED CAPACITY	
Width	250 mm / 10 in	7,26 t	16,000 lbs.
Plies	1	5,81 t	12,800 lbs.
Material	Polyester	14,51 t	32,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE1-612

ATTRIBUTES		RATED CAPACITY	
Width	300 mm / 12 in	8,71 t	19,200 lbs.
Plies	1	6,97 t	15,360 lbs.
Material	Polyester	17,42 t	38,400 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE2-601

ATTRIBUTES		RATED CAPACITY	
Width	25 mm / 1 in	1,45 t	3,200 lbs.
Plies	2	1,16 t	2,560 lbs.
Material	Polyester	2,9 t	6,400 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE2-602

ATTRIBUTES		RATED CAPACITY	
Width	50 mm / 2 in	2,9 t	6,400 lbs.
Plies	2	2,32 t	5,120 lbs.
Material	Polyester	5,81 t	12,800 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE2-603

ATTRIBUTES		RATED CAPACITY	
Width	75 mm / 3 in	3,9 t	8,600 lbs.
Plies	2	3,12 t	6,880 lbs.
Material	Polyester	7,8 t	17,200 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE2-604

ATTRIBUTES		RATED CAPACITY	
Width	100 mm / 4 in	5,22 t	11,500 lbs.
Plies	2	4,17 t	9,200 lbs.
Material	Polyester	10,43 t	23,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE2-606

ATTRIBUTES		RATED CAPACITY	
Width	150 mm / 6 in	7,48 t	16,500 lbs.
Plies	2	5,99 t	13,200 lbs.
Material	Polyester	14,97 t	33,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE2-608

ATTRIBUTES		RATED CAPACITY	
Width	200 mm / 8 in	8,71 t	19,200 lbs.
Plies	2	6,97 t	15,360 lbs.
Material	Polyester	17,42 t	38,400 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE2-610

ATTRIBUTES		RATED CAPACITY	
Width	250 mm / 10 in	10,16 t	22,400 lbs.
Plies	2	8,13 t	17,920 lbs.
Material	Polyester	20,32 t	44,800 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE2-612

ATTRIBUTES		RATED CAPACITY	
Width	300 mm / 12 in	12,2 t	26,900 lbs.
Plies	2	9,76 t	21,520 lbs.
Material	Polyester	24,39 t	53,800 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE3-601

ATTRIBUTES		RATED CAPACITY	
Width	25 mm / 1 in	1,86 t	4,100 lbs.
Plies	3	1,49 t	3,280 lbs.
Material	Polyester	3,72 t	8,200 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE3-602

ATTRIBUTES		RATED CAPACITY	
Width	50 mm / 2 in	3,76 t	8,300 lbs.
Plies	3	3,01 t	6,640 lbs.
Material	Polyester	7,53 t	16,600 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE3-603

ATTRIBUTES		RATED CAPACITY	
Width	75 mm / 3 in	5,67 t	12,500 lbs.
Plies	3	4,54 t	10,000 lbs.
Material	Polyester	11,34 t	25,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE3-604

ATTRIBUTES		RATED CAPACITY	
Width	100 mm / 4 in	7,26 t	16,000 lbs.
Plies	3	5,81 t	12,800 lbs.
Material	Polyester	14,51 t	32,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE3-606

ATTRIBUTES		RATED CAPACITY	
Width	150 mm / 6 in	10,43 t	23,000 lbs.
Plies	3	8,35 t	18,400 lbs.
Material	Polyester	20,87 t	46,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE3-608

ATTRIBUTES		RATED CAPACITY	
Width	200 mm / 8 in	13,93 t	30,700 lbs.
Plies	3	11,14 t	24,560 lbs.
Material	Polyester	27,85 t	61,400 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE3-610

ATTRIBUTES		RATED CAPACITY	
Width	250 mm / 10 in	16,69 t	36,800 lbs.
Plies	3	13,35 t	29,440 lbs.
Material	Polyester	33,38 t	73,600 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE3-612

ATTRIBUTES		RATED CAPACITY	
Width	300 mm / 12 in	19,96 t	44,000 lbs.
Plies	3	15,97 t	35,200 lbs.
Material	Polyester	39,92 t	88,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE4-601

ATTRIBUTES		RATED CAPACITY	
Width	25 mm / 1 in	2,27 t	5,000 lbs.
Plies	4	1,81 t	4,000 lbs.
Material	Polyester	4,54 t	10,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE4-602

ATTRIBUTES		RATED CAPACITY	
Width	50 mm / 2 in	4,54 t	10,000 lbs.
Plies	4	3,63 t	8,000 lbs.
Material	Polyester	9,07 t	20,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE4-603

ATTRIBUTES		RATED CAPACITY	
Width	75 mm / 2 in	6,76 t	14,900 lbs.
Plies	4	5,41 t	11,920 lbs.
Material	Polyester	13,52 t	29,800 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE4-604

ATTRIBUTES		RATED CAPACITY	
Width	100 mm / 4 in	8,98 t	19,800 lbs.
Plies	4	7,18 t	15,840 lbs.
Material	Polyester	17,96 t	39,600 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE4-606

ATTRIBUTES		RATED CAPACITY	
Width	150 mm / 6 in	13,52 t	29,800 lbs.
Plies	4	10,81 t	23,840 lbs.
Material	Polyester	27,03 t	59,600 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE4-608

ATTRIBUTES		RATED CAPACITY	
Width	200 mm / 8 in	18,01 t	39,700 lbs.
Plies	4	14,41 t	31,760 lbs.
Material	Polyester	36,02 t	79,400 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE4-610

ATTRIBUTES		RATED CAPACITY	
Width	250 mm / 10 in	22,5 t	49,600 lbs.
Plies	4	18 t	39,860 lbs.
Material	Polyester	45 t	99,200 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



EE4-612

ATTRIBUTES		RATED CAPACITY	
Width	300 mm / 12 in	26,99 t	59,500 lbs.
Plies	4	21,59 t	47,600 lbs.
Material	Polyester	53,98 t	119,000 lbs.
Standard	ASME B30.9		
Association	WSTDA		
Safety factor	5:1		
Brand	Gorila®		



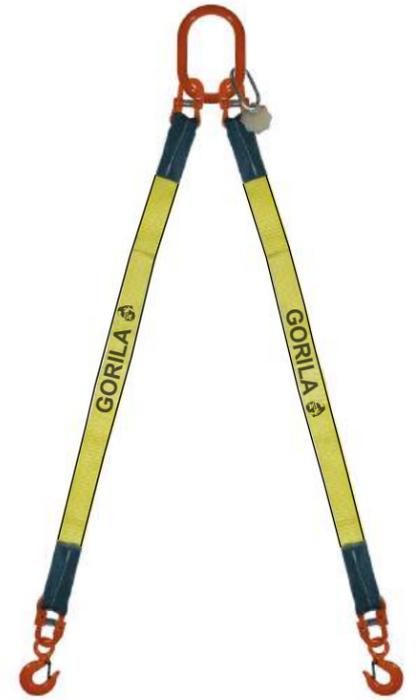
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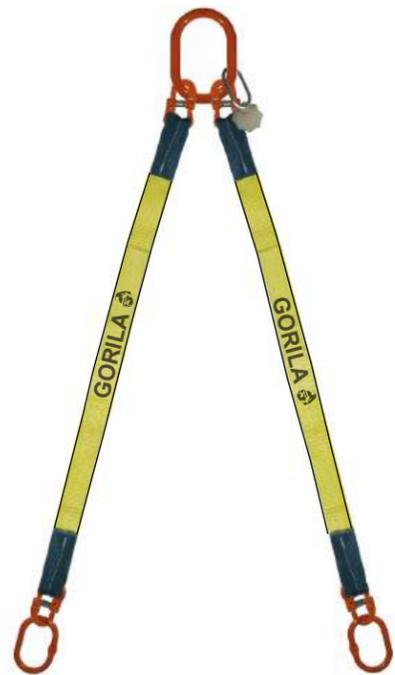
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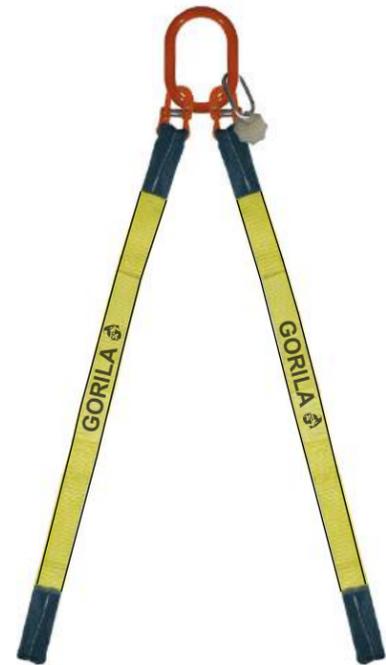
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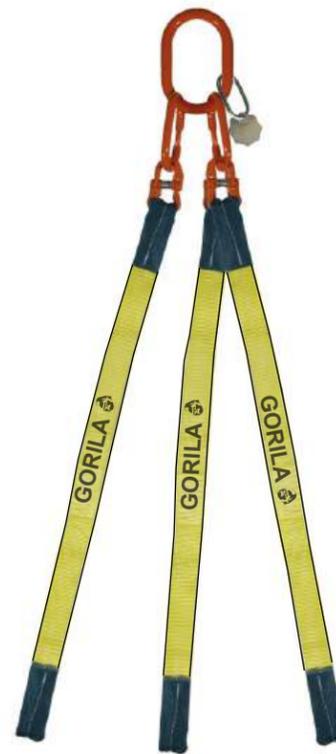
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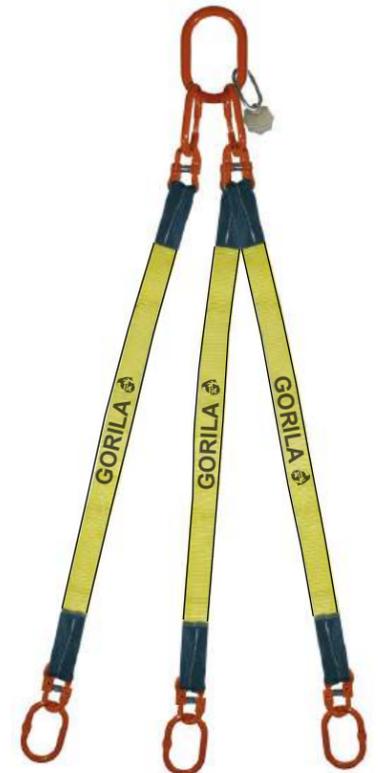
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SPECIALS

WEB SLINGS

- For custom orders, it is possible to manufacture slings of all types, including cargo nets for helicopter lifting, mesh-type slings, and blanket-type synthetic slings, among others.
- These slings are made of polyester in compliance with ASME B30.9 and WSTDA standards.
- This type of product provides great support for customers with special and highly complex lifting requirements.
- They are flexible, will not mark, and will not scratch the load during lifting operations.



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BLANKET WEB SLING

CHARACTERISTICS

- Lifting element made of high-tenacity polyester.
- Recommended for basket-type applications where a large surface area or mass must be covered during lifting, such as cylinders or large rollers.
- Reinforced eyes to extend service life.
- Reinforced stitching.
- Label with double protection and a unique traceability code.
- Standard: ASME B30.9
- Association: WSTDA.
- Safety factor: 5:1
- Brand: Gorila®

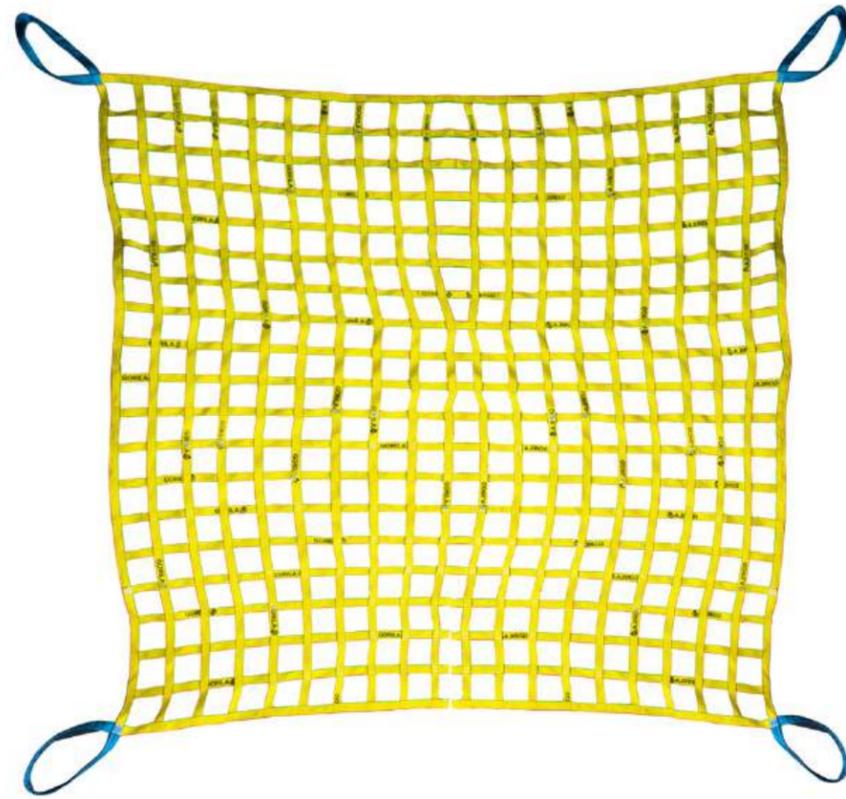
PLIES	WIDTH (INCHES)	RATED CAPACITY (BASKET)	
1	6	2,47 t	5,450 lbs.
	8	2,47 t	5,450 lbs.
	10	4,93 t	10,900 lbs.
	12	4,93 t	10,900 lbs.
	16	6,63 t	14,600 lbs.
	20	6,63 t	14,600 lbs.
WORKING LOAD LIMIT (WLL) IN TONS & LBS.			

CYLINDER WEB SLING

CHARACTERISTICS

- Lifting element made of high-tenacity polyester.
- Recommended for lifting operations where oxygen or gas cylinders must be safely and efficiently handled.
- Reinforced eyes to extend service life.
- Reinforced stitching.
- Label with double protection and a unique traceability code.
- Design factor: 5:1
- Standards: ASME B30.9
- Association: WSTDA
- Brand: Gorila®



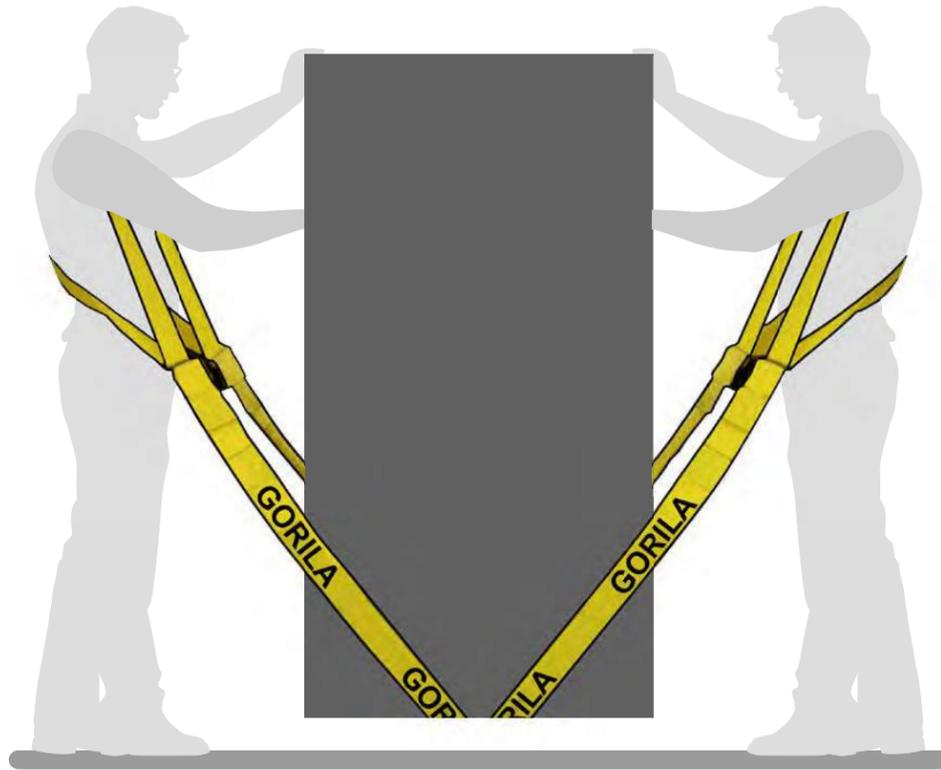


CARGO NET

CHARACTERISTICS

- Net-type device designed for air cargo transport, manufactured under strict quality standards using polyester webbing.
- The webbing has an elongation rate of approximately 3% to 5% at full load capacity.
- Do not use with sharp edges.
- Additional protective sleeves can be manufactured for use against sharp edges and abrasion.
- Standard: ASME B30.9
- Safety factor: 5:1.
- Brand: Gorila®





FOREARM FORKLIFT

CHARACTERISTICS

- Adjustable webbing sling designed to facilitate the manual handling of loads safely and efficiently, in compliance with current labor regulations.
- Designed to help users prevent injuries and lower back strain, while optimizing the time required to move heavy items.
- Using this product reduces the perceived load weight by approximately 60–65% of the actual mass, thereby decreasing the physical effort required.
- Strap width: 3"
- Load capacity: 350 kg / 770 lbs.
- How to use: 2 peoples
- Brand: Gorila®

CONSIDERATIONS FOR LIFTING

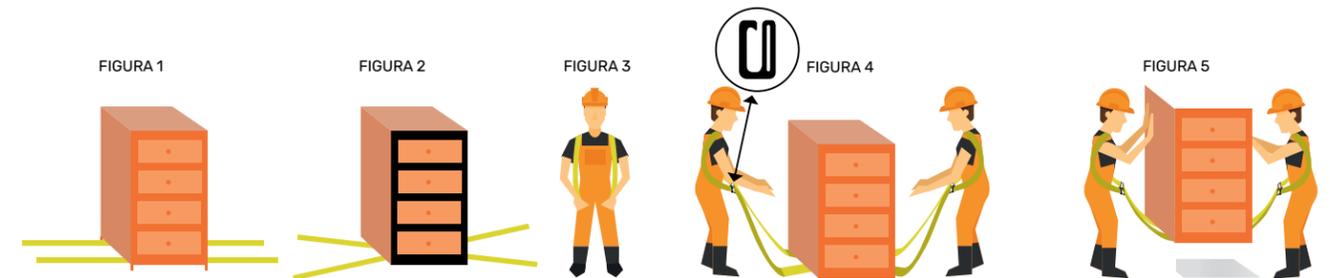
FIGURE 1: If the object to be lifted has legs, place the straps parallel to each other underneath the surface.

FIGURE 2: Conversely, if the object does not have legs, cross the straps underneath to prevent slipping.

FIGURE 3: Attach the harness to your body.

FIGURE 4: Grasp both ends of each strap and hook them, keeping your back completely straight. Bend your knees slightly and choose the strap length that best fits by inserting the hook into the sling openings.

FIGURE 5: Bend your arms to form a 45° angle, raise your hands to shoulder height, and place your open palms on the object being lifted. Once your lifting partner has done the same, coordinate so that both stand upright with legs fully extended, then proceed to move the load to the desired location.



CONSIDER FOR UNLOADING

- Before unloading, make sure the support surface is flat, stable enough to bear the weight, and free of obstacles that could cause the load to become unbalanced.
- When ready to unload, stop and slightly bend your knees, carefully lowering the load onto the ground.

PRECAUTIONS

LUMBAR PROTECTION:

The use of protective gear is recommended. If you experience back pain, do not risk your health.

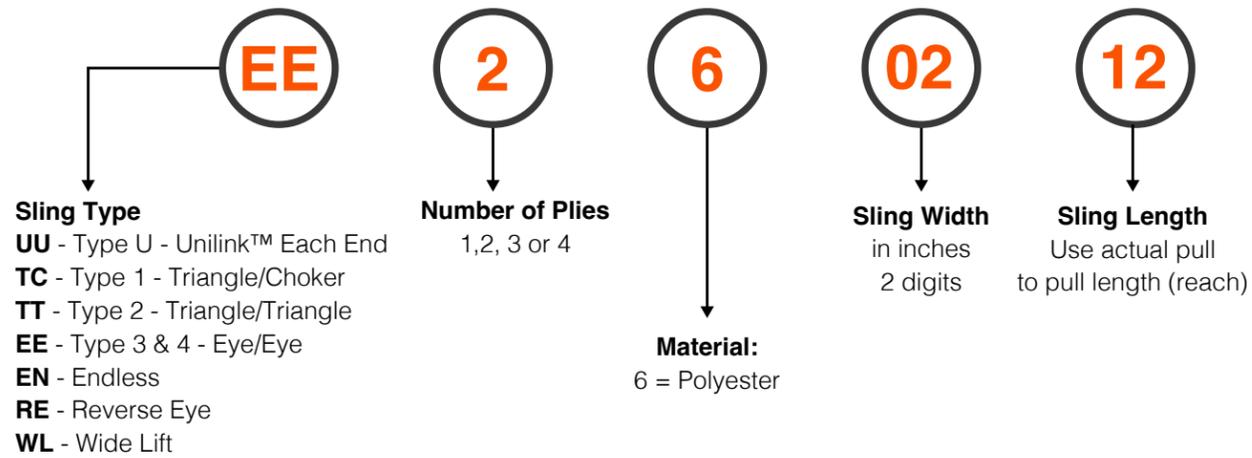
CLEAR PATHWAY:

Before starting to lift the load with the sling, make sure the route is completely clear of obstacles that could cause tripping.

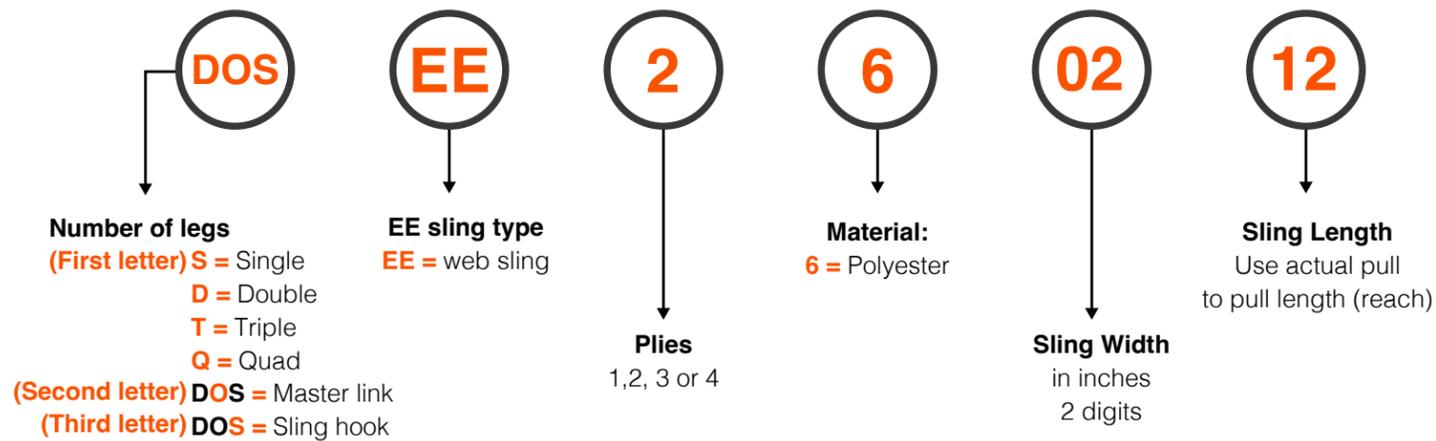
INTEGRITY OF YOUR LIFTING SLING:

Store in a safe place. Do not expose it directly to sunlight, as it reduces load capacity. If you notice any cut or damage on the webbing, dispose of the product immediately.

WEB SLINGS



SYNTHETIC WEB BRIDLE SLINGS.



ASME B30.9 FS 5:1 WSTDA / TONS

PLIES	WIDTH INCHES	1 LEG			2 LEG				ENDLESS		
		AXIAL	CHOKER	BASKET	AXIAL	60°	45°	30°	AXIAL	CHOKER	BASKET
1 PLIE	1	0,73	0,58	1,45	1,45	1,26	1,03	0,73	1,45	1,13	2,9
	2	1,45	1,16	2,9	2,9	2,51	2,05	1,45	2,9	2,27	5,81
	3	2,18	1,74	4,35	4,35	3,77	3,08	2,18	3,99	3,19	7,98
	4	2,9	2,32	5,81	5,81	5,03	4,11	2,9	5,22	4,17	10,43
	6	4,35	3,48	8,71	8,71	7,54	6,16	4,35	7,48	5,99	14,97
	8	5,81	4,64	11,61	11,61	10,06	8,21	5,81	8,71	6,99	17,42
2 PLIES	10	7,26	5,81	14,51	14,51	12,57	10,26	7,26	10,16	8,12	20,32
	12	8,71	6,97	17,42	17,42	15,08	12,32	8,71	12,2	9,75	24,4
	1	1,45	1,16	2,9	2,9	2,51	2,05	1,45	2,81	2,22	5,62
	2	2,9	2,32	5,81	5,81	5,03	4,11	2,9	5,62	4,49	11,25
	3	3,9	3,12	7,8	7,8	6,76	5,52	3,9	7,39	5,9	14,79
	4	5,22	4,17	10,43	10,43	9,04	7,38	5,22	9,39	7,48	18,78
3 PLIES	6	7,48	5,99	14,97	14,97	12,96	10,58	7,48	13,83	11,07	27,67
	8	8,71	6,97	17,42	17,42	15,08	12,32	8,71	18,14	14,51	36,29
	10	10,16	8,13	20,32	20,32	17,6	14,37	10,16	21,32	17,06	42,64
	12	12,2	9,76	24,39	24,39	21,13	17,23	12,2	25,4	20,32	50,8
	1	1,86	1,49	3,72	3,72	3,22	2,63	1,86	3,63	2,9	7,26
	2	3,76	3,01	7,53	7,53	6,52	5,32	3,76	7,26	5,81	14,51
4 PLIES	3	5,67	4,54	11,34	11,34	9,82	8,02	5,67	9,75	7,8	19,5
	4	7,26	5,81	14,51	14,51	12,57	10,26	7,26	13,02	10,43	26,04
	6	10,43	8,35	20,87	20,87	18,07	14,75	10,43	18,46	14,74	36,92
	8	13,93	11,14	27,85	27,85	24,12	19,69	13,93	20,87	16,69	41,73
	10	16,69	13,35	33,38	33,38	28,91	23,61	16,69	23,36	18,69	46,72
	12	19,96	15,97	39,92	39,92	34,57	28,22	19,96	26,85	21,45	53,71
4 PLIES	1	2,27	1,81	4,54	4,54	3,93	3,21	2,27	4,54	3,63	9,07
	2	4,54	3,63	9,07	9,07	7,86	6,41	4,54	8,98	7,17	17,96
	3	6,76	5,41	13,52	13,52	11,71	9,56	6,76	12,11	9,66	24,22
	4	8,98	7,18	17,96	17,96	15,56	12,7	8,98	16,15	12,88	32,3
	6	13,52	10,81	27,03	27,03	23,41	19,12	13,52	22,91	18,33	45,81
	8	18,01	14,41	36,02	36,02	31,19	25,47	18,01	26,13	20,87	52,25
4 PLIES	10	22,5	18	45	45	38,97	31,82	22,5	30,48	24,36	60,96
	12	26,99	21,59	53,98	53,98	46,75	38,17	26,99	36,6	29,26	73,21

Working Load in Tons

ASME B30.9 FS 5:1 WSTDA / LBS

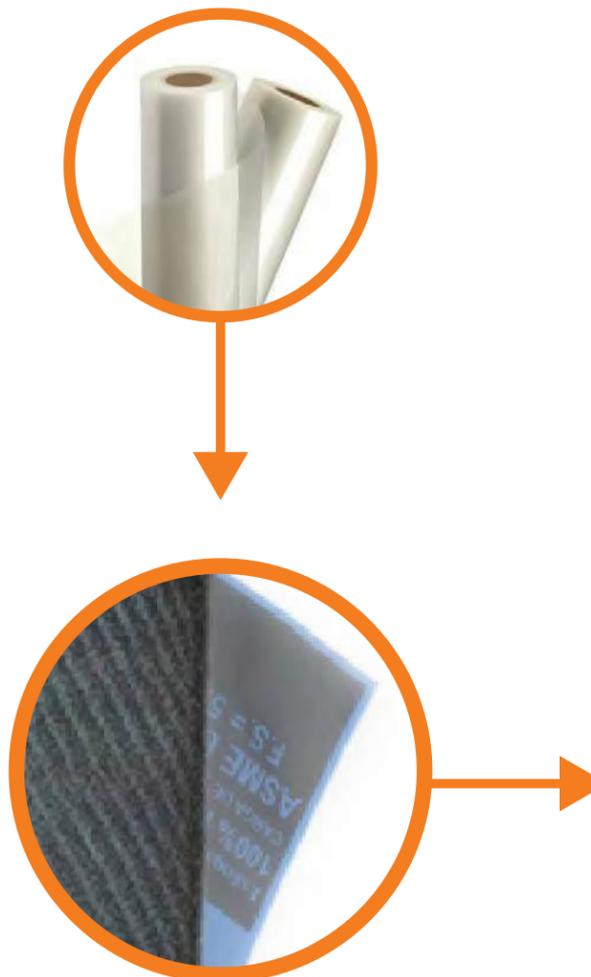
PLIES	WIDTH INCHES	1 LEG			2 LEG				ENDLESS		
		AXIAL	CHOKER	BASKET	AXIAL	60°	45°	30°	AXIAL	CHOKER	BASKET
1 PLIE	1	1,600	1,280	3,200	3,200	2,771	2,263	1,600	3,200	2,500	6,400
	2	3,200	2,560	6,400	6,400	5,543	4,525	3,200	6,400	5,000	12,800
	3	4,800	3,840	9,600	9,600	8,314	6,788	4,800	8,800	7,040	17,600
	4	6,400	5,120	12,800	12,800	11,085	9,051	6,400	11,500	9,200	23,000
	6	9,600	7,680	19,200	19,200	16,628	13,576	9,600	16,500	13,200	33,000
	8	12,800	10,240	25,600	25,600	22,170	18,102	12,800	19,200	15,400	38,400
2 PLIES	1	3,200	2,560	6,400	6,400	5,543	4,525	3,200	6,200	4,900	12,400
	2	6,400	5,120	12,800	12,800	11,085	9,051	6,400	12,400	9,900	24,800
	3	8,600	6,880	17,200	17,200	14,896	12,162	8,600	16,300	13,000	32,600
	4	11,500	9,200	23,000	23,000	19,919	16,263	11,500	20,700	16,500	41,400
	6	16,500	13,200	33,000	33,000	28,579	23,335	16,500	30,500	24,400	61,000
	8	19,200	15,360	38,400	38,400	33,255	27,153	19,200	40,000	32,000	80,000
3 PLIES	1	4,100	3,280	8,200	8,200	7,108	5,798	4,100	8,000	6,400	16,000
	2	8,300	6,640	16,600	16,600	14,376	11,738	8,300	16,000	12,800	32,000
	3	12,500	10,000	25,000	25,000	21,651	17,678	12,500	21,500	17,200	43,000
	4	16,000	12,800	32,000	32,000	27,713	22,627	16,000	28,700	23,000	57,400
	6	23,000	18,400	46,000	46,000	39,837	32,527	23,000	40,700	32,500	81,400
	8	30,700	24,560	61,400	61,400	53,174	43,416	30,700	46,000	36,800	92,000
4 PLIES	1	5,000	4,000	10,000	10,000	8,660	7,071	5,000	10,000	8,000	20,000
	2	10,000	8,000	20,000	20,000	17,321	14,142	10,000	19,800	15,800	39,600
	3	14,900	11,920	29,800	29,800	25,808	21,072	14,900	26,700	21,300	53,400
	4	19,800	15,840	39,600	39,600	34,295	28,001	19,800	35,600	28,400	71,200
	6	29,800	23,840	59,600	59,600	51,615	42,144	29,800	50,500	40,400	101,000
	8	39,700	31,760	79,400	79,400	68,762	56,144	39,700	57,600	46,000	115,200
10	49,600	39,680	99,200	99,200	85,910	70,145	49,600	67,200	53,700	134,400	
12	59,500	47,600	119,000	119,000	103,057	84,146	59,500	80,700	64,500	161,400	

Working Load in Lbs

ASME B30.9 FS 5:1 WSTDA

GORILA® manufactures its web slings in compliance with or exceeding the international standards ASME, EN, and OSHA. All of these standards require that the label clearly identifies the sling's material and its maximum load capacities. They are made from abrasion-resistant polymers that ensure the legibility of the information for a longer period than other materials, as they feature a transparent PVC cover.

CLEAR PVC COVER OVER LABEL



ASME STANDARD LABEL



ESLINGA PLANA Class 7
Web Sling Class 7
ASME B30.9 / FS.5:1

El uso inadecuado puede causar graves daños personales y a la propiedad. Inspeccione antes de cada uso, no exceda capacidad de carga, proteja la eslinga en zonas con aristas y/o puntas, no permita que se acumule la carga, exponga sobre 90°C (194°F). Los ángulos aumentan los esfuerzos disminuyendo la capacidad de carga. Inspeccione antes de cada uso, no exceda capacidad de carga, proteja la eslinga en zonas con aristas y/o puntas, no permita que se acumule la carga, exponga sobre 90°C (194°F). Los ángulos aumentan los esfuerzos disminuyendo la capacidad de carga.

ADVERTENCIA | WARNING

www.gorilaglobal.com



ASME B30.9
100% Poliéster / Polyester

WLL: _____
L: _____
Nº: _____
FECHA / DATE: _____

ESLINGA PLANA
WEB SLING
GORILA
100% Poliéster / Polyester

VERTICAL	LAZO / CHOKER	U / BASKET	CÓD. / CODE
t lb. INCHES / WIDTH FECHA / DATE	t lb. ANCHOR / DATE	t lb. LARGO / LENGTH NÚMERO DE PLIE / NO. OF PLY	Nº

CARGAS DE TRABAJO T. & LBS.
WORKLOADS TON. & LBS.



WWW.GORILAGLOBAL.COM

WEB SLINGS

EUROPEAN STANDARD

- Web slings, European standard, are made of polyester in compliance with EN 1492-1.
- This type of sling is available in widths ranging from 35 mm to 250 mm, with a safety factor of 7:1.
- One of their main advantages is the ability to identify the lifting capacity by the sling's width, color, and the stripes on the webbing.
- They are flexible, will not mark, and will not scratch the load during lifting.
- They are lightweight, easy to store, and very simple to handle.



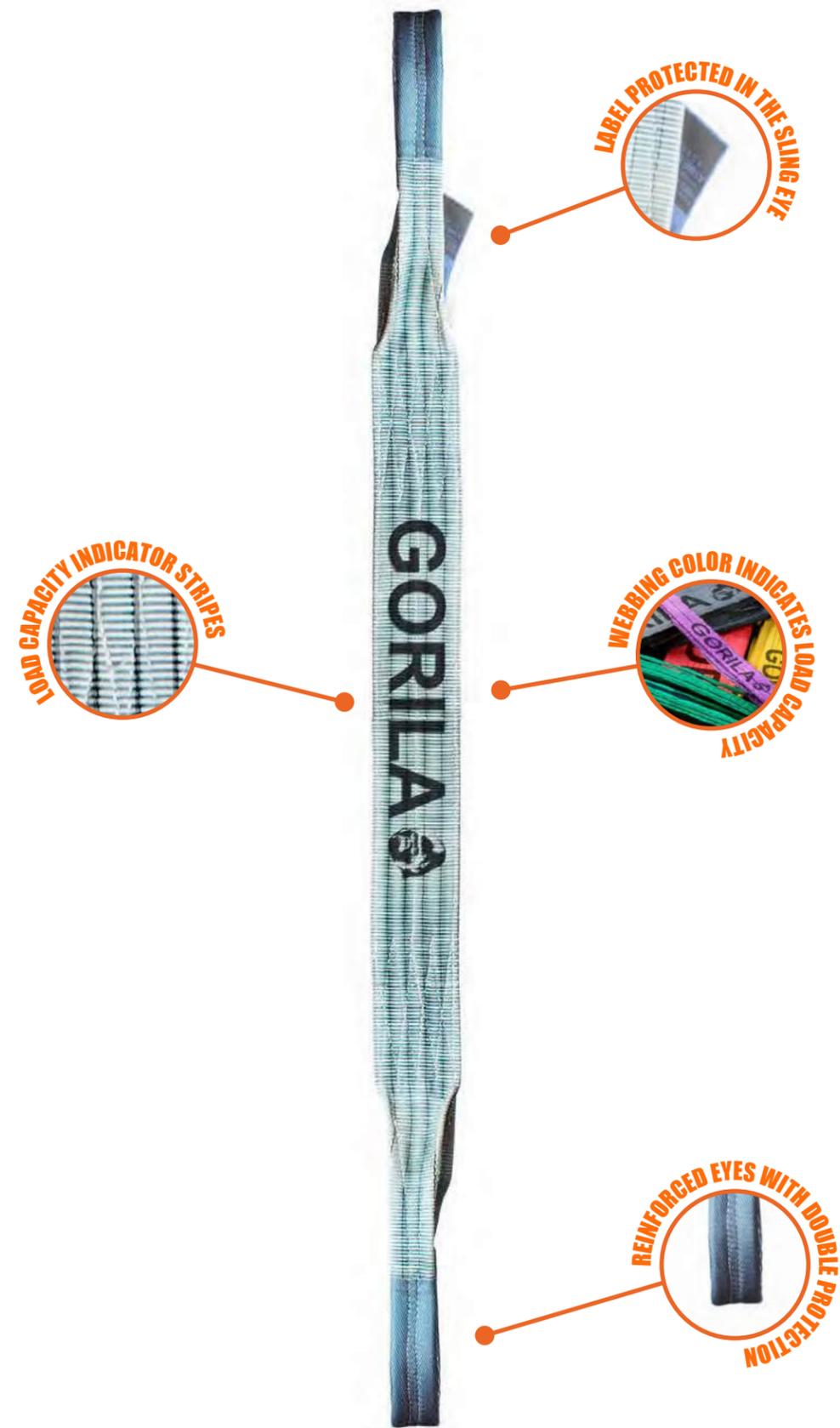
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WEB SLINGS EUROPEAN STANDARD

CHARACTERISTICS

- Lifting element made of high-tenacity polyester.
- The color of the webbing and the number of identification stripes help determine the sling's load capacity.
- Reinforced eyes to extend service life.
- Reinforced stitching.
- Label with double protection and a unique traceability code.
- Standard: EN 1492-1
- Safety factor: 7:1
- Brand: Gorila®





ATTRIBUTES		RATED CAPACITY	
Width	35 mm	1,00 t	2,200 lbs.
Plies	2	0,80 t	1,800 lbs.
Standard	EN 1492-1	2,00 t	4,400 lbs.
Safety factor	7:1		
Brand	Gorila®		



ATTRIBUTES		RATED CAPACITY	
Width	60 mm	2,00 t	4,400 lbs.
Plies	2	1,60 t	3,500 lbs.
Standard	EN 1492-1	4,00 t	8,800 lbs.
Safety factor	7:1		
Brand	Gorila®		



ATTRIBUTES		RATED CAPACITY	
Width	75 mm	3,00 t	6,600 lbs.
Plies	2	2,40 t	5,300 lbs.
Standard	EN 1492-1	6,00 t	13,200 lbs.
Safety factor	7:1		
Brand	Gorila®		



ATTRIBUTES		RATED CAPACITY	
Width	100 mm	4,00 t	8,800 lbs.
Plies	2	3,20 t	7,000 lbs.
Standard	EN 1492-1	8,00 t	17,600 lbs.
Safety factor	7:1		
Brand	Gorila®		



ATTRIBUTES		RATED CAPACITY	
Width	125 mm	5,00 t	11,000 lbs.
Plies	2	4,00 t	8,800 lbs.
Standard	EN 1492-1	10,00 t	22,000 lbs.
Safety factor	7:1		
Brand	Gorila®		



ATTRIBUTES		RATED CAPACITY	
Width	150 mm	6,00 t	13,200 lbs.
Plies	2	4,80 t	10,580 lbs.
Standard	EN 1492-1	12,00 t	26,450 lbs.
Safety factor	7:1		
Brand	Gorila®		



ATTRIBUTES		RATED CAPACITY	
Width	200 mm	8,00 t	17,600 lbs.
Plies	2	6,40 t	14,100 lbs.
Standard	EN 1492-1	16,00 t	35,300 lbs.
Safety factor	7:1		
Brand	Gorila®		



ATTRIBUTES		RATED CAPACITY	
Width	250 mm	10,00 t	22,000 lbs.
Plies	2	8,00 t	17,600 lbs.
Standard	EN 1492-1	20,00 t	44,100 lbs.
Safety factor	7:1		
Brand	Gorila®		

EN STANDARD LABEL

LOAD CAPACITY TABLES

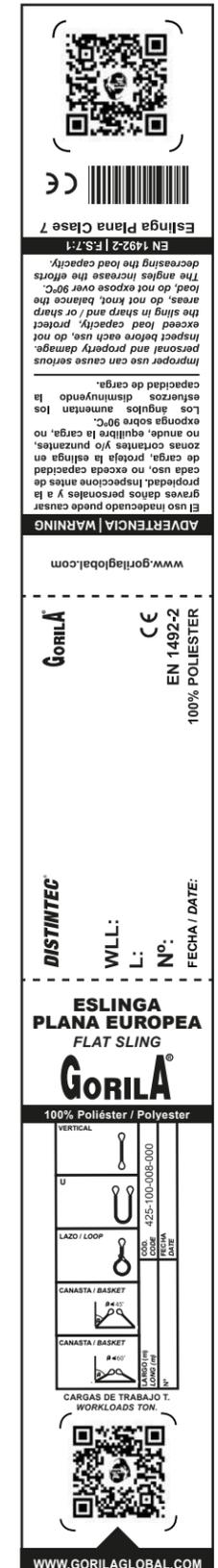
	Width (mm)	1 LEG			2 LEG		
		AXIAL	CHOKER	BASKET	60°	45°	30
	35	1 t / 2,200 lbs.	0,8 t / 1,800 lbs.	2 t / 4,400 lbs.	1,73 t / 3,800 lbs.	1,41 t / 3,100 lbs.	1 t / 2,200 lbs.
	60	2 t / 4,400 lbs.	1,6 t / 3,500 lbs.	4 t / 8,800 lbs.	3,46 t / 7,600 lbs.	2,83 t / 6,200 lbs.	2 t / 4,400 lbs.
	75	3 t / 6,600 lbs.	2,4 t / 5,300 lbs.	6 t / 13,200 lbs.	5,20 t / 11,400 lbs.	4,24 t / 9,300 lbs.	3 t / 6,600 lbs.
	100	4 t / 8,800 lbs.	3,2 t / 7,100 lbs.	8 t / 17,600 lbs.	6,93 t / 15,300 lbs.	5,66 t / 12,500 lbs.	4 t / 8,800 lbs.
	125	5 t / 11,000 lbs.	4 t / 8,800 lbs.	10 t / 22,000 lbs.	8,66 t / 19,100 lbs.	7,07 t / 15,600 lbs.	5 t / 11,000 lbs.
	150	6 t / 13,200 lbs.	4,8 t / 10,600 lbs.	12 t / 26,500 lbs.	10,39 t / 22,900 lbs.	8,48 t / 18,700 lbs.	6 t / 13,200 lbs.
	200	8 t / 17,600 lbs.	6,4 t / 14,100 lbs.	16 t / 35,300 lbs.	13,86 t / 30,500 lbs.	11,31 t / 24,900 lbs.	8 t / 17,600 lbs.
	250	10 t / 22,000 lbs.	8 t / 17,600 lbs.	20 t / 44,100 lbs.	17,32 t / 38,100 lbs.	14,14 t / 31,200 lbs.	10 t / 22,000 lbs.

WORKING LOAD LIMIT (WLL) IN TONS & LBS.

HOW TO IDENTIFY THE PRODUCT?

GORILA® manufactures its web slings in compliance with or exceeding the international standards ASME, EN, and OSHA. All of these standards require that the label clearly identifies the sling's material and its maximum load capacities. They are made from abrasion-resistant polymers that ensure the legibility of the information for a longer period than other materials, as they feature a transparent PVC cover.

CLEAR PVC COVER OVER LABEL





DESIGN AND MANUFACTURING OF WEB POLYESTER SLINGS

GORILA® web slings, compliant with ASME B30.9 and EN 1492-1 standards, are manufactured following strict international quality and safety protocols to ensure customers receive a highly reliable product.

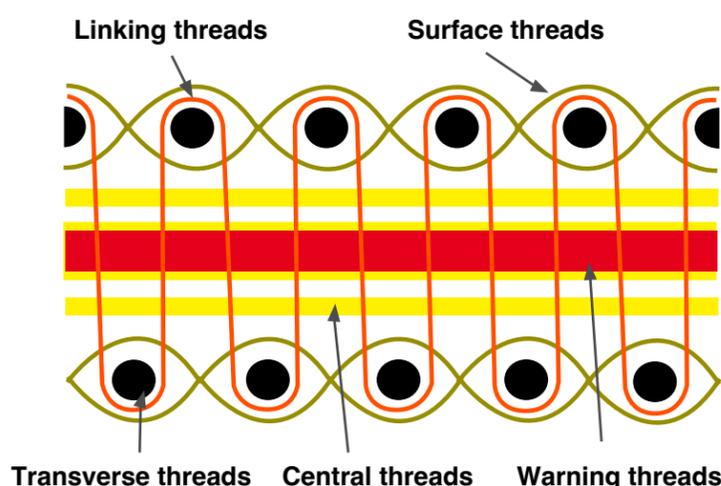
- They have an elongation of 3% to 5% in polyester to absorb the stress caused by sudden lifts.
- The flexibility and smoothness of these products prevent damage to the surface of the handled items.
- Suitable for operating in temperatures between -40°C and 90°C.
- The texture and manufacturing method prevent them from being instantly cut, except when compressed against sharp edges.



MANUFACTURING

GORILA® slings are made from premium-quality polyester webbing, following strict international quality and safety protocols to ensure the customer receives a highly reliable product. To provide greater safety and strength, the surface and central threads are sewn together using linking threads, which not only protect the sling's core but also work jointly to support the load.

Any wear or damage to the sling threads could cause an immediate loss of strength. For this reason, GORILA slings feature a warning-core system with red indicator threads that reveal internal damage, indicating the sling should be removed from service if necessary.



SPECIAL CONSIDERATIONS

Prolonged exposure to sunlight and other environmental factors such as dirt or sand, temperature changes, and humidity can accelerate the deterioration of synthetic slings. The rate of deterioration varies depending on the level of exposure and the thickness of the sling material.

VISIBLE SIGNS OF DETERIORATION

- Discoloration of the sling.
- Irregular surface of the webbing.
- Reduced elasticity due to exposure to sunlight, often shown by accelerated abrasive wear on the webbing.
- Shortening of the nominal length.
- Breakage or damage, often indicated by frayed webbing texture.
- Stiffness of the sling, resulting from prolonged exposure to outdoor conditions.

ANTI-ABRASION TREATMENT

All GORILA® slings receive a special treatment against abrasion. Elasticity: The elongation capacity of a sling depends on the webbing type and finish.

TOLERANCE

The length tolerances detailed below apply to widths up to 4". For slings 6" and wider, additional tolerance must be added. For precise dimensions, please contact our technical department.

UV LIGHT / SUNLIGHT EXPOSURE

Polyester slings have limited outdoor life due to degradation caused by prolonged exposure to sunlight or other measurable UV radiation sources. GORILA® slings used outdoors must be identified with the date of first use and inspected professionally every six months.

TEMPERATURE

Never expose polyester synthetic slings to temperatures above 90°C. (194°F.)

POLYESTER

Treated: 7%
Untreated: 3%

*Before selecting and using a sling, review and understand the safety section.

TYPE OF SLING	TOLERANCES (*)
1 ply:	± (1.5" + 1.5% of sling length)
2 plies:	± (2.0" + 2% of sling length)
3 & 4 plies:	± (3.0" + 3% of sling length)

GORILA® slings must be permanently removed from service when accumulated exposure to environmental conditions reaches these limits:

2 years for 1- and 2-ply slings

3 years for 3- and 4-ply sling

CHEMICALS

Many chemicals have an adverse effect on polyester. The table below is for reference only. For specific temperatures, concentration, and exposure time, please consult our sales representative.

CHEMICAL	POLYESTER	CHEMICAL	POLYESTER
Acids	Suitable	Hydrocarbons	Suitable
Alcohols	Suitable	Acetones	Suitable
Aldehydes	Not suitable	Lubricants	Suitable
Alkalines	Not suitable	Petroleum	Suitable
Bleaching agents	Suitable	Soaps and detergents	Suitable
Dry-cleaning solvents	Suitable	Water and salt water	Suitable
Ethers	Suitable	Weak alkalines	Suitable
Halogenated hydrocarbons	Suitable		

SPECIFIC CRITERIA FOR REMOVING WEB SLINGS FROM SERVICE

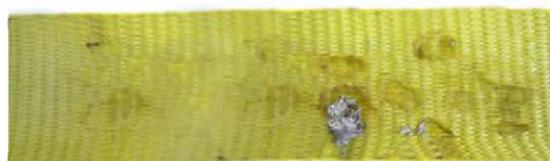
Any web sling must be removed from service if it visibly presents any of the following conditions:

- Missing or illegible identification tag.
- Burns caused by acids or caustic substances.
- Areas of any size that are charred or melted.
- Holes, cuts, tears, or embedded particles.
- Damaged or worn splice stitching that supports the load.
- Excessive abrasion wear.
- Knots in any part of the sling.
- Discoloration and/or fragile or stiff areas anywhere on the sling, indicating possible chemical or ultraviolet/sunlight damage.
- Accessories showing excessive pitting, corrosion, cracks, bending, or breakage.
- Any other visible condition or damage that raises doubts about the product's safety or load-bearing capability.

EXAMPLES OF WEB SLINGS THAT MUST BE REMOVED FROM SERVICE



KNOTTED SLING



WELDING SPARK DAMAGE



CUTS



ABRASION



FRAYING AND TEARS



ACID BURNS

SPECIAL CONSIDERATIONS

Proper selection of an eye-to-eye sling is crucial for safety. The working angle of the sling eye should not exceed the recommended limit. A greater angle can overload the sling and cause failure. Always verify the appropriate eye length according to the hook or accessory size to be used, and consult an expert if in doubt.

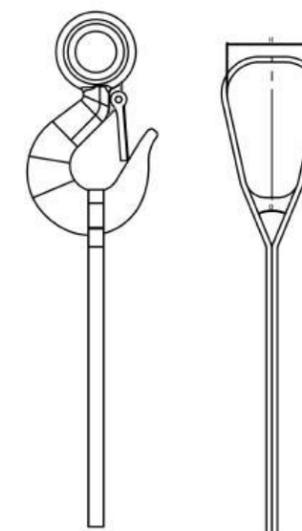
The eye length varies according to the sling width (see table).

EYE LENGTH VS SLING WIDTH

Sling Width (in)	Eye Length Standard (cm / in)		Minimum Sling Length (m / ft)
	Standard	Minimum	
1	40 cm / 15.7 in	25 cm / 9.8 in	0.8 m / 2.6 ft
2	40 cm / 15.7 in	25 cm / 9.8 in	0.8 m / 2.6 ft
3	40 cm / 15.7 in	30 cm / 11.8 in	1.0 m / 3.3 ft
4	50 cm / 19.7 in	30 cm / 11.8 in	1.0 m / 3.3 ft
6	60 cm / 23.6 in	40 cm / 15.7 in	1.5 m / 4.9 ft
8	70 cm / 27.6 in	50 cm / 19.7 in	2.0 m / 6.6 ft
10	80 cm / 31.5 in	N/A	2.5 m / 8.2 ft
12	100 cm / 39.4 in	N/A	3.0 m / 9.8 ft

MAXIMUM HOOK SIZE ACCORDING TO EYE LENGTH

Eye Length (mm / in)	Max Seat Width H (mm / in)
250 mm / 9.8 in	100 mm / 3.9 in
300 mm / 11.8 in	125 mm / 4.9 in
400 mm / 15.7 in	165 mm / 6.5 in
500 mm / 19.7 in	210 mm / 8.3 in
600 mm / 23.6 in	250 mm / 9.8 in
700 mm / 27.6 in	290 mm / 11.4 in
800 mm / 31.5 in	335 mm / 13.2 in
900 mm / 35.4 in	418 mm / 16.5 in



Safety first! Choosing an eye-to-eye sling is not something to take lightly. An incorrect working angle can cause the sling to fail and put lives at risk.

ROUND SLINGS

EUROPEAN STANDARD

- Round slings, manufactured under European standards, are made of high-tenacity polyester fiber in compliance with EN 1492-2, with a safety factor of 7:1.
- One of their main advantages is the ability to identify lifting capacity by the sling's width, color, and the lines on the cover.
- In addition, they do not easily degrade under UV rays and feature an anti-abrasive protection layer that helps maintain lifting performance.
- This type of sling is highly recommended for applications requiring choker hitches, confined spaces, or lifting heavy loads.



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ROUND SLING EUROPEAN STANDARD

CHARACTERISTICS

- Lifting element made of high-tenacity polyester fiber.
- Manufactured with a double sleeve that helps extend its service life.
- Versatile, lightweight, and very easy to handle.
- The color of the webbing and the number of stripes indicate the sling's load capacity.
- Label with double protection and a unique traceability code.
- Standard: EN 1492-2
- Safety factor: 7:1
- Brand: Gorila®





EN 1t

ATTRIBUTES		RATED CAPACITY	
Material	Polyester	1,00 t	2,200 lbs.
Standard	EN 1492-2	0,80 t	1,800 lbs.
Safety factor	7:1	2,00 t	4,400 lbs.
Brand	Gorila®		



EN 2t

ATTRIBUTES		RATED CAPACITY	
Material	Polyester	2,00 t	4,400 lbs.
Standard	EN 1492-2	1,60 t	3,500 lbs.
Safety factor	7:1	4,00 t	8,800 lbs.
Brand	Gorila®		



EN 3t

ATTRIBUTES		RATED CAPACITY	
Material	Polyester	3,00 t	6,600 lbs.
Standard	EN 1492-2	2,40 t	5,300 lbs.
Safety factor	7:1	6,00 t	13,200 lbs.
Brand	Gorila®		



EN 4t

ATTRIBUTES		RATED CAPACITY	
Material	Polyester	4,00 t	8,800 lbs.
Standard	EN 1492-2	3,20 t	7,000 lbs.
Safety factor	7:1	8,00 t	17,600 lbs.
Brand	Gorila®		



EN 5t

ATTRIBUTES		RATED CAPACITY	
Material	Polyester	5,00 t	11,000 lbs.
Standard	EN 1492-2	4,00 t	8,800 lbs.
Safety factor	7:1	10,00 t	22,000 lbs.
Brand	Gorila®		



EN 6t

ATTRIBUTES		RATED CAPACITY	
Material	Polyester	6,00 t	13,200 lbs.
Standard	EN 1492-2	4,80 t	10,580 lbs.
Safety factor	7:1	12,00 t	26,450 lbs.
Brand	Gorila®		



EN 8t

ATTRIBUTES		RATED CAPACITY	
Material	Polyester	8,00 t	17,600 lbs.
Standard	EN 1492-2	6,40 t	14,100 lbs.
Safety factor	7:1	16,00 t	35,300 lbs.
Brand	Gorila®		



EN 10t

ATTRIBUTES		RATED CAPACITY	
Material	Polyester	10,00 t	22,000 lbs.
Standard	EN 1492-2	8,00 t	17,600 lbs.
Safety factor	7:1	20,00 t	44,100 lbs.
Brand	Gorila®		



EE



SO



SSS



SOS



S00



DO



D00



DOS



T0



Q0



T00



T0S



Q00



Q0S

ROUND SLING

Type of round sling
Description

EE

EE = Eye Eye
EN = Endless

300

WLL
Ton / Lbs
3 digits

12

Sling Length
Use actual pull
to pull length (reach)

ROUND SLINGS BRIDLE SLINGS.

ROUND SLING

Type of round sling
Description

DOS

Number of legs
(First letter) **S** = Single
D = Double
T = Triple
Q = Quad
(Second letter) **DOS** = Master link
(Third letter) **DOS** = Sling hook

EE

EE = Eye Eye
EN = Endless

300

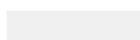
WLL
Ton / Lbs
3 digits

12

Sling Length
Use actual pull
to pull length (reach)

EN 1492-2 | FS 7:1

POLYESTER

	1 LEG			2 LEG		
	 AXIAL	 CHOKER	 BASKET	 60°	 45°	 30°
	1 t / 2,200 lbs.	0,80 t / 1,800 lbs.	2,00 t / 4,400 lbs.	1,73 t / 3,800 lbs.	1,41 t / 3,100 lbs.	1 t / 2,200 lbs.
	2 t / 4,400 lbs.	1,60 t / 3,500 lbs.	4,00 t / 8,800 lbs.	3,46 t / 7,600 lbs.	2,83 t / 6,200 lbs.	2 t / 4,400 lbs.
	3 t / 6,600 lbs.	2,40 t / 5,300 lbs.	6,00 t / 13,200 lbs.	5,20 t / 11,400 lbs.	4,24 t / 9,300 lbs.	3 t / 6,600 lbs.
	4 t / 8,800 lbs.	3,20 t / 7,100 lbs.	8,00 t / 17,600 lbs.	6,93 t / 15,300 lbs.	5,66 t / 12,500 lbs.	4 t / 8,800 lbs.
	5 t / 11,000 lbs.	4,00 t / 8,800 lbs.	10,00 t / 22,000 lbs.	8,66 t / 19,100 lbs.	7,07 t / 15,600 lbs.	5 t / 11,000 lbs.
	6 t / 13,200 lbs.	4,80 t / 10,600 lbs.	12,00 t / 26,500 lbs.	10,39 t / 22,900 lbs.	8,48 t / 18,700 lbs.	6 t / 13,200 lbs.
	8 t / 17,600 lbs.	6,40 t / 14,100 lbs.	16,00 t / 35,300 lbs.	13,86 t / 30,500 lbs.	11,31 t / 24,900 lbs.	8 t / 17,600 lbs.
	10 t / 22,000 lbs.	8,00 t / 17,600 lbs.	20,00 t / 44,100 lbs.	17,32 t / 38,100 lbs.	14,14 t / 31,200 lbs.	10 t / 22,000 lbs.
	12 t / 26,500 lbs.	9,60 t / 21,200 lbs.	24,00 t / 52,900 lbs.	20,78 t / 45,800 lbs.	16,97 t / 37,300 lbs.	12,00 t / 26,500 lbs.
	15 t / 33,100 lbs.	12,00 t / 26,500 lbs.	30,00 t / 66,100 lbs.	25,98 t / 57,200 lbs.	21,21 t / 46,600 lbs.	15,00 t / 33,100 lbs.
	20 t / 44,100 lbs.	16,00 t / 35,300 lbs.	40,00 t / 88,200 lbs.	34,64 t / 76,300 lbs.	28,28 t / 62,200 lbs.	20,00 t / 44,100 lbs.
	30 t / 66,100 lbs.	24,00 t / 52,900 lbs.	60,00 t / 132,300 lbs.	51,96 t / 114,400 lbs.	42,43 t / 93,300 lbs.	30,00 t / 66,100 lbs.
	40 t / 88,200 lbs.	32,00 t / 70,500 lbs.	80,00 t / 176,400 lbs.	69,28 t / 152,600 lbs.	56,57 t / 124,300 lbs.	40,00 t / 88,200 lbs.
	50 t / 110,200 lbs.	40,00 t / 88,200 lbs.	100,00 t / 220,500 lbs.	86,60 t / 190,700 lbs.	70,71 t / 155,400 lbs.	50,00 t / 110,200 lbs.
	60 t / 132,300 lbs.	48,00 t / 105,800 lbs.	120,00 t / 264,600 lbs.	103,92 t / 228,800 lbs.	84,85 t / 186,500 lbs.	60,00 t / 132,300 lbs.
	70 t / 154,300 lbs.	56,00 t / 123,500 lbs.	140,00 t / 308,600 lbs.	121,24 t / 267,000 lbs.	98,99 t / 217,600 lbs.	70,00 t / 154,300 lbs.
	80 t / 176,400 lbs.	64,00 t / 141,100 lbs.	160,00 t / 352,700 lbs.	138,56 t / 305,100 lbs.	113,14 t / 248,700 lbs.	80,00 t / 176,400 lbs.
	90 t / 198,400 lbs.	72,00 t / 158,700 lbs.	180,00 t / 396,800 lbs.	155,88 t / 343,300 lbs.	127,28 t / 279,800 lbs.	90,00 t / 198,400 lbs.
	100 t / 220,500 lbs.	80,00 t / 176,400 lbs.	200,00 t / 440,900 lbs.	173,21 t / 381,400 lbs.	141,42 t / 310,900 lbs.	100,00 t / 220,500 lbs.

WORKING LOAD LIMIT (WLL) IN TONS & LBS.

GORILA® manufactures its synthetic round slings in compliance with and exceeding the international standard EN 1492-2. All of them require that the label clearly identifies the sling material and its maximum load capacities. They are made of abrasion-resistant polymers, ensuring that the information remains legible for longer periods compared to other materials, as they feature a transparent PVC cover.



CLEAR PVC COVER OVER LABEL



LABEL FOLDING MODE



W.L.L:
L: N°:

ASME B30.9 | F.S.S.1

Inspect before each use, do not exceed the rated capacity, and/or sharp areas, do not expose over 90°C (194°F).

Inspeccione antes de cada uso, no exceda la capacidad en zonas constantes y/o punzantes, no amude, equilibre la carga, no exponga sobre 90°C (194°F).

ADVERTENCIA

www.gorilaglobal.com



ASME B30.9 | F.S.S.1
100% Poliéster/Polyester

W.L.L:
L: N°:

FECHA / DATE:

ESLINGA TUBULAR ROUND SLING

GORILA®
CARGAS DE TUBULOS Y LAS
MAYORES DE 1000

VERTICAL

U / BASKET

LAZO / CHOKER

CANASTA / BASKET

CANASTA / BASKET

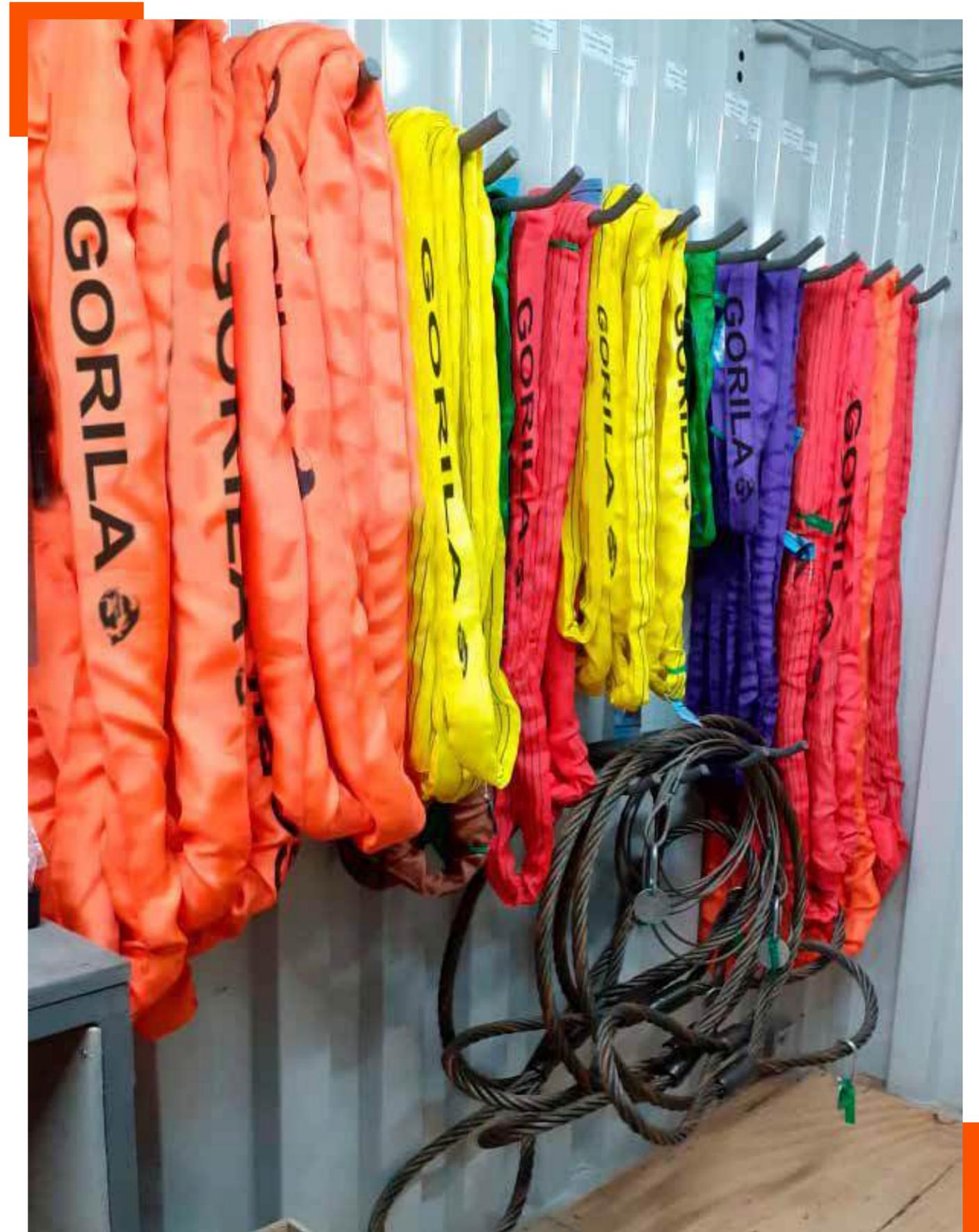
LARGO / LENGTH

FECHA / DATE

100% Poliéster/Polyester



WWW.GORILAGLOBAL.COM



BRAIDED POLYESTER ROUND SLINGS

EUROPEAN STANDARD

- The braided round slings, European standard, are made of high-tenacity polyester fiber, complying with EN 1492-2 and featuring a safety factor of 7:1.
- This product is available in two versions: B6 or B8. This means it is composed of 3 tubular slings or 4 tubular slings, respectively.
- It does not easily degrade under UV rays and includes an anti-abrasive protective layer that helps maintain its lifting capacity.
- This type of sling is recommended when handling heavy loads or performing high-risk lifting operations.



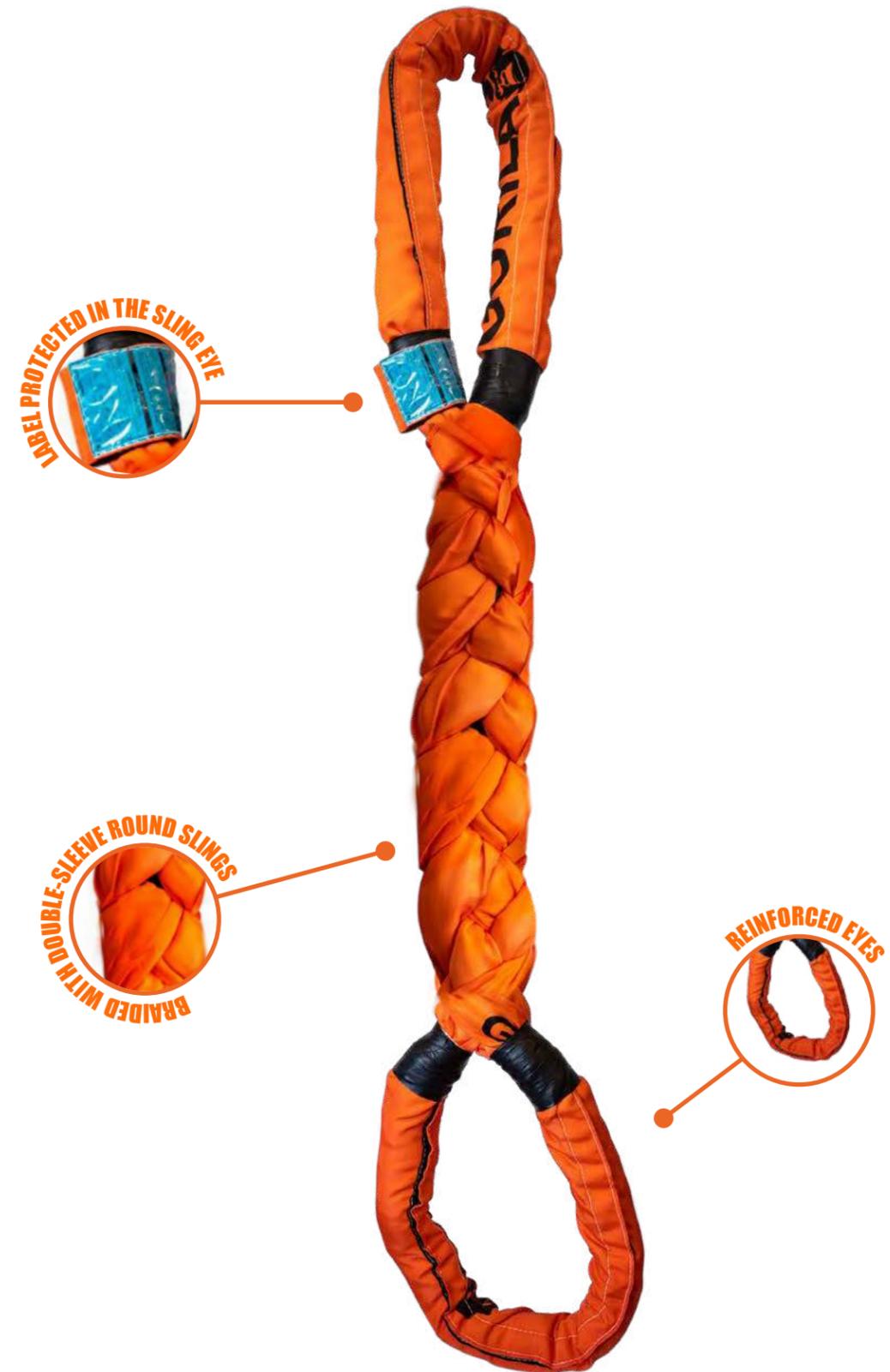
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BRAIDED ROUND SLING B6 – POLYESTER

CHARACTERISTICS

- Composed of 3 endless round slings.
- High load capacity, good flexibility, and reduced weight.
- If one of the slings fails during a maneuver, the remaining slings are capable of supporting the load until it is safely placed on the ground.
- Manufactured with a $\pm 1\%$ length tolerance.
- Features 5% elongation when loaded to its working load limit.
- Resistant to UV rays.
- Safety factor: 7:1.
- Meets or exceeds EN 1492-2 standards.
- Brand: Gorila®



LOAD CAPACITY TABLE

 AXIAL	 CHOKER	 BASKET
3,40 t / 7,500 lbs.	2,72 t / 6,000 lbs.	6,80 t / 15,000 lbs.
6,80 t / 15,000 lbs.	5,44 t / 12,000 lbs.	13,60 t / 30,000 lbs.
10,20 t / 22,500 lbs.	8,16 t / 18,000 lbs.	20,40 t / 45,000 lbs.
13,60 t / 30,000 lbs.	10,88 t / 24,000 lbs.	27,20 t / 60,000 lbs.
17,00 t / 37,500 lbs.	13,60 t / 30,000 lbs.	34,00 t / 75,000 lbs.
20,40 t / 45,000 lbs.	16,32 t / 36,000 lbs.	40,80 t / 90,000 lbs.
27,20 t / 60,000 lbs.	21,76 t / 48,000 lbs.	54,40 t / 120,000 lbs.
34,00 t / 75,000 lbs.	27,20 t / 60,000 lbs.	68,00 t / 150,000 lbs.
40,80 t / 90,000 lbs.	32,64 t / 72,000 lbs.	81,60 t / 180,000 lbs.
51,00 t / 112,000 lbs.	40,80 t / 90,000 lbs.	102,00 t / 224,000 lbs.
68,00 t / 150,000 lbs.	54,40 t / 120,000 lbs.	136,00 t / 300,000 lbs.
102,00 t / 225,000 lbs.	81,60 t / 180,000 lbs.	204,00 t / 450,000 lbs.
136,00 t / 300,000 lbs.	108,80 t / 240,000 lbs.	272,00 t / 600,000 lbs.
170,00 t / 374,000 lbs.	136,00 t / 300,000 lbs.	340,00 t / 749,000 lbs.
204,00 t / 449,000 lbs.	163,20 t / 360,000 lbs.	408,00 t / 898,000 lbs.
238,00 t / 524,000 lbs.	190,40 t / 420,000 lbs.	476,00 t / 1,048,000 lbs.
272,00 t / 599,000 lbs.	217,60 t / 480,000 lbs.	544,00 t / 1,197,000 lbs.
306,00 t / 674,000 lbs.	244,80 t / 540,000 lbs.	612,00 t / 1,347,000 lbs.
340,00 t / 749,000 lbs.	272,00 t / 600,000 lbs.	680,00 t / 1,496,000 lbs.

WORKING LOAD LIMIT (WLL) IN TONS & LBS.

HOW TO IDENTIFY THE PRODUCT?



CLEAR PVC COVER OVER LABEL



ESLINGA TUBULAR B6

TUFLEX® 100% Poliéster

DISTINTEC®

ADVERTENCIA

El uso inadecuado puede causar graves daños personales y a la propiedad. Inspeccione antes de cada uso, no exceda capacidad de carga, proteja la eslinga en zonas cortantes y/o punzantes, no anude, equilibre la carga, no exponga sobre 90°C. Los ángulos aumentan los esfuerzos disminuyendo la capacidad de carga.

EN 1492-2 | F.S.7:1

CARGAS DE TRABAJO t.

LARGO (m)	CÓDIGO		
N°	FECHA		
VERTICAL	LAZO	U	U
			

www.distintec.cl





BRAIDED TUBULAR SLING B8 -POLYESTER

CHARACTERISTICS

- Composed of 4 endless tubular slings.
- High load capacity, excellent flexibility, and reduced weight.
- If one of the slings fails during a lifting operation, the remaining slings will still be capable of supporting the load until it is safely placed on the ground.
- Manufactured with a $\pm 1\%$ length tolerance.
- Provides 5% elongation when loaded to its rated working load limit.
- Resistant to UV rays.
- Safety factor: 7:1.
- Meets or exceeds EN 1492-2 standard.
- Brand: Gorila®



LOAD CAPACITY TABLE

 AXIAL	 CHOKER	 BASKET
3,40 t / 7,500 lbs.	2,72 t / 6,000 lbs.	6,80 t / 15,000 lbs.
6,80 t / 15,000 lbs.	5,44 t / 12,000 lbs.	13,60 t / 30,000 lbs.
10,20 t / 22,500 lbs.	8,16 t / 18,000 lbs.	20,40 t / 45,000 lbs.
13,60 t / 30,000 lbs.	10,88 t / 24,000 lbs.	27,20 t / 60,000 lbs.
17,00 t / 37,500 lbs.	13,60 t / 30,000 lbs.	34,00 t / 75,000 lbs.
20,40 t / 45,000 lbs.	16,32 t / 36,000 lbs.	40,80 t / 90,000 lbs.
27,20 t / 60,000 lbs.	21,76 t / 48,000 lbs.	54,40 t / 120,000 lbs.
34,00 t / 75,000 lbs.	27,20 t / 60,000 lbs.	68,00 t / 150,000 lbs.
40,80 t / 90,000 lbs.	32,64 t / 72,000 lbs.	81,60 t / 180,000 lbs.
51,00 t / 112,000 lbs.	40,80 t / 90,000 lbs.	102,00 t / 224,000 lbs.
68,00 t / 150,000 lbs.	54,40 t / 120,000 lbs.	136,00 t / 300,000 lbs.
102,00 t / 225,000 lbs.	81,60 t / 180,000 lbs.	204,00 t / 450,000 lbs.
136,00 t / 300,000 lbs.	108,80 t / 240,000 lbs.	272,00 t / 600,000 lbs.
170,00 t / 374,000 lbs.	136,00 t / 300,000 lbs.	340,00 t / 749,000 lbs.
204,00 t / 449,000 lbs.	163,20 t / 360,000 lbs.	408,00 t / 898,000 lbs.
238,00 t / 524,000 lbs.	190,40 t / 420,000 lbs.	476,00 t / 1,048,000 lbs.
272,00 t / 599,000 lbs.	217,60 t / 480,000 lbs.	544,00 t / 1,197,000 lbs.
306,00 t / 674,000 lbs.	244,80 t / 540,000 lbs.	612,00 t / 1,347,000 lbs.
340,00 t / 749,000 lbs.	272,00 t / 600,000 lbs.	680,00 t / 1,496,000 lbs.

WORKING LOAD LIMIT (WLL) IN TONS & LBS.

HOW TO IDENTIFY THE PRODUCT?



CLEAR PVC COVER OVER LABEL



ESLINGA TUBULAR B8

TUFLEX® 100% Poliester

DISTINTEC®

ADVERTENCIA

El uso inadecuado puede causar graves daños personales y a la propiedad. Inspeccione antes de cada uso, no exceda capacidad de carga, proteja la eslinga en zonas cortantes y/o punzantes, no anude, equilibre la carga, no exponga sobre 90°C. Los ángulos aumentan los esfuerzos disminuyendo la capacidad de carga.

EN 1492-2 | F.S.7:1

CARGAS DE TRABAJO t.

LARGO (m)	CÓDIGO		
Nº	FECHA		
VERTICAL	LAZO	U	
			

www.distintec.cl



SPECIAL CONSIDERATIONS

SUNLIGHT / UV EXPOSURE

Polyester slings have limited outdoor use due to degradation caused by prolonged exposure to sunlight or measurable UV radiation sources. GORILA® slings that are regularly exposed to outdoor environments must be identified with the date they were placed into service.

TEMPERATURE

Do not expose synthetic polyester slings to temperatures above 194°F (90°C).

CHEMICALS

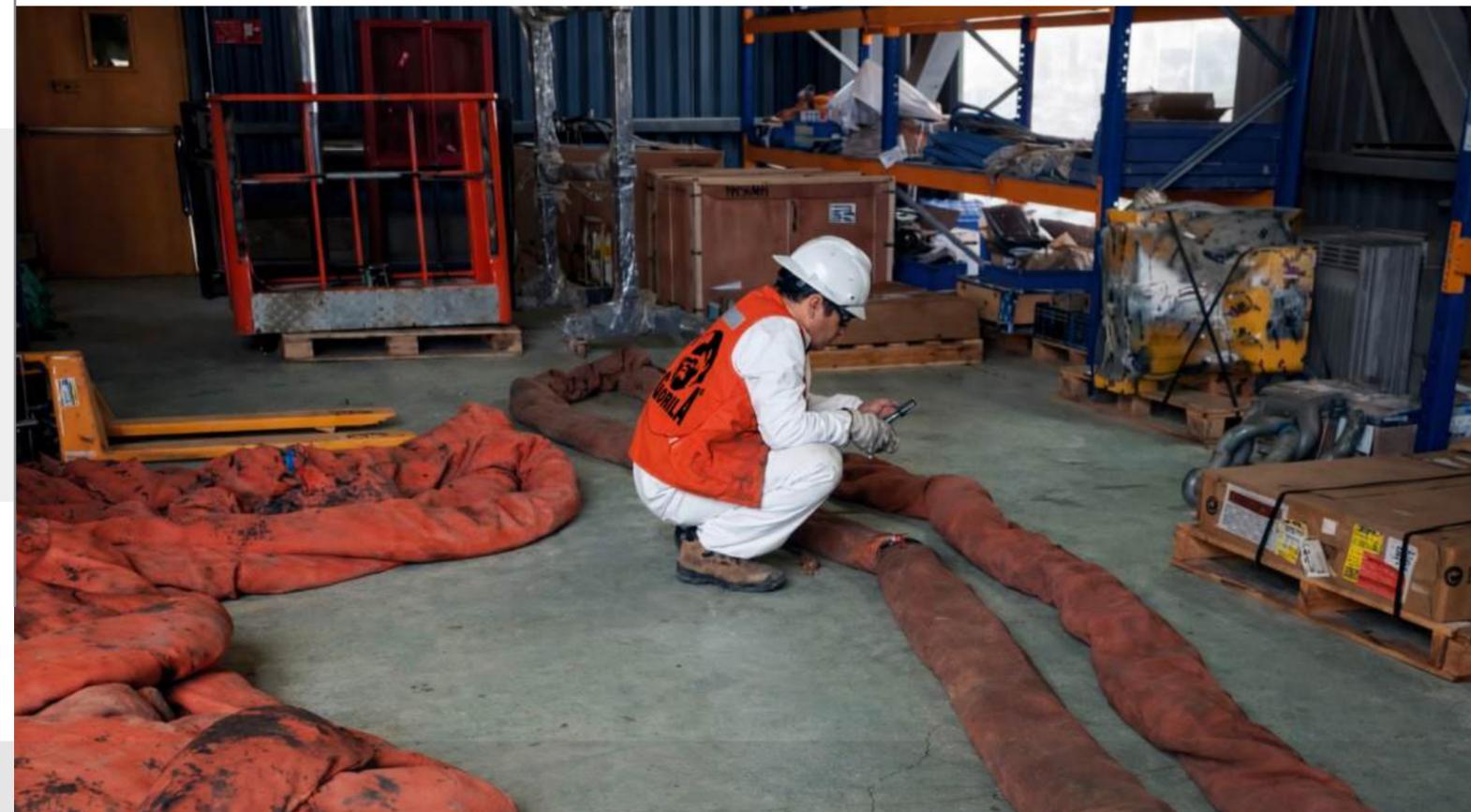
Many chemicals have an adverse effect on polyester. The table below is for reference only. For specific temperatures, concentration, and exposure time, please contact our sales representative.

CHEMICAL	POLYESTER	CHEMICAL	POLYESTER
Acids	Suitable	Hydrocarbons	Suitable
Alcohols	Suitable	Acetones	Suitable
Aldehydes	Not suitable	Lubricants	Suitable
Alkaline substances	Not suitable	Petroleum	Suitable
Bleaching agents	Suitable	Soaps and detergents	Suitable
Dry-cleaning solvents	Suitable	Water and salt water	Suitable
Ethers	Suitable	Mild alkalis	Suitable
Halogenated hydrocarbons	Suitable		

SPECIFIC CRITERIA FOR REMOVING ROUND SLINGS FROM SERVICE

All synthetic round slings must be removed from service if any of the following conditions are visibly present:

- Missing or illegible identification tag.
- Burns caused by acids or caustic substances.
- Areas of any size that are charred or melted.
- Holes, cuts, tears, or embedded particles.
- Broken or worn stitching on load-bearing seams or splices.
- Excessive wear due to abrasion.
- Knots found in any part of the sling.
- Discoloration and/or brittle or stiff areas on any part of the sling, which may indicate chemical or UV/light damage.
- Fittings or accessories showing excessive pitting, corrosion, cracks, bending, pulled threads, or other deformation.
- Any other visible conditions or damages that could affect the safety or performance of the product.



EXAMPLES OF ROUND SLINGS THAT MUST BE REMOVED FROM SERVICE

All synthetic round slings must be removed from service if any of the following conditions are visibly present:



CUTS



ABRASION



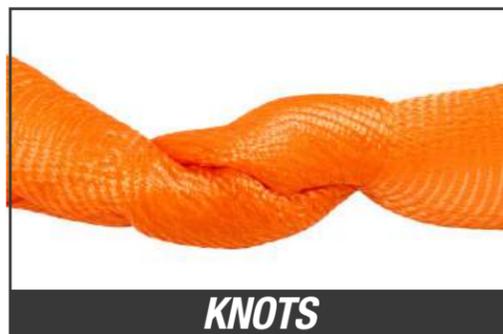
FRAYING AND SNAGS



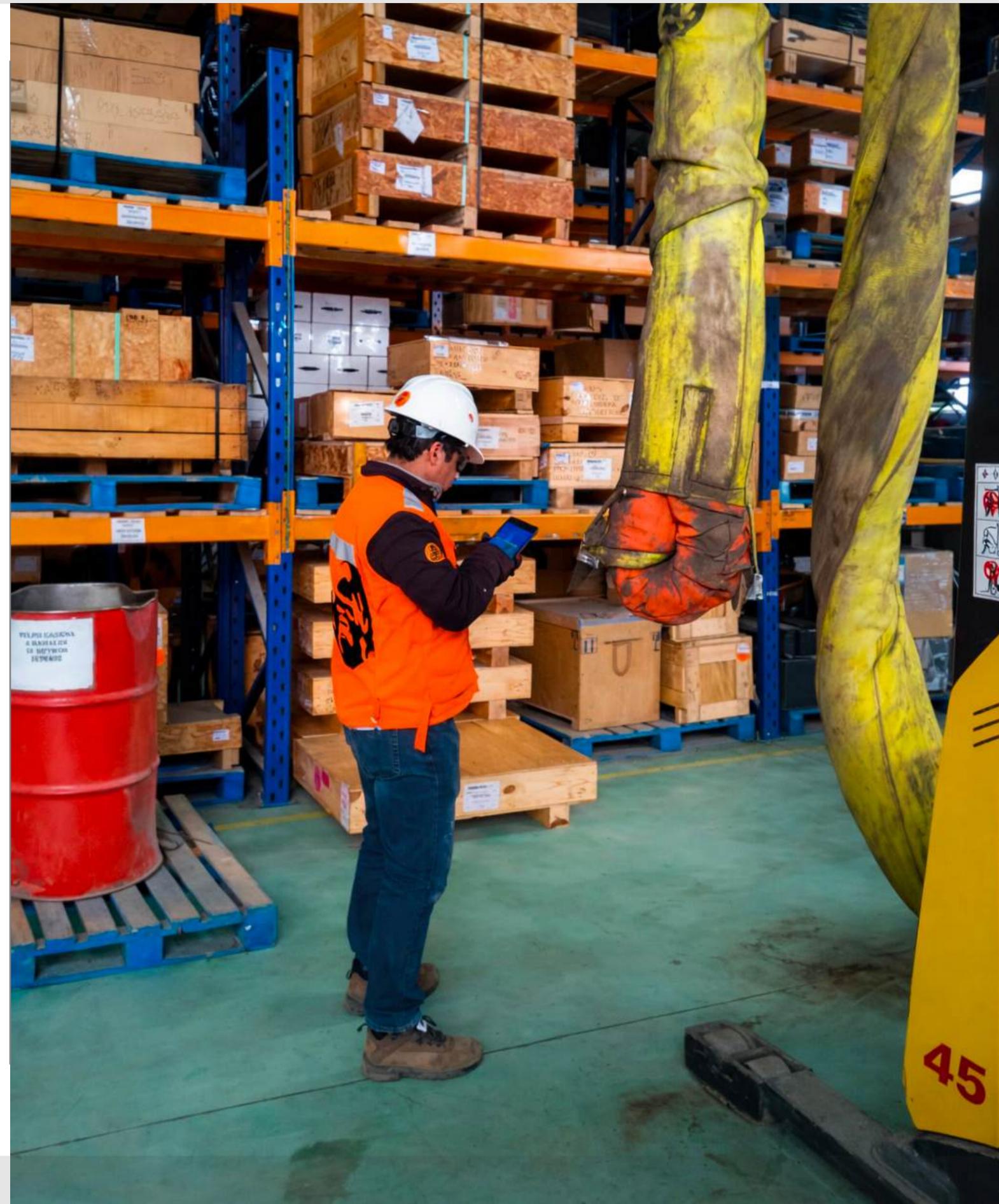
BURNS



ACID BURNS



KNOTS

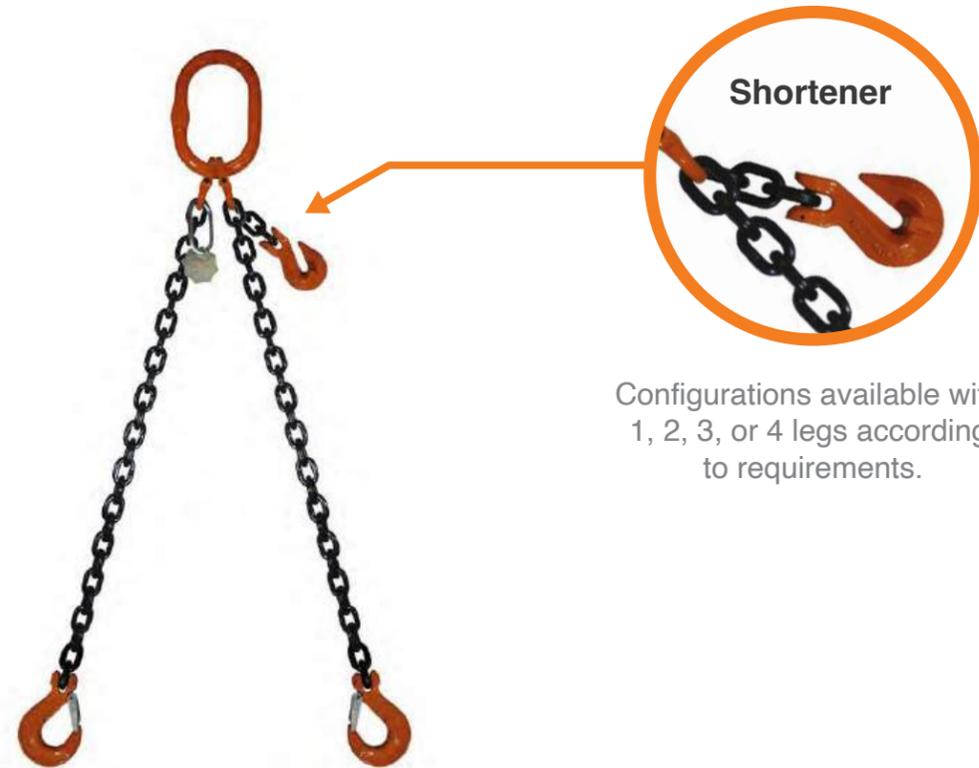


CHAIN SLINGS

- Chain slings are manufactured from Grade 8 alloy steel and comply with ASME B30.9 and EN 818 standards, featuring a safety factor of 4:1.
- This type of product is highly recommended when resistance to abrasion, exposure to high temperatures, and protection against cuts are required.
- Available in sizes ranging from 6 mm (7/32") to 32 mm (1-1/4"), with the advantage of working from 1 to 4 legs and offering a wide variety of hook configurations.
- Additionally, they can be manufactured with shortening hooks on the upper section to adjust the sling length as needed during lifting operations.



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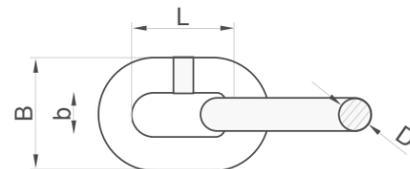


Configurations available with 1, 2, 3, or 4 legs according to requirements.

CHAIN SLING CRADLE GRAB HOOK

CHARACTERISTICS

- Hot forged in carbon steel and alloy steel.
- Quenched and tempered.
- Meets or exceeds ASME B30.9 and EN 818 standards.
- Design factor 4:1.
- Brand: Gorila®



D	L	b	KG/M - LB/FT
6 mm - 1/4 in	18 mm - 0.71 in	90 mm - 0.35 in	0.802 mm - 0.54 in
7 mm - 9/32 in	21 mm - 0.83 in	10 mm - 0.39 in	1.083 mm - 0.73 in
8 mm - 5/16 in	24 mm - 0.94 in	11 mm - 0.45 in	1.416 mm - 0.95 in
10 mm - 3/8 in	30 mm - 1.18 in	14 mm - 0.57 in	2.216 mm - 1.49 in
13 mm - 1/2 in	39 mm - 1.54 in	19 mm - 0.75 in	3.750 mm - 2.52 in
16 mm - 5/8 in	48 mm - 1.89 in	23 mm - 0.93 in	5.685 mm - 3.82 in
20 mm - 3/4 in	60 mm - 2.36 in	28 mm - 1.10 in	8.818 mm - 5.93 in
22 mm - 7/8 in	66 mm - 2.60 in	29 mm - 1.16 in	10.603 mm - 7.13 in
26 mm - 1 in	78 mm - 3.07 in	37 mm - 1.46 in	14.640 mm - 9.84 in
32 mm - 1,1/4 in	96 mm - 3.78 in	48 mm - 1.89 in	22.357 mm - 15.01 in

GRAB HOOK

The overhead grab hooks give the opportunity to reduce the length of the chain leg without losing the sling's load capacity. This allows the user to achieve the correct center of gravity (balance point) and perform a stable lift when the load is not evenly distributed. Each leg can have its own overhead shortening hook, providing independence between them during lifting operations performed by the user.

CONFIGURATION LIST

The following list shows all available combinations of our chain slings, from single-leg configurations to four-leg assemblies equipped with shortening hooks.

1 LEG



SG / SGG SSS / 1A
 SOF / 1A SOAG / 1A
 SOG / 1A SOSL / 1A
 SOO / 1A SOC / 1A
 SOS / 1A SOMV / 1A
 SOSH / 1A SOMH / 1A

2 LEGS



DOP / 1A / 2A DOAG / 1A / 2A
 DOF / 1A / 2A DOSL / 1A / 2A
 DOG / 1A / 2A DOC / 1A / 2A
 DOO / 1A / 2A DOMV / 1A / 2A
 DOS / 1A / 2A DOMH / 1A / 2A
 DOSH / 1A / 2A

3 LEGS



TOP / 1A / 2A / 3A TOAG / 1A / 2A / 3A
 TOF / 1A / 2A / 3A TOSL / 1A / 2A / 3A
 TOG / 1A / 2A / 3A TOC / 1A / 2A / 3A
 TOO / 1A / 2A / 3A
 TOS / 1A / 2A / 3A
 TOSH / 1A / 2A / 3A

4 LEGS



QOF / 1A / 2A / 3A / 4A
 QOG / 1A / 2A / 3A / 4A
 QOO / 1A / 2A / 3A / 4A
 QOS / 1A / 2A / 3A / 4A
 QOSH / 1A / 2A / 3A / 4A
 QOAG / 1A / 2A / 3A / 4A
 QOSL / 1A / 2A / 3A / 4A
 QOC / 1A / 2A / 3A / 4A

BASKET



CS / CSSF
 CD / CDSF

ENDLESS



CS / CSSF



SOF



SOSH



S00



SSS



SOAG



SOC



SOS



SG



SGG



SOG



SOSL



SOMV



SOMH



DOSH



D00



DOS



DOG



DOMV



DOC



DOAG



DOP



DOSL



DOMH



TOSH



TOG



TOAG



TOSL



TOC



TOO



TOS



TOF



TOP



QOSH



QOG



QOSL



QOC



QOAG



QOF



QOO



QOS

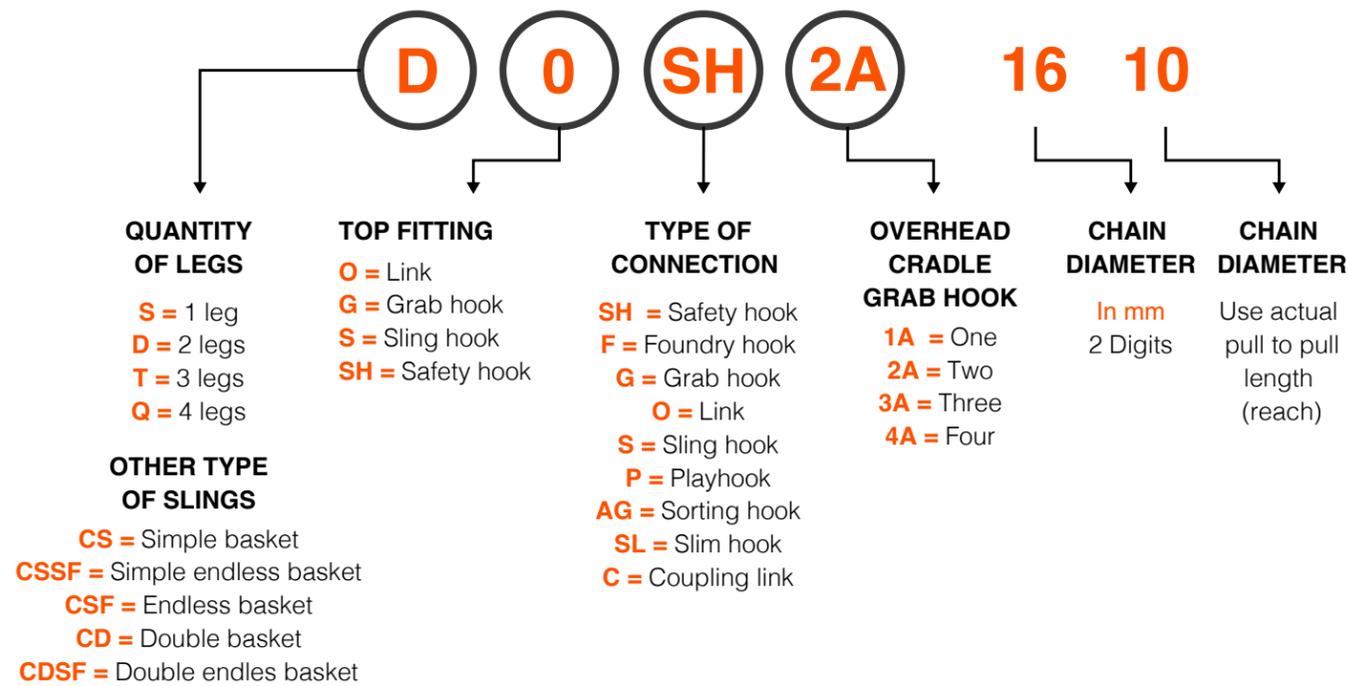
SLING CONFIGURATIONS

Below you will find the most common chain sling configurations. Each lifting setup may include or exclude shortening hooks for load leveling, depending on the number of legs it has. However, any chain sling assembly, regardless of its diameter, can be configured with some of the additional components shown below.

		
ALLOY FORGED G HOOK	EYE HOOK WITH LATCH	
		
CLEVIS HOOK	SWIVEL SELF LOCKING HOOK WITH BEARING	CRADLE GRAB HOOK
		
EYE FOUNDRY HOOK	FORGED ALLOY STEEL SORTING HOOK	PLAYHOOK

		
MAGNETIC LIFTER	VERTICAL PLATE LIFTING CLAMP	
		
HORIZONTAL PLATE LIFTING CLAMP	ROUND STOCK GRAB	HORIZONTAL PLATE CLAMP WITH SAFETY LOCK
		
UNIVERSAL PLATE CLAMP	BEAM CLAMP	DRUM CLAMP

HOW TO IDENTIFY THE PRODUCT?



LOAD CAPACITY TABLE

Ø (mm)	1 LEG			2 LEG				3-4 LEGS		
	AXIAL	LOOP	BASKET	60°	45°	30°	LOOP 60°	60°	45°	30°
6	1,12	0,90	2,24	1,94	1,58	1,12	1,55	2,91	2,38	1,68
8	2,00	1,60	4,00	3,46	2,83	2,00	2,77	5,20	4,24	3,00
10	3,15	2,52	6,30	5,46	4,45	3,15	4,36	8,18	6,68	4,73
13	5,30	4,24	10,60	9,18	7,50	5,30	7,34	13,77	11,24	7,95
16	8,00	6,40	16,00	13,86	11,31	8,00	11,08	20,78	16,97	12,00
20	12,50	10,00	25,00	21,65	17,68	12,50	17,32	32,48	26,51	18,75
22	15,00	12,00	30,00	25,98	21,21	15,00	20,78	38,97	31,82	22,50
26	21,20	16,96	42,40	36,72	29,98	21,20	29,37	55,08	44,97	31,80
32	31,50	25,20	63,00	54,56	44,54	31,50	43,65	81,84	66,81	47,25

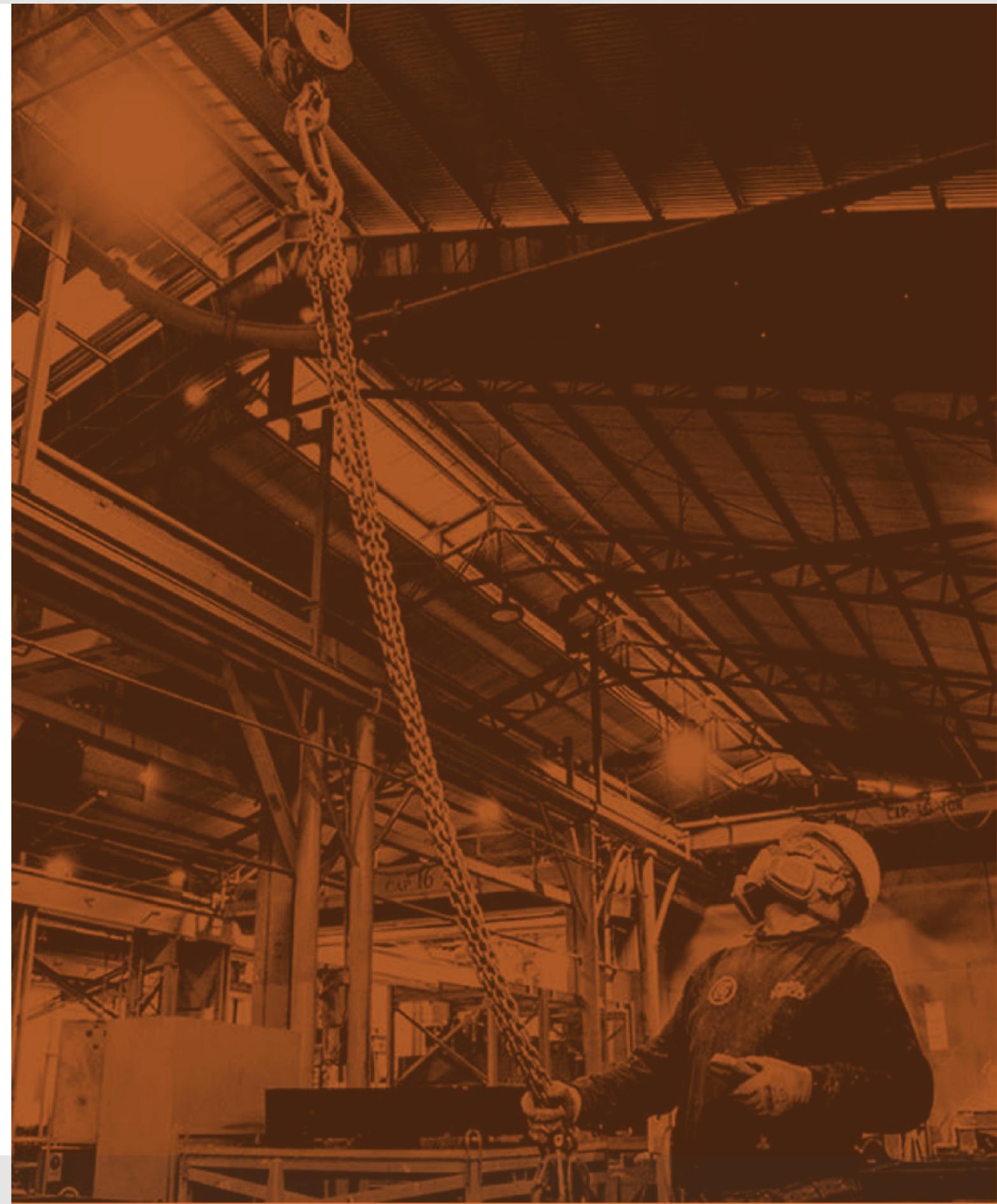
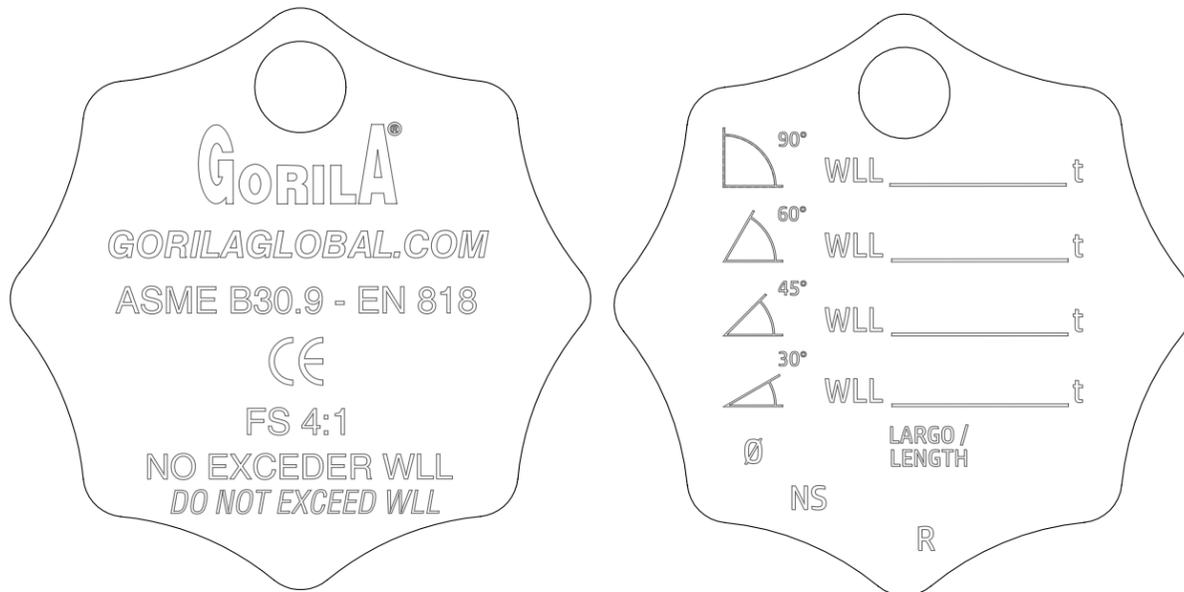
Working Load in Tons

Ø (in)	1 LEG			2 LEG				3-4 LEGS		
	AXIAL	LOOP	BASKET	60°	45°	30°	LOOP 60°	60°	45°	30°
1/4	2,500	2,000	4,900	4,300	3,500	2,500	3,400	6,400	5,300	3,700
5/16	4,400	3,500	8,800	7,600	6,200	4,400	6,100	11,500	9,300	6,600
3/8	6,900	5,600	13,900	12,000	9,800	6,900	9,600	18,000	14,700	10,400
1/2	11,700	9,300	23,100	19,700	16,500	11,700	16,300	29,900	24,600	17,500
5/8	17,600	14,100	35,300	30,600	25,000	17,600	24,400	44,500	36,300	25,700
3/4	27,600	22,000	55,100	47,700	39,000	27,600	38,200	69,300	56,900	40,900
7/8	33,100	26,500	66,100	57,500	47,000	33,100	45,300	82,200	68,000	47,400
1	46,700	37,400	93,500	80,900	66,100	46,700	64,800	117,000	95,100	67,900
1 1/4	69,400	55,100	138,900	120,200	98,300	69,400	96,200	173,100	140,400	97,900

Working Load in Lbs

HOW TO IDENTIFY THE PRODUCT?

All products are identified with a load plate according to international standards ASME B30.9 and EN 818, indicating the maximum working load depending on the lifting angle. If working with an angle different from the one indicated, always refer to the immediately lower working angle. Never use a product that does not have a load plate or whose information is illegible.



Meet or Exceed ASME B30.9, OSHA and EN 818 Standards and Regulations

Chain slings are recommended for heavy industrial applications with severe working conditions, where abrasion resistance and long service life are essential.

Unlike other lifting products, chain slings are more cost-effective in the long term, as their high-alloy steel construction ensures extended durability. At the same time, they are easy to inspect and detect anomalies, allowing them to be repaired if one of their components is damaged, and to be used again once recertified by GORILA®.

Use of Chains Under High Temperature Conditions

When using chain slings in high-temperature environments, the temporary and permanent effects on the steel must be considered. The table below shows the percentage reduction in working load that must be applied to a G8 sling depending on the operating temperature. Permanent reductions are cumulative and must be identified on the product.

Chain slings are also affected by water and dirt; therefore, it is always recommended to store them hanging in dry environments, without touching the floor. It is also advisable to clean the chains whenever dirt is visible, as it affects the free movement of their components, and to keep all moving parts properly lubricated.

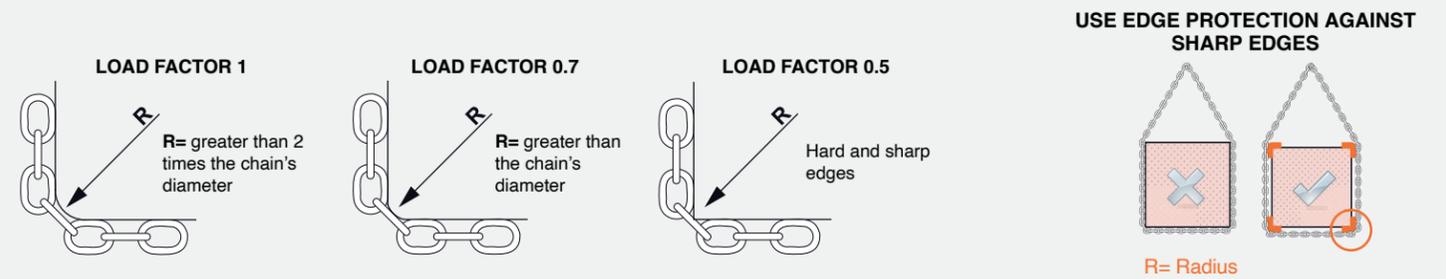
TEMPERATURE EFFECTS			
°C	°F	TEMPORARY REDUCTION	PERMANENT REDUCTION
204	400	10%	N/A
260	500	15%	N/A
316	600	20%	5%
371	700	30%	10%
427	800	40%	15%
482	900	50%	20%
538	1,000	60%	25%
+538	+1,000	REMOVE FROM SERVICE	

Increased Service Life

Chain slings are designed to provide superior durability for heavy lifting operations. When used correctly, they can be highly cost-effective for any company. To extend their lifespan, avoid direct contact of the links with sharp edges and ensure proper positioning against corners.

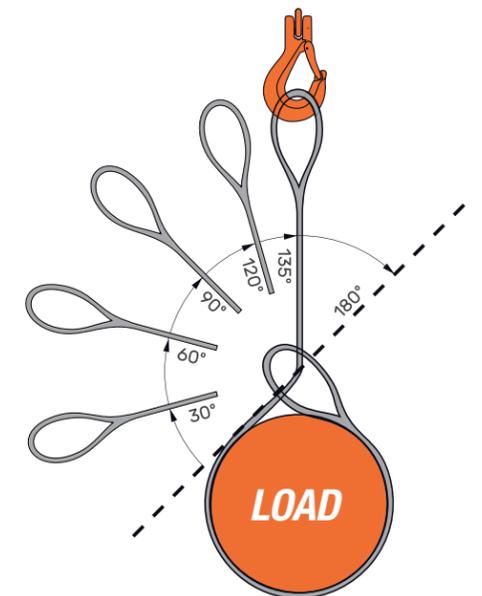
If necessary, PVC or metal edge protectors should be used depending on the type of load being handled.

Effect of Sharp Edges



Calculated Load Capacities of a Choker Sling

CHOKER ANGLE	LOAD CAPACITY
Over 120°	100%
90° to 120°	87%
60° to 89°	74%
30° to 59°	62%
0° to 29°	49%



***SPECIFIC CRITERIA FOR REMOVING CHAIN SLINGS FROM SERVICE***

- The tag is missing or illegible.
- It has at least one elongated link.
- Any kind of repair or modification is observed.
- There are cuts, dents, or incrustations.
- Corrosion has penetrated the material.
- Excessive wear or abrasion is present.
- Hooks show an opening greater than 15%, are bent, twisted, or cracked.
- Connectors do not move freely.
- Hooks have damaged, deformed, or altered safety latches.
- Other visible conditions or damages cause doubts about the product's safety.

WIRE ROPE SLINGS

- Wire rope slings (strops) can be manufactured with cable diameters ranging from ¼” to 3”.
- This type of sling complies with ASME B30.9 and EN 13414 standards, featuring a safety factor of 5:1.
- Additionally, there is a wide variety of wire constructions available, such as 6x19, 6x36, and 6x41.
- This product is ideal for applications requiring high resistance to abrasion, UV rays, or heavy-duty use.
- They can be made with thimbles to extend the service life of the sling eyes and can be configured with 1 to 4 legs.
- A strop can be made with a steel or fiber core, and its finish may be lubricated or galvanized.



[Back to Index](#)



WIRE ROPE SLINGS

CHARACTERISTICS

- The wire rope sling is a lifting element made from a length of steel wire rope with eyes at both ends incorporating sleeves.
- Galvanized wire rope with a greased fiber core.
- Can be equipped with various accessories such as thimbles, hooks, etc.
- Meets or exceeds ANSI/ASME B30.9 and EN 13414 standards.
- Safety factor 5:1.
- Brand: Gorila®





OJ/OJ



GU/GU



AR/GU



OJ/GA



GU/GA



AR/GG



AR/AR



AR/GSH



AR/GA



2ARG/OJ



2AR/GU



2AR/GA



2ARG/GG



2AR/AR



2AR/GSH



3AR/OJ



3ARG/GU



3AR/GA



3AR/GG



3AR/AR



3ARG/GSH



4ARG/OJ



4AR/GA



4AR/GU



4AR/GG



4ARG/AR



4AR/GSH

HOW TO IDENTIFY THE PRODUCT?

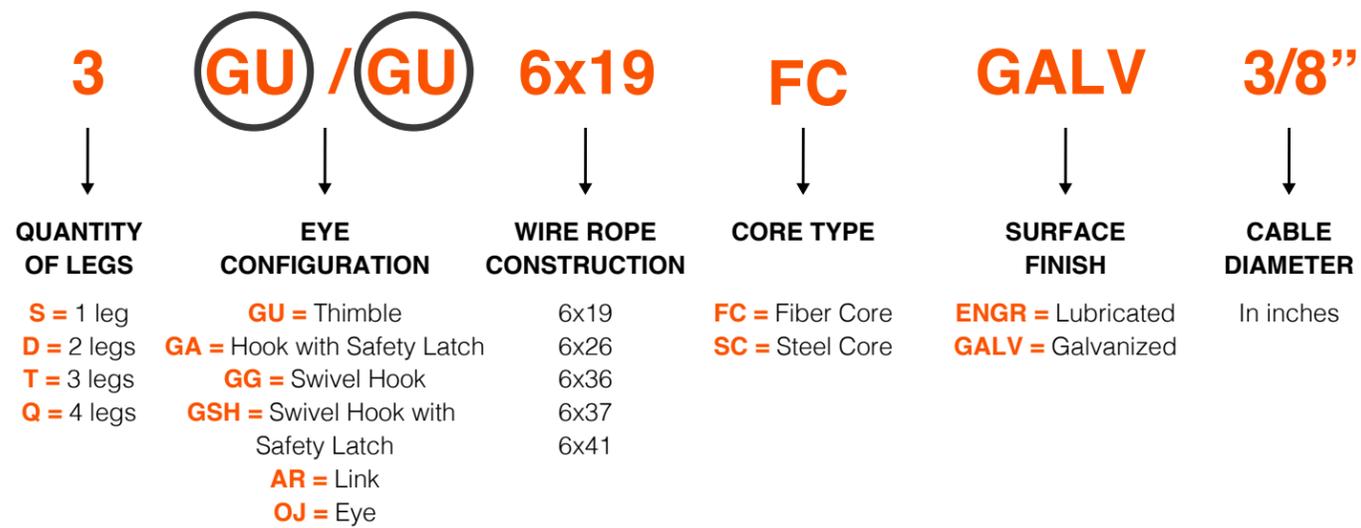
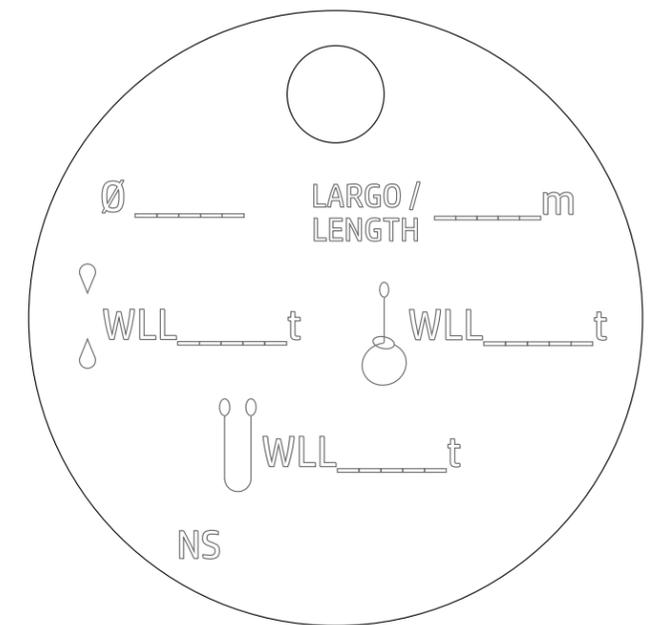


PLATE LABEL

All products are identified with a plate label according to international standards, indicating the maximum working load based on the lifting angle. If working at a different angle than the one specified, always refer to the immediately lower working angle. Never use a product that lacks a load plate or whose information is illegible.



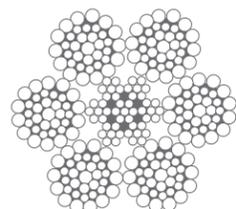
ASME B30.9 & EN 13414 | FS5:1
LUBRICATED FIBER CORE

ASME B30.9 & EN 13414 | FS5:1
LUBRICATED FIBER CORE



WIRE ROPE SLINGS LOADS

EIPS FC 6x19 / 6x36 | ASME B30.9 | EN 13414 | FS 5:1



WIRE ROPE SLINGS LOADS

IWRC SC 6x19 / 6x36 | ASME B30.9 | EN 13414 | FS 5:1

Ø (in)	1 LEG			2 LEG				3-4 LEGS		
	AXIAL	LOOP	BASKET	60°	45°	30°	LOOP 60°	60°	45°	30°
1/4"	0,54	0,40	1,08	0,94	0,76	0,54	0,83	1,40	1,15	0,81
5/16"	0,83	0,61	1,66	1,44	1,17	0,83	1,27	2,16	1,76	1,25
3/8"	1,17	0,87	2,34	2,03	1,65	1,17	1,81	3,04	2,48	1,76
7/16"	1,58	1,17	3,16	2,74	2,23	1,58	2,44	4,10	3,35	2,37
1/2"	2,08	1,54	4,16	3,60	2,94	2,08	3,20	5,40	4,41	3,12
9/16"	2,67	1,98	5,34	4,62	3,78	2,67	4,12	6,94	5,66	4,01
5/8"	3,25	2,41	6,50	5,63	4,60	3,25	5,00	8,44	6,89	4,88
3/4"	4,67	3,46	9,34	8,09	6,60	4,67	7,19	12,13	9,91	7,01
7/8"	6,33	4,68	12,66	10,96	8,95	6,33	9,73	16,45	13,43	9,50
1"	8,17	6,05	16,34	14,15	11,55	8,17	12,58	21,23	17,33	12,26
1 1/8"	10,00	7,40	20,00	17,32	14,14	10,00	15,38	25,98	21,21	15,00
1 1/4"	12,50	9,25	25,00	21,65	17,68	12,50	19,22	32,48	26,52	18,75
1 3/8"	15,00	11,10	30,00	25,98	21,21	15,00	23,08	38,97	31,82	22,50
1 1/2"	17,50	12,95	35,00	30,31	24,75	17,50	26,92	45,47	37,12	26,25
1 5/8"	20,00	14,80	40,00	34,64	28,28	20,00	30,76	51,96	42,43	30,00
1 3/4"	23,33	17,26	46,66	40,41	32,99	23,33	35,87	60,61	49,49	35,00
2"	30,83	22,81	61,66	53,40	43,60	30,83	47,41	80,10	65,40	46,25
2 1/8"	33,33	24,66	66,66	57,73	47,14	33,33	51,25	86,59	70,70	50,00
2 1/4"	36,67	27,14	73,34	63,51	51,86	36,67	56,41	95,27	77,79	55,01
2 3/8"	40,83	30,21	81,66	70,72	57,74	40,83	62,78	106,08	86,61	61,25
2 1/2"	45,00	33,30	90,00	77,94	63,64	45,00	69,22	116,91	95,46	67,50
3"	64,17	47,49	128,3	111,15	90,75	64,17	98,70	166,72	136,13	96,26

Ø (in)	1 LEG			2 LEG				3-4 LEGS		
	AXIAL	LOOP	BASKET	60°	45°	30°	LOOP 60°	60°	45°	30°
1/4"	0,65	0,48	1,30	1,13	0,91	0,65	0,84	1,69	1,38	0,98
5/16"	1,00	0,73	2,00	1,73	1,40	1,00	1,28	2,60	2,12	1,50
3/8"	1,40	1,04	2,80	2,44	1,98	1,40	1,81	3,64	2,97	2,10
7/16"	1,90	1,40	3,80	3,29	2,68	1,90	2,43	4,94	4,03	2,85
1/2"	2,50	1,85	5,00	4,32	3,53	2,50	3,20	6,50	5,30	3,75
9/16"	3,20	2,38	6,40	5,54	4,54	3,20	4,10	8,31	6,79	4,80
5/8"	3,90	2,89	7,80	6,76	5,52	3,90	5,00	10,13	8,27	5,85
3/4"	5,60	4,15	11,20	9,71	7,92	5,60	7,19	14,55	11,88	8,40
7/8"	7,60	5,62	15,20	13,15	10,74	7,60	9,73	19,75	16,12	11,40
1"	9,80	7,26	19,60	16,98	13,86	9,80	12,57	25,46	20,79	14,70
1 1/8"	12,00	8,88	24,00	20,78	16,97	12,00	15,38	31,18	25,46	18,00
1 1/4"	15,00	11,10	30,00	25,98	21,22	15,00	19,23	38,97	31,82	22,50
1 3/8"	18,00	13,32	36,00	31,18	25,45	18,00	23,07	46,77	38,18	27,00
1 1/2"	21,00	15,54	42,00	36,37	29,70	21,00	26,91	54,56	44,55	31,50
1 5/8"	24,00	17,76	48,00	41,57	33,94	24,00	30,76	62,35	50,91	36,00
1 3/4"	28,00	20,71	56,00	48,49	39,59	28,00	35,88	72,75	59,40	42,00
2"	37,00	27,37	74,00	64,08	52,32	37,00	47,42	96,13	78,49	55,50
2 1/8"	40,00	29,59	80,00	69,28	56,57	40,00	51,27	103,92	84,85	60,00
2 1/4"	44,00	32,57	88,00	76,21	62,23	44,00	56,40	114,32	93,34	66,00
2 3/8"	49,00	30,25	98,00	84,86	69,29	49,00	62,80	127,31	103,94	73,50
2 1/2"	54,00	39,96	108,00	93,53	76,37	54,00	69,21	140,30	114,55	81,00
3"	77,00	56,99	154,00	133,38	108,90	77,00	98,70	200,05	163,34	115,50

GALVANIZED FIBER CORE

Working Load in Tons

1/4"	0,49	0,36	0,98	0,85	0,68	0,49	0,63	1,27	1,04	0,74
5/16"	0,75	0,55	1,50	1,30	1,05	0,75	0,96	1,95	1,59	1,13
3/8"	1,05	0,78	2,10	1,83	1,49	1,05	1,35	2,73	2,23	1,58
7/16"	1,42	1,05	2,84	2,47	2,01	1,42	1,83	3,69	3,01	2,13
1/2"	1,87	1,39	3,74	3,24	2,65	1,87	2,40	4,86	3,97	2,81
9/16"	2,40	1,78	4,80	4,16	3,40	2,40	3,08	6,24	5,09	3,60
5/8"	2,93	2,17	5,86	5,07	4,14	2,93	3,75	7,61	6,22	4,40
3/4"	4,20	3,11	8,40	7,28	5,94	4,20	5,39	10,91	8,91	6,30
7/8"	5,70	4,21	11,40	9,86	8,06	5,70	7,30	14,81	12,09	8,55
1"	7,35	5,45	14,70	12,74	10,40	7,35	9,43	19,10	15,59	11,03

GALVANIZED FIBER CORE

Working Load in Tons

1/4"	0,59	0,43	1,18	1,02	0,82	0,59	0,75	1,53	1,25	0,89
5/16"	0,90	0,66	1,80	1,56	1,56	0,90	1,15	2,34	1,91	1,35
3/8"	1,26	0,94	2,52	2,20	2,20	1,26	1,63	3,27	2,67	1,89
7/16"	1,70	1,26	3,41	2,96	2,96	1,70	2,19	4,42	3,61	2,55
1/2"	2,24	1,67	4,49	3,89	3,89	2,24	2,88	5,82	4,75	3,36
9/16"	2,88	2,14	5,76	4,99	4,99	2,88	3,69	7,48	6,11	4,32
5/8"	3,52	2,60	7,03	6,08	6,08	3,52	4,50	9,15	7,47	5,28
3/4"	5,04	3,73	10,08	8,74	8,74	5,04	6,47	13,09	10,69	7,56
7/8"	6,84	5,05	13,68	11,83	11,83	6,84	8,75	17,77	14,51	10,26
1"	8,82	6,54	17,64	15,29	15,29	8,82	11,31	22,92	18,71	13,23

The working loads are based on components of proper size and shape, correctly seated in the lifting hook. For slinging configurations, the angle between legs must be 120° or greater. (This applies to all types of wire ropes.)

Working Load in Tons

The working loads are based on components of proper size and shape, correctly seated in the lifting hook. For slinging configurations, the angle between legs must be 120° or greater. (This applies to all types of wire ropes.)

Working Load in Tons

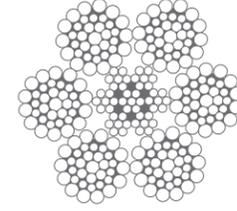
ASME B30.9 & EN 13414 | FS5:1
LUBRICATED FIBER CORE††

ASME B30.9 & EN 13414 | FS5:1
STEEL CORE LUBRICATED



WIRE ROPE SLINGS LOADS

EIPS FC 6x19 / 6x36 | ASME B30.9 | EN 13414 | FS 5:1



WIRE ROPE SLINGS LOADS

IWRC SC 6x19 / 6x36 | ASME B30.9 | EN 13414 | FS 5:1

Ø (in)	1 LEG			2 LEG				3-4 LEGS		
	AXIAL	LOOP	BASKET	60°	45°	30°	LOOP 60°	60°	45°	30°
1/4"	1,190	880	2,380	2,070	1,680	1,190	1,830	3,090	2,540	1,790
5/16"	1,830	1,340	3,660	3,170	2,580	1,830	2,800	4,760	3,880	2,760
3/8"	2,580	1,920	5,160	4,480	3,640	2,580	3,990	6,700	5,470	3,880
7/16"	3,480	2,580	6,970	6,040	4,920	3,480	5,380	9,040	7,390	5,220
1/2"	4,590	3,390	9,170	7,930	6,480	4,590	7,060	11,900	9,720	6,880
9/16"	5,890	4,360	11,770	10,180	8,330	5,890	9,080	15,300	12,480	8,840
5/8"	7,160	5,300	14,330	12,030	9,810	7,160	11,010	18,610	15,190	10,760
3/4"	10,290	7,620	20,610	17,830	14,540	10,290	15,850	26,730	21,870	15,450
7/8"	13,950	10,320	27,920	24,100	19,740	13,950	21,450	36,270	29,610	20,940
1"	18,010	13,360	36,030	31,200	25,470	18,010	27,730	46,800	38,220	27,000
1 1/8"	22,050	16,300	44,090	38,120	31,160	22,050	33,920	57,280	46,760	33,070
1 1/4"	27,560	20,400	55,120	47,730	38,950	27,560	42,360	71,600	58,450	41,340
1 3/8"	33,070	24,490	66,140	57,160	46,970	33,070	50,880	85,930	70,160	49,600
1 1/2"	38,580	28,550	77,170	66,760	54,530	38,580	59,330	100,280	81,860	57,910
1 5/8"	44,090	32,600	88,190	76,360	62,090	44,090	67,790	114,630	93,560	66,150
1 3/4"	51,340	38,070	102,680	88,990	72,720	51,340	79,090	133,700	109,090	77,160
2"	68,000	50,270	136,010	117,800	96,140	68,000	104,520	176,450	144,120	101,990
2 1/8"	73,400	54,820	146,800	127,130	100,600	73,400	112,980	190,930	155,950	110,230
2 1/4"	80,790	59,820	161,580	140,000	114,360	80,790	124,300	210,020	171,490	121,300
2 3/8"	90,020	66,590	180,040	155,880	127,160	90,020	138,450	233,930	190,970	134,960
2 1/2"	99,200	73,300	198,400	171,910	140,220	99,200	152,390	257,680	210,400	148,830
3"	141,470	104,700	283,040	244,760	200,240	141,470	217,600	367,650	300,140	212,280

Ø (in)	1 LEG			2 LEG				3-4 LEGS		
	AXIAL	LOOP	BASKET	60°	45°	30°	LOOP 60°	60°	45°	30°
1/4"	1,433	1,059	2,866	2,491	2,007	1,433	1,852	3,725	3,047	2,162
5/16"	2,205	1,609	4,409	3,817	3,087	2,205	2,822	5,747	4,674	3,307
3/8"	3,086	2,293	6,171	5,380	4,366	3,086	3,986	8,027	6,540	4,631
7/16"	4,189	3,086	8,377	7,249	5,909	4,189	5,358	10,892	8,888	6,283
1/2"	5,511	4,078	11,023	9,526	7,787	5,511	7,050	14,331	11,679	8,268
9/16"	7,055	5,249	14,125	12,205	10,016	7,055	9,050	18,321	14,973	10,582
5/8"	8,582	6,373	17,190	14,912	12,163	8,582	11,023	22,325	18,210	12,884
3/4"	12,351	9,148	24,692	21,401	17,458	12,351	15,869	32,042	26,180	18,523
7/8"	16,755	12,387	33,535	28,999	23,693	16,755	21,445	43,536	35,519	25,132
1"	21,582	15,994	43,165	37,465	30,555	21,582	27,703	56,131	45,813	32,400
1 1/8"	26,455	19,602	52,911	45,808	37,435	26,455	33,920	68,720	56,163	39,686
1 1/4"	33,069	24,475	66,138	57,286	46,759	33,069	42,419	85,894	70,161	49,605
1 3/8"	39,682	29,347	79,364	68,729	56,142	39,682	50,898	103,058	84,149	59,484
1 1/2"	46,300	34,221	92,599	80,202	65,518	46,300	59,312	120,270	98,221	69,465
1 5/8"	52,911	39,094	105,821	91,671	74,906	52,911	67,792	137,428	112,226	79,366
1 3/4"	61,729	45,509	123,459	106,861	87,361	61,729	79,110	160,334	130,935	92,593
2"	81,571	60,346	163,143	141,236	115,302	81,571	104,607	212,020	173,064	122,273
2 1/8"	88,185	65,238	176,370	152,641	124,545	88,185	113,030	229,226	186,986	132,292
2 1/4"	97,003	71,889	194,005	168,012	137,245	97,003	124,141	251,993	205,863	145,512
2 3/8"	108,027	79,999	216,057	186,990	152,670	108,027	138,494	280,468	228,995	161,951
2 1/2"	118,049	87,916	238,118	206,213	168,438	118,049	152,471	308,980	252,396	178,231
3"	169,955	125,793	339,511	294,090	240,054	169,955	217,617	440,183	359,769	254,602

GALVANIZED FIBER CORE

Working Load in Lbs

1/4"	1,080	794	2,160	1,873	1,500	1,080	2,799	2,293	1,631	1,270
5/16"	1,653	1,213	3,307	2,866	2,315	1,653	4,299	3,505	2,491	1,950
3/8"	2,315	1,719	4,630	3,993	3,268	2,315	6,015	4,887	3,487	2,730
7/16"	3,132	2,323	6,264	5,315	4,324	3,132	8,134	6,599	4,727	3,687
1/2"	4,123	3,065	8,246	6,926	5,658	4,123	10,717	8,761	6,592	4,863
9/16"	5,291	3,927	10,582	8,976	7,326	5,291	13,754	11,211	8,033	6,240
5/8"	6,457	4,785	12,933	10,792	8,818	6,457	16,743	13,669	9,693	7,610
3/4"	9,260	6,859	18,520	15,843	12,632	9,260	23,991	19,874	14,000	10,910
7/8"	12,567	9,280	25,168	21,740	17,791	12,567	31,904	26,628	18,853	14,810
1"	16,201	12,010	32,395	28,098	22,979	16,201	42,103	35,018	25,586	19,100

STEEL CORE GALVANIZED

Working Load in Lbs

1/4"	1,301	948	2,601	2,249	1,808	1,301	1,653	3,373	2,756	1,962
5/16"	1,984	1,455	3,968	3,439	2,811	1,984	2,535	5,159	4,211	2,976
3/8"	2,778	2,072	5,556	4,850	3,968	2,778	3,594	7,209	5,886	4,167
7/16"	3,748	2,778	7,518	6,526	5,266	3,748	4,828	9,744	7,959	5,622
1/2"	4,938	3,682	9,899	8,576	6,968	4,938	6,349	12,831	10,472	7,408
9/16"	6,349	4,718	12,699	11,001	8,968	6,349	8,135	16,491	13,470	9,524
5/8"	7,760	5,732	15,498	13,404	10,921	7,760	9,921	20,172	16,469	11,640
3/4"	11,111	8,223	22,223	19,268	15,611	11,111	14,264	28,858	23,567	16,667
7/8"	15,080	11,133	30,159	26,081	21,268	15,080	19,290	39,176	31,989	22,619
1"	19,445	14,418	38,890	33,709	27,309	19,445	24,934	50,530	41,248	29,167

For working angles not listed, use the next lower value or consult qualified personnel for calculation.
Do not work with angles smaller than 30°. (This applies to all types of wire ropes.)

Working Load in Lbs

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Do not work with angles smaller than 30°. (This applies to all types of wire ropes.)

Working Load in Lbs

THE WIRE ROPE AND ITS COMPONENTS

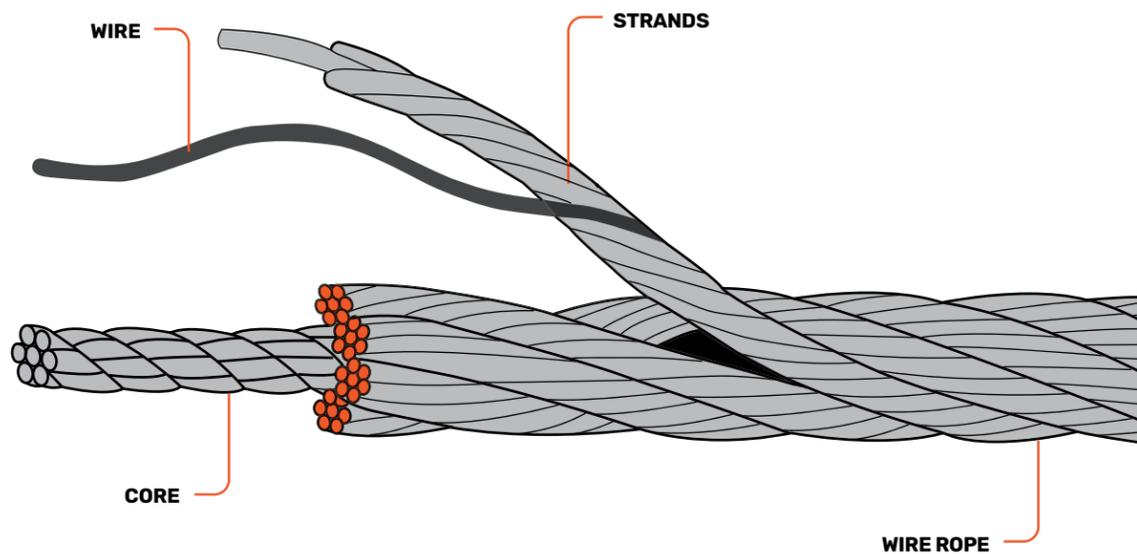
WIRES: Obtained by drawing, which reduces the diameter of a rod by passing it through dies or molds using axial force.

Its properties depend on its chemical composition, microstructure, level of inclusions, grain size, segregation, and manufacturing process.

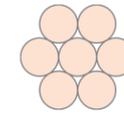
STRANDS: Formed by wires that may have the same or different diameters, helically laid around a central core.

CORE: The core is the central axis of a wire rope around which the strands are wound. It can be made of steel, natural fiber, or synthetic fiber.

WIRE ROPE: Assembly of strands helically wound around the core.



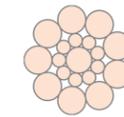
TYPES OF WIRE ROPES



SINGLE LAYER

The most common example of single-layer construction is the seven-wire strand. It consists of one central wire surrounded by six wires of the same diameter.

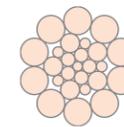
The most common composition is $7 = 6+1$.



SEALE STRAND

Construction in which the outer layer has wires of larger diameter than the inner layer, giving the strand greater resistance to abrasion.

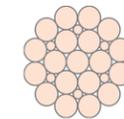
The most common composition is $19 = 9+9+1$.



FILLER STRAND

Characterized by having, between two layers of wires, additional fine wires that fill the spaces between them. This type of strand is used when cables with greater metallic cross-section and good resistance to crushing are required.

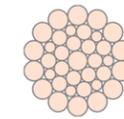
The most common composition is $25 = 12+6/6+1$.



SEALE STRAND

Characterized by having an outer layer made of wires of two different diameters, alternating their position within the outer layer.

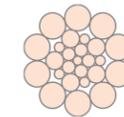
The most common type is $19 = 6/6+6+1$.



WARRINGTON SEALE STRAND

A combination of the previously mentioned types, it merges the best characteristics of both: the inner fine wires provide flexibility, while the outer layer of relatively thicker wires enhances abrasion resistance.

The most common construction is $36 = 14+7/7+7+1$.



WARRINGTON SEALE STRAND

6x26 steel wire rope that combines resistance to bending and abrasion, ensuring good performance in use.

The most common composition is $26 = 10+(5+5)+5+1$.



SPECIFIC CRITERIA FOR REMOVING WIRE ROPE SLINGS FROM SERVICE

The two main and opposite characteristics of wire rope slings are flexibility and abrasion resistance, determined by the number of wires.

Fewer wires result in a larger wire diameter, greater abrasion resistance, and less flexibility. A higher number of wires produces cables with smaller diameters, increasing flexibility and resistance to kinking, but making them more vulnerable to abrasion.

EVERY SLING MUST BE REMOVED FROM SERVICE IF:

- The identification tag is missing or illegible.
- There are any unauthorized alterations or repairs.
- Two or more broken wires per strand are found (Refer to ASME Standard for specific criteria).
- There is evidence of corrosion on the rope.
- Excessive abrasion wear is detected.
- Localized wear is observed.
- Kinks or birdcages have formed.
- Hooks show signs of broken, deformed, or altered safety latches.
- Crushing or partial deformation of the rope is detected.
- Any other visible condition or damage raises doubt about the product's safety and performance.



***WELCOME TO DISCOVER
THE MOST POWERFUL FIBER IN THE WORLD!***

UHMWPE



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15,000 YEARS
AGO

3,000 YEARS
AGO

150 YEARS
AGO

40 YEARS
AGO

PRESENT AND
FUTURE

***THE MOST
EFFICIENT
AND SAFE
REVOLUTIONARY
SOLUTION***



UHMWPE

WELCOME!

- Highly recommended for jobs where abrasion and compression are present.
- UHMWPE fiber possesses outstanding properties that clearly set it apart from other materials such as steel.
- Furthermore, it is a product whose manufacturing process does not generate environmental damage, making it a highly eco-friendly material.



WHY IS IT THE BEST FIBER IN EXISTENCE?

STRENGTH AND EFFICIENCY FOR HIGH-PERFORMANCE SLINGS



SAFE

Soft to the touch, reducing the risk of damage to fragile objects.



LIGHTWEIGHT

Incredibly light, allowing for safe and easy handling.



DURABLE

The most resistant fiber to cutting and abrasion.



STRENGTH

The material with the highest tensile strength.



EFFICIENCY

Being extremely lightweight, it increases operational efficiency by improving handling times.



NON-CONDUCTIVE

UHMWPE fiber does not conduct electricity.

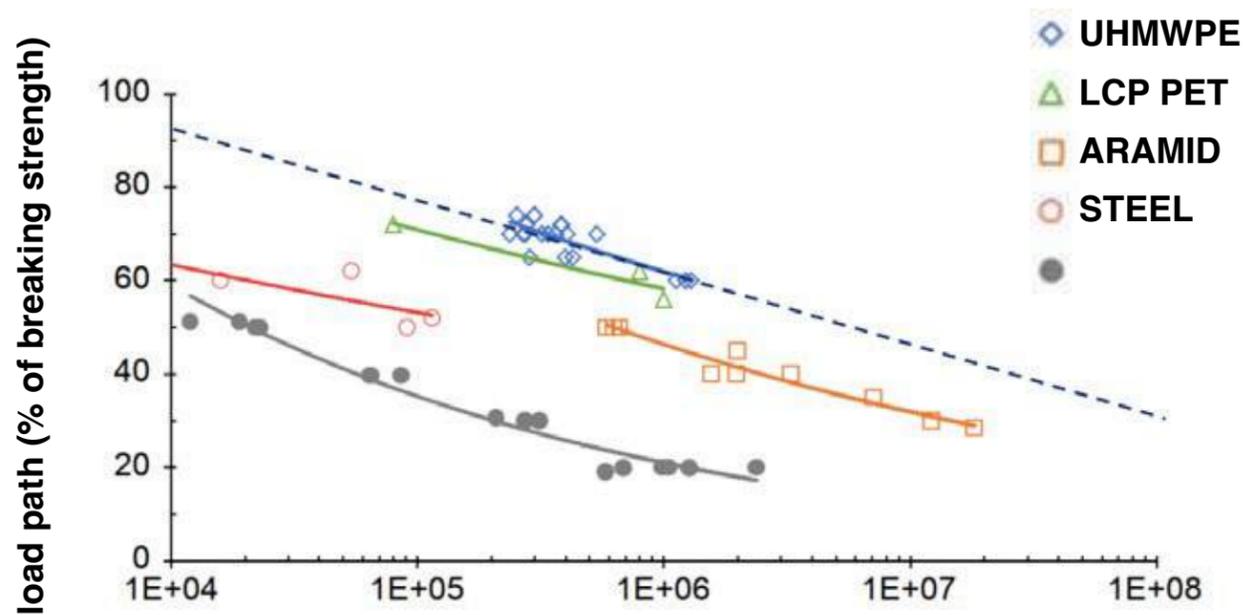


FLOATS ON WATER

Non-absorbent, it floats on water.



OPERATIONAL LIFESPAN OF A SLING ACCORDING TO ITS DIFFERENT RAW MATERIAL COMPOSITIONS



THERMAL				
Relative to 23°C	-60°C	+23°C	+60°C	+100°C
Tensile Strength	110%	100%	80%	55%
Tensile Modulus	110%	100%	85%	60%
Elongation at Break	90%	100%	100%	105%

THERMAL		
Melting Range	144–152°C	zC
Decomposition Temperature	> 300°C	zC
Lowest Recommended Temperature	No Limit	
Recommended Long-Term Operating Limit	70°C	zC
Recommended Short-Term Temperature Limit (Unconstrained Fiber)	130°C	zC
Recommended Short-Term Temperature Limit (Constrained Fiber)	145°C	zC
Linear Thermal Expansion Coefficient	-12 × 10 ⁻⁶	1/K
Specific Heat Capacity	1850	J/kg.K
Thermal Conductivity (Axial)	20	W/m.K
Thermal Conductivity (Transverse)	0.2	W/m.K

CHEMICAL RESISTANCE:

UHMWPE fiber is highly resistant to chemicals, as it is made from ultra-high molecular weight polyethylene.

CHEMICAL RESISTANCE	
Resistance to acids	Excellent
Resistance to alkali	Excellent
Resistance to most chemicals	Excellent
Resistance to water	Excellent
Aviation Jet A fuel (ISO 1817 test liquid F) rtca do160	Excellent
Hydraulic fluid (ISO 1817 test liquid 103) rtca do160	Excellent
Lubricating oil (ISO 1817 test liquid 101) rtca do160	Excellent
Solvents and cleaning fluid (Isopropyl alcohol) rtca do160	Excellent
De-icing fluid (Ethylene glycol) rtca do160	Excellent
Insecticide (Pyrethroid pesticide) rtca do160	Excellent
Fire extinguishant (Protein, Fluoroprotein) rtca do160	Excellent

FLAMMABILITY:

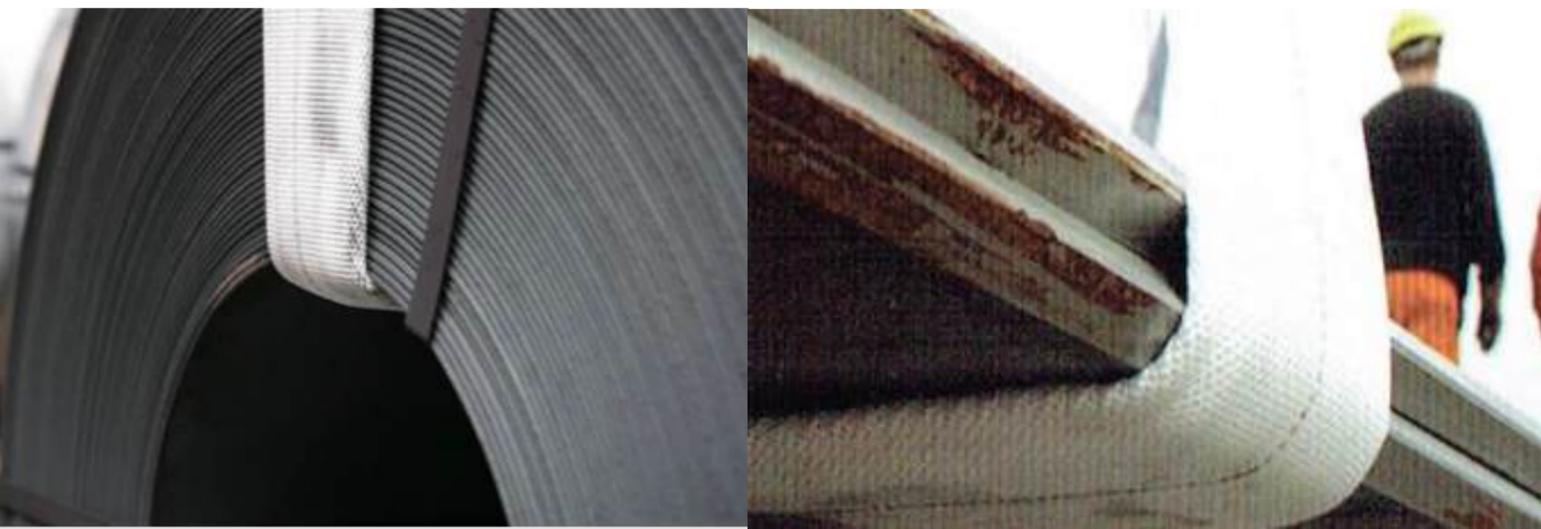
Fabrics and yarn produced from UHMWPE fiber have passed various standards on flammability.

Like any other synthetic fiber, it will burn slowly if ignited in atmospheric conditions and it is qualified as being self-extinguishing upon removal of the flame.

FATIGUE / ABRASION RESISTANCE:

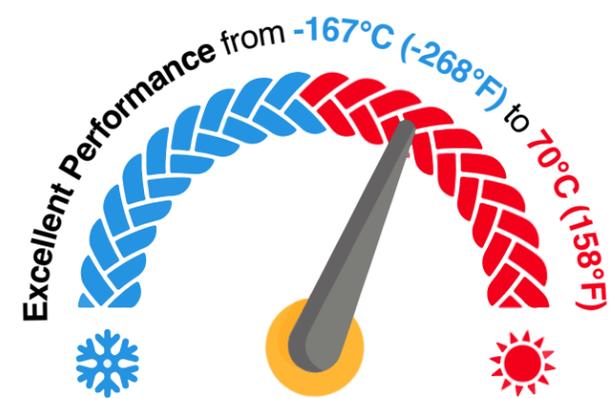
This type of fiber provides superior performance when working under axial loads and even when UHMWPE material is exposed to abrasive conditions caused by the lifted load.

Thanks to its low friction coefficient and excellent abrasion resistance, this fiber can withstand higher compression while maintaining minimal internal fiber damage. While Polyester can resist only 3 abrasion cycles and Aramid can withstand up to 7 cycles, UHMWPE endures more than 30 cycles before breaking.



Only GORILA[®] is designed for all climates

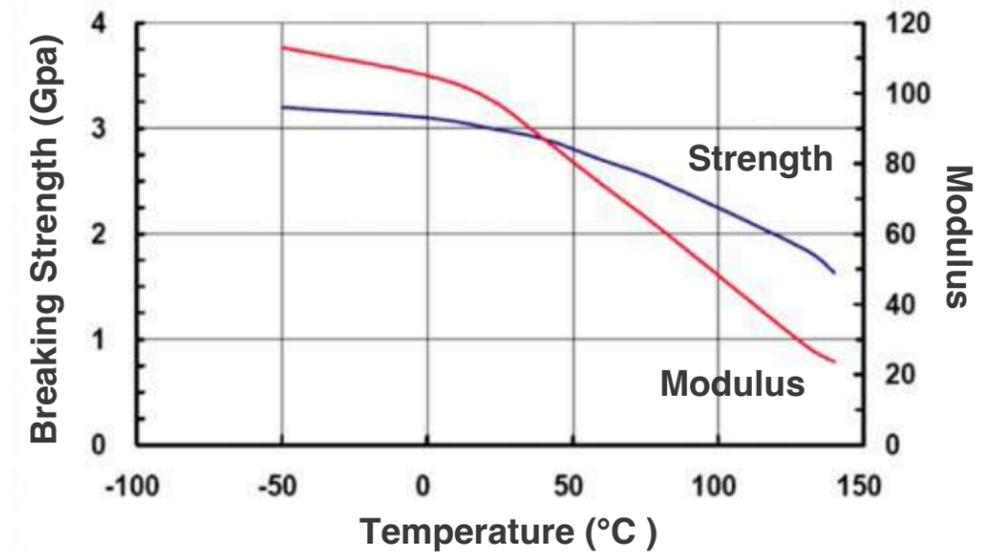
It is highly recommended for operations with significant climatic fluctuations, sites exposed to very low temperatures due to altitude, maritime work, and remote locations such as Antarctica.



UHMWPE fiber can withstand extreme temperature variations. This makes it the most impressive and capable material for working anywhere in the world.

In cold environments such as Arctic offshore waters, UHMWPE has also been tested at temperatures as low as -40°C (-40°F), or even lower, without any loss of strength.

Influence of Test Temperature



ECO-FRIENDLY

The chemical industry is one of the most polluting sectors on the planet, but when it comes to **UHMWPE**, it is the material that causes the least environmental harm, having a very low impact on the carbon footprint.



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Comparison of Carbon Footprint Impact

Compared to alternative fibers, 1 ton of bio-based UHMWPE offers significant reductions in carbon emissions.



Compared to alternative fibers, 1 ton of bio-based UHMWPE offers significant reductions in carbon emissions.

Any fiber made from bio-based sources directly helps reduce CO2 emissions and has a lower environmental impact. Each ton of bio-based material used reduces carbon emissions by 5 tons compared to one ton of conventional **UHMWPE***.

And the comparison with generic **UHMWPE** is even more striking: one ton of bio-based **GORILA UHMWPE** produces 29 tons less CO2 than one ton of generic **UHMWPE**. That's equivalent to charging 3.7 million smartphones or the same amount of CO2 offset by 480 seedlings grown over 10 years.



REDUCE	COMPARE WITH 1T	CHARGED SMARTPHONES	TREE SEEDLINGS GROWN OVER 10 YEARS
6t CO ₂	Nylon =	760 K	99
9t CO ₂	Aramid =	1.1 K	149
29t CO ₂	Generic UHMWPE =	3.7 K	480





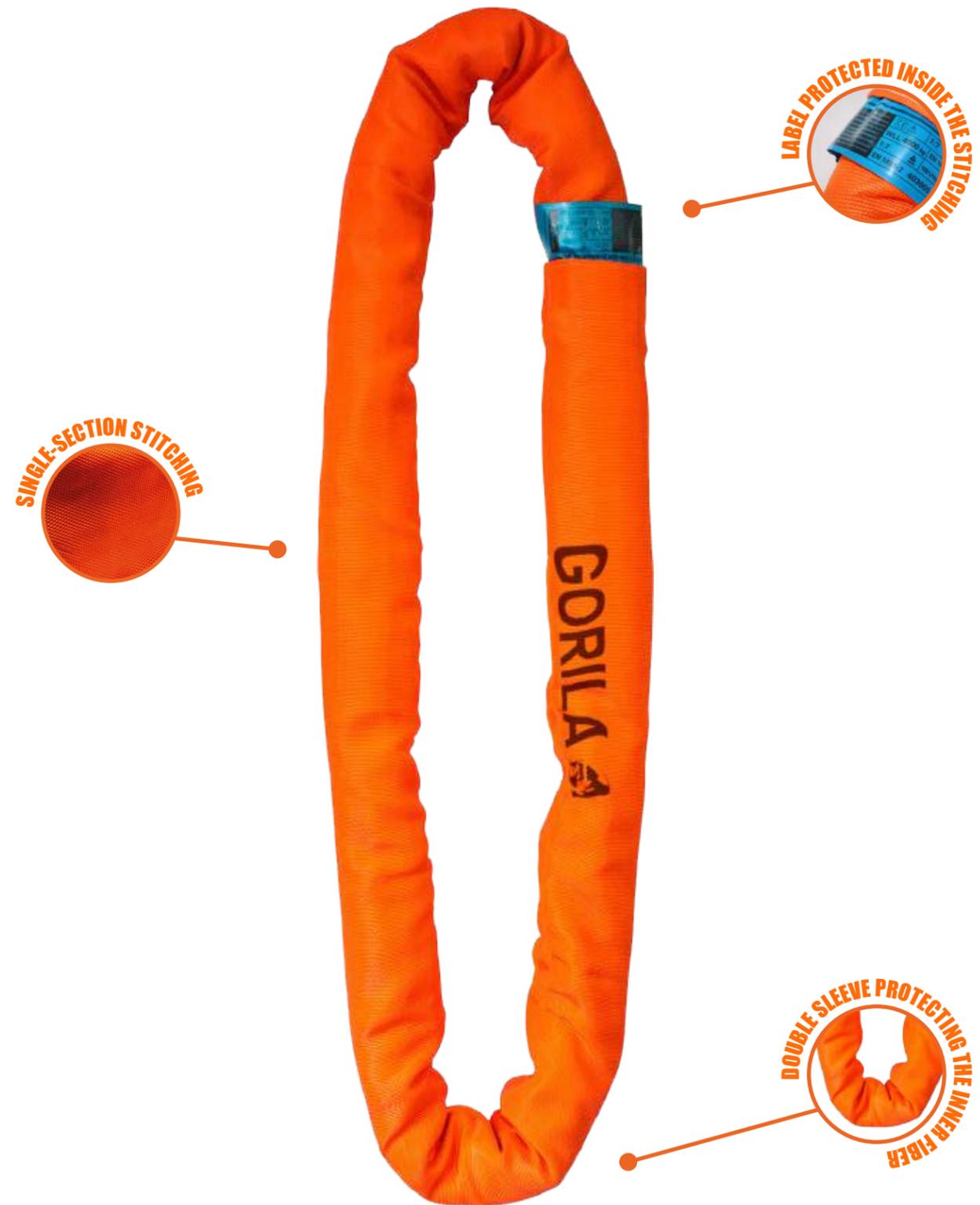
ROUND SLING

CHARACTERISTICS

- The fiber is a multifilament gel-spun fiber produced from ultra-high molecular weight polyethylene.
- It is the strongest fiber in the world.
- Low molecular weight.
- High resistance to many chemicals.
- Floats on water.
- 10 to 12 times stronger than steel.
- 5 times stronger than polyester.
- The fiber with the highest resistance to cutting and abrasion.
- Highly recommended for long-term static load applications and high-risk operations.
- Standard: ASME B30.9
- Association: WSTDA
- Safety factor 5:1
- Brand: Gorila®

ELONGATION UNDER LOAD

The fiber's breaking elongation is 3.5%. Elongation under load at the Working Load Limit (WLL) is 0.7% with a design factor of 5:1, and 0.5% with a design factor of 7:1.



OTHER OPTIONS:



ROUND SLING
EYE - EYE



BRAIDED ROUND SLING
TYPE B6



BRAIDED ROUND SLING
TYPE B8



GORILA[®]

TEXTIL CHAIN

The ideal solution for lifting operations where it is necessary to add steel components such as master links, connectors, and hooks.

It is also highly recommended for heavy-duty lifting operations where traditional steel chains can be replaced by textile chains, improving operational speed and significantly reducing overall weight.



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GORILA[®] TEXTIL CHAIN

CHARACTERISTICS

- 8 times lighter than steel.
- Extremely strong, manufactured with high-performance fibers.
- Soft and non-abrasive to the load.
- Increased safety for operating personnel.
- Capable of working in multiple leg configurations.
- Brand: Gorila[®]



LIGHTWEIGHT

Up to eight times lighter than steel chains.



ECO-FRIENDLY

Manufactured through a production process more environmentally friendly than that of a steel chain.



CHEMICAL RESISTANCE

Highly resistant to chemicals, grease, dirt, salt, and low temperatures.



SOFT

Reduces the risk of damaging the load and injuring personnel.



STRENGTH

Made from **UHMWPE**, the strongest synthetic fiber in the world.



WATERPROOF

No absorption, floats on water.



QUIET

Reduced risk of hearing damage and noise pollution





S00



S0S



S0SH



D00



D0S



D0SH



T00



T0S



T0SH



Q00



Q0S



Q0SH

LOAD CAPACITY TABLE

Ø (mm)	1 LEG			2 LEG				3-4 LEGS		
	AXIAL	LOOP	BASKET	60°	45°	30°	LOOP 60°	60°	45°	30°
8	2,5	2,0	5,0	4,33	3,5	2,5	3,5	6,5	5,3	3,8
10	3,8	3,0	7,6	6,58	5,3	3,8	5,3	9,9	8,1	5,7
13	5,0	4,0	10,0	8,66	7,1	5,0	6,9	10,6	10,6	7,5
16	8,0	6,4	16,0	13,86	11,3	8,0	11,1	20,8	17,0	12,0
20	12,5	10	25,0	21,65	17,7	12,5	17,3	32,5	26,5	18,8
22	16,0	12,8	32,0	27,71	22,6	16,0	22,2	41,6	33,9	24,0

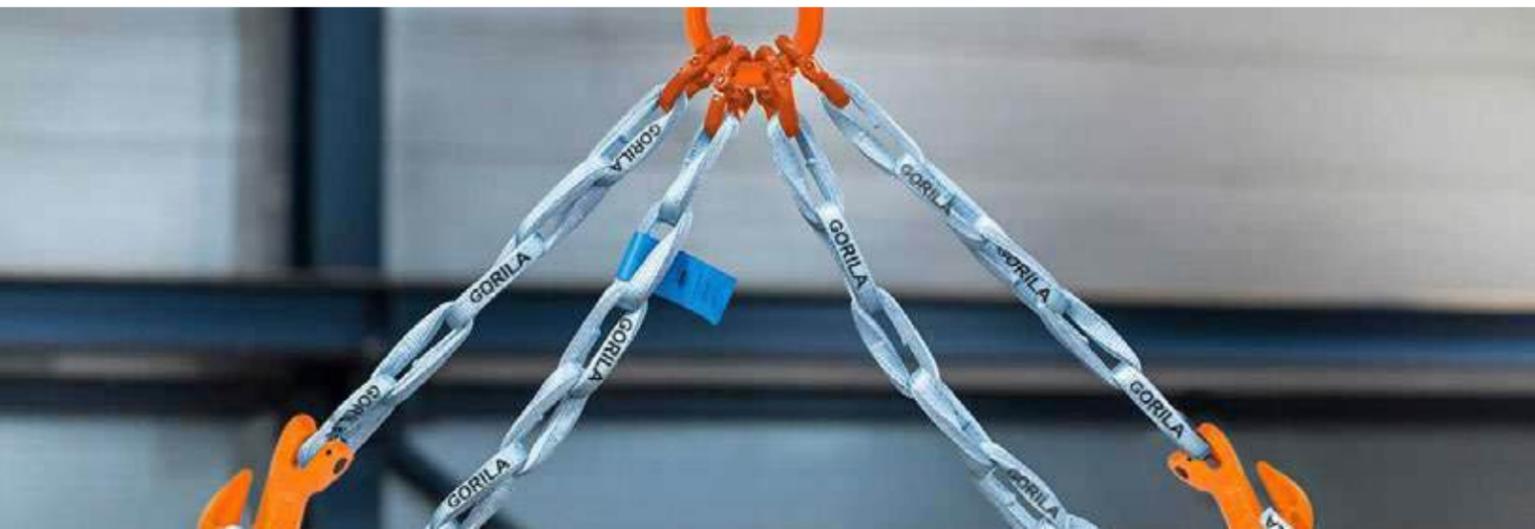
Working Load in Tons

Ø (in)	1 LEG			2 LEG				3-4 LEGS		
	AXIAL	LOOP	BASKET	60°	45°	30°	LOOP 60°	60°	45°	30°
5/16	5,500	4,400	11,000	9,500	7,700	5,500	7,700	14,300	11,700	8,400
3/8	8,400	6,600	16,800	14,500	11,700	8,400	11,700	21,800	17,900	12,600
1/2	11,000	8,800	22,000	19,000	15,700	11,000	15,200	23,400	23,400	16,500
5/8	17,600	14,100	35,300	30,500	24,900	17,600	24,500	45,900	37,500	26,500
3/4	27,600	22,000	55,100	47,700	39,000	27,600	38,100	71,600	58,400	41,400
7/8	35,300	28,200	70,500	61,000	49,800	35,300	49,000	91,700	74,800	52,900

Working Load in Lbs



Manufactured from UHMWPE, the strongest synthetic fiber in the world.



GORILA[®]

*Combines safety
and efficiency.*



Up to eight
times lighter
than steel
chains.

Combines safety and efficiency.

AGILITY

The GORILA® textile chain sling is 80% lighter than a steel chain sling. It allows lifting operations to be faster and more efficient.

LIGHTWEIGHT AND FLEXIBLE

Being a textile product, it protects the load and reduces operator fatigue due to its low weight.

WORK SAFETY

It does not produce whip effects, and as a textile product, it allows easy visual inspections and quick detection of any irregularities.



SLINGS PROTECTIONS



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UHMWPE PROTECTOR

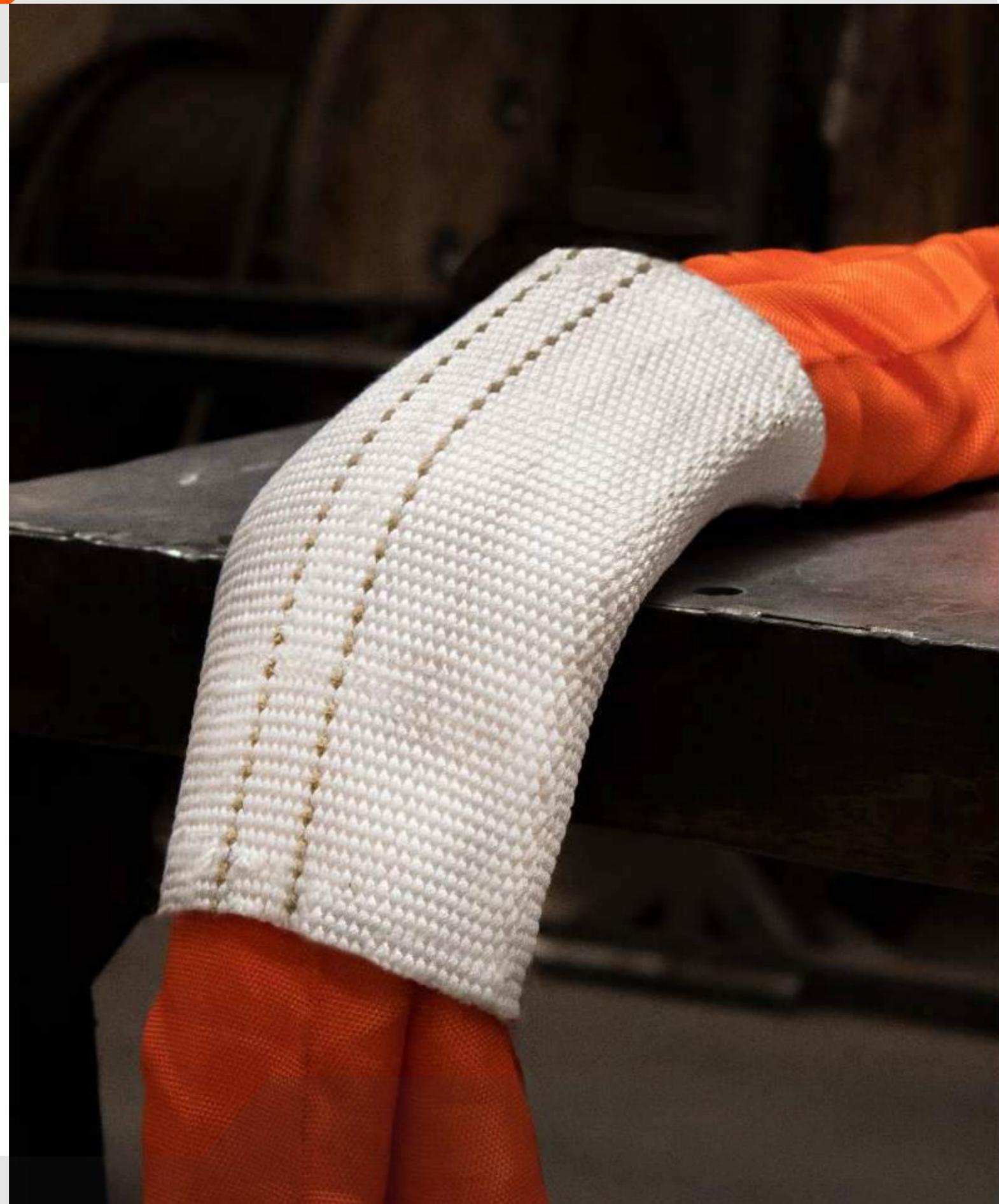
One of the most frequent causes of accidents involving lifting or cargo handling operations is excessive abrasion and cuts on the sling webbing. These cuts are typically caused by friction from overexposure to rough surfaces or direct contact with sharp edges during lifting operations, which quickly deteriorates the sling and poses a serious risk to personnel.

To extend the service life of your slings, protect your load, and above all, ensure the safety of operators, we have developed the GORILA Protector. There is no other product in the world that surpasses the abrasion resistance of our protector.



INCLUDED BENEFITS:

- Excellent resistance to sharp edges.
- Outstanding abrasion resistance under extreme pressure.
- Exceptional flexibility, as expected from a textile-based product.
- Significant improvement in operational safety.
- Extremely lightweight.
- Floats on water.
- Non-conductive —does not conduct electricity.



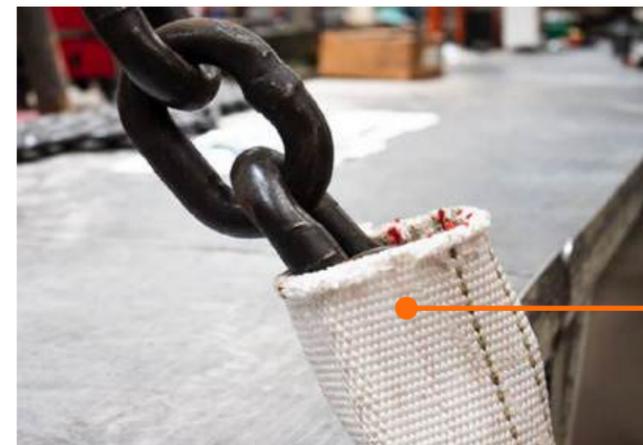
***How to
use your
UHMWPE GORILA[®]
protections***



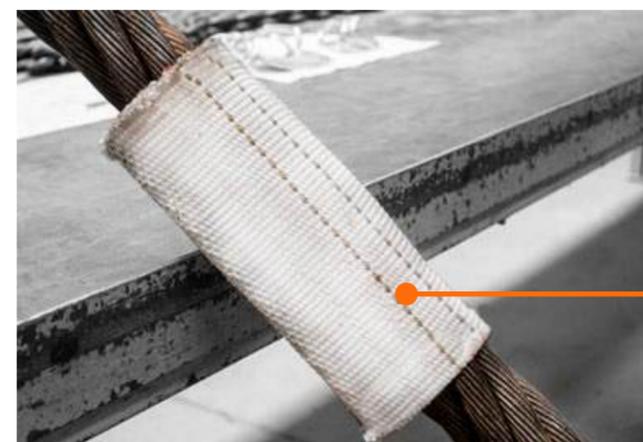
Webbing slings



Round slings



Chain slings



Wire rope slings

POLYURETHANE PROTECTOR

One of the main risks in lifting and load-handling operations is the premature wear of slings caused by constant friction against irregular surfaces, sharp edges, or corners. This friction can lead to cuts, abrasion, and weakening of the webbing, reducing its service life and compromising operational safety.

To minimize this damage, increase sling durability, and most importantly, protect operators, we have developed the GORILA Polyurethane Protector. Thanks to the strength and flexibility of polyurethane, this accessory acts as an effective barrier against friction and impact, ensuring safer and more reliable operations.

The Polyurethane Protector is designed to withstand demanding working conditions, extending the service life of slings and reducing the risk of accidents. There is no other product on the market that combines resistance, durability, and safety as efficiently as ours.



INCLUDED BENEFITS:

- Safe: Soft surface reduces the risk of damaging fragile objects.
- Abrasion resistance: One of the most outstanding mechanical properties of this material; it can withstand long-term wear from friction and impact.
- Non-conductive: Polyurethane does not conduct electricity.
- Contaminant resistance: Highly resistant to degradation caused by ozone and ultraviolet radiation.
- Temperature: Suitable for working conditions up to 100°C (212°F).
Chemical resistance: Resistant to oils and a wide range of chemical agents.



TUFLEX PROTECTOR

In lifting operations, constant friction against sharp edges, rough surfaces, or metal corners is often the main cause of sling wear, leading to cuts and premature weakening that can compromise operational safety.

To address this challenge, we present the GORILA Tufflex Protector, manufactured with high-strength and flexible materials specifically designed to absorb abrasion and protect the webbing under the most demanding conditions.

Its lightweight yet robust structure extends sling service life, reduces the risk of accidents, and allows operators to work with greater confidence and safety.

With the Tufflex Protector, every lifting operation becomes safer, more efficient, and longer-lasting.

There is no other solution on the market that combines protection, performance, and reliability as effectively as our protector.



INCLUDED BENEFITS:

- **Elongation:** Polyester provides an elongation of 3% to 5%, helping absorb stress caused by sudden lifting movements.
- **Fibers:** Treated fibers repel mold and reduce the effects of dirt and abrasion.
Anti-Abrasion Treatment: All GORILA® slings receive a special surface treatment for enhanced abrasion resistance.
- **Elasticity:** The elongation capacity of a sling depends on the weave type and the finish of the webbing.
- **Temperature:** Suitable for working conditions between -40°C (-40°F) and 90°C (194°F).
Sunlight / UV Exposure: Polyester slings have limited outdoor use due to degradation caused by prolonged exposure to sunlight and other measurable UV radiation sources. GORILA® slings used regularly outdoors must be marked with their commissioning date and professionally inspected every 6 months.



INSTRUCTION GUIDE

SLINGS

- In this section, you will find the criteria for removing slings from service, recommendations to extend their service life, detailed technical information for each type, and guidance to understand sling labeling.

Lifting operations require continuous learning and training, and as experts in the field, we are aware of the importance of communicating the standards and procedures that ensure safe and professional work.

- Lifting operations involve a wide variety of tasks, each exposed to risks that may result in severe injuries, amputations, fatalities, or irreparable material losses.



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INSPECTION SERVICE

The American standard (ASME) requires that all slings be inspected at least once a year by qualified and competent personnel. You will have the possibility to receive a documented inspection service carried out by specialized technicians trained in this field.

Chain, wire rope, flat synthetic, and round slings, as well as other lifting components and accessories, can be inspected in a single process, ensuring full traceability, providing independence between them during lifting operations performed by the user.

After analysis, a detailed report will be issued indicating the status of each product and the required actions. These include specific recommendations for operation and handling to improve product lifespan and safety. If desired, a product previously decommissioned can be re-certified when possible, or replaced if necessary.

The inspection of lifting components not only helps maintain their safety but also increases user confidence in the reliability of the products, creating safer working environments and more efficient processes.

INSPECTION PROCESS

Each sling is individually identified and recorded by work area, serial number (if available), dimensions, load capacity, type, application, and condition. Products that are not in optimal condition, according to international safety standards—that is, those that pose a risk to the safety of the worker or the company—will be marked with a safety seal and labeled as NOT APPROVED.

QUALITY AND SERVICE

GORILA® ensures the highest quality in its products through its Continuous Quality Engineering Program, which includes detailed specifications for each item, supplier selection and certification, raw material testing at origin and prior to entering production, and finished product testing according to national and international standards or industry-specific requirements. Load and break tests are performed upon request, along with product certification and visual inspection prior to dispatch.

GORILA® is dedicated to the development, manufacturing, and distribution of lifting and rigging products that meet or exceed industry regulations, as well as national and international standards.

PRODUCT FAMILY	STANDARD / REGULATION			
	ASME	EN	OSHA	FEDERAL
Chain Slings	B30.9	818	1910.184	—
Wire Rope Slings	B30.9	13414	1910.184	—
Web Slings	B30.9	1492-1	1910.184	—
Round Slings	B30.9	1492-2	1910.184	—
Hooks	B30.10	1677-1	—	—
Master Links	B30.26	1677-1 / 1677-2	—	—
Connectors	B30.10	1674-1	—	—
Shackles	B30.26	13889	—	RR-C-271D

GENERAL CONSIDERATIONS

SAFE WORKING PRACTICES

- 1.Sling users must be trained in the general operation of these products, including selection, inspection, rigging practice, personnel safety, and environmental effects.
- 2.Inspect slings daily before being placed into service and remove them if damaged.
- 3.Protect slings from cuts or damage on sharp edges, corners, or points that are not rounded.

4.Use slings properly. Do not exceed their rated capacity and always consider that the working angle affects the load and tension during the lift.

5.Store and maintain slings correctly. They must be protected from potential mechanical, chemical, or environmental damage.

TRAINING

Users of lifting elements must be well informed about the safe and correct use of slings and aware of their responsibilities, as detailed in applicable safety standards and regulations.

ASME B30.9: “Users shall be trained in selection, inspection, personnel care, environmental effects, and rigging practices.”

INSPECTIONS

OSHA regulation 1910.184 states that a qualified person is one who, by possession of a recognized degree, certificate, or professional standing, or who, by extensive knowledge, training, and experience, has successfully demonstrated the ability to solve or resolve problems related to the subject matter and the work.

If you are not sure that you are properly trained and informed, or if you are uncertain which standards or regulations apply, consult your supervisor for the appropriate information or receive training before performing such duties. **DO NOT USE** a sling if you are not sure what you are doing. Lack of aptitude, knowledge, or care can result in an accident or even death.

INSPECTIONS

Each day, before being used, all slings, accessories, and lifting components must be inspected to detect any damage or defects by a competent person designated by the employer. Additional inspections should be carried out during the use of the product whenever service conditions permit. Damaged or defective products must be immediately removed from service. (OSHA Regulation)

INSPECTION FREQUENCY

INITIAL

Each new sling must be inspected by a designated person to confirm that the received sling is correct, free from damage, and meets the applicable requirements for the specified use and purchase order.

FREQUENT

Slings should be inspected by a designated person before each work shift under normal operating conditions, and before each use in applications where wear or degradation of the component is accelerated. (Extreme conditions).

PERIODIC

Every sling must undergo a periodic inspection. The designated inspector should be different from the operator who performs daily inspections and should preferably be a trained and specialized professional.

The frequency of periodic inspections should be based on the actual or expected use of the slings, the severity of service, and the experience gained from similar equipment inspections. However, the interval must not exceed one year.

General frequency guidelines are as follows:

- Normal Service:** Annual
- Severe Service:** Monthly to quarterly
- Special Service:** As recommended by the manufacturer

A written record of the most recent periodic inspections must be maintained. The WSTDA association states: "This organization does not manufacture, but provides the industry with guidelines for the construction, identification, and marking of synthetic slings, offering technical support and practical advice regarding their use, maintenance, and inspection."

The safety bulletin accompanying each sling must be read and understood by all users. Pay special attention to the illustrations on sling misuse in the corresponding pages of this catalog. Damaged slings should never be used; however, under special circumstances, a sling may be repaired and/or recertified, load tested, and returned to service if approved.

Hooks, connectors, and other components in good condition may be reused, while synthetic slings—either web or round—can be restitched and retested by GORILA® before being returned to service.

PROTECT YOUR SLINGS

Cuts on synthetic slings and nicks or grooves on chain slings are among the main causes of accidents. These are generally caused by sharp edges or unprotected contact points. Proper protection can help prevent such damage. Punctures and abrasions seriously reduce the load capacity of slings. Dragging them on the ground can damage any sling—whether steel or synthetic. Always use suitable protection between the sling and the load. Never drag slings on dirt or concrete floors.

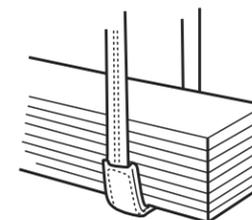


PROTECTIONS

A qualified person must select appropriate materials and methods to protect slings from sharp edges or abrasive surfaces. Wear pads, corner protectors, or other ductile materials are common types of protective devices. However, there is no protective device that is completely "cut-proof."

Some protective devices offer abrasion resistance but are not effective against sharp edges. To determine the proper protection for each lifting operation, it may be necessary to perform several "test lifts" in a controlled environment. Both the sling and the protective devices should be inspected afterward to evaluate any damage.

Always protect slings from sharp edges and corners.



MATERIALS

Materials such as metal shavings or heavy sand can damage slings both internally and externally. Avoid contact with foreign elements whenever possible.

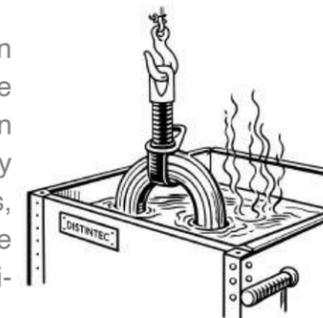
PROPER SLING USE

TEMPERATURE

Avoid working environments where temperatures exceed the operational limits permitted for slings. All slings can suffer damage when exposed

CHEMICALS

Slings exposed to certain chemicals and vapors may lose their rated strength. When using slings in chemically aggressive environments, contact our customer service center to verify the compatibility of the sling materials.



LOADS

Loads must always remain stable with respect to their center of gravity.



Hooks must always be correctly positioned relative to the load being lifted



PROTECT YOUR SLINGS

Improper loading, impact during lifting, load imbalance, overloading, or failure to properly consider the effects of sling angles during lifting operations can seriously compromise safety. Ensure that the load weight is within the rated capacity (WLL) of the product, taking into account the rigging configuration and the lifting angles.

DO NOT LIFT THE LOAD WITH JERKING MOTIONS OR STRIKE A MOVING LOAD. SUDDEN SHOCK LOADING CAN CREATE OVERLOAD CONDITIONS, WHICH MAY CAUSE THE SLING TO FAIL.



Before starting a lifting operation, the unloading area must be properly prepared. Wood blocking or spacers may be used so that, once the load is set down, the slings can be removed safely.

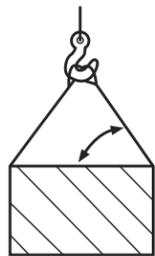


Never forcefully remove a sling from beneath a load while the load is applying pressure on it.

Suspended loads must remain clear of all obstructions. All personnel must stay clear of the work area during lifting operations, while the load is being moved, and whenever the load is suspended.



IN CHOKER OR BASKET HITCHES, THE LOAD MUST BE PROPERLY CENTERED TO PREVENT SLIPPING.



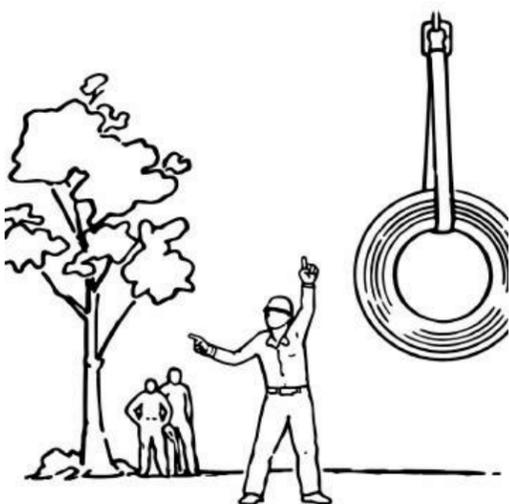
ALWAYS TAKE THE WORKING ANGLES INTO CONSIDERATION.



A SLING MUST NEVER BE SHORTENED WITH KNOTS, BOLTS, OR ANY IMPROVED DEVICE. (OSHA)



SLINGS MUST NOT BE TWISTED AND THE FORMATION OF KINKS MUST BE PREVENTED.

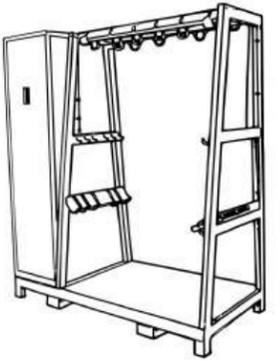


THE MAXIMUM LOAD CAPACITIES (WLL) MUST BE CLEARLY VISIBLE ON THE PRODUCT LABELS OR IDENTIFICATION TAGS/PLATES.

PROTECT YOUR SLINGS

STORAGE

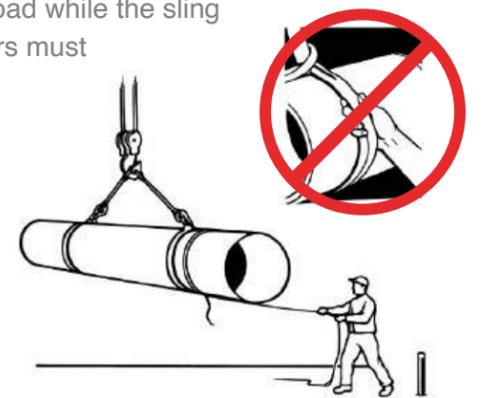
Proper storage and care of slings are essential to extend their service life. Slings must be kept clean and free of dust and dirt. When not in use, they should be stored in an area free from mechanical or environmental hazards such as welding spatter, metal shavings, sources of UV radiation, heat, or exposure to chemicals.



LOAD HANDLING OPERATIONS

Hands or fingers must never be placed between the sling and the load while the sling is being tensioned around the load. Additionally, the following factors must be considered when handling loads:

- Integrity of the attachment points.
- Structural stability of the load.
- Loose components that may fall.
- Overhead electrical lines.
- Establish a safe and clear path for the load to travel, ensuring there are no obstacles that could interfere with its movement.
- Tag lines may be used to control and stabilize the position of the load.



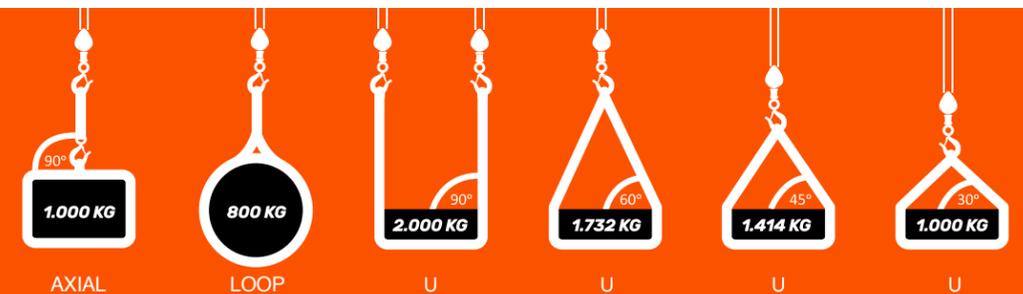
During lifting operations, the load must not be pushed or guided directly by a worker's hands. A tag line must always be used to control the load.

EFFECT OF LIFTING ANGLES

One of the fundamental aspects to consider during a lifting operation is determining the lifting angle. This angle is formed between the sling leg(s) and the load surface, typically measured from the horizontal plane. It directly affects the load capacity of the lifting configuration.

EXAMPLE

IF THE RATED CAPACITY OF THE SLING IS 1.000 KG



DO NOT EXCEED THE RATED CAPACITIES!

ANGLE EFFECT

ANGLE	90°	60°	45°	30°
REDUCTION FACTOR	1,000	0,866	0,707	0,500

- When slings are used at an angle, their capacity is reduced.
- The reduction in capacity always depends on the degree of the sling angle.
- The smaller the angle, the lower the sling capacity.
- Never use slings at angles less than 30° from the horizontal plane of the load.

There are different types of hitch configurations used for lifting a load, depending on its shape, surface type, and the work conditions. The choice also depends on the location of the load's center of gravity. Each configuration offers particular advantages that make it ideal for specific applications.



VERTICAL (STRAIGHT LIFT)

Also known as a vertical hitch or 90° lift. One end of the sling is attached to the crane hook, and the other end to the load.



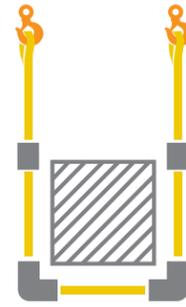
CHOKER HITCH

The sling passes around the load and through one of its eyes. The choker angle may reduce the sling's rated capacity. Always refer to the manufacturer's recommendations.



BRIDLE (LEGS)

Two or more sling legs attached to a single master link.



BASKET

The sling passes under the load, with each eye placed on a separate hook. The basket angle can reduce the sling's rated capacity due to horizontal angles generated during lifting. It may also create additional tension on the sling. Consult your technical advisor if in doubt.

CALCULATION METHODS

When selecting a sling for a specific load, it is essential to consider the lifting angle at which it will be used. For example, a basket hitch or two slings connected to a crane hook may present different lifting angles. The degree of the angle determines the reduction in the sling's load capacity. To verify if a sling will have the required capacity, measure the angle between the sling legs and the horizontal plane of the load, then multiply it by the corresponding factor from the table below.

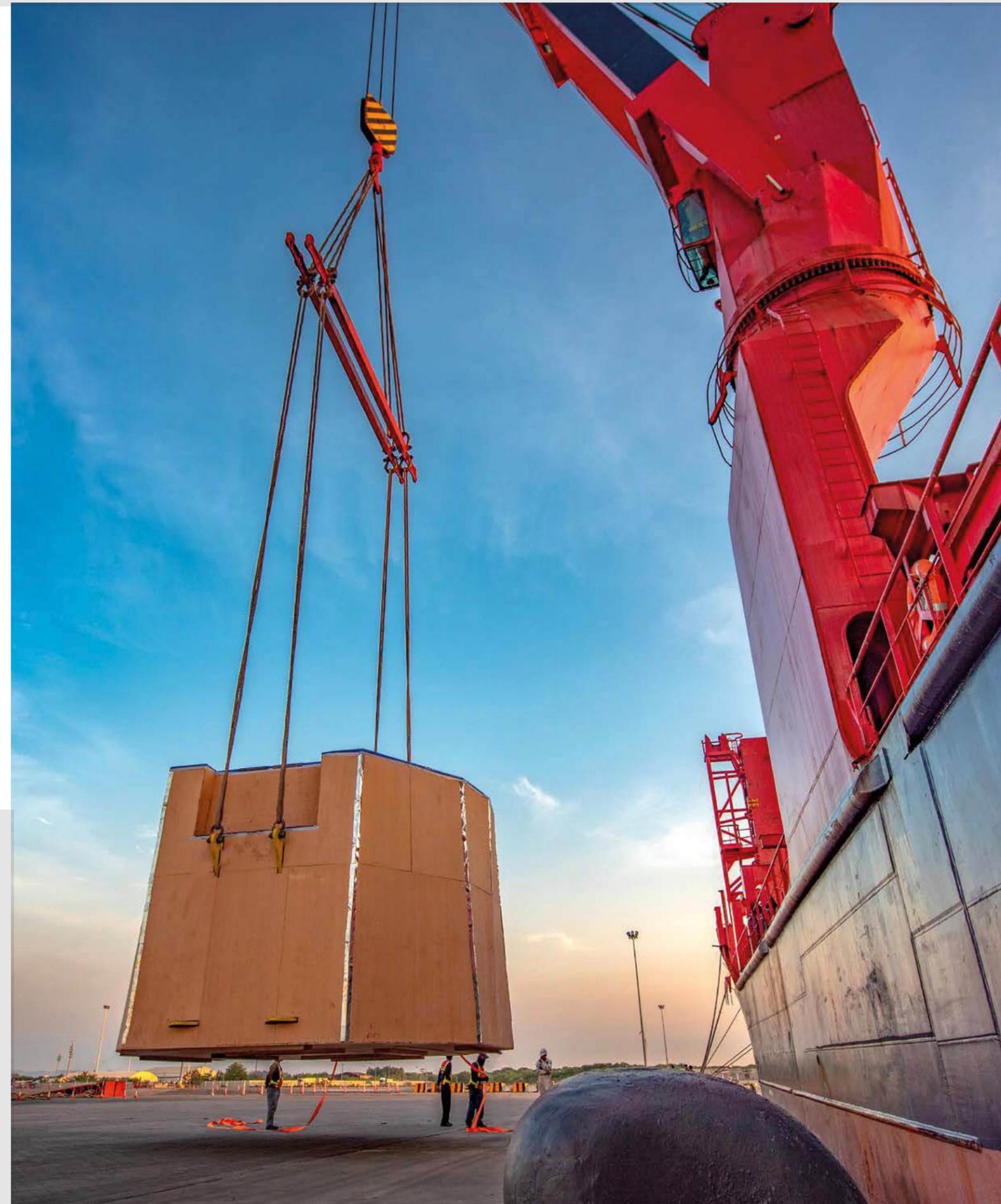
Reduction Factor Method 1	1.000	0.996	0.985	0.965	0.940	0.906	0.866	0.819	0.766	0.707	0.643	0.574	0.500
Lifting Angle (degrees)	90°	85°	80°	75°	70°	65°	60°	55°	50°	45°	40°	35°	30°
Tension Factor Method 2	1.000	1.004	1.015	1.035	1.064	1.104	1.155	1.221	1.303	1.414	1.555	1.742	2.000

METHOD 1

- 1) Calculate the lifting angle.
- 2) Determine the reduction factor.
- 3) Multiply the WLL indicated on the sling tag by this factor.
- 4) The result is the safe working load capacity for that specific lifting configuration.

METHOD 2

- 1) Calculate the lifting angle.
- 2) Determine the tension factor.
- 3) Multiply the load weight by the tension factor.
- 4) The result is the "effective weight" of the load in this configuration. Ensure the sling's rated capacity is adequate for the calculated value.



WEB SLINGS

- EE** One Leg / Eye to Eye
- EE*** One Leg / Eye to Eye with TUFLEX Protection
- EE**** One Leg / Eye to Eye with Polyurethane Protection
- SO** One Leg / Eye / Sling
- SOO** One Leg / Master Link
- SOS** One Leg / Hook with Safety Latch
- DO** One Leg / Sling Eye
- DOO** Two Legs / Master Link
- DOS** Two Legs / Hook with Safety Latch
- TO** Three Legs / Sling Eye
- TOO** Three Legs / Master Link
- TOS** Three Legs / Hook with Safety Latch
- QO** Four Legs / Sling Eye
- QOO** Four Legs / Master Link
- QOS** Four Legs / Hook with Safety Latch

ROUND AND BRAIDED SYNTHETIC SLINGS

- EN** Endless Round
- EE** One Leg / Eye to Eye
- SO** One Leg / Sling Eye
- SOO** One Leg / Master Link
- SOS** One Leg / Hook
- SSS** One Leg / Hook with Safety Latch / Double Safety Hook
- DO** Two Legs / Sling Eye
- DOO** Two Legs / Master Link
- DOS** Two Legs / Hook with Safety Latch / Double Safety Hook
- TO** Three Legs / Sling Eye
- TOO** Three Legs / Master Link
- TOS** Three Legs / Hook with Safety Latch
- QO** Four Legs / Sling Eye
- QOO** Four Legs / Master Link
- QOS** Four Legs / Hook with Safety Latch

GRADE 8 CHAIN SLINGS

- DOP** Two Legs / Plate Hook
- TOP** Legs / Plate Hook
- SG** One Leg / Grab Hook
- SOG** One Leg / Grab Hook / Master Link
- SSS** One Leg / Grab Hook / Master Link
- SOF** One Leg / Foundry Hook
- DOF** Two Legs / Foundry Hook
- TOF** Three Legs / Foundry Hook
- QOF** Four Legs / Foundry Hook
- SOSH** One Leg / Safety Hook
- DOSH** Two Legs / Safety Hook
- TOSH** Three Legs / Safety Hook
- QOSH** Four Legs / Safety Hook
- SOO** One Leg / Master Link
- DOO** Two Legs / Master Link
- QOO** Four Legs / Master Link
- SOS** One Leg / G8 Connector Hook Sling
- DOS** Two Legs / G8 Connector Hook Sling
- TOS** Three Legs / G8 Connector Hook Sling
- QOS** Four Legs / G8 Connector Hook Sling
- CS** Basket Sling
- CSSF** Endless Basket Sling
- CSF** CSF – Endless Chain Basket
- CD** Double Basket

WIRE ROPE SLINGS

- OJ-OJ** One Leg / Eye to Eye
- 2AR-OJ** Two Legs / Master Link / Eye
- 3AR-OJ** Three Legs / Master Link / Eye
- 4AR-OJ** Four Legs / Master Link / Eye
- GU-GU** One Leg / Thimble / Thimble
- 2AR-GU** Two Legs / Master Link / Thimble
- 3AR-GU** Three Legs / Master Link / Thimble
- 4AR-GU** Four Legs / Master Link / Thimble
- OJ-GA** One Leg / Eye / Hook with Safety Latch
- AR-GA** One Leg / Master Link / Hook with Safety Latch
- 2AR-GA** Two Legs / Master Link / Hook with Safety Latch

- CDSF** Double Endless Basket
- SQQ** One Leg / Grab Hook
- DOQ** Two Legs / Grab Hook
- TOQ** Three Legs / Grab Hook
- QOQ** Four Legs / Grab Hook
- SOAG** One Leg / Grab Hook
- DOAG** Two Legs / Grab Hook
- TOAG** Three Legs / Grab Hook
- QOAG** Four Legs / Grab Hook
- SOSL** One Leg / Slim Hook
- DOSL** DOSL – Two Legs / Slim Hook
- TOSL** TOSL – Three Legs / Slim Hook
- QOSL** QOSL – Four Legs / Slim Hook
- SOC** SOC – One Leg / G8 Coupling Connector
- DOC** DOC – Two Legs / G8 Coupling Connector
- TOC** TOC – Three Legs / G8 Coupling Connector
- QOC** QOC – Four Legs / G8 Coupling Connector
- SOMV** SOMV – One Leg / Vertical Clamp
- DOMV** DOMV – Two Legs / Vertical Clamp
- SOMH** SOMH – One Leg / Horizontal Clamp
- DOMH** DOMH – Two Legs / Horizontal Clamp

- 3AR-GA** Three Legs / Master Link / Hook with Safety Latch
- 4AR-GA** Four Legs / Master Link / Hook with Safety Latch
- AR-GG** One Leg / Master Link / Swivel Hook
- 2AR-GG** Two Legs / Master Link / Swivel Hook
- 3AR-GG** Three Legs / Master Link / Swivel Hook
- 4AR-GG** Four Legs / Master Link / Swivel Hook
- AR-GSH** One Leg / Master Link / Safety Swivel Hook
- 2AR-GSH** Two Legs / Master Link / Safety Swivel H
- 3AR-GSH** Three Legs / Master Link / Safety Swivel Hook
- 4AR-GSH** Four Legs / Master Link / Safety Swivel Hook

WIRE ROPES



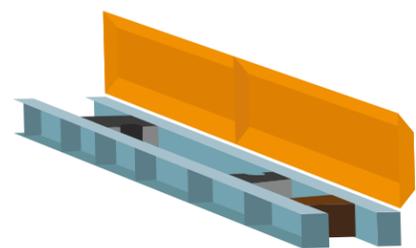
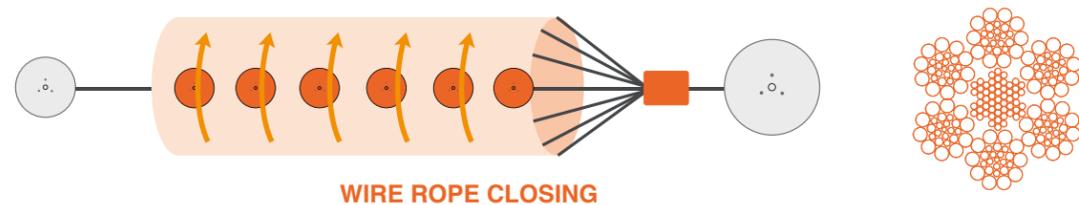
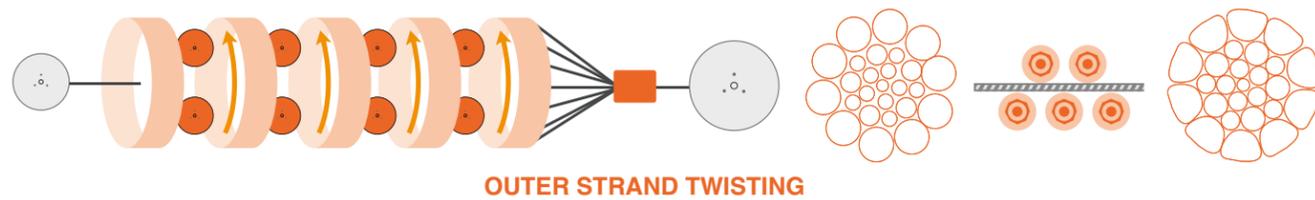
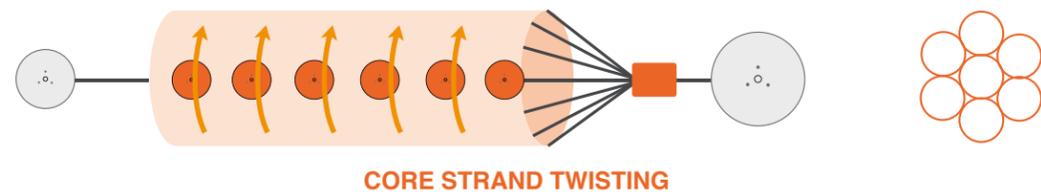
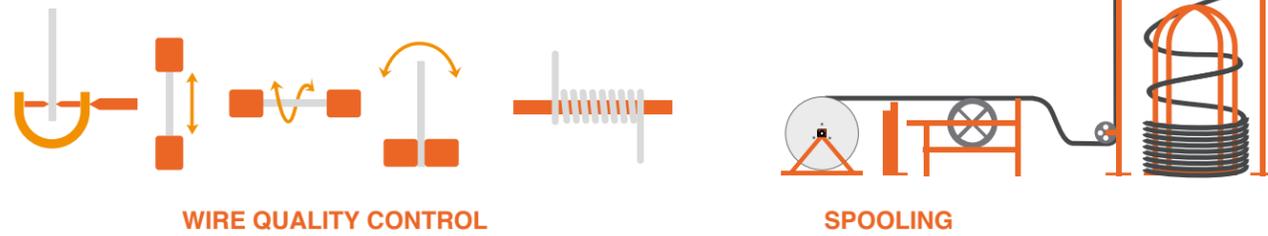
WIRE ROPE

Knowing and handling wire rope requires continuous learning and training. As experts in the field, we are fully aware of the importance of providing information about the standards and procedures that ensure safe and professional work practices.



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WIRE ROPE MANUFACTURING PROCESS



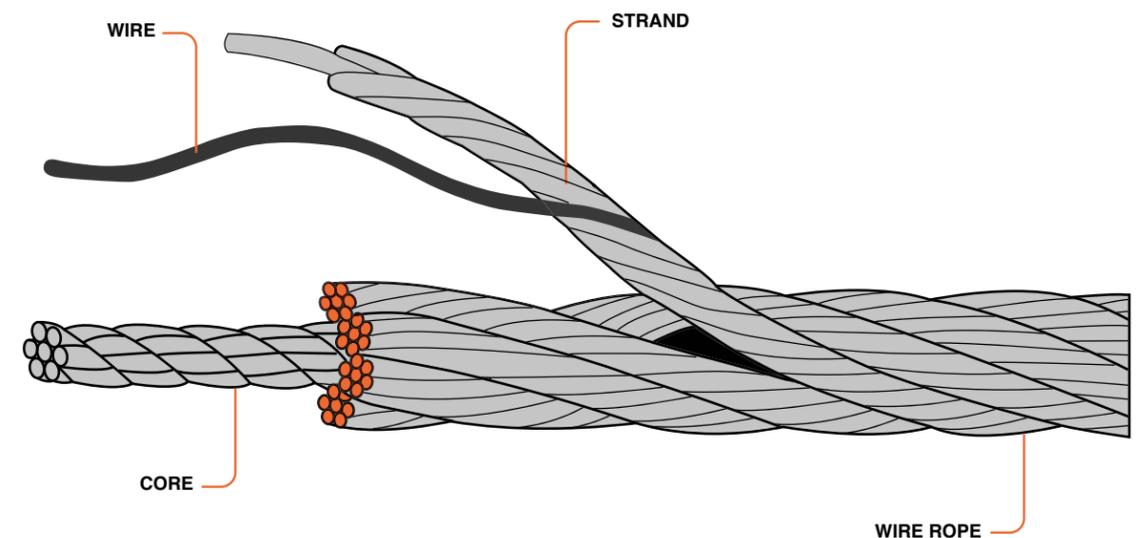
FINAL WIRE ROPE QUALITY CONTROL



SHIPPING AND TRANSPORTATION



PARTS OF A WIRE ROPE



WIRES

STEEL WIRE

Wire ropes are made of carbon steel wires. Their construction, depending on specific requirements, determines differences in quality and grade variation, which directly affect their performance when subjected to bending and torsional stresses.

PARTS OF A WIRE ROPE

STRANDS

Strands are the result of the helical twisting of wires around a central wire, forming layers. This process is known as “construction.”

CORE

The core is the central part of the wire rope, around which several strands are laid. It provides support to the rope, maintaining spacing and stability under load and preventing deformation caused by pressure.

There are two main types of cores:

- Fiber core (natural or synthetic).
- Steel core with different constructions.

TYPES AND CHARACTERISTICS OF WIRE ROPES

- Each wire and strand is spirally wound around the rope to prevent separation. This process is known as preforming.
- Preforming eliminates internal stress in the rope, increasing flexibility and fatigue resistance under bending.
- Ropes with fiber core (FC) provide greater flexibility, while ropes with steel core (IWRC) offer higher rigidity.
- The core of a wire rope ensures proper positioning of the strands around it.
- Different safety factors apply depending on the type of application.



THE WIRE ROPE AND ITS COMPONENTS

A wire rope consists of:

- Diameter.
- Construction (varies according to the number of strands and wires per strand).
- Type of core.

- Wire coating.
- Type of lubrication.
- Lay direction (right regular lay, right lang lay, left lay).
- Optional rope terminations, which may include fused, tapered, plastic-coated, or compacted ends.

WIRE ROPE LAY

There are two types of wire rope lays depending on the direction in which the strands are wound—left lay or right lay.

REGULAR LAY

- Easy to handle.
- Less prone to kinking.
- Greater resistance to crushing.
- Lower tendency to untwist.

LANG LAY

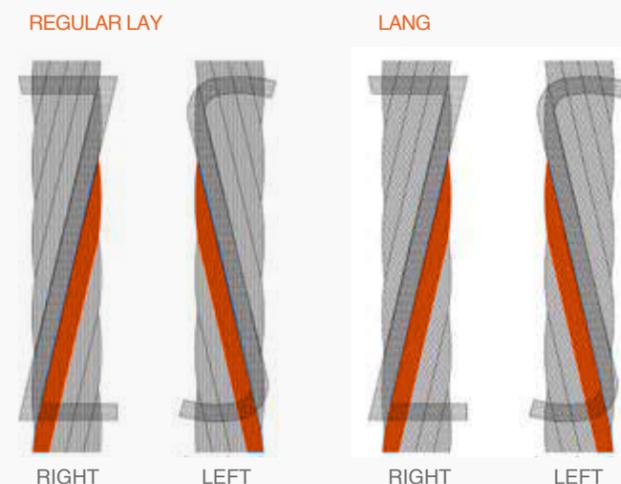
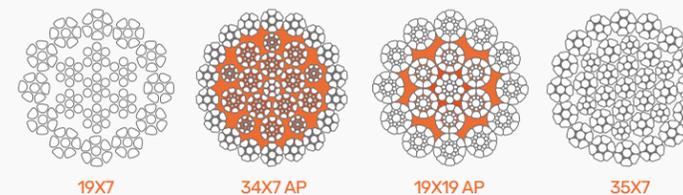
- Slightly more flexible.
- High resistance to fatigue and abrasion.
- Greater tendency to untwist, therefore must always remain properly anchored at the ends.

PREFORMED

Process that consists of shaping the strands helically before closing the rope.

ADVANTAGES:

- Stability.
- Structural integrity.
- Flexibility.
- Easy handling.
- Easy cutting.
- Resistance to kinking.
- Better load distribution among wires, strands, and the core.
- Wires do not protrude like spikes.



PREFORMED WIRE ROPE



NON-PREFORMED WIRE ROPE



COMPONENTS

Wire rope is composed of several elements responsible for transmitting motion, energy, and force between ends.

There is a wide variety of wire rope types that differ according to diameter, lay direction, wire grade, lubrication, and core type—essential factors to consider when selecting the appropriate rope for a specific lifting operation or work environment.

GORILA® designs and manufactures its wire ropes in compliance with international standards.

EN

European Norms

A.P.I. Standard 9A

American Petroleum Institute

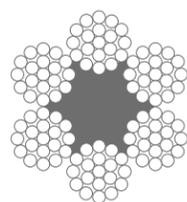
A.S.T.M.

American Society For Testing & Materials

I.S.O.

International Organization for Standardization

WIRE ROPE BREAKING LOAD



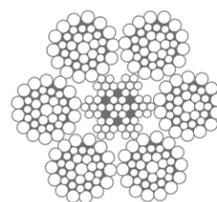
FC

FIBER CORE LUBRICATED

DIAMETER (in)	BREAKING LOAD (t)	BREAKING LOAD (Lbs)
1/4"	2,70	5,950
5/16"	4,15	9,150
3/8"	5,85	12,900
7/16"	7,90	17,420
1/2"	10,40	22,930
9/16"	13,35	29,430
5/8"	16,25	35,830
3/4"	23,35	51,480
7/8"	31,65	69,780
1"	40,85	90,060
1 1/8"	50,00	110,230
1 1/4"	62,50	137,790
1 3/8"	75,00	165,350
1 1/2"	87,50	192,900
1 5/8"	100,00	220,460
1 3/4"	116,65	257,170
2"	154,15	339,840
2 1/8"	166,65	367,400
2 1/4"	183,35	404,220
2 3/8"	204,15	450,070
2 1/2"	225,00	496,040
3"	320,85	707,350

FIBER CORE GALVANIZED

DIAMETER (in)	BREAKING LOAD (t)	BREAKING LOAD (Lbs)
1/4"	2,45	5,400
5/16"	3,75	8,270
3/8"	5,25	11,580
7/16"	7,10	15,650
1/2"	9,35	20,610
9/16"	12,00	26,460
5/8"	14,65	32,290
3/4"	21,00	46,280
7/8"	28,50	62,870
1"	36,75	81,030



SC

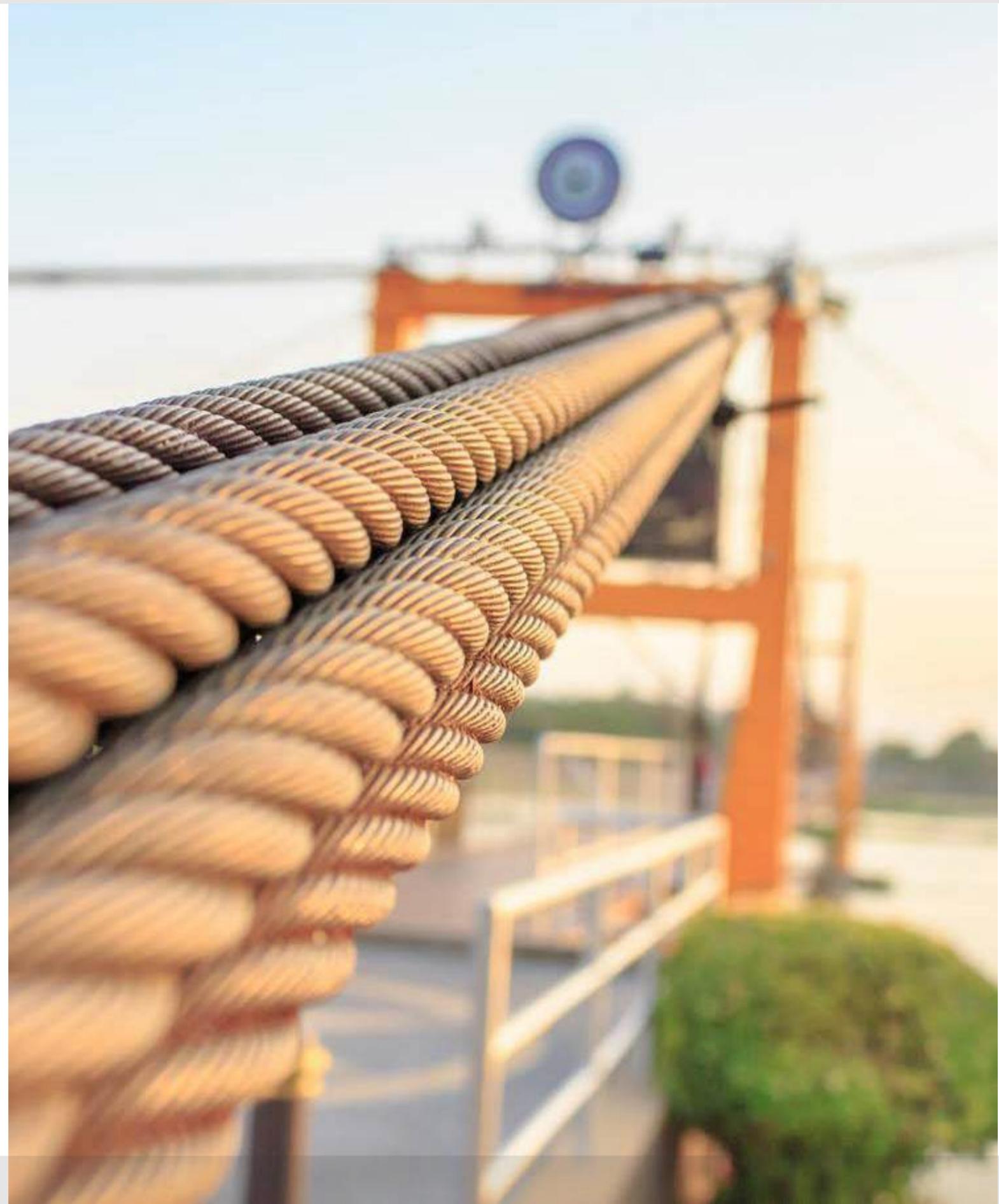
STEEL CORE LUBRICATED

DIAMETER (in)	BREAKING LOAD (t)	BREAKING LOAD (Lbs)
1/4"	3,25	7,170
5/16"	5,00	11,020
3/8"	7,00	15,430
7/16"	9,50	20,940
1/2"	12,50	27,560
9/16"	16,00	35,270
5/8"	19,50	42,990
3/4"	28,00	61,730
7/8"	38,00	83,780
1"	49,00	108,030
1 1/8"	60,00	132,280
1 1/4"	75,00	165,350
1 3/8"	90,00	198,420
1 1/2"	105,00	231,490
1 5/8"	120,00	264,550
1 3/4"	140,00	308,650
2"	185,00	407,850
2 1/8"	200,00	440,920
2 1/4"	220,00	485,020
2 3/8"	245,00	540,130
2 1/2"	270,00	595,250
3"	385,00	848,780

STEEL CORE GALVANIZED

DIAMETER (in)	BREAKING LOAD (t)	BREAKING LOAD (Lbs)
1/4"	2,95	6,500
5/16"	4,50	9,920
3/8"	6,30	13,890
7/16"	8,50	18,740
1/2"	11,20	24,690
9/16"	14,40	31,750
5/8"	17,60	38,780
3/4"	25,20	55,560
7/8"	34,20	75,390
1"	44,10	97,220

*BLL BREAKING LOAD LIMITED





INSTRUCTION GUIDE – SELECTION FACTORS

To choose the appropriate wire rope according to the required application, the following factors must be considered:

- Working Load Limit (WLL).
- Presence of Abrasion or Wear.
- Presence of Crushing.
- Exposure to Oxidation or Corrosion.

1. WORKING LOAD LIMIT (WLL)

The working load is determined as follows:

$$WLL = \frac{\text{Cable Breaking Load X Number of Legs}}{\text{Safety Factor}}$$

Where:

WLL

Working Load Limit.

MINIMUM GUARANTEED BREAKING LOAD

As indicated in the catalog.

NUMBER OF LEGS

Number of wire rope lines supporting the load.

SAFETY FACTOR

According to the nature of the application.

2. PRESENCE OF ABRASION OR WEAR

Each time the wire rope is exposed to rubbing or contact with structures during use, it generates wear on the outer wires, causing abrasion and also reducing the groove width of the sheave.

3. PRESENCE OF CRUSHING

Overloading usually causes wire rope crushing. It can also result from the incorrect use of sheaves that do not provide adequate support for the specific cable type.

To avoid crushing, it is recommended to use steel core wire ropes (SC) instead of fiber core (FC) ropes.

INSTRUCTION GUIDE – SELECTION FACTORS

GROOVES IN DRUMS AND SHEAVES

Wire ropes generally operate in direct contact with the grooves of sheaves or drums.

The groove should always be slightly larger than the wire rope being used; otherwise, the rope will be damaged in the short term and its free movement will be restricted.

ELONGATION OF A STEEL WIRE ROPE

Wire ropes can experience length variations depending on usage factors. Some of these are:

1. STRUCTURAL ELONGATION BY CONSTRUCTION

This elongation occurs due to the settling of the wires within the strands, which also affects the rope core. It depends on the applied load type and the operating frequency. It is estimated at approximately 0.25% of the total rope length.

2. ELASTIC ELONGATION

Elastic elongation follows Hooke's Law, which states that within the elastic limit, deformation is directly proportional to the applied load. This applies to ropes under axial loads, showing a temporary elongation within the elastic range.

Once this limit is exceeded, the rope does not return to its original form or length — in other words, permanent deformation occurs once the load is removed.

3. THERMAL EXPANSION OR CONTRACTION

This elongation is caused by temperature variations. The Linear Expansion Coefficient (α) for a steel wire rope is 12.5×10^{-6} per °C. Therefore, the change in length caused by a temperature change can be expressed as:

$$\text{Length change: } \Delta = \alpha \times l_0 \times \Delta t$$

Where:

α = Linear expansion coefficient

l_0 = Original rope length (mm)

Δt = Temperature increase or decrease (°C)

This means that the rope length will increase with rising temperature and decrease with falling temperature.

OTHER MINOR EFFECTS

4. ELONGATION CAUSED BY THE ROTATION OF A FREE ROPE END

This effect appears when the rope passes through a sheave. The sheave bearing depends on the tension of the rope under load. The rope may elongate slightly when it passes through the groove of the sheave or block, due to the tension and load being applied.

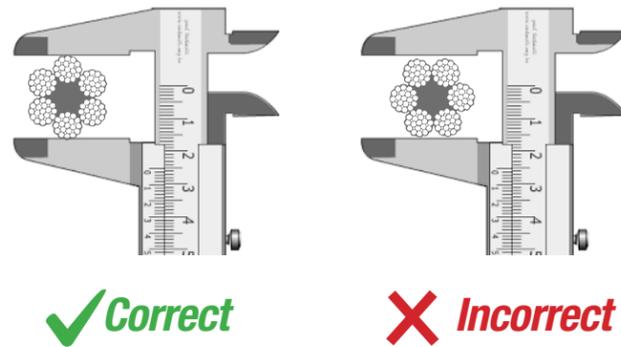
5. INTERNAL WIRE FRICTION WEAR

The rope elongates over time due to wear caused by friction between the wires that compose it. This is a cumulative process that increases gradually during operation.

INSTRUCTION GUIDE – MEASUREMENT AND HANDLING

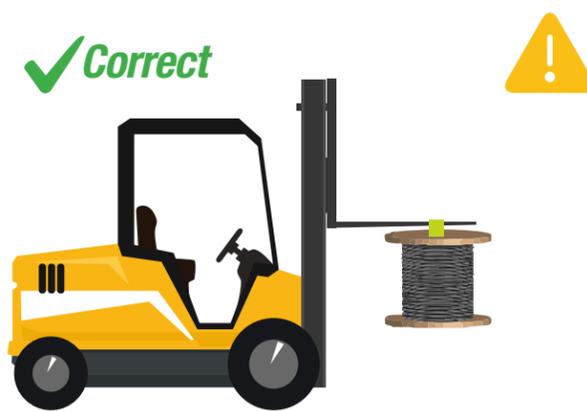
MEASURING THE Ø OF A WIRE ROPE

Strands are the result of the helical twisting of wires around a central wire, forming layers. This process is known as “construction.”



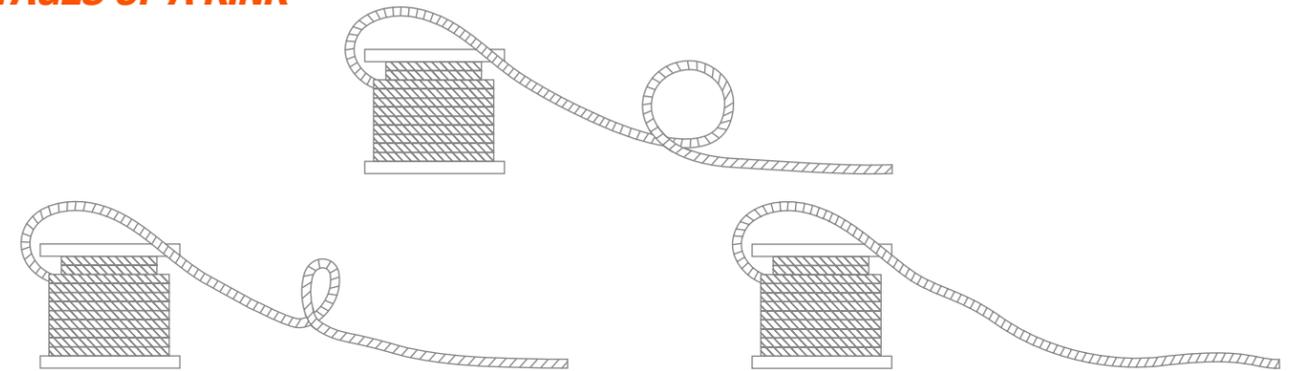
HANDLING OF STEEL WIRE ROPE

Several precautions must be taken when handling steel wire ropes. They are usually wound on wooden reels that are transported by forklifts or other equipment; therefore, the handling method is crucial to avoid risks. When unreeling the wire rope, care must be taken to avoid kinks (deformation of the rope caused by improper unwinding).



INSTRUCTION GUIDE – KINKS IN REELS

STAGES OF A KINK

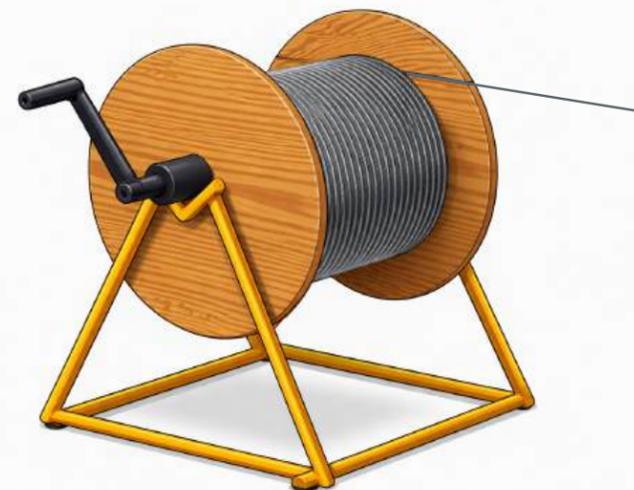


ON REELS

When unwinding a wire rope from a wooden reel, it must be able to rotate freely on its axis using a supporting frame or stand. A brake should be installed on one side of the reel to prevent the formation of kinks.

CORRECT METHOD

Position the reel facing forward and unwind the wire rope slowly from the upper side.



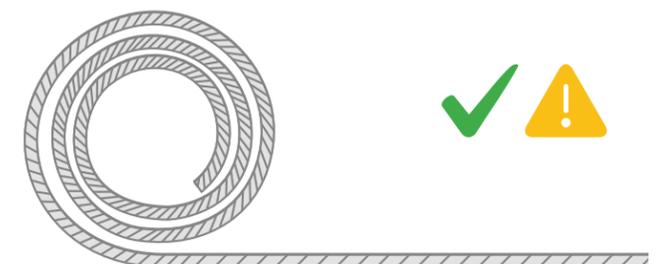
INCORRECT HANDLING OF CABLES ON REELS

It is incorrect to coil the wire rope without an axle, under no tension, or in a disorganized manner. Doing so will render the cable unusable.



IN COILS

If the wire rope is not supplied on a reel, it must be unwound forward by rolling it on the ground so it uncoils smoothly and straight, avoiding kinks or deformation.



INSTRUCTION GUIDE – STORAGE

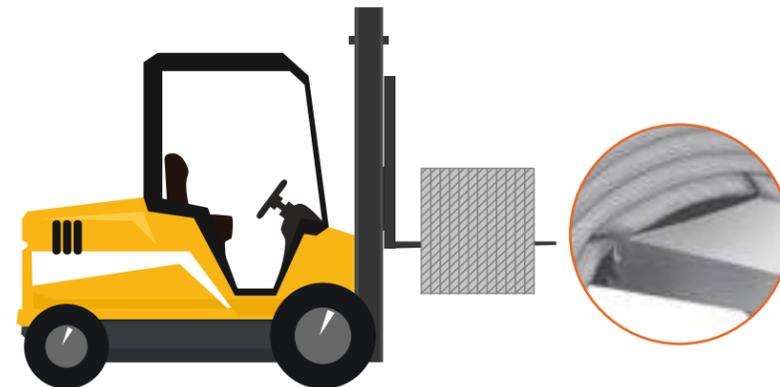
CORRECT METHOD FOR HANDLING CABLE REELS

Never lift the wire rope reel directly with a forklift, as it will suffer irreparable damage. Always lift the reel using a support pallet placed between the forks and the reel.

✓ **Correct**



✗ **Incorrect**

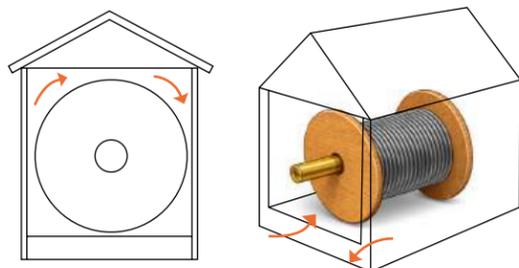


STORAGE

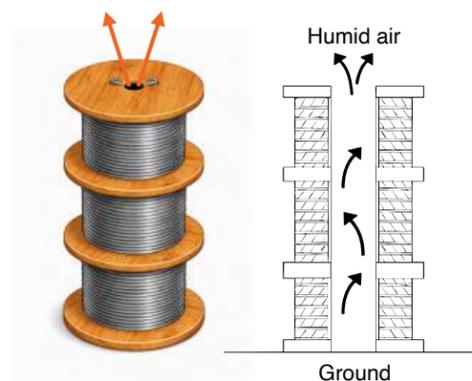
Prevent the wire rope from being exposed to moisture. It must always be stored under cover in a well-ventilated area, avoiding direct contact with the ground. The cable should also not be exposed to saline or acidic environments. If it will not be used for an extended period, it must be wrapped in burlap impregnated with grease or protective oil.

Reels should not be stacked or placed directly on the ground.

✓ **Recommended**



✗ **Not Recommended**



INSTRUCTION GUIDE – ABOUT THE REEL

CALCULATION OF REEL CAPACITY

The formula below is used to calculate the total length of wire rope that can be wound on a reel, assuming that the winding is uniform and even.

Cable length (L) = (A + B) × A × C × K where

L = Cable length (meters)

A = $\frac{(D - B) - d}{2}$ (mm)

B = Core diameter (mm)

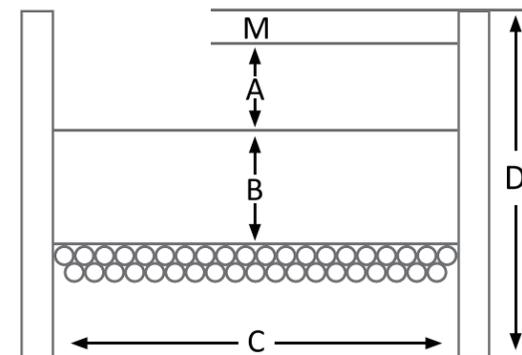
C = Inner width (mm)

M = Clearance between the cable and the reel edge = d (mm)

d = Nominal diameter + %4 (mm) of the cable

K = $\frac{0.003142}{d^2}$

D = Outer diameter (mm)

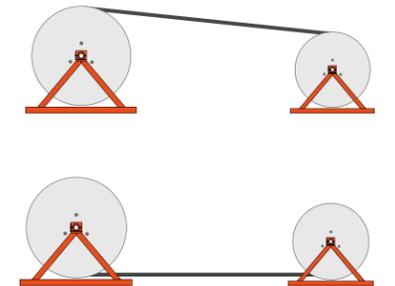


CABLE INSTALLATION

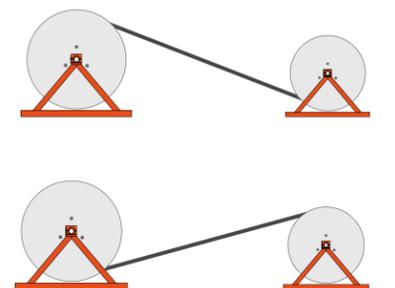
When transferring wire rope from one reel to another, both reels must be properly aligned on their axes.

The cable must remain under tension, and the transfer should be performed from the upper side, as shown in the figure.

✓ **Correct**



✗ **Incorrect**

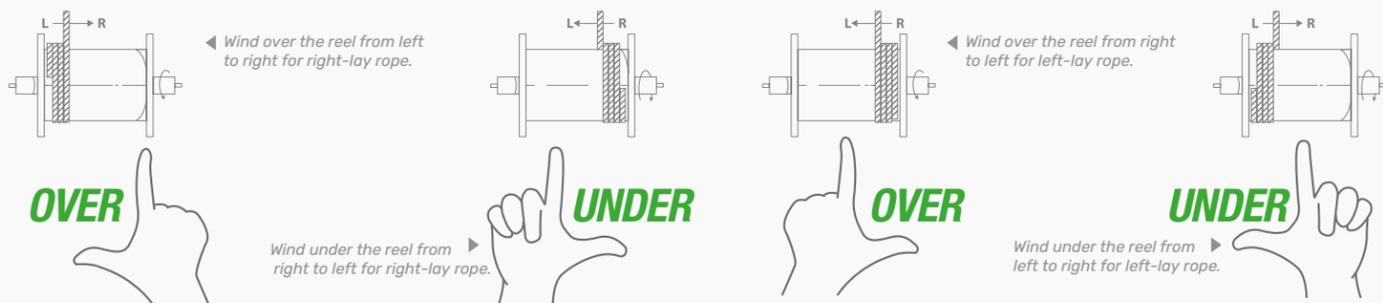


INSTRUCTION GUIDE – ABOUT THE REEL

CABLE WINDING ON REELS AND ANCHORING POSITIONS

Cables have a winding direction that corresponds to the lay direction of the strands. If wound in the opposite direction, the strands will tend to separate and loosen, resulting in uneven winding. This causes the cable to soften, deform, wear, and flatten more easily, reducing its service life.

The figure below shows the correct winding directions according to how the cable is wound onto the reel, considering its initial anchoring point.



WINDING ANGLE OR FLEET ANGLE OF CABLES ON REELS

SMOOTH REELS

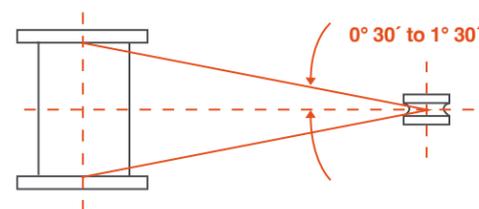
The rotation speed, applied load, and fleet angle are factors that affect how a cable winds on a reel. Proper winding can only be achieved when these are correctly maintained.

The fleet angle is defined as the included angle between two lines: one drawn from the center of the sheave to the center of the reel, perpendicular to its axis, and another drawn from the side of the sheave to the bottom of the groove in the sheave.

The fleet angle should not exceed $0^{\circ}30'$ to $1^{\circ}30'$ for optimal efficiency.

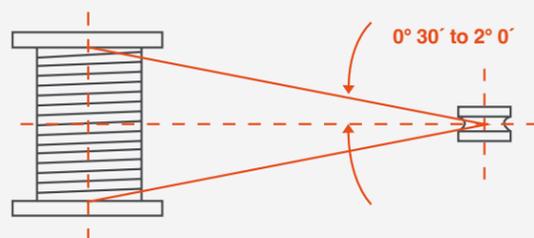
If the angle is greater, uneven winding and friction between the cable and the sheave sides will occur.

If the angle is less than $0^{\circ}30'$, the cable will tend to accumulate on one side of the reel.



GROOVED REELS

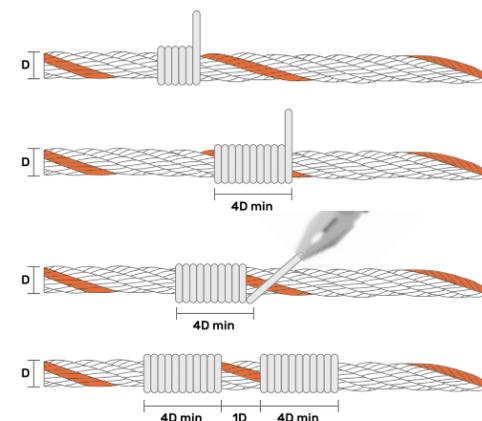
In these cases, it is recommended that the fleet angle should not be greater than $2^{\circ}0'$ nor less than $0^{\circ}30'$.



INSTRUCTION GUIDE – CUTTING AND CLIPS

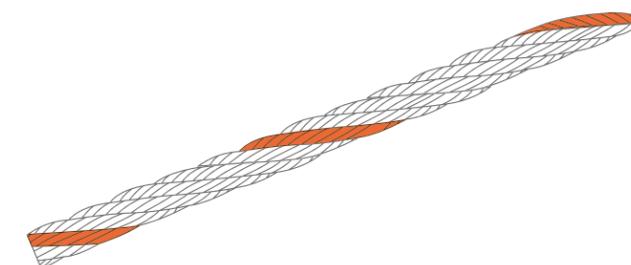
HOW TO CUT A CABLE

CUTTING PREFORMED CABLES



- Bind tightly with annealed wire.
- Bind a length equal to four times the cable diameter (4D).
- Bind another section of 4D, leaving a space of 1D between them.
- Cut using an abrasive wheel.
- Seal the ends with soldering.

ANTI-ROTATION CABLE (Not Recommended to Cut on Site)

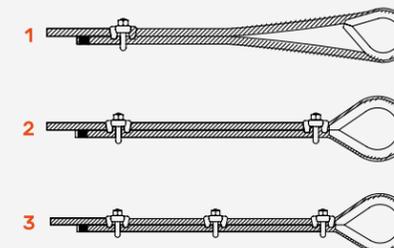
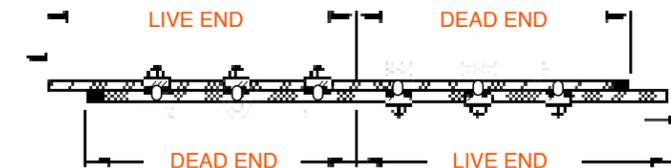


These cables are supplied with welded and tapered ends to the required length, using electrical resistance for maximum efficiency.

ADDING INDUSTRIAL CLIPS

Our clips are designed to maintain a high percentage of the cable's breaking strength, allowing them to be used in the field as tie-downs. We recommend using clips with a forged steel base, not cast.

Once the cable is in use, the nuts must be retightened.



Install the U-bolt on the dead end of the wire rope and the saddle on the live end (the loaded side). The installation is not complete until the nuts are re-tightened after initial load testing.

DO NOT MODIFY THE CLIPS.

INSTRUCTION GUIDE – INSPECTION AND WEAR

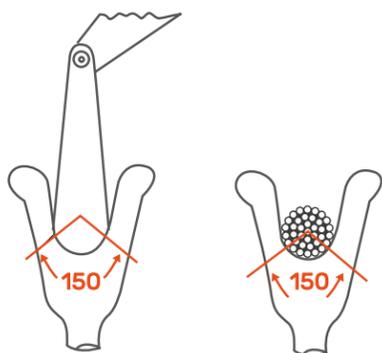
EQUIPMENT INSPECTION

For a longer service life, it is essential to consider the following:

1. Check the anchoring system of the cables, ensuring that the terminals are correctly installed and all safety components function properly.
2. Always verify that all grooves, sheaves, and drum surfaces are free of obstacles and remain smooth.
3. Check the movement of the sheaves and the alignment of their shafts and bearings, ensuring they fulfill their support function.
4. When winding the cable onto the drum, it must be done uniformly to prevent flattening.
5. Ensure that the position of the rope layers and the initial winding are correct to prevent the formation of loops or crossovers between layers.

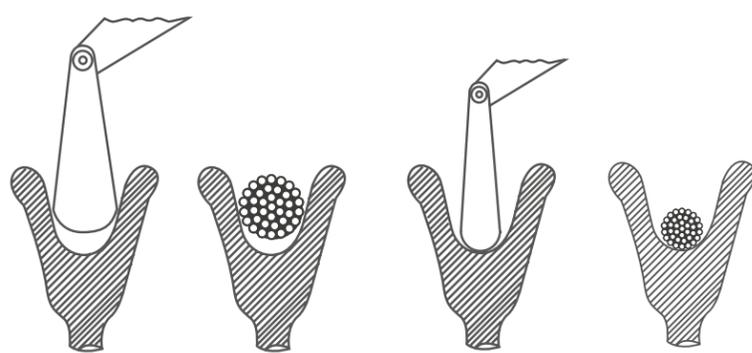
As a recommendation, it is advisable to inspect the cable regularly and identify worn areas to apply protective coverings and reduce abrasive wear.

✓ **Correct**



Proper groove and support.

✗ **Incorrect**



Incorrect groove, excessive pressure, or lack of support.

CRITERIA FOR CABLE REPLACEMENT

INSPECTION FREQUENCY

Inspection must be performed frequently, especially when the cable has been exposed to heavy-duty operations or long-term service. The objective is to monitor the condition of the cable and prevent failure.

- Identify the condition of the cable, replacing it if deterioration is evident.
- Verify if the cable is suitable for the type of use being applied.
- Ensure proper handling and usage to avoid accelerated wear.
- Every inspection should be conducted by a competent person with adequate knowledge, capable of determining whether the cable remains serviceable or should be retired.

INSTRUCTION GUIDE – INSPECTION AND WEAR

CABLE DIAMETER

When the cable diameter visibly decreases compared to its original size, it must be replaced. This is a sign that the core has deteriorated due to overloading.

EXTERNAL WEAR

Abrasive Wear: Occurs when the cable is constantly rubbing against an external object that interferes with its path.

Impact Wear (Peening): Caused by continuous blows against the cable from an external object.

Friction Wear: Produced by the movement of strands and wires rubbing against each other or external surfaces.

CABLE LAY

An increase in the cable lay is an indicator that the core is damaged. As the lay increases without a reduction in diameter, the cable experiences rotation while in use. When this happens, the core may be expelled or the cable may become unbalanced.

FATIGUE DAMAGE

Caused by bending stresses or vibrations. Fatigue damage typically appears at the crests of the strands or at contact points between them.

CORROSION

Lack of lubrication leads to corrosion, affecting the wires and preventing free movement within the cable. This shortens the cable's service life. Corroded cables must be removed from service.

CRITERIA FOR REPLACING A STEEL WIRE ROPE



The replacement of a steel wire rope is determined by the maximum allowable number of broken wires according to safety standards. The table on the right indicates whether the cable can remain in service or should be retired, based on the number of broken wires.

EQUIPMENT	MAXIMUM NUMBER OF BROKEN WIRES ALLOWED	
	IN ONE LAY OF CABLE	IN ONE STRAND
Rotation-Resistant Cables	4	2
Overhead Cranes, Gantry Cranes	6	3
Tower Cranes, Portal Cranes	6	3
Mobile Cranes	6	3
Hoisting or Single-Drum Winches	6	3
Floating Cranes	6	3
Hoists	6	3
Personal Lifting Equipment (1)	6	3
Material Lifting Equipment	6	3

The first column shows the maximum number of broken wires evenly distributed along one lay length, and the second column shows the number of broken wires in a single strand within one lay length.

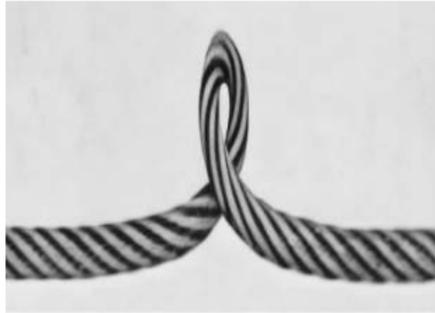
NOTE 1: If there is a section where a broken wire is observed within the valley between strands, the cable should be replaced immediately, as the core may have lost its consistency and is no longer supporting the outer strands. For cables used in lifting applications, if three wires are broken in one lay or two wires are broken in a single strand within one lay, the cable must be replaced.

INSTRUCTION GUIDE – INSPECTION AND WEAR

TYPICAL EXAMPLES OF STEEL WIRE ROPE DETERIORATION



KINK DAMAGE



LOOP DAMAGE



WEAR DAMAGE

CAUSES OF WIRE BREAKAGE

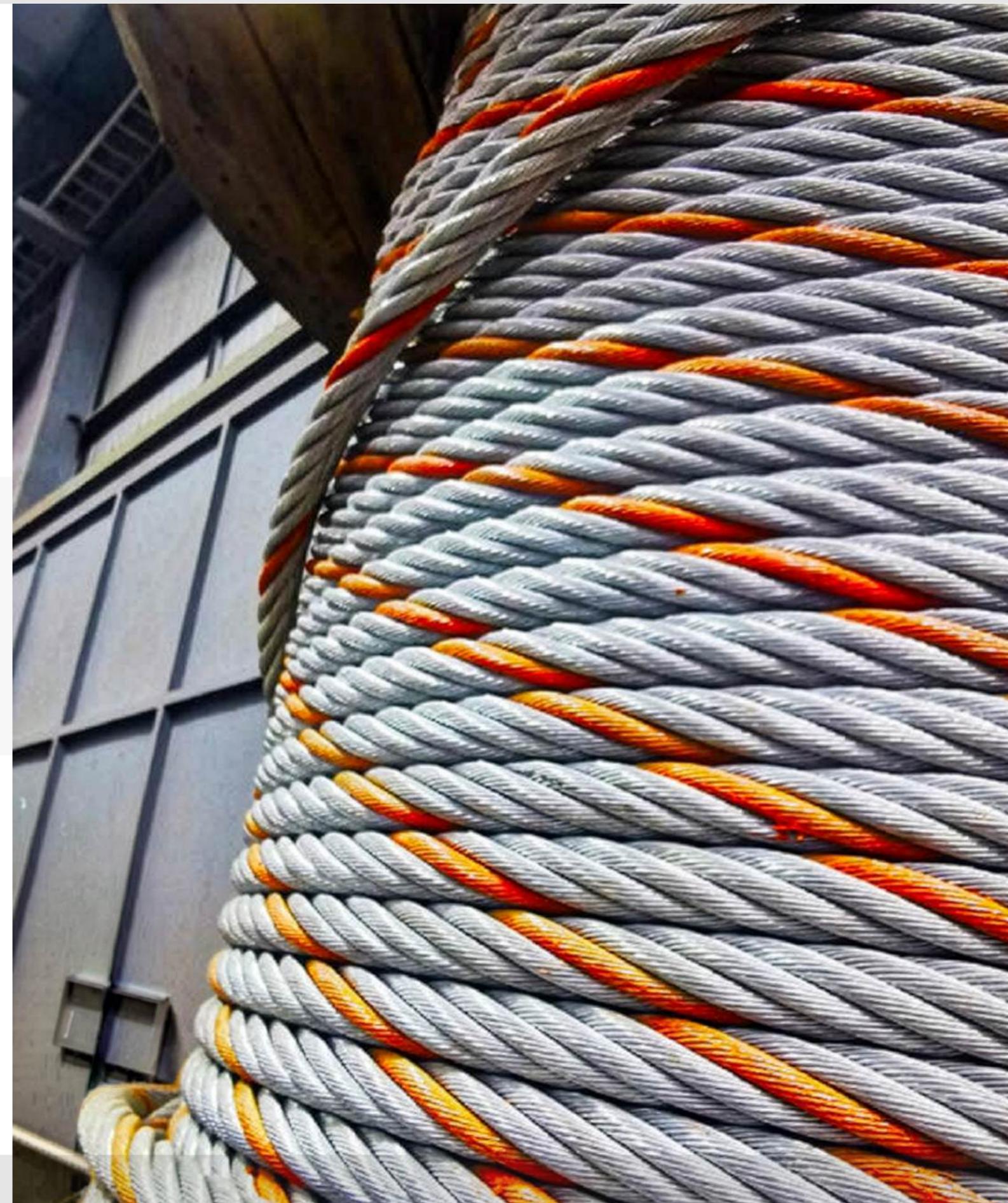
1. Fatigue
2. Axial tension and corrosion
3. Tension
4. Bending
5. Wear
6. Shear from transverse action
7. Fatigue from hardening
8. Plastic deformation due to pressure and abrasion
9. Fatigue from corrosion
10. Fatigue from impacts



HOW TO ORDER A STEEL WIRE ROPE

Characteristics to consider when purchasing a cable from our sales department:

1. Required length
2. Diameter (measured between opposite strands)
3. Number of strands
4. Number of wires per strand
5. Wire configuration
6. Type of core (fiber, synthetic, or steel)
7. Preformed or non-preformed
8. Galvanized or lubricated
9. If twisted, specify left-hand or right-hand lay
10. Cable application and function



ACCESSORIES



SHACKLES

Shackles are the perfect complement for any lifting or rigging operation. There are various models available—some designed for axial load and others for angular load. In both cases, they can feature a screw pin, or a bolt-type pin with nut and pin.



[Back to Index](#)



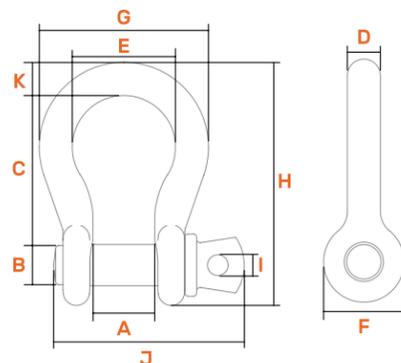


SCREW PIN ANCHOR SHACKLE

CHARACTERISTICS

- Body forged from carbon steel and pin made of alloy steel, both heat-treated.
- Working load limit, size, brand, and traceability markings stamped on each shackle.
- Hot-dip galvanized body.
- Hot-dip galvanized pin, painted in orange color.
- Design factor: 6:1
- Standards: EN 13889, ASME B30.26, and U.S. Federal Specification RR-C-271G, Type IVA, Grade A, Class 2.
- Brand: Gorila®

Ø (in)	WLL		DIMENSIONS (in)											WEIGHT	
	(t)	(lb)	A	B	C	D	E	F	G	H	I	J	K	(kg)	(lb)
1/4	0.50	1,100	0.50	0.31	1.16	0.27	0.78	0.68	1.34	1.89	0.18	1.57	0.24	0.10	0.22
5/16	0.75	1,650	0.51	0.39	1.22	0.33	0.79	0.85	1.48	2.13	0.16	1.77	0.31	0.10	0.22
3/8	1.00	2,200	0.67	0.43	1.46	0.39	1.02	1.00	1.81	2.52	0.25	2.12	0.39	0.15	0.33
7/16	1.50	3,300	0.71	0.51	1.65	0.46	1.12	1.05	2.02	2.87	0.20	2.30	0.47	0.20	0.44
1/2	2.00	4,400	0.79	0.63	1.89	0.53	1.30	1.20	2.30	3.25	0.24	2.70	0.50	0.30	0.66
5/8	3.25	7,150	1.10	0.75	2.32	0.17	1.69	1.61	2.95	4.13	0.31	3.50	0.63	0.65	1.43
3/4	4.75	10,450	1.26	0.87	2.80	0.79	1.97	1.89	3.50	4.96	0.31	4.06	0.75	1.10	2.43
7/8	6.50	14,300	1.46	1.00	2.52	0.90	2.26	2.13	3.98	5.67	0.39	4.62	0.87	1.50	3.31
1	8.50	18,700	1.73	1.14	3.70	1.02	2.64	2.31	4.62	6.46	0.40	5.16	1.00	2.35	5.18
1 1/8	9.50	20,900	1.87	1.26	4.21	1.18	2.87	2.68	5.20	7.20	0.47	5.71	1.18	3.35	7.39
1 1/4	12.00	26,450	2.09	1.38	4.65	1.30	3.27	2.99	5.79	8.27	0.55	6.38	1.26	4.50	9.92
1 1/2	13.50	29,700	2.32	1.50	5.26	1.36	3.62	3.31	6.42	8.66	0.77	8.66	1.38	5.25	11.57
1 3/4	17.00	37,450	2.44	1.65	5.78	1.53	3.82	3.62	6.81	9.65	0.67	7.28	1.50	7.75	17.09
2	25.00	55,100	3.07	1.97	6.93	1.77	5.04	4.05	8.90	11.42	0.67	8.86	1.81	12.25	27.01
2 1/2	35.00	77,150	3.31	2.17	7.87	2.05	5.71	4.65	9.72	13.19	0.75	9.84	2.05	18.50	40.79
3	55.00	121,250	4.25	2.76	10.24	2.56	7.09	5.79	12.20	16.73	0.87	12.60	2.60	36.50	80.47
3 1/2	55.00	121,250	5.12	3.15	12.52	3.11	7.87	6.10	13.78	19.88	1.26	15.75	3.15	60.00	132.28



Dimensions and approximate weights, certified product.

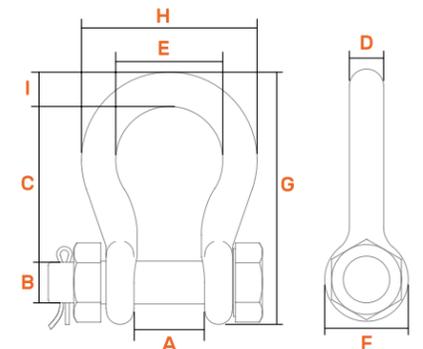


BOLT TYPE ANCHOR SHACKLE

CHARACTERISTICS

- Body forged from carbon steel and pin made of alloy steel, both heat-treated.
- Working load limit, size, brand, and traceability markings stamped on each shackle.
- Hot-dip galvanized body.
- Hot-dip galvanized pin, painted in orange color.
- Design factor: 6:1
- Standards: EN 13889, ASME B30.26, and U.S. Federal Specification RR-C-271G, Type IVA, Grade A, Class 2.
- Brand: Gorila®

Ø (in)	WLL		DIMENSIONS (in)											WEIGHT	
	(t)	(lb)	A	B	C	D	E	F	G	H	I	(kg)	(lb)		
1/4	0.5	1,100	0.47	0.30	1.15	0.25	0.76	0.60	1.86	1.27	0.25	0.10	0.22		
3/8	1	2,200	0.68	0.43	1.43	0.40	1.02	1.00	2.50	1.81	0.33	0.20	0.44		
1/2	2	4,400	0.82	0.61	1.87	0.51	1.28	1.19	3.28	2.20	0.51	0.35	0.77		
5/8	3.25	7,150	1.14	0.74	2.32	0.65	1.69	1.57	4.09	2.99	0.65	0.70	1.54		
3/4	4.75	10,450	1.24	0.86	2.83	0.81	1.97	1.87	4.07	3.48	0.76	1.15	2.54		
7/8	6.5	14,300	1.38	0.98	3.30	0.89	2.24	2.09	5.60	3.96	0.87	1.65	3.64		
1	8.5	18,700	1.77	1.12	3.66	1.02	2.66	2.32	6.30	4.65	0.98	2.45	5.40		
1 1/8	9.5	20,900	1.80	1.24	4.23	1.14	2.89	2.71	7.50	5.16	1.14	3.80	8.38		
1 1/4	12	26,450	2.15	1.40	4.35	1.30	3.27	3.00	7.68	5.81	1.16	4.90	10.80		
1 3/8	13.5	29,700	2.25	1.53	5.25	1.42	3.63	3.31	9.16	6.38	1.50	7.20	15.87		
1 1/2	17	37,450	2.38	1.66	5.75	1.53	3.88	3.63	10.00	6.88	1.62	8.64	19.05		
1 3/4	25	55,100	2.88	2.04	7.00	1.84	5.00	4.19	12.34	8.80	2.25	15.41	33.98		
2	35	77,150	3.25	2.30	7.75	2.08	5.75	4.81	13.68	10.15	2.40	23.75	52.36		
2 1/2	55	121,250	4.13	2.80	10.50	2.71	7.25	5.69	17.90	12.75	3.13	44.66	98.44		
3	85	187,000	5.00	3.30	13.00	3.12	7.88	6.50	21.50	14.62	3.62	70.00	154.32		
3 1/2	120	264,500	5.25	3.76	14.63	3.62	9.00	8.00	24.88	17.02	4.38	120.45	265.61		
4	150	330,700	5.50	4.26	14.50	4.00	10.00	9.00	25.68	18.00	4.56	153.64	338.78		



Dimensions and approximate weights, certified product.



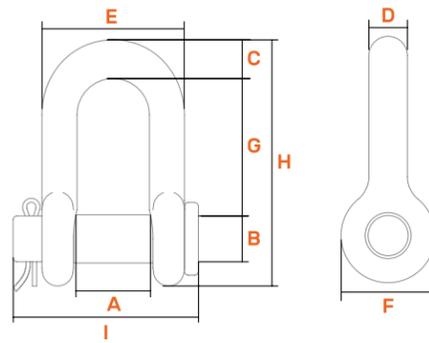
SCREW PIN CHAIN SHACKLE

CHARACTERISTICS

- Body forged from carbon steel and pin made of alloy steel, both heat-treated.
- Working load limit, size, brand, and traceability markings stamped on each shackle.
- Hot-dip galvanized body.
- Hot-dip galvanized pin, painted in orange color.

- Design factor: 6:1
- Standards: EN 13889, ASME B30.26, and U.S. Federal Specification RR-C-271G, Type IVA, Grade A, Class 2.
- Brand: Gorila®

Ø (in)	WLL		DIMENSIONS (in)										WEIGHT	
	(t)	(lb)	A	B	C	D	E	F	G	H	I	J	(kg)	(lb)
1/4	0.5	1,100	0.51	0.31	0.26	0.26	1.02	0.70	0.79	1.61	0.14	1.50	0.05	0.11
5/16	0.75	1,650	0.54	0.38	0.31	0.35	1.16	0.85	1.00	1.91	0.18	1.61	0.05	0.11
3/8	1	2,200	0.67	0.43	0.39	0.43	1.46	1.00	1.22	2.24	0.21	2.09	0.15	0.33
7/16	1.5	3,300	0.79	0.50	0.44	0.43	1.60	1.03	1.45	2.63	0.24	2.72	0.15	0.33
1/2	2	4,400	0.79	0.63	0.50	0.52	1.79	1.20	1.57	2.99	0.23	2.67	0.30	0.66
5/8	3.25	7,150	1.14	0.75	0.63	0.63	2.36	1.59	1.99	3.74	0.32	3.48	0.55	1.21
3/4	4.75	10,450	1.22	0.87	0.79	0.79	2.76	1.85	2.43	4.57	0.35	3.96	0.90	1.98
7/8	6.5	14,300	1.50	1.00	0.89	0.89	3.20	2.09	2.82	5.18	0.41	4.09	1.40	3.09
1	8.5	18,700	1.72	1.13	1.00	1.10	3.66	2.33	3.16	5.91	0.43	5.16	2.05	4.52
1 1/8	9.5	20,900	1.91	1.28	1.30	1.14	4.15	2.64	3.62	6.73	0.43	5.82	3.05	6.72
1 1/4	12	26,450	2.09	1.38	1.26	1.27	4.55	2.95	3.94	7.36	0.47	6.38	4.00	8.82
1 3/8	13.5	29,700	2.44	1.50	1.39	1.39	5.04	3.23	4.49	8.03	0.55	6.85	5.20	11.46
1 1/2	17	37,450	2.40	1.70	1.10	1.60	5.40	3.60	4.80	8.90	0.60	7.60	7.25	15.98
1 3/4	25	55,100	3.09	2.00	1.77	1.77	6.46	4.13	5.73	10.40	0.79	8.80	11.10	24.47
2	35	77,150	3.30	2.10	2.00	2.00	7.20	4.70	10.10	12.00	0.80	10.00	16.00	35.27
2 1/2	55	121,250	3.98	2.70	2.58	2.58	11.70	5.81	14.60	14.60	1.02	12.30	31.50	69.45



Dimensions and approximate weights, certified product.



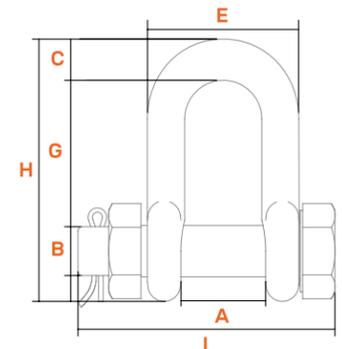
BOLT TYPE CHAIN SHACKLE

CHARACTERISTICS

- Body forged from carbon steel and pin made of alloy steel, both heat-treated.
- Working load limit, size, brand, and traceability markings stamped on each shackle.
- Hot-dip galvanized body.
- Hot-dip galvanized pin, painted in orange color.

- Design factor: 6:1
- Standards: EN 13889, ASME B30.26, and U.S. Federal Specification RR-C-271G, Type IVA, Grade A, Class 2.
- Brand: Gorila®

Ø (in)	WLL		DIMENSIONS (in)										WEIGHT	
	(t)	(lb)	A	B	C	D	E	F	G	H	I	(kg)	(lb)	
1/4	0.5	1,100	0.47	0.31	0.25	0.25	0.97	0.62	0.91	1.59	1.56	0.06	0.13	
3/8	1	2,200	0.66	0.44	0.38	0.38	1.42	0.92	1.28	2.31	2.17	0.15	0.33	
1/2	2	4,400	0.81	0.64	0.50	0.50	1.81	1.18	1.66	3.03	2.80	0.34	0.75	
5/8	3.25	7,150	1.06	0.77	0.63	0.63	2.32	1.50	2.04	3.76	3.76	0.67	1.48	
3/4	4.75	10,450	1.25	0.89	0.81	0.75	2.75	1.81	2.40	4.53	4.15	1.14	2.51	
7/8	6.5	14,300	1.44	1.02	0.97	0.88	3.20	2.10	2.86	5.33	4.82	1.75	3.86	
1	8.5	18,700	1.69	1.15	1.00	1.00	3.69	2.38	3.24	5.94	5.39	2.52	5.56	
1 1/8	9.5	20,900	1.81	1.25	1.25	1.13	4.07	2.68	3.61	6.78	5.90	3.45	7.61	
1 1/4	12	26,450	2.03	1.40	1.38	1.25	4.53	3.00	3.97	7.50	6.69	4.91	10.83	
1 3/8	13.5	29,700	2.25	1.53	1.50	1.38	5.01	3.31	4.43	8.28	7.21	6.25	13.78	
1 1/2	17	37,450	2.38	1.66	1.62	1.50	5.38	3.62	4.87	9.05	7.73	8.40	18.52	
1 3/4	25	55,100	2.88	2.04	2.12	1.75	6.38	4.19	5.82	10.97	9.33	14.27	31.46	
2	35	77,150	3.25	2.30	2.36	2.10	7.25	5.00	6.82	12.74	10.41	21.25	46.85	
2 1/2	55	121,250	4.13	2.80	2.63	2.63	9.38	5.68	8.07	14.85	13.58	38.63	85.19	
3 1/2	85	187,000	5.00	3.25	3.50	3.00	11.00	6.50	8.56	16.87	15.13	56.47	124.51	



Dimensions and approximate weights, certified product.

SHACKLES

Before using the product, carefully read the instructions to become familiar with its technical characteristics and the risks associated with improper handling or misuse.

The product must be used correctly, safely, and for its intended purpose. Improper handling or abuse may cause deformation of some parts, rupture, and/or a sudden fall of the load, resulting in serious personal injury and property damage.

Personnel involved in lifting operations must remain clear of the line of force of the load when it is suspended. All lifting operations must be conducted in such a way that, in the event of equipment failure, no one is injured. From a safety standpoint, this is an essential factor.

STRENGTH

It is important to understand the abbreviations and terms associated with the load capacity of each product. This allows users to respect the design conditions for safe operation. The most common terms to identify capacity are as follows:

- **SWL – Safe Working Load**
- **WLL – Working Load Limit**
- **BLL – Breaking Load Limit**

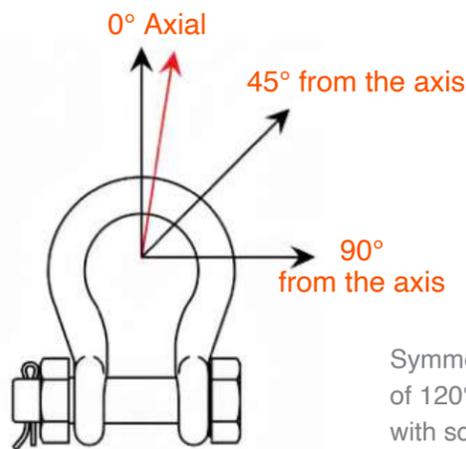
Never use the **Breaking Load Limit (BLL)** for work. This value serves only as a laboratory reference for safety factors.

The **Breaking Load Limit (BLL)** is determined by laboratory testing using a tensile testing machine. The measurement is obtained by pulling the product in a straight line until failure, under controlled temperature and speed.

A reduction in strength must be considered when the product is subjected to extreme temperature conditions. Only in such cases is it necessary to reduce the working load depending on the exposure time and temperature. If the product is continuously exposed to steam, salt water, acids, caustic vapors, or similar aggressive environments, its service life and strength will be affected over time.

The design strength is not applicable when the product has been modified in any way.

LOAD REDUCTION FOR BOW SHACKLES OR STRAIGHT SHACKLES



LOAD ANGLE RELATIVE TO SHACKLE'S AXIAL LINE	WORKING LOAD LIMIT (WLL)
Load applied from 0° to 5° off-axis (axial)	100% of axial WLL
Load applied from 6° to 45° off-axis	75% of axial WLL
Load applied from 46° to 90° off-axis	50% of axial WLL

Symmetrically loaded shackles using two slings or strops, with a maximum included angle of 120°, may be used at full working load. *For this type of application, only bow shackles with screw pin, or bolt-type shackles with nut and cotter pin, are permitted.

SHACKLES

GORILA® shackles are subjected to rigorous quality controls to guarantee products that meet the highest standards. All products are supplied with a load and quality certificate for each production batch, in compliance with International Standards.

High-precision testing is carried out in our in-house laboratory using a 200-ton hydraulic test bench, electronically controlled by computer, calibrated by SGS under ISO/IEC 17025 standards, and certified by Bureau Veritas under NR320 DCN RO1E.

Upon request, you may order individual full-load certification, which carries an additional cost.

THE PRODUCT MUST BE INSPECTED BEFORE EACH USE

Inspect the products periodically to check for visible damage such as cracks, wear, deformation, sharp edges, corrosion, etc. Regular inspections help determine whether a product needs to be replaced, reducing risks. Remember that the loss of the original design shape causes stress concentration and, therefore, a reduction in product capacity.

Due to the diversity of applications, inspection procedures and frequency may vary. The best results are achieved when qualified personnel base their decisions on manuals and practical field experience. Keep inspection records to accurately identify problems and maintain regular inspection intervals. Destroy any article found defective, as it could be reused by someone unaware of its condition. It is difficult to list in this catalog all possible types of damage or misuse. Below are some useful recommendations for safe use:

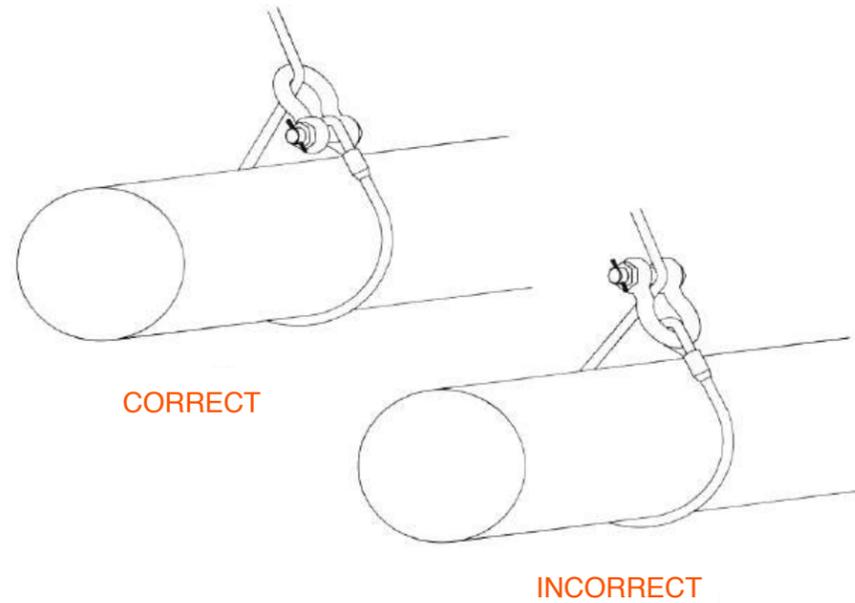
- If using a screw pin shackle, check that the pin is fully threaded and tightened.
- For bolt-type shackles with nut and cotter pin, ensure the nut is fully engaged, and the cotter pin is correctly installed.
- Avoid using shackles with twisted or bent bodies, or where the ends are spread apart or misaligned.
- Always install components properly.
- Never handle loads above people.
- The force must always be applied to the pin and the upper part of the shackle body. Never apply load from the sides.
- Avoid impacts, jerks, or swinging, as these may exceed the working load limit (WLL). A shock load can greatly increase static stress.
- All accessories used with the product—such as hooks, turnbuckles, links, eyebolts, cables, and ropes—must have equal or greater strength.



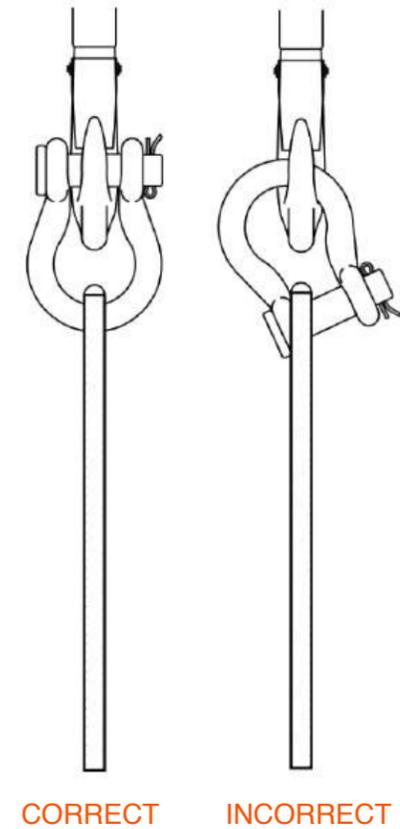
IMPORTANT



- When using wire slings, it is recommended to use an eye with a thimble to protect the eye from wear.
- Never place the wire sling eye on accessories with a diameter or width smaller than that of the wire sling.
- Never load the wire sling or webbing sling on a hook or accessory with a diameter or width greater than 50% of the eye length.



- Use separate washers on both sides of the shackle pin to prevent the shackle from becoming off-centered.



- When performing a basket hitch, the shackle pin must be installed through the sling or eye.

LIFTING POINTS

Lifting points are elements designed for lifting loads that have a threaded connection, such as generators, motors, transport bases, and others.

Among the threaded models, there are eyebolts and eye nuts for axial lifting operations and others that allow pivoting and swivel 360° rotation.

There are also weldable lifting points, which can be used for welding onto a structure.



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EYE NUT

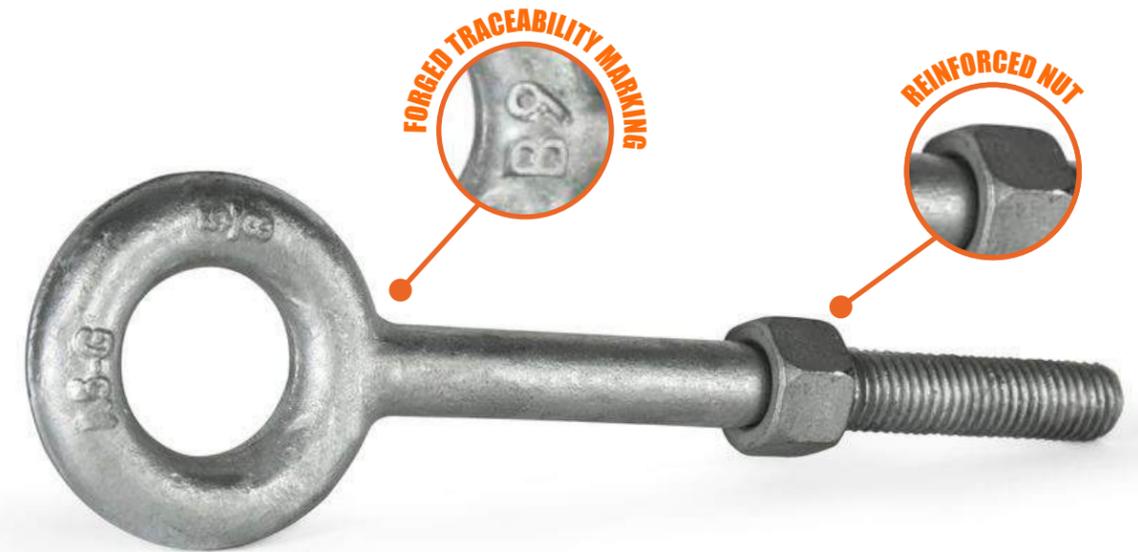
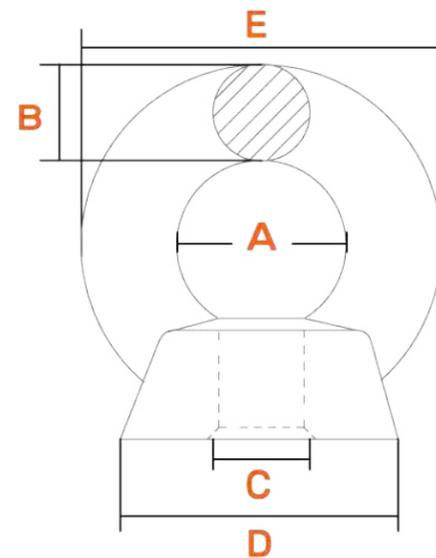
CHARACTERISTICS

- Hot-forged carbon steel body.
- Hot-dip galvanized finish.
- Recommended for axial lifting applications.
- For proper use, the external thread must be fully engaged into the tapped hole.
- Lift the load smoothly and avoid jerks, as these may cause overload.
- Design factor: 4:1
- Standards: ASME B30.26 and DIN 582
- Brand: Gorila®

INTERNAL DIAMETER (in)	WLL		DIMENSIONS (in)					WEIGHT	
	(t)	(lb)	A	B	C	D	E	(kg)	(lb)
3/8	0.23	500	25	10	8	26	46	0.10	0.22
1/2	0.34	750	31	11	11	30	54	0.15	0.33
5/8	0.70	1,550	35	15	14	36	63	0.25	0.55

INTERNAL DIAMETER (mm)	WLL		DIMENSIONS (in)					WEIGHT	
	(t)	(lb)	A	B	C	D	E	(kg)	(lb)
M6	0.09	200	20	8	5	20	36	0.05	0.11
M8	0.14	300	20	8	7	20	36	0.05	0.11
M10	0.23	500	25	10	9	25	45	0.10	0.22
M12	0.34	750	29	12	11	31	54	0.15	0.33
M16	0.70	1,550	35	14	14	35	63	0.25	0.55
M20	1.20	2,650	40	16	18	40	71	0.35	0.77
M24	1.80	4,000	48	20	21	51	90	0.75	1.65
M30	3.60	7,950	59	23	27	65	107	1.30	2.87
M48	8.60	18,950	90	40	50	100	166	5.02	11.07

Dimensions and approximate weights, certified product.

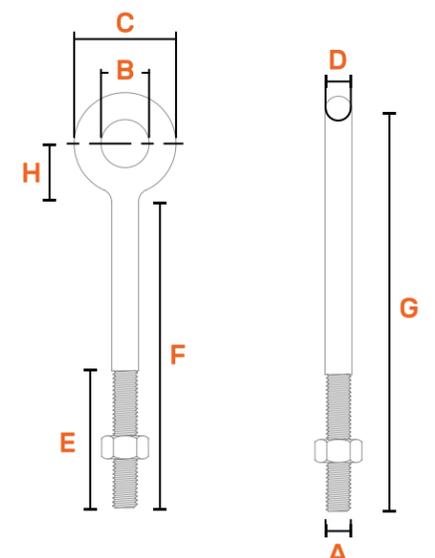


FORGED NUT EYE BOLT

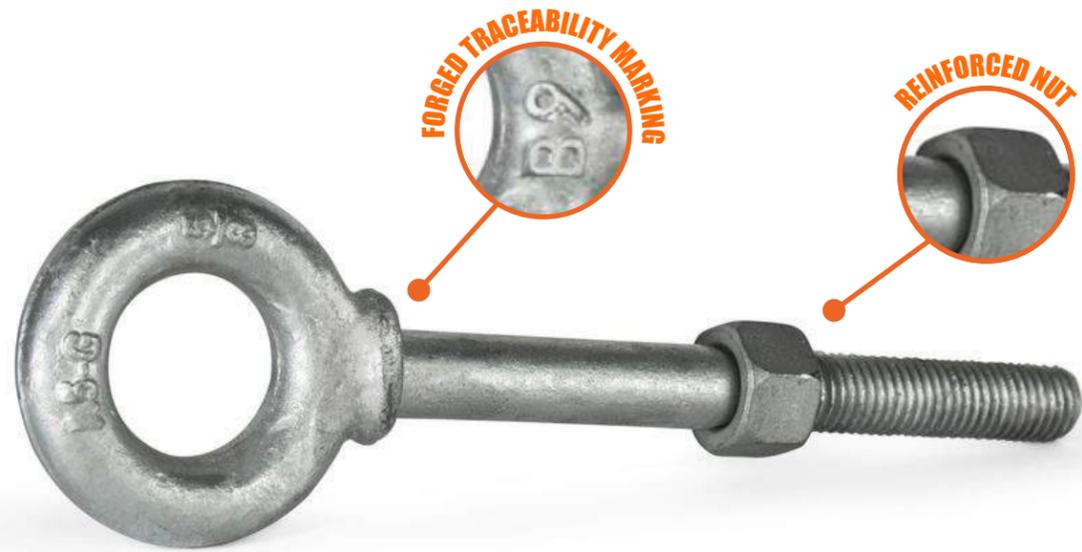
CHARACTERISTICS

- Alloy steel body.
- Reinforced alloy steel nut, heat-treated.
- Recommended for use with purely axial loads.
- Design factor: 4:1
- Standards: ASME B30.26
- Brand: Gorila®

DIAMETER X LENGTH (in)	WLL (t)	WLL (lb)	THREAD (UNC)	DIMENSIONS (in)								WEIGHT	
				A	B	C	D	E	F	G	H	(kg)	(lb)
1/4 x 2	0.29	650	20	0.25	0.50	1.00	0.25	1.50	2.00	3.06	0.56	0.04	0.09
1/4 x 4	0.29	650	20	0.25	1.50	1.00	0.25	2.50	4.00	5.00	0.56	0.05	0.11
5/16 x 2 1/4	0.54	1,200	18	0.31	0.62	1.25	0.31	1.50	2.25	3.56	0.69	0.06	0.13
5/16 x 4 1/4	0.54	1,200	18	0.31	0.62	1.25	0.31	2.50	4.25	5.56	0.69	0.11	0.24
3/8 x 2 1/2	0.70	1,550	16	0.38	0.75	1.50	0.38	1.50	2.50	4.12	0.88	0.11	0.24
3/8 x 4 1/2	0.70	1,550	16	0.38	0.75	1.50	0.38	2.50	4.50	6.12	0.88	0.13	0.29
3/8 x 6	0.70	1,550	16	0.38	0.75	1.50	0.38	3.00	6.00	7.62	0.88	0.16	0.35
1/2 x 2	1.18	2,600	13	0.50	1.00	2.00	0.50	1.50	2.00	5.38	1.12	0.19	0.42
1/2 x 3 1/4	1.18	2,600	13	0.50	1.00	2.00	0.50	1.50	3.25	5.38	1.12	0.23	0.51
1/2 x 6	1.18	2,600	13	0.50	1.00	2.00	0.50	3.00	6.00	8.00	1.12	0.30	0.66
1/2 x 8	1.18	2,600	13	0.50	1.00	2.00	0.50	3.00	8.00	10.00	1.12	0.37	0.82
1/2 x 10	1.18	2,600	13	0.50	1.00	2.00	0.50	3.00	10.00	12.12	1.12	0.40	0.88
5/8 x 4	2.36	5,200	11	0.62	1.25	2.50	0.62	3.00	4.00	6.69	1.44	0.47	1.04
5/8 x 6	2.36	5,200	11	0.62	1.25	2.50	0.62	3.00	6.00	8.69	1.44	0.54	1.19
5/8 x 8	2.36	5,200	11	0.62	1.25	2.50	0.62	3.00	8.00	10.69	1.44	0.61	1.34
5/8 x 10	2.36	5,200	11	0.62	1.25	2.50	0.62	3.00	10.00	12.69	1.44	0.70	1.54
3/4 x 3	3.27	7,200	10	0.75	1.50	3.00	0.75	2.00	3.00	7.69	1.69	0.73	1.61
3/4 x 4 1/2	3.27	7,200	10	0.75	1.50	3.00	0.75	2.00	4.50	7.69	1.69	0.76	1.67
3/4 x 6	3.27	7,200	10	0.75	1.50	3.00	0.75	3.00	6.00	9.19	1.69	0.84	1.85
3/4 x 8	3.27	7,200	10	0.75	1.50	3.00	0.75	3.00	8.00	11.19	1.69	0.94	2.07
3/4 x 10	3.27	7,200	10	0.75	1.50	3.00	0.75	3.00	10.00	13.19	1.69	1.07	2.36
3/4 x 12	3.27	7,200	10	0.75	1.50	3.00	0.75	4.00	12.00	15.19	1.69	1.17	2.58
3/4 x 15	3.27	7,200	10	0.75	1.50	3.00	0.75	5.00	15.00	18.19	1.69	1.35	2.98
7/8 x 5	4.81	10,600	9	0.88	1.75	3.50	0.88	2.50	5.00	8.75	2.00	1.22	2.69
7/8 x 8	4.81	10,600	9	0.88	1.75	3.50	0.88	4.00	8.00	11.75	2.00	1.40	3.09
7/8 x 12	4.81	10,600	9	0.88	1.75	3.50	0.88	4.00	12.00	15.75	2.00	1.81	4.00
1 x 6	6.03	13,300	8	1.00	2.00	4.00	1.00	3.00	6.00	10.31	2.31	1.91	4.21
1 x 9	6.03	13,300	8	1.00	2.00	4.00	1.00	4.00	9.00	13.31	2.31	2.13	4.70
1 x 12	6.03	13,300	8	1.00	2.00	4.00	1.00	4.00	12.00	16.31	2.31	2.45	5.40
1 x 18	6.03	13,300	8	1.00	2.00	4.00	1.00	7.00	18.00	22.31	2.31	2.95	6.50
1 1/4 x 8	9.53	21,000	7	1.25	2.50	5.00	1.25	4.00	8.00	13.38	2.88	3.40	7.50
1 1/4 x 12	9.53	21,000	7	1.25	2.50	5.00	1.25	4.00	12.00	17.38	2.88	4.08	9.00



Dimensions and approximate weights, certified product.



FORGED SHOULDER NUT EYE BOLT

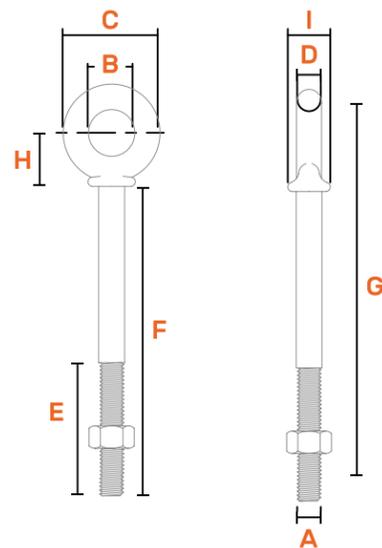
CHARACTERISTICS

- Hot-forged and heat-treated carbon steel.
- Hot-dip galvanized after threading.
- For proper use, the smooth portion of the shank must remain inside the hole.
- Lift the load smoothly and avoid jerks, as these may cause overload.

- Design factor: 4:1
- Standards: ASME B30.26
- Brand: Gorila®

DIAMETER X LENGTH (in)	WLL		THREAD (UNC)	DIMENSIONS (in)									WEIGHT	
	(t)	(lb)		A	B	C	D	E	F	G	H	I	(kg)	(lb)
1/4 x 2	0.29	650	20	0.25	0.50	0.88	0.19	1.50	2.00	2.94	0.50	0.47	0.03	0.07
1/4 x 4	0.29	650	20	0.25	0.50	0.88	0.19	2.50	4.00	4.94	0.50	0.47	0.04	0.09
5/16 x 2 1/4	0.54	1,200	18	0.31	0.62	1.12	0.25	1.50	2.25	3.50	0.69	0.56	0.06	0.13
5/16 x 4 1/4	0.54	1,200	18	0.31	0.62	1.12	0.25	2.50	4.25	5.50	0.69	0.56	0.09	0.20
3/8 x 2 1/2	0.70	1,550	16	0.38	0.75	1.38	0.31	1.50	2.50	3.97	0.78	0.66	0.10	0.22
3/8 x 4 1/2	0.70	1,550	16	0.38	0.75	1.38	0.31	2.50	4.50	5.97	0.78	0.66	0.11	0.24
1/2 x 3 1/4	1.18	2,600	13	0.50	1.00	1.75	0.38	1.50	3.25	5.12	1.00	0.91	0.19	0.42
1/2 x 6	1.18	2,600	13	0.50	1.00	1.75	0.38	3.00	6.00	7.88	1.00	0.91	0.26	0.57
5/8 x 4	2.36	5,200	11	0.62	1.25	2.25	0.50	2.00	4.00	6.44	1.31	1.12	0.31	0.68
5/8 x 6	2.36	5,200	11	0.62	1.25	2.25	0.50	3.00	6.00	8.44	1.31	1.12	0.47	1.04
3/4 x 4 1/2	3.27	7,200	10	0.75	1.50	2.75	0.62	2.00	4.50	7.44	1.56	1.38	0.66	1.46
3/4 x 6	3.27	7,200	10	0.75	1.50	2.75	0.62	3.00	6.00	8.94	1.56	1.38	0.76	1.68
1 x 9	6.05	13,300	8	1.00	2.00	3.75	0.88	4.00	9.00	12.97	2.09	1.81	1.92	4.23
1 1/4 x 12	9.55	21,050	7	1.25	2.50	4.50	1.00	4.00	12.00	16.72	2.47	2.28	3.61	7.96
1 1/2 x 15	10.90	24,000	6	1.50	3.00	5.50	1.25	6.00	15.00	20.75	3.00	2.75	6.47	14.26

Dimensions and approximate weights, certified product.



FORGED SHOULDER TYPE MACHINERY EYE BOLT

CHARACTERISTICS

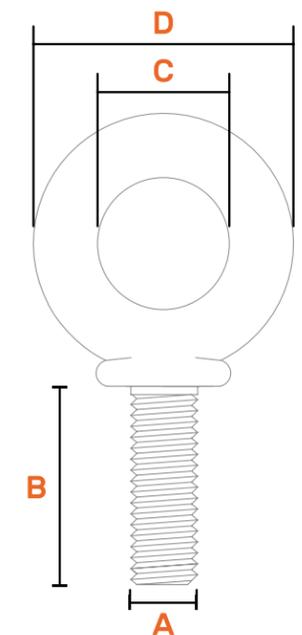
- Hot-forged and heat-treated carbon steel.
- UNC and metric thread.
- Must be screwed in until the shoulder is fully seated against the surface.

- Design factor: 4:1
- Standards: ASME B30.26
- Brand: Gorila®

DIAMETER X LENGTH (in)	WLL		THREAD (UNC)	DIMENSIONS (in)				WEIGHT	
	(t)	(lb)		A	B	C	D	(kg)	(lb)
1/4 x 1	0.23	507	20	1/4	1	3/4	1 3/16	0.03	0.07
5/16 x 1 1/8	0.41	904	18	5/16	1 1/8	7/8	1 7/16	0.05	0.11
3/8 x 1 1/4	0.59	1,301	16	3/8	1 1/4	1	1 21/32	0.08	0.18
1/2 x 1 1/2	1.09	2,402	13	1/2	1 1/2	1 3/16	2 1/16	0.16	0.35
5/8 x 1 3/4	1.82	4,012	11	5/8	1 3/4	1 3/8	2 1/2	0.32	0.71
3/4 x 2	2.27	5,005	10	3/4	2	1 1/2	2 13/16	0.50	1.10
7/8 x 2 1/4	3.18	7,006	9	7/8	2 1/4	1 11/16	3 1/4	0.77	1.70
1 x 2 1/2	4.09	9,017	8	1	2 1/2	1 11/16	3 9/16	1.07	2.36
1 1/8 x 2 3/4	5.45	12,013	7	1 1/8	2 3/4	2	4	1.55	3.42
1 1/4 x 3	6.82	15,034	7	1 1/4	3	2 3/16	4 7/16	2.12	4.67
1 1/2 x 3 1/2	9.55	21,055	6	1 1/2	3 1/2	2 1/2	5 3/16	3.52	7.76
2 x 4	17.27	38,068	4 1/2	2	4	3 1/4	6 7/8	7.59	16.74
2 1/2 x 5	25.45	56,110	4	2 1/2	5	4	8 9/16	13.54	29.85

DIAMETER X LENGTH (in)	WLL		THREAD (mm)	DIMENSIONS (in)				WEIGHT	
	(t)	(lb)		A	B	C	D	(kg)	(lb)
M6	0.21	463	1.00	6.00	25.40	19.00	30.00	0.03	0.07
M8	0.50	1,102	1.25	8.00	31.70	25.00	43.00	0.08	0.18
M10	0.74	1,631	1.50	10.00	35.00	27.00	46.00	0.11	0.24
M12	1.03	2,271	1.75	12.00	38.00	30.00	54.00	0.16	0.35
M14	1.60	3,527	2.00	14.00	41.10	33.00	58.00	0.22	0.49
M16	1.60	3,527	2.00	16.00	44.50	35.00	63.00	0.31	0.68
M18	2.14	4,717	2.50	18.00	51.00	38.00	71.50	0.50	1.10
M20	2.86	6,308	2.50	20.00	57.00	41.00	81.00	0.68	1.50
M24	3.85	8,488	3.00	24.00	63.50	46.00	90.40	1.07	2.36
M27	5.20	11,464	3.00	27.00	70.00	51.00	103.00	1.55	3.42
M30	6.40	14,110	3.50	30.00	76.00	55.00	112.70	2.12	4.67
M36	8.97	19,779	4.00	36.00	89.00	63.00	131.80	3.52	7.76
M42	11.96	26,367	4.50	42.00	95.00	73.00	152.40	5.03	11.09
M48	16.40	36,156	5.00	48.00	101.60	82.00	174.60	7.21	15.90
M52	17.30	38,140	5.00	52.00	101.60	82.00	174.60	7.57	16.69
M64	24.51	54,040	6.00	64.00	127.00	102.00	217.50	13.52	29.80

Dimensions and approximate weights, certified product.





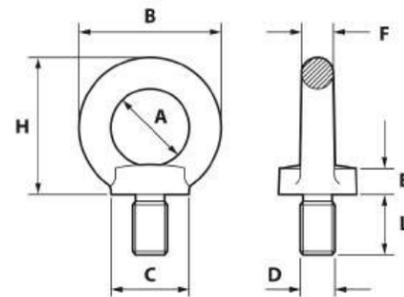
LIFTING EYE BOLT DIN 580

CHARACTERISTICS

- Hot-forged and heat-treated carbon steel.
- Hot-dip galvanized after threading.
- For proper use, the smooth part of the shank must remain inside the hole.
- Lift the load smoothly and avoid jerks, as they generate overload.

- Design factor: 6:1
- Standards: DIN 580
- Brand: Gorila®

DIAMETER X LENGTH (in)	WLL		WLL 45°		DIMENSIONS (in)								WEIGHT	
	(t)	(lb)	(t)	(lb)	A	B	C	E	F	G	H	L	(kg)	(lb)
M6	0.09	198	0.06	132	20	36	20	6	8	10	36	13	0.06	0.13
M8	0.14	309	0.10	220	20	36	20	6	8	10	36	13	0.06	0.13
M10	0.23	507	0.17	375	25	45	25	8	10	12	45	17	0.11	0.24
M12	0.34	749	0.24	529	30	54	30	8	12	14	53	20.5	0.18	0.40
M14	0.50	1,102	0.35	772	30	54	30	10	12	14	53	20.5	0.19	0.42
M16	0.70	1,543	0.50	1102	35	63	35	12	14	16	62	27	0.28	0.62
M18	0.93	2,048	0.65	1433	35	63	35	12	14	16	62	27	0.33	0.73
M20	1.20	2,646	0.86	1896	40	72	40	14	16	19	71	30	0.45	0.99
M22	1.40	3,086	0.99	2182	40	82	40	14	16	19	71	30	0.48	1.06
M24	1.80	3,968	1.29	2848	50	90	50	18	20	24	90	36	1.85	4.08
M27	2.50	5,512	1.80	3968	54	98	62	20	22	26	99	46	1.25	2.76
M30	3.20	7,055	2.30	5071	60	108	65	22	24	28	109	45	1.61	3.55
M36	4.60	10,142	3.30	7260	70	126	75	26	28	32	128	54	2.58	5.69
M42	6.30	13,830	4.50	9921	80	144	85	30	32	38	147	63	4.02	8.86
M48	8.60	18,957	6.10	13451	90	166	100	35	38	46	168	68	6.19	13.64
M56	11.50	25,353	8.20	18078	100	184	110	38	42	50	187	78	8.79	19.38
M64	16.00	35,274	11.00	24251	110	206	120	42	48	58	208	90	12.56	27.68
M72	20.00	44,092	14.00	30864	140	260	150	50	60	72	260	100	23.30	51.37
M80	28.00	61,730	20.00	44092	160	296	170	55	68	80	298	112	34.00	74.96



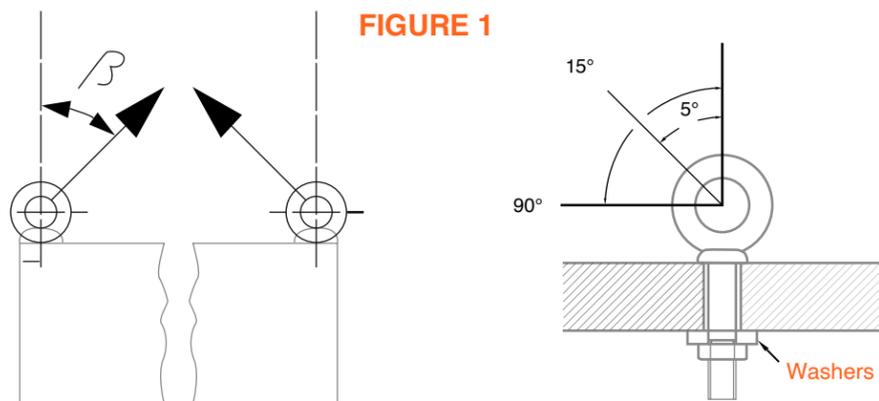
Dimensions and approximate weights, certified product.



IMPORTANT

It is essential that you read and understand the instructions and procedures before performing a lifting operation. If the wrong product is selected or improperly rigged, the load may fall. If the load falls, it can cause serious injuries, including death, and property damage.

- Do not exceed the rated load capacity: each eye bolt has a maximum rated load capacity. Exceeding this limit may cause catastrophic and potentially dangerous failures.
- Do not use a damaged eye bolt: if it shows signs of wear, deformation, cracks, corrosion, or damage to the thread, do not use it.
- Always inspect the eye bolt before each use.
- Do not modify, cut, weld, or grind the eye bolts or their threads.
- Remember that the lifting angle always reduces the rated load capacity.
- Never apply a side load without accounting for the load capacity reduction.



Ángle	WLL (%)
0° - 15°	100%
16° - 45°	73%
45° - 90°	50%

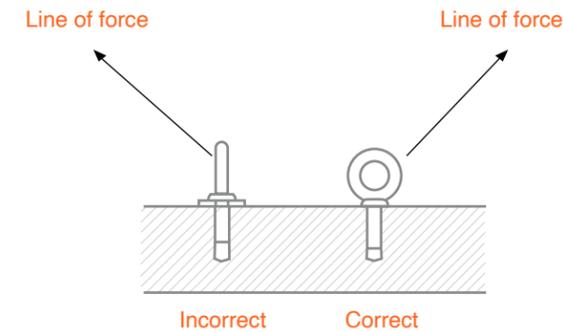
- For female eye bolts, the length of the bolt must be such that the thread of the eye bolt is fully engaged, and the bolt must be made of material of adequate strength for the load.
- In shoulder-type mechanical and regular eye bolts, the flat face of the shoulder must be fully seated on the contact surface.

WARNING

Do not use eye bolts for applications for which they were not designed. Eye bolts are intended to lift loads safely in a straight line, not for dragging or lateral pulling.

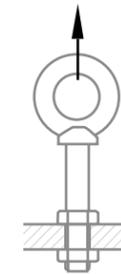
- For loads involving angles, the line of force must always be applied in the same plane as the eye of the bolt.

FIGURE 2



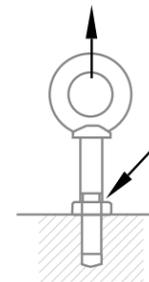
- Regular eye bolts can only be used for vertical loads. Do not apply angular loads.
- Shoulder-type eye bolts with nut may only be used for angular loads if the flat face is completely seated on the contact surface.
- If the thread length exceeds the thickness of the surface, use two nuts to ensure the eye bolt is properly secured.

FIGURE 3



- If the hole is tapped, the thread engagement depth must be at least 2.5 times the eye bolt diameter and never less than 2. To secure the eye bolt, use a nut as a locknut.

FIGURE 4





WELD-ON PIVOT LINK

CHARACTERISTICS

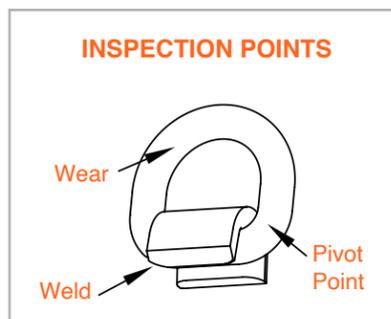
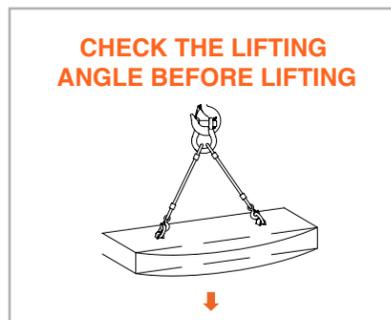
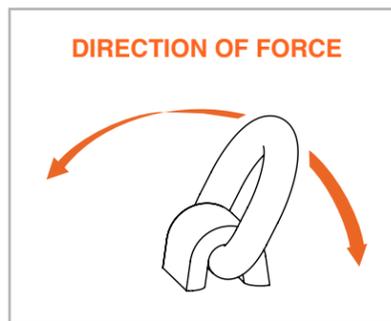
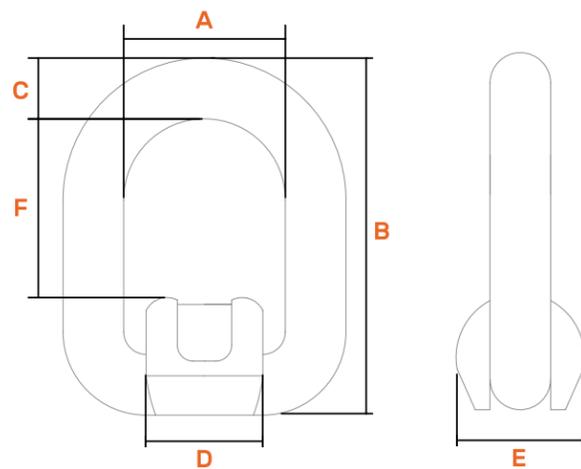
- Hot-forged and heat-treated steel ring.
- Hot-forged and normalized alloy steel base.
- Welding must be performed by a qualified welder, and it must be verified that the eye bolt ring pivots freely through 180°.

- Design factor: 4:1
- Standards: ASME B30.26
- Brand: Gorila®

WLL (t)	BLL (t)	DIMENSIONS (mm)						WEIGHT (kg)
		A	B	C	D	E	F	
1,12	4,48	41	78	13	37	39	35	0,40
3,15	12,80	46	94	17	43	43	41	0,70
5,3	21,20	55	118	22	50	60	54	1,46
8	32,00	67	140	27	66	69	61	2,40
15	60,00	97	183	35	88	88	83	5,70

WLL (lb)	BLL (lb)	DIMENSIONS (in)						WEIGHT (lb)
		A	B	C	D	E	F	
2,470	9,880	1.61	3.07	0.51	1.46	1.54	1.38	0.88
6,940	28,220	1.81	3.70	0.67	1.69	1.69	1.61	1.54
11,680	46,740	2.17	4.65	0.87	1.97	2.36	2.13	3.22
17,640	70,550	2.64	5.51	1.06	2.60	2.72	2.40	5.29
33,070	132,280	3.82	7.20	1.38	3.46	3.46	3.27	12.57

Dimensions and approximate weights, certified product.



The Weld-on pivot link is designed to be installed only on steel surfaces. The surface supporting the eye must have the proper thickness and strength to withstand the applied load.

- Regularly inspect the lifting eye and the weld base. Do not use if cracks, dents, deformation, or corrosion are present.
- The load must always be applied in the pivoting direction.
- The load may fall if the lifting eye is not properly welded. If the load falls, it can cause serious injury or death, and property damage. Never exceed the working load limit.
- Welding must be performed by a qualified welder, following the standards of the American Welding Society (AWS) and/or the requirements of the American Society of Mechanical Engineers (ASME).
- Welding procedures are applicable for medium and low carbon steel plates. For other steel grades, a special welding procedure must be developed.
- The weld must have a minimum tensile strength of 3.175 kg/mm²(4,520 psi (31.2 MPa) according to AWS A5.1 E-7018. Before welding, verify the electrode manufacturer's recommendations.
- Clean the surface and position the weld-on lifting eye at the desired point. The base of the lifting eye must seat properly on the surface, clean and free of grease, paint, slag, or scale.
- Completely fill the space between the weld-on lifting eye and the surface. The weld profile must comply with AWS standards.
- Make a minimum of two weld passes to ensure adequate penetration at the base of the lifting eye. Weld the base of the lifting eye on both sides and along its full perimeter.
- The weld bead must be continuous, without holes, cracks, or folds. It is recommended to inspect the weld using liquid penetrant testing. If repair is required, grind the defective area before rewelding.
- Allow the weld to cool slowly. Verify that the lifting eye ring pivots freely at 180°.

VERTICAL PLANE ANGLE	RATED LOAD %
0° - 15°	100%
6° - 15°	55%
16° - 90°	25%

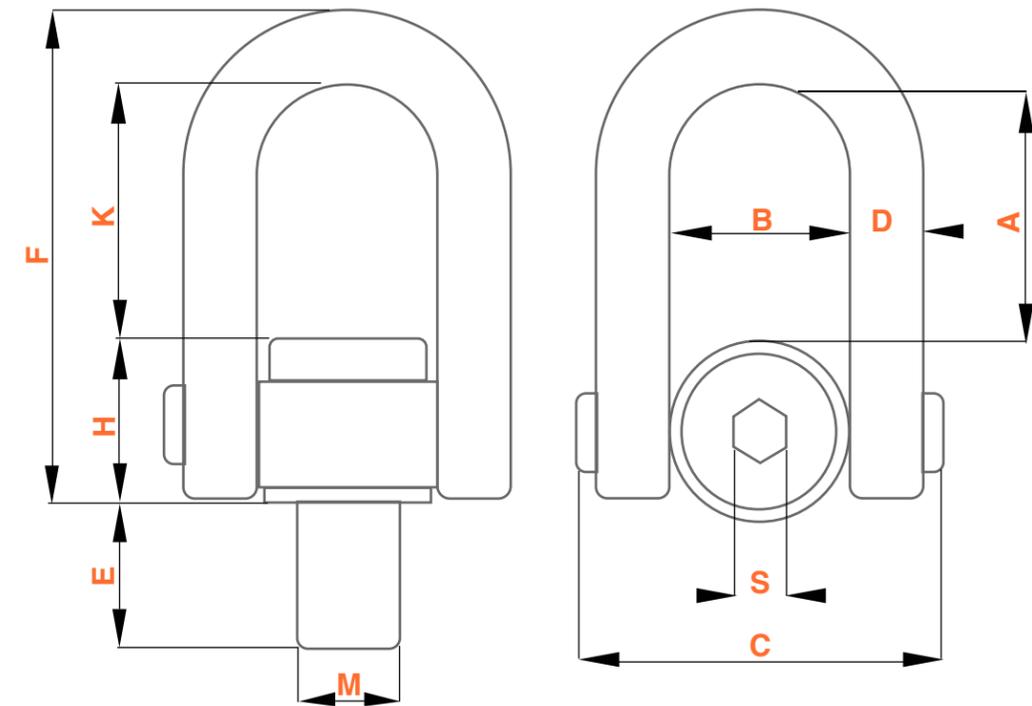


SWIVEL HOIST RING

CHARACTERISTICS

- CNC-machined alloy steel body.
- Hot-forged and heat-treated alloy steel ring/eye.
- Hardened bushing.
- Capable of 360° rotation and 180° pivoting.
- Design factor: 4:1
- Standards: ASME B30.26 and EN 1677-1
- Brand: Gorila®

DIAMETER X LENGTH (in)	WLL		TORQUE (N.m)	DIMENSIONES (mm)										WEIGHT	
	(t)	(lb)		E	A±3	B±3	C	D	F	K±3	H	S	(kg)	(lb)	
M8 x 1.25	0,5	1,100	M8 x 1.25	12	51	37	76	14	102	50	38	8	0,8	1,76	
M10 x 1.5	0,7	1,550	M10 x 1.5	16	51	37	76	14	102	50	38	8	0,8	1,76	
M12 x L75	1,0	2,200	M12 x L75	18	51	37	76	14	102	50	38	8	0,8	1,76	
M14 x 2.0	1,5	3,300	M14 x 2.0	21	51	37	76	14	102	50	38	8	0,8	1,76	
M16 x 2.0	2,0	4,400	MB x 1.25	24	51	37	76	14	102	50	38	8	0,8	1,76	
M18 x 2.5	2,5	5,510	M10 x 1.5	40	75	54	105	20	145	77	48	12	1,9	4,18	
M20 x 2.5	3,0	6,610	M12 x L75	40	75	54	105	20	145	77	48	12	2,0	4,40	
M22 x 2.5	3,0	6,610	M14 x 2.0	40	75	54	105	20	145	77	48	12	2,1	4,62	
M24 x 3.0	4,5	9,920	MB x 1.25	40	75	54	105	20	145	77	48	12	2,5	5,51	
M27 x 3.0	5,0	11,000	M10 x 1.5	40	99	73	146	30	202	104	68	17	5,5	1,212	
M30 x 3.5	7,3	16,000	M12 x L75	45	99	73	146	30	202	104	68	17	5,5	1,212	
M33 x 3.5	8,0	17,600	M14 x 2.0	50	99	73	146	30	202	104	68	17	5,5	1,212	
M36 x 4.0	10,0	22,000	MB x 1.25	54	99	73	146	30	202	104	68	17	5,5	1,212	
M39 x 4.0	10,0	22,000	M10 x 1.5	58	99	73	146	30	202	104	68	17	6,0	1,322	
M42 x 4.5	12,5	27,500	M12 x L75	63	99	73	146	30	202	104	68	17	6,0	1,322	
M45 x 4.5	15,0	33,000	M14 x 2.0	63	99	73	146	30	202	104	68	17	6,0	1,322	
M48 x 5.0	16,0	35,200	MB x 1.25	63	99	73	146	30	202	102	68	17	6,5	1,433	
M48 x 5.0	20,0	44,100	M10 x 1.5	68	120	93	182	36	249	125	70	19	11,5	2,535	
M52 x 5.0	20,0	44,100	M12 x L75	68	120	93	182	36	249	125	84	19	12,0	2,645	
M56 x 5.5	25,0	55,100	M14 x 2.0	78	120	93	182	36	249	125	84	19	12,0	2,645	
M60 x 5.5	25,0	55,100	MB x 1.25	90	120	93	182	36	253	125	84	19	13,0	2,866	
M64 x 6.0	32,0	70,500	M10 x 1.5	90	120	93	182	36	353	125	88	19	13,0	2,866	
M64 x 6.0	33,0	72,700	M12 x L75	100	185	144	280	58	395	195	88	36	42,0	9,259	
M72 x 4.0	35,0	77,100	M14 x 2.0	110	185	144	280	58	395	195	136	36	43,0	9,479	
M72 x 6.0	35,0	77,100	MB x 1.25	110	185	144	280	58	395	195	136	36	43,0	9,479	
M80 x 6.0	40,0	88,100	M10 x 1.5	120	185	144	280	58	395	195	136	36	44,5	9,810	
M90 x 6.0	45,0	99,200	M12 x L75	135	185	144	280	58	395	195	136	36	46,5	10,251	
M100 x 6.0	50,0	110,200	M14 x 2.0	150	185	144	280	58	395	195	136	36	49,0	10,802	



NUMBER OF SWIVEL HOIST RING	1		2		2		3-4	
	0°		0°		0°- 45°		45°- 60°	
	90°		90°		0°- 45°		45°- 60°	
WORKING ANGLE	0°	0°	90°	90°	0°- 45°	45°- 60°	0°- 45°	45°- 60°
DIAMETER								
M8	0,50	1,00	0,50	1,00	0,70	0,50	1,10	0,80
M10	0,70	1,40	0,70	1,40	1,00	0,70	1,50	1,10
M12	1,00	2,00	1,00	2,00	1,40	1,00	2,10	1,50
M14	1,50	3,00	1,50	3,00	2,10	1,50	3,15	2,30
M16	2,00	4,00	2,00	4,00	2,80	2,00	4,20	3,00
M18	2,50	5,00	2,50	5,00	3,50	2,50	5,25	3,75
M20	3,00	6,00	3,00	6,00	4,20	3,00	6,30	4,50
M22	3,00	6,00	3,00	6,00	4,20	3,00	6,30	4,50
M24	4,50	9,00	4,50	9,00	6,30	4,50	9,45	6,80
M27	5,00	10,00	5,00	10,00	7,00	5,00	10,50	7,50
M30	7,30	14,00	7,30	14,60	10,20	7,30	15,30	11,00
M33	8,00	16,00	8,00	16,00	11,20	8,00	16,80	12,00
M36	10,00	20,00	10,00	20,00	14,00	10,00	21,00	15,00
M39	10,00	20,00	10,00	20,00	14,00	10,00	21,00	15,00
M42	12,50	25,00	12,50	25,00	17,50	12,50	26,30	18,80
M45	15,00	30,00	15,00	30,00	21,00	15,00	31,50	22,50
M48	16,00	32,00	16,00	32,00	22,40	16,00	33,50	24,00
M48	20,00	40,00	20,00	40,00	28,00	20,00	42,00	30,00
M52	20,00	40,00	20,00	40,00	28,00	20,00	42,00	30,00
M56	25,00	50,00	25,00	50,00	35,00	25,00	53,00	37,50
M60	25,00	50,00	25,00	50,00	35,00	25,00	52,50	37,50
M64	32,00	64,00	32,00	64,00	45,00	32,00	67,00	48,00
M64	33,00	66,00	33,00	66,00	46,20	33,00	69,30	49,50
M72	35,00	70,00	35,00	70,00	49,00	35,00	73,50	52,50
M72	35,00	70,00	35,00	70,00	49,00	35,00	73,50	52,50
M80	40,00	80,00	40,00	80,00	56,00	40,00	84,00	60,00
M90	45,00	90,00	45,00	90,00	63,00	45,00	94,50	67,50
M100	50,00	100,00	50,00	100,00	70,00	50,00	105,00	75,00

USAGE RECOMMENDATIONS SWIVEL HOIST RING

The Swivel Hoist Ring is an excellent, fast, and safe solution for lifting dies, molds, plates, and similar loads. Its ability to rotate 360° and pivot 180° provides a wide range of applications. The Allen bolt, Grade 8, complies with ASTM A574.

The base of the lifting eye must be 100% fully seated and firmly supported on the surface. Do not use washers between the base of the lifting eye and the mounting surface.

Before installation, ensure that the receiving threads are undamaged and free of grease, oil, or dirt. After installation, verify that the lifting eye rotates and pivots freely.

The bolt must be tightened to the torque specified in the table. Periodically check the bolt tightening.

Inspect before use. If the lifting eye does not pivot freely or if any part shows signs of wear, corrosion, deformation, or damage, remove it from service. Never exceed the working load limit. Do not repair or modify any of its components.

For lifting eyes, the applied load is not simply the total load divided by the number of lifting eyes. The resulting force can be significantly higher, depending on the lifting angle and load distribution.

- ASTM A563 (A) Grade D heavy hex nut; (B) Grade DH standard hex nut; SAE Grade 8 standard hex nut.

- The threaded hole depth must not be less than 1.5 times the thread length of the lifting eye bolt.

- The threaded hole must be perpendicular (90°) to the surface of the workpiece.

- If installed in soft metals such as aluminum, it is recommended not to leave the lifting eye installed for extended periods due to potential corrosion.

- The base of the lifting eye must be fully seated (100%) and firmly supported on the surface.

- Do not use washers between the base of the lifting eye and the surface.

- Before installation, ensure that the receiving threads are undamaged and clean, free of grease, oil, or dirt.

- After installation, verify that the lifting eye rotates and pivots freely.

- The bolt must be tightened to the torque specified in the table. If the bolt is not properly tightened, the applied load may shear the threads.

- Periodically check the bolt tightening. Avoid impact loading during lifting operations.

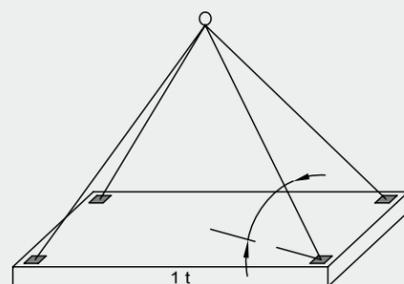
- Always inspect before use. If the lifting eye does not rotate or pivot freely, or if any component shows signs of wear, corrosion, deformation, or damage, it must be removed from service.

- Never exceed the working load limit.

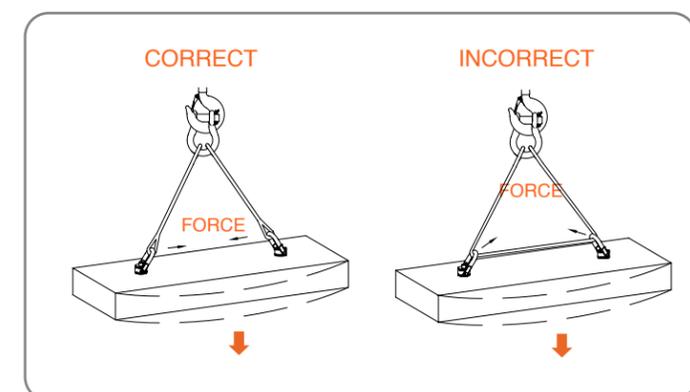
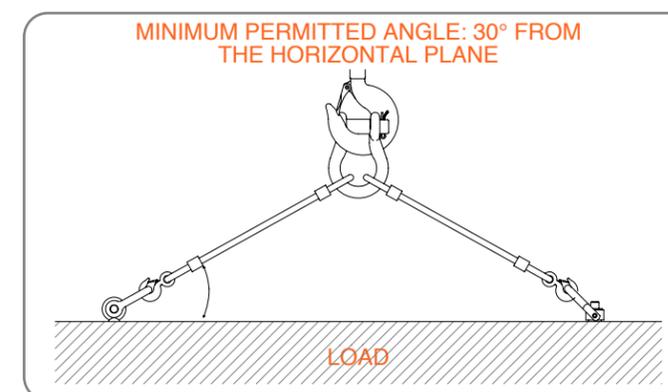
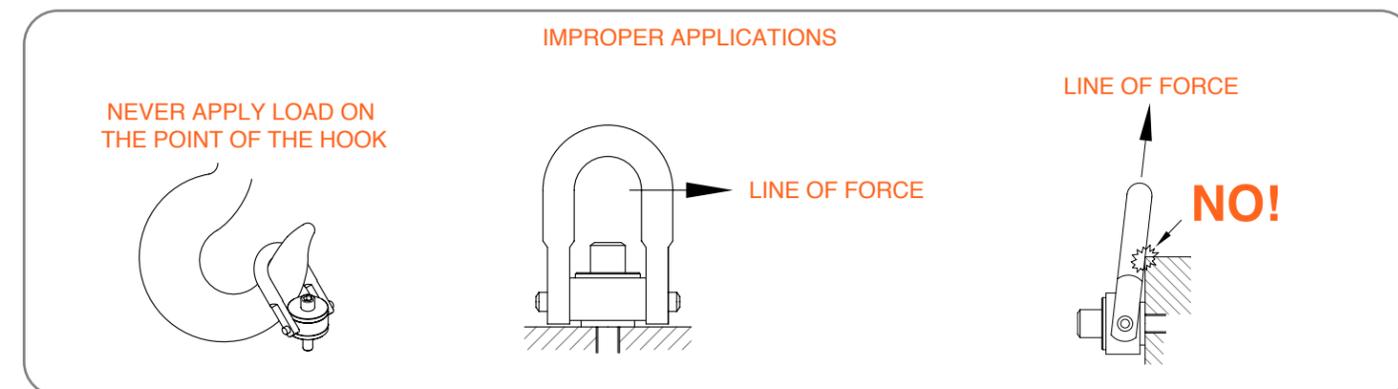
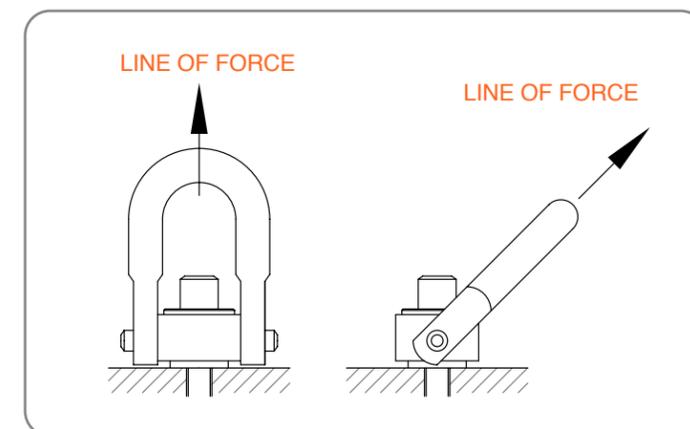
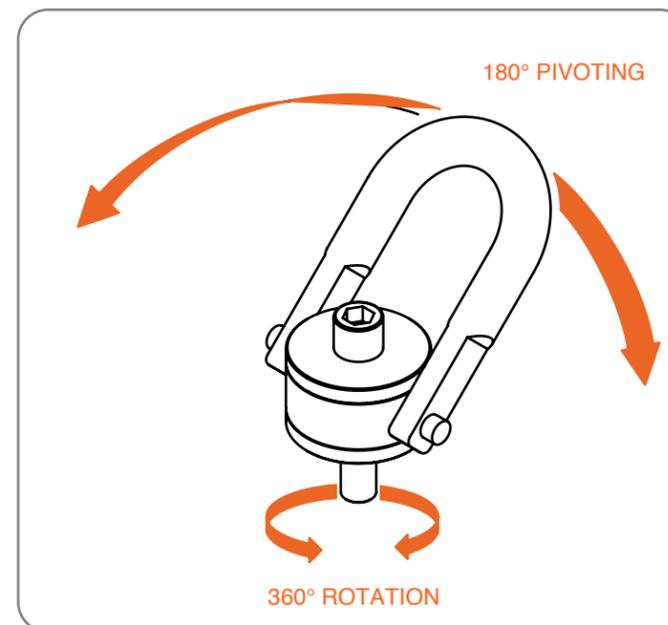
- Do not repair or modify any part of the lifting eye.

- Load angle reduces the lifting capacity of lifting eyes.

WORKING ANGLE	WORKING ANGLE	WORKING ANGLE	WORKING ANGLE
90°	4	1	0,25
80°	4	1	0,26
70°	4	1	0,27
60°	4	1	0,29
50°	4	1	0,33
40°	4	1	0,39
30°	4	1	0,50
20°	4	1	0,73



USAGE RECOMMENDATIONS SWIVEL HOIST RING



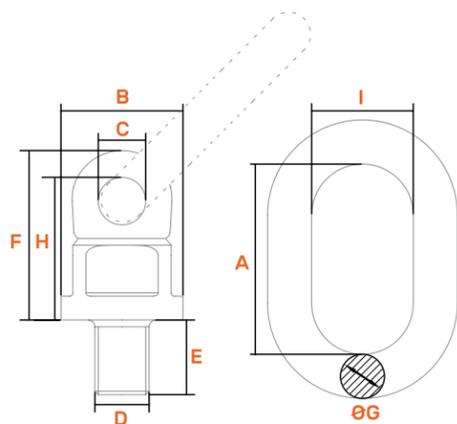


BALL-BEARING LIFTING POINT

CHARACTERISTICS

- Alloy steel link, hot-forged and fusion-welded, heat-treated.
- Swivel base hot-forged in alloy steel, heat-treated.
- Alloy steel body precision-machined on CNC.
- High-impact bearing with metric thread.
- 360° rotation, 180° pivoting, the base must rest fully supported on the surface.

- Design factor: 5:1
- Standards: ASME B30.26
- Brand: Gorila®



DIAMETER X PITCH (mm)	WLL 0°		WLL 45° 90°		DIMENSIONS (mm)							WEIGHT	
	(t)	(lb)	(t)	(lb)	A	B	C	D	E	F	G	(kg)	(lb)
M10 x 1.50	0.9	1,984	0.5	1,102	51	36	17	10	18	53	14	0.45	0.99
M12 x 1.75	1.0	2,205	0.5	1,102	53	36	16	12	18	54	14	0.45	0.99
M16 x 2.00	2.0	4,409	1.12	2,469	55	36	15	16	20	52	13	0.46	1.01
M20 x 2.50	4.0	8,818	2.0	4,409	72	50	21	20	30	69	16	0.95	2.09
M24 x 3.00	6.3	13,889	3.15	6,945	86	57	24	24	31	78	19	1.45	3.20
M30 x 3.50	10.6	23,369	5.3	11,684	85	66	25	30	35	97	20	2.25	4.96
M36 x 4.00	11.8	26,015	5.3	11,684	112	80	30	36	50	101	22	3.50	7.72
M42 x 4.50	15.0	33,069	10.0	22,046	116	80	29	42	51	102	26	4.25	9.37

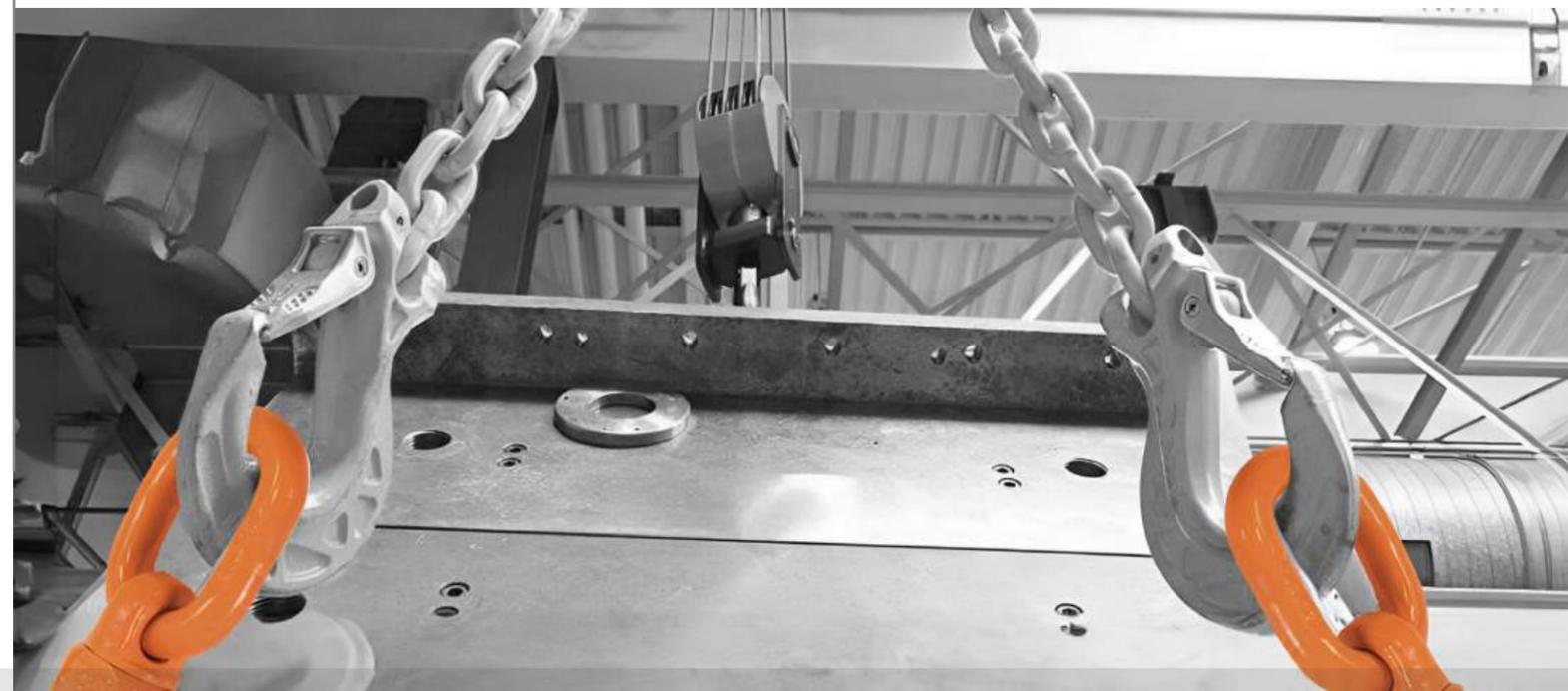
Dimensions and approximate weights, certified product.

- Do not exceed the rated load capacity: Each lifting point has a specified maximum load capacity. Exceeding this limit may cause catastrophic and potentially dangerous failures.

- Always inspect the lifting point before each use.

Swivel and ball-bearing lifting points must be removed from service if any of the following conditions are present:

- Missing or illegible identification.
- Signs of heat damage, including weld spatter or arc strikes.
- Excessive pitting or corrosion.
- Bent, twisted, distorted, stretched, elongated, or cracked load-bearing components.
- Excessive nicks, gouges, or surface indentations.
- A reduction of 10% or more in any dimension from the original catalog value.
- Excessive thread wear or damage.
- Evidence of unauthorized welding or modification.
- Lack of free movement, rotation, or pivoting capability.
- Other visible conditions or damages that may raise doubts about safe and continuous use.



SLING ACCESSORIES

MASTER LINKS

Master links are part of a chain sling assembly.

They are typically used at the upper end of the lifting system, where they connect to the crane's main hook.

However, they can also be used in configurations where they are positioned at the lower end of a lifting setup.



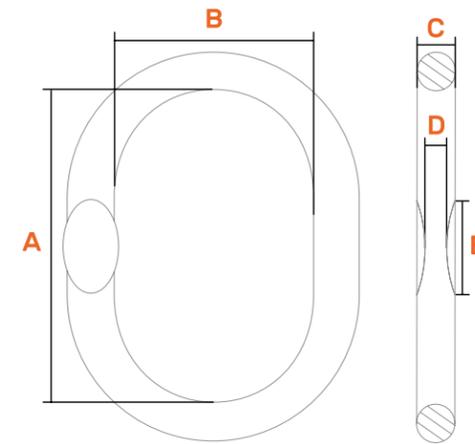
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WELDED MASTER LINK

CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Grade 80 steel.
- Design factor: 13 mm – 50 mm 5:1 | 55 mm – 90 mm 4:1
- Standards: EN 1677-4 and ASME B30.26
- Brand: Gorila®



WLL (t)	DIMENSIONS (mm)					WEIGHT (kg)
	A	B	C	D	E	
1,5	110	74	13	7	32	0,35
2,2	120	70	16	8	32	0,55
3,2	140	79	18	9	32	0,85
5,3	160	94	22	12	50	1,50
8,0	169	94	25	14	50	2,00
11,2	207	120	30	17	—	3,50
15	245	141	34	36	20	5,40
19	275	140	38	22	57	7,35
21,2	300±10	180±5	45±2	—	—	11,80
31,5	380±10	200±5	50±2	—	—	17,60
45,00	400±10	200±5	55±2	—	—	22,40
56,00	430±10	220±7	60±3	—	—	22,80
80,00	450±10	250±7	70±3	—	—	42,50
100,00	450±10	260±7	80±3	—	—	57,20
150,00	500±15	300±10	90±3	—	—	81,40

Dimensions and approximate weights, certified product.

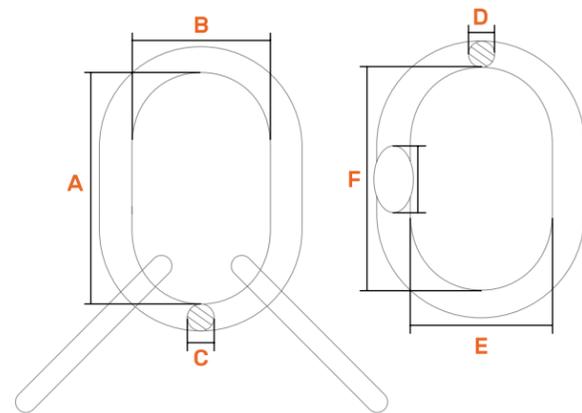
WLL (lb)	DIMENSIONS (In)					WEIGHT (lb)
	A	B	C	D	E	
3,300	4.33	2.91	0.51	0.28	1.26	0.77
4,850	4.72	2.76	0.63	0.31	1.26	1.21
7,050	5.51	3.11	0.71	0.35	1.26	1.87
11,680	6.30	3.70	0.87	0.47	1.97	3.31
17,640	6.65	3.70	0.98	0.55	1.97	4.41
24,690	8.15	4.72	1.18	0.67	—	7.72
33,070	9.65	5.55	1.34	1.42	0.79	11.90
41,890	10.83	5.51	1.50	0.87	2.24	16.20
46,740	11.81	7.09	1.77	—	—	26.01
69,440	14.96	7.87	1.97	—	—	38.80
99,210	15.75	7.87	2.17	—	—	49.38
123,460	16.93	8.66	2.36	—	—	50.26
176,370	17.72	9.84	2.76	—	—	93.70
220,460	17.72	10.24	3.15	—	—	126.10
330,690	19.69	11.81	3.54	—	—	179.54

Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Main link made of hot-forged alloy steel.
- Secondary links made of alloy steel, welded by electrofusion.
- Heat treated.
- Grade 8 steel.
- Design factor: 13 mm – 50 mm 5:1 | 55 mm – 90 mm 4:1
- Standards: EN 1677-4 and ASME B30.26
- Brand: Gorila®



WELDED MASTER LINK ASSEMBLIES

WLL (t)	DIMENSIONS (mm)						WEIGHT (kg)
	A	B	C	D	E	F	
2.5	140±5	80±5	18±1	13±1	60±3	100±5	1,5
3.2	160±5	90±5	20±1	16±1	70±5	120±5	2,30
4.25	160±5	95±5	22±1	16±1	70±5	120±5	2,63
6.7	170±5	95±5	25±1	20±1	95±5	160±5	4,45
11.2	200±5	120±5	30±2	25±1	95±5	170±5	7
17	240±7	140±5	34±2	28±1	120±5	200±5	11,4
21.2	270±7	140±5	38±2	34±1	140±5	240±7	17,9
26.5	300±10	180±5	45±2	38±1	140±5	270±8	26,4
31.5	380±10	200±5	50±2	45±2	180±5	300±10	41,3
45	400±10	200±5	55±2	50±2	200±5	380±10	57,7
67	430±10	220±7	60±3	55±2	200±5	400±10	73,7
80	450±10	250±7	70±3	60±2	220±7	430±10	100,2
100	450±10	260±7	80±3	70±2	220±7	430±10	137,2
150	500±15	300±10	90±3	70±2	220±7	430±10	161,6

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (in)						WEIGHT (lb)
	A	B	C	D	E	F	
5.510	5.51±0.20	3.15±0.20	0.71±0.04	0.51±0.04	2.36±0.12	3.94±0.20	3,31
7.050	6.30±0.20	3.54±0.20	0.79±0.04	0.63±0.04	2.76±0.20	4.72±0.20	5,07
9.370	6.30±0.20	3.74±0.20	0.87±0.04	0.63±0.04	2.76±0.20	4.72±0.20	5,8
14.770	6.69±0.20	3.74±0.20	0.98±0.04	0.79±0.04	3.74±0.20	6.30±0.20	9,81
24.690	7.87±0.20	4.72±0.20	1.18±0.08	0.98±0.04	3.74±0.20	6.69±0.20	15,43
37.480	9.45±0.28	5.51±0.20	1.34±0.08	1.10±0.04	4.72±0.20	7.87±0.20	25,13
46.740	10.63±0.28	5.51±0.20	1.50±0.08	1.34±0.04	5.51±0.20	9.45±0.28	39,46
58.420	11.81±0.39	7.09±0.20	1.77±0.08	1.50±0.04	5.51±0.20	10.63±0.31	58,2
69.450	14.96±0.39	7.87±0.20	1.97±0.08	1.77±0.08	7.09±0.20	11.81±0.39	91,05
99.210	15.75±0.39	7.87±0.20	2.17±0.08	1.97±0.08	7.87±0.20	14.96±0.39	127,21
147.710	16.93±0.39	8.66±0.28	2.36±0.08	2.17±0.04	7.87±0.20	15.75±0.39	162,48
176.370	17.72±0.39	9.84±0.28	2.76±0.12	2.36±0.08	8.66±0.28	16.93±0.39	220,9
220.460	17.72±0.39	10.24±0.28	3.15±0.12	2.76±0.08	8.66±0.28	16.93±0.39	302,47
330.690	19.69±0.59	11.81±0.39	3.54±0.12	2.76±0.08	8.66±0.28	16.93±0.39	356,27

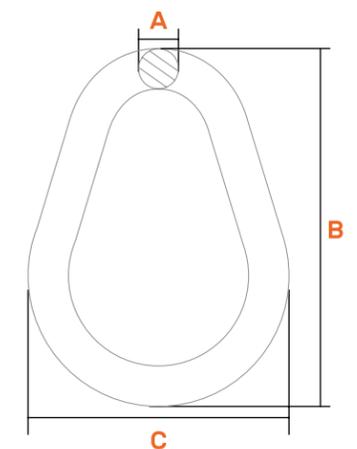
Dimensions and approximate weights, certified product.



PEAR SHAPED LINK

CHARACTERISTICS

- Hot forged in carbon steel.
- Heat treated.
- Grade 8 steel class.
- Design factor: 5:1
- Standards: EN 1677-4 and ASME B30.26
- Brand: Gorila®



WLL (t)	DIMENSIONS (mm)			WEIGHT (kg)
	A	B	C	
0.82	10	57.5	36	0.10
1.32	13	76	51	0.25
1.91	16	95.5	64	0.50
2.73	20	114	76	0.80
3.77	22	133.5	89	1.40
4.91	26	152	102	1.90
7.61	32	190.5	127	3.75
9.32	35	210	140	5.12
11.36	38	228	152	6.50
38.59	44	266.5	178	10.21

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (in)			WEIGHT (lb)
	A	B	C	
1,810	0.39	2.26	1.42	0.22
2,910	0.51	2.99	2.01	0.55
4,210	0.63	3.76	2.52	1.10
6,020	0.79	4.49	2.99	1.76
8,310	0.87	5.26	3.50	3.09
10,820	1.02	5.98	4.02	4.19
16,780	1.26	7.50	5.00	8.27
20,550	1.38	8.27	5.51	11.29
25,050	1.50	8.98	5.98	14.33
85,090	1.73	10.49	7.00	22.51

Dimensions and approximate weights, certified product.

SLING ACCESSORIES

COUPLING LINKS

Coupling links are components commonly used to connect a sling to a hook. There are two main types: one designed for connecting chain slings or chain assemblies for lifting and load securing, and another type specifically designed for use with synthetic slings.



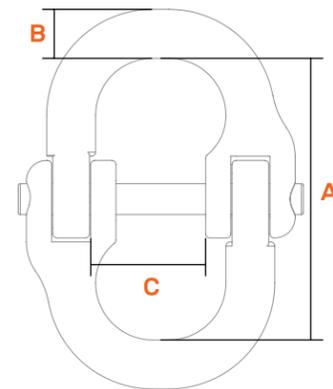
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CHARACTERISTICS

- Hot forged in alloy steel.
- Heat treated.
- Grade 8 steel class.
- Design factor: 4:1
- Standards: EN 1677-4 and ASME B30.26
- Brand: Gorila®

COUPLING LINK G8



Ø CHAIN (mm)	WLL (t)	DIMENSIONS (mm)			WEIGHT (kg)
		A	B	C	
6	1.12	42,5	8	16	0.10
8	2	59	9	21	0.15
10	3,15	67	12	25	0,300
13	5,3	83	16	29	0,650
16	8	104	20	37	1,20
18 - 20	12,5	114	24	41	1,950
22	15	137	27	50	3,70
26	21,2	457	32	58	4,60
32	31,5	200	32	66	9,00

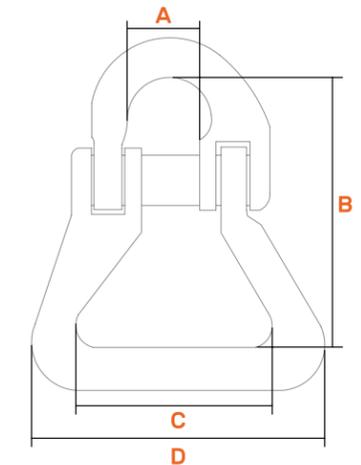
Dimensions and approximate weights, certified product.

Ø CHAIN (In)	WLL (lb)	DIMENSIONS (In)			WEIGHT (lb)
		A	B	C	
1/4	2,470	1.67	0.31	0.63	0.22
5/16	4,410	2.32	0.35	0.83	0.33
3/8	6,940	2.64	0.47	0.98	0.66
1/2	11,680	3.27	0.63	1.14	1.43
5/8	17,640	4.09	0.79	1.46	2.65
3/4	27,560	4.49	0.94	1.61	4.30
7/8	33,070	5.39	1.06	1.97	8.16
1	46,740	6.18	1.26	2.28	10.14
1-1/4	69,450	7.87	1.26	2.60	19.84

Dimensions and approximate weights, certified product.



COUPLING LINK G8
– WEBBING SLING



WLL (t)	DIMENSIONS (mm)				WEIGHT (kg)
	A	B	C	D	
1,12	16	59	35	60	0.2
2	20	62	40	62	0,3
3,15	26	80	36	66	0,5
5,3	30	83	51	87	1,05
8	35	115	65	107	1,90
12,5	43	133	77	125	3,0

Dimensions and approximate weights, certified product.

CHARACTERISTICS

- Heat treated.
- Its special design allows connection or attachment of synthetic slings with various accessories such as eye hooks, master links, and swivel hooks.
- Its large inner radius provides better load distribution, allowing 100% use of the working load limit of flat and round polyester slings.
- Grade 8 steel.
- Design factor: 4:1
- Standards: EN 1677-4 and ASME B30.26
- Brand: Gorila®

WLL (lb)	DIMENSIONS (In)				WEIGHT (lb)
	A	B	C	D	
2,470	0.63	2.32	1.38	2.36	0.44
4,410	0.79	2.44	1.57	2.44	0.66
6,940	1.02	3.15	1.42	2.60	1.10
11,680	1.18	3.27	2.01	3.43	2.32
17,640	1.38	4.53	2.56	4.21	4.19
27,560	1.69	5.24	3.03	4.92	6.61

Dimensions and approximate weights, certified product.

SLING ACCESSORIES

HOOKS

Their main function is to provide a quick, safe, and efficient connection between slings, loads, and lifting equipment. There are different types of hooks designed to suit a wide range of industrial applications, from light-duty handling to heavy lifting operations. Manufactured from high-strength steel and heat-treated for maximum durability, hooks offer reliability and excellent performance even under extreme conditions. Their ergonomic design and compatibility with a wide variety of accessories ensure greater versatility and safety in every operation.

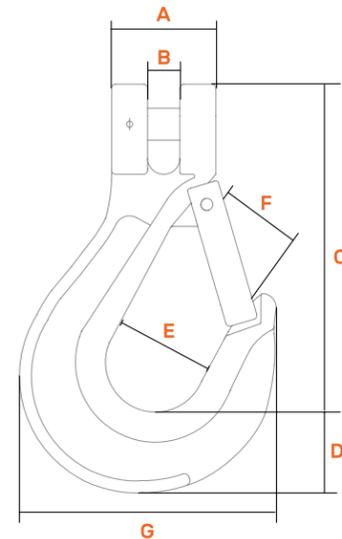


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CHARACTERISTICS

- Hot-forged alloy steel.
- Heat treated.
- Forged steel safety latch.
- Grade 8 steel.
- Design factor: 4:1
- Standards: ASME B30.10 and EN 1677-2
- Brand: Gorila®



CLEVIS SLING HOOK

CHAIN CONNECTION (mm)	WLL (t)	DIMENSIONS (mm)						WEIGHT (kg)
		A	B	C	D	E	F	
6	1,12	32	8	88	21	34	24	0,10
7 - 8	2	39	9	118	27	36	32	0,15
10	3,15	49	13	123	33	45	30	0,300
13	5,3	55	16	150	46	53	37	0,650
16	8	70	20	180	60	59	47	1,20
20	12,5	77	24	180	58	79	61	1,950
22	15	89	26	250	67	100	65	3,70
26	21,2	114	30	305	75	113	84	4,60
32	31,5	146	41	385	100	136	98	9,00

Dimensions and approximate weights, certified product.

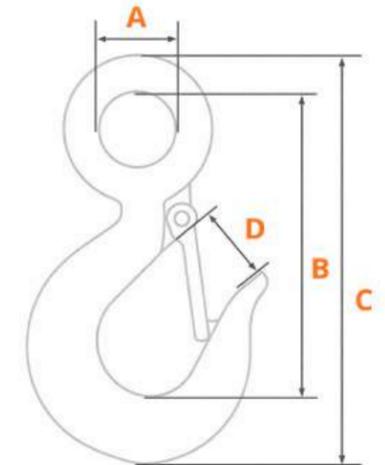
CHAIN CONNECTION (In)	WLL (lb)	DIMENSIONS (In)						WEIGHT (lb)
		A	B	C	D	E	F	
1/4	2,470	1.26	0.31	3.46	0.83	1.34	0.94	0.88
9/32	4,410	1.54	0.35	4.65	1.06	1.42	1.26	1.87
3/8	6,940	1.93	0.51	4.84	1.30	1.77	1.18	2.09
1/2	11,680	2.17	0.63	5.91	1.81	2.32	1.46	4.08
5/8	17,640	2.76	0.79	7.09	2.36	2.32	1.85	7.94
3/4	27,560	3.03	0.94	7.09	2.28	3.11	2.40	13.23
7/8	33,070	3.50	1.02	9.84	2.64	3.94	2.56	20.62
1	46,740	4.49	1.18	12.01	2.95	4.45	3.31	33.07
1-1/4	69,445	5.75	1.61	15.16	3.94	5.35	3.86	62.83

Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot-forged alloy steel.
- Heat treated.
- Zinc steel safety latch.
- Grade 8 steel.
- Design factor: 4:1
- Standards: ASME B30.10 and EN 1677-2
- Brand: Gorila®



EYE HOOK WITH LATCH

WLL (t)	DIMENSIONS (mm)				WEIGHT (kg)
	A	B	C	D	
0.75	18	80	111	22	22
1	23	92	125	25	23
1.5	27	103	141	24	24
2	31	119	161	28	27,5
3	38	143	203	33	33
5	50	186	250	40	40
7.5	63	216	315	51	51
10	72	257	355	58	57
15	87	315	425	73	76
20	90	360	495,5	82	82
1	19	82	110	22	0,28
2	28	103	140,5	24	0,65
11	62	231,5	317	51	6,8
15	73	261	360	57	9,8

Dimensions and approximate weights, certified product.

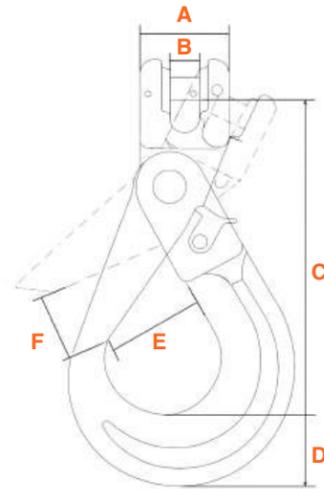
WLL (lb)	DIMENSIONS (In)				WEIGHT (lb)
	A	B	C	D	
1,650	0.71	3.15	4.37	0.87	48.50
2,200	0.91	3.62	4.92	0.98	50.70
3,300	1.06	4.06	5.55	0.94	52.90
4,400	1.22	4.68	6.34	1.10	60.60
6,600	1.50	5.63	7.99	1.30	72.70
11,000	1.97	7.32	9.84	1.57	88.20
16,500	2.48	8.50	12.40	2.00	112.40
22,000	2.83	10.12	13.98	2.28	125.70
33,000	3.43	12.40	16.73	2.87	165.30
44,000	3.54	14.17	19.50	3.23	180.80
2,200	0.75	3.23	4.33	0.87	0.62
4,400	1.10	4.06	5.53	0.94	1.43
24,250	2.44	9.11	12.48	2.00	15.00
33,000	2.87	10.27	14.17	2.24	21.60

Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Latch made of cast steel.
- Grade 80 steel.
- Design factor: 4:1
- Standards: ASME B30.10 and EN 1677-2
- Brand: Gorila®



CLEVIS HOOK

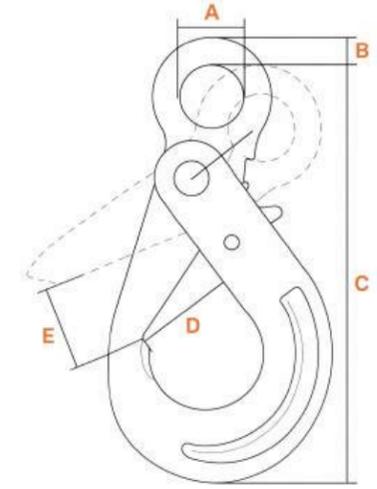
CHAIN CONNECTION (mm)	WLL (t)	DIMENSIONS (mm)						WEIGHT (kg)
		A	B	C	D	E	F	
6	1,12	32	7.5	91	23	32	30	0,45
7 - 8	2	39	9	117	27	35	35	0,85
10	3,15	46	12	140	34	45	44	1,40
13	5,3	59	16	182	41	51	55	2,50
16	8	77	18	215	53	63	75	5,50
20	12,5	80	24	235	53	83	80	7,75
22	15	97	29	280	71	80	82	12,25
26	21,2	116	33	300	77	95	90	19,5
32	31,5	147	45	400	95	145	145	46,5

Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Latch made of cast steel.
- Grade 80 steel.
- Design factor: 4:1
- Standards: ASME B30.10 and EN 1677-3
- Brand: Gorila®



SELF LOCKING EYE HOOK

CHAIN CONNECTION (mm)	WLL (t)	DIMENSIONS (mm)					WEIGHT (kg)
		A	B	C	D	E	
6	1,12	21	11	130	29	25	0,45
7 - 8	2	25	13	156	34	31	0,85
10	3,15	34	15	196	45	55	1,45
13	5,3	40	17	221	50	46	1,95
16	8,2	56	23	304	62	56	5,55
20	12,5	64	28	325	83	65	7,55
22	15,51	70	30	387	100	82	13,0
26	21,64	80	34	438	110	110	18,0
32	32,79	105	45	569	166	168	44,5

Dimensions and approximate weights, certified product.

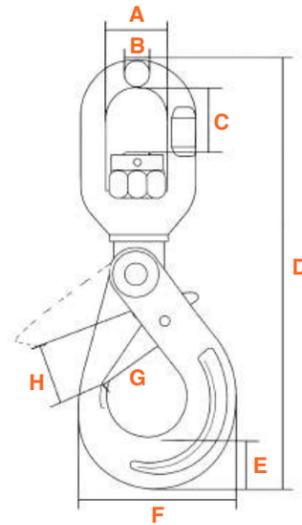
CHAIN CONNECTION (in)	WLL (lb)	DIMENSIONS (in)					WEIGHT (lb)
		A	B	C	D	E	
61/4	2,470	0.83	0.43	5.12	1.14	0.98	0.99
9/32	4,410	0.98	0.51	6.14	1.34	1.22	1.87
3/8	6,940	1.34	0.67	7.72	1.77	2.17	3.20
1/2	11,680	2.20	0.91	8.70	1.97	1.81	4.30
5/8	18,080	2.52	1.14	11.97	2.44	2.20	12.23
3/4	27,560	2.83	1.10	12.80	3.27	2.56	16.65
7/8	34,190	3.15	1.34	15.24	3.94	3.23	28.66
1	39,560	3.15	1.34	17.13	4.33	4.33	39.68
1-1/4	72,300	4.13	1.77	22.40	6.54	6.61	98.11

Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Cast steel latch.
- Rotates 360°.
- Grade 80 steel.
- Design factor: 4:1
- Standards: ASME B30.10 and EN 1677-3
- Brand: Gorila®



SWIVEL SELF LOCKING HOOK WITH BEARING

CHAIN CONNECTION (mm)	WLL (t)	DIMENSIONS (mm)									WEIGHT (kg)
		A	B	C	D	E	F	G	H		
6	1,12	33	12,5	25	180	21	70	28	20	1,2	
7-8	2	35	14	28	220	27	89	35	30	1,15	
10	3,15	41	16	32	262	31	107	45	35	2,05	
13	5,3	49	17	40	320	42	137	52	50	3,70	
16	8	56	23	49	395	53	166	76	62	6,90	
20	12,5	71	24	60	433	59	85	85	80	9,90	
22	15	95	34	93	560	70	203	93	90	15,9	
26	21,2	121,5	47	108	642	75	240	96	97	29,5	

Dimensions and approximate weights, certified product.

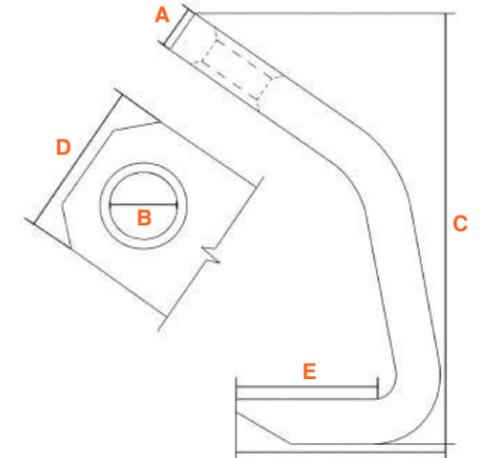
CHAIN CONNECTION (in)	WLL (Lb)	DIMENSIONS (in)									WEIGHT (lb)
		A	B	C	D	E	F	G	H		
1/4	2,470	1.30	0.49	0.98	7.09	0.83	2.76	1.10	0.79	2.65	
9/32	4,410	1.38	0.55	1.10	8.66	1.06	3.50	1.38	1.18	2.54	
3/8	6,940	1.61	0.63	1.26	10.31	1.22	4.21	1.77	1.38	4.52	
1/2	11,680	1.93	0.67	1.57	12.60	1.65	5.39	2.05	1.97	8.16	
5/8	17,640	2.20	0.91	1.93	15.55	2.09	6.54	2.99	2.44	15.21	
3/4	27,560	2.80	0.94	2.36	17.05	2.32	8.00	3.35	3.15	21.83	
7/8	33,070	3.74	1.34	3.66	22.05	2.76	7.99	3.66	3.54	35.05	
1	46,740	4.78	1.85	4.25	25.28	2.95	9.45	3.66	3.74	65.04	

Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged structural steel.
- Loads are rated for plate hooks.
- When used in pairs, the chain angle must be 60° or greater.
- Design factor: 4:1
- Standards: UNE EN 13155 / ASME B30.20
- Brand: Gorila®



PLAYHOOK

CHAIN CONNECTION (mm)	WLL AT 60° PER PAIR (t)	DIMENSIONS (mm)						WEIGHT (kg)
		A	B	C	D	E		
8	1,7	16,00	25,4	149	76	51	0,46	
10	2	19,00	28,4	220	84	67	1,03	
13	3,2	25,00	38,1	276	107	89	1,89	
16	6,6	32,00	47,7	334	157	111	-	
20	7,4	38,00	57,1	405	175	132	-	

Dimensions and approximate weights, certified product.

CHAIN CONNECTION (in)	WLL AT 60° PER PAIR (lb)	DIMENSIONS (in)						WEIGHT (lb)
		A	B	C	D	E		
5/16	3,748	0,63	1,00	5,87	2,99	2,01	1,01	
3/8	4,409	0,75	1,12	8,66	3,31	2,64	2,27	
1/2	7,055	0,98	1,50	10,87	4,21	3,50	4,17	
5/8	14,550	1,26	1,88	13,15	6,18	4,37	12,13	
3/4	16,315	1,50	2,24	15,94	6,89	5,20	-	

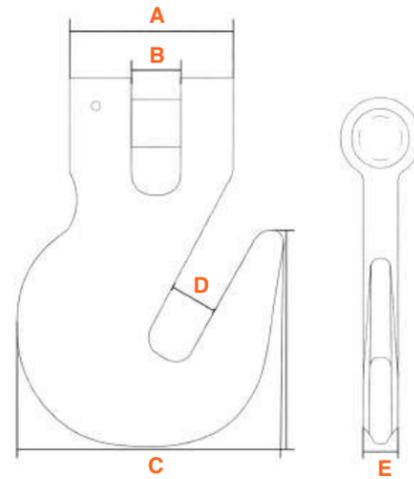
Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Grade 8 steel.
- Design factor: 4:1
- Standards: ASME B30.10 / EN 1677-1
- Brand: Gorila®

GRAB HOOK



CHAIN CONNECTION (mm)	WLL (t)	DIMENSIONS (mm)					WEIGHT (kg)
		A	B	C	D	E	
6	1,12	32	7	42,5	7	22,5	0,20
8	2	40	10	52	11	34	0,35
10	3,15	45	13	72	13	46	0,85
13	5,3	53	13	94	16	56	1,60
16	8	70	19	107	19	73	2,8
20	12,5	81	22	133	22	73	4,8
22	15	90	26	153	26	91	7,6
26	21,2	100	30	171	30	102	14,5

Dimensions and approximate weights, certified product.

CHAIN CONNECTION (In)	WLL (lb)	DIMENSIONS (In)					WEIGHT (lb)
		A	B	C	D	E	
1/4	2,469	1.26	0.28	1.67	0.28	0.89	0.44
5/16	4,409	1.57	0.39	2.05	0.43	1.34	0.77
3/8	6,945	1.77	0.51	2.83	0.51	1.81	1.87
1/2	11,684	2.09	0.51	4.21	0.63	2.20	3.53
5/8	17,637	2.76	0.75	5.24	0.75	2.87	6.17
3/4	27,557	3.19	0.87	5.24	0.87	2.87	10.58
7/8	33,069	3.54	1.02	6.02	1.02	3.58	16.76
1	46,740	3.94	1.18	6.73	1.18	4.02	31.97

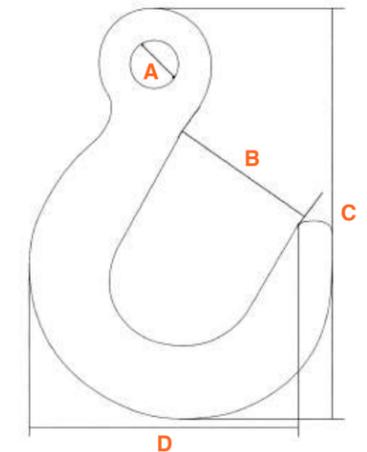
Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Grade 8 steel.
- Design factor: 4:1
- Standards: ASME B30.10 / EN 1677-1
- Brand: Gorila®

EYE FOUNDRY HOOK



CHAIN CONNECTION (mm)	WLL (t)	DIMENSIONS (mm)				WEIGHT (kg)
		A	B	C	D	
6	1,59	18,00	63,50	163	120	1,09
10	3,22	22,00	76,00	200,00	143	2,04
13	5,44	27,00	89,00	238,00	170	3,22
16	8,21	32,00	102,00	278,00	200	5,53
20	12,84	38,00	114,50	325,00	225	8,75
22	15,51	45,00	127,50	361,00	250	11,93

Dimensions and approximate weights, certified product.

CHAIN CONNECTION (In)	WLL (lb)	DIMENSIONS (In)				WEIGHT (lb)
		A	B	C	D	
1/4	3,505	0.71	2.50	6.42	4.72	2.40
3/8	7,099	0.87	2.99	7.87	5.63	4.50
1/2	11,991	1.06	3.50	9.37	6.69	7.10
5/8	18,107	1.26	4.02	10.94	7.87	12.19
3/4	28,311	1.50	4.51	12.80	8.86	19.29
7/8	34,192	1.77	5.00	14.37	9.84	26.31

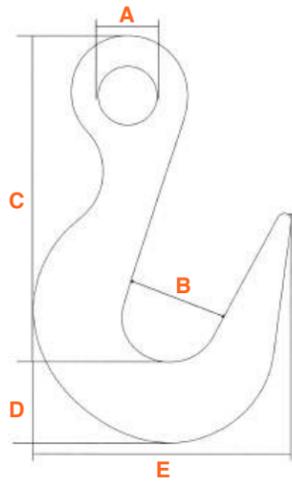
Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Grade 8 steel.
- Design factor: 4:1
- Standards: ASME B30.10 / EN 1677-1
- Brand: Gorila®

FORGED ALLOY STEEL SORTING HOOK



CHAIN CONNECTION (mm)	WLL (t)	DIMENSIONS (mm)					WEIGHT (kg)
		A	B	C	D	E	
8	2,00	35,00	33,00	254,00	49,0	170,0	3,09

Dimensions and approximate weights, certified product.

CHAIN CONNECTION (In)	WLL (lb)	DIMENSIONS (In)					WEIGHT (lb)
		A	B	C	D	E	
5/16	4,400	1.38	1.30	10.00	1.93	6.69	6.81

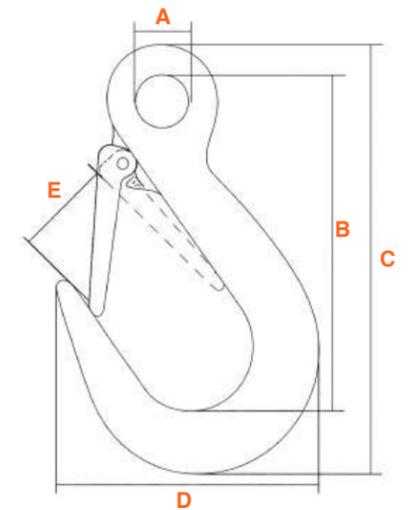
Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Grade 8 steel.
- Zinc steel safety latch.
- Design factor: 4:1
- Standards: ASME B30.10 / EN 1677-1
- Brand: Gorila®

SLIM HOOK



CHAIN CONNECTION (mm)	WLL (t)	DIMENSIONS (mm)					WEIGHT (kg)
		A	B	C	D	E	
10	3,175	24	131	168	108	38	0,70

Dimensions and approximate weights, certified product.

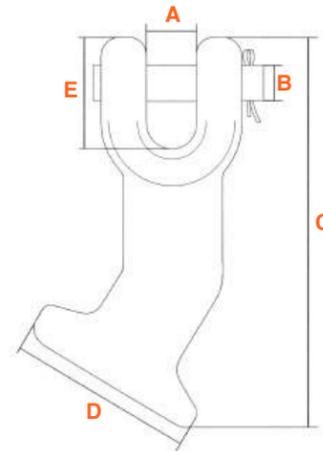
CHAIN CONNECTION (In)	WLL (lb)	DIMENSIONS (In)					WEIGHT (lb)
		A	B	C	D	E	
3/8	7,000	0.94	5.16	6.61	4.25	1.50	1.54

Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Grade 8 steel.
- Design factor: 4:1
- Standards: ASME B30.10 / EN 1677-1
- Brand: Gorila®



CLEVIS ELEPHANT FOOT

CHAIN CONNECTION (mm)	WLL (t)	DIMENSIONS (mm)					WEIGHT (kg)
		A	B	C	D	E	
13	5,00	16,00	13	128	57	36	0,850

Dimensions and approximate weights, certified product.

CHAIN CONNECTION (In)	WLL (lb)	DIMENSIONS (In)					WEIGHT (lb)
		A	B	C	D	E	
1/2	11,000	0.63	0.51	5.04	2.24	1.42	1.87

Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Grade 8 steel.
- Design factor: 4:1
- Standards: ASME B30.10 / EN 1677-1
- Brand: Gorila®

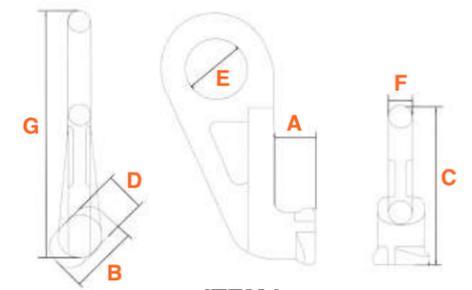
EYE CONTAINER HOOK

ITEM	WLL (t)	BLL (t)	DIMENSIONS (mm)							WEIGHT (kg)
			A	B	C	D	E	F	G	
L-R-C	12,5	50	46	75	166	48	70	25	265	4

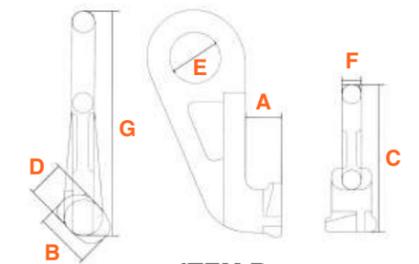
Dimensions and approximate weights, certified product.

ITEM	WLL (lb)	BLL (lb)	DIMENSIONS (In)							WEIGHT (lb)
			A	B	C	D	E	F	G	
L-R-C	27,560	110,230	1.81	2.95	6.54	1.89	2.76	0.98	10.43	8.82

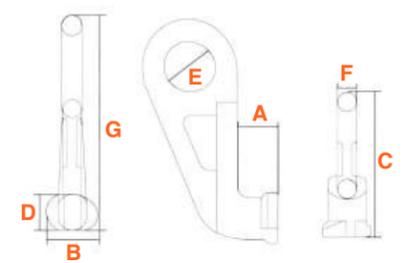
Dimensions and approximate weights, certified product.



ITEM L



ITEM R



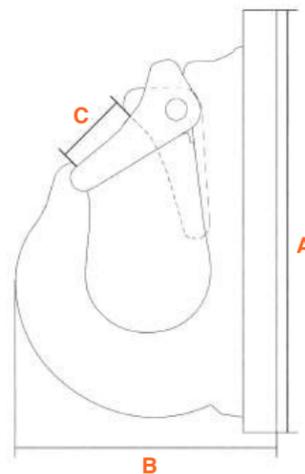
ITEM C



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Grade 8 steel.
- Design factor: 4:1
- Standards: ASME B30.20 / EN 13155
- Brand: Gorila®

ALLOY STEEL WELD ON HOOK



WLL (t)	DIMENSIONS (mm)			WEIGHT (kg)
	A	B	C	
1	88	80	22	0,5
2	80	81	27	0,6
3	114	106	27	1,0
5	158	132	35	2,5
8	164	124	34	3,5
10	203	168	45	5,0

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (in)			WEIGHT (lb)
	A	B	C	
2,200	3.46	3.15	0.87	1.10
4,400	3.15	3.19	1.06	1.32
6,600	4.49	4.17	1.06	2.20
11,000	6.22	5.20	1.38	5.51
17,600	6.46	4.88	1.34	7.72
22,000	7.99	6.61	1.77	11.02

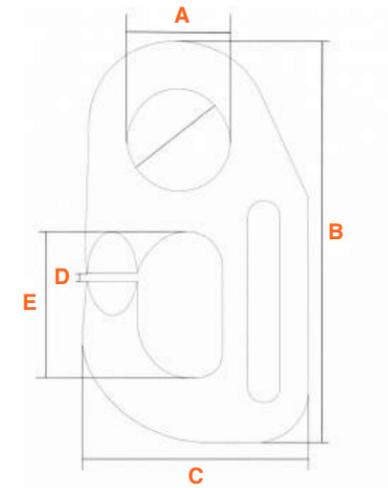
Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Hot forged alloy steel.
- Heat treated.
- Grade 8 steel.
- Design factor: 4:1
- Standards: EN 1677-1
- Brand: Gorila®

ALLOY FORGED G HOOK

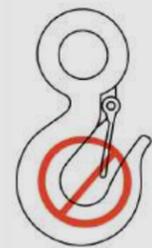


WLL (t)	DIMENSIONS (mm)					WEIGHT (kg)
	A	B	C	D	E	
1.50	28	102	61	3	35	0.50
3.00	30	116	71	3,5	38	0.75
5.00	35	137	84,5	3	42	1,20
8.00	42	153	96	3	42	1.60

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (in)					WEIGHT (lb)
	A	B	C	D	E	
3,300	1.10	4.02	2.40	0.12	1.38	1.10
6,600	1.18	4.57	2.80	0.14	1.50	1.65
11,000	1.38	5.39	3.33	0.12	1.65	2.65
17,600	1.65	6.02	3.78	0.12	1.65	3.53

Dimensions and approximate weights, certified product.



It is important to understand the abbreviations and terms associated with identifying each product's load capacity. This allows compliance with the design conditions for safe working use. The most common terms used to define load capacity are as follows:

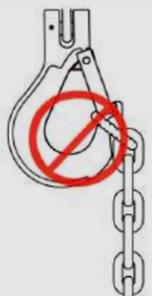


SWL Safe Working Load
WLL Working Load Limit
BLL Breaking Load Limit



- Never exceed the Safe Working Load (SWL) or the Working Load Limit (WLL). Both indicate the maximum effort allowed for safe operation.

- Never use the Breaking Load (BL). It should only be used as a reference to determine the safety factor.



- The Breaking Load (BL) is determined based on the average stress obtained in a laboratory using a tensile testing machine. This measurement is taken under controlled conditions of straight-line tension, temperature, environment, and speed, with force applied until failure.

- Discard any hooks showing a throat opening 15% larger than the original, a deformation greater than 10°, or wear exceeding 10%.

- Hooks are designed to support loads at the center of the throat. Ensure the load is applied at this point during lifting operations.

- Do not apply loads on the hook tip. Doing so may cause premature failure or destruction of the hook.

- If the product is exposed continuously to steam or water (fresh or salt), chemical vapors, or saline environments, or to acids or caustic agents, its useful life will be reduced and must be periodically inspected.

- The load capacity and resistance values do not apply if the product has been modified.



- When placing the load on the hook, ensure it is seated at the center of the throat; otherwise, it may slip and cause the load to fall, resulting in serious accidents or material loss.

- Never apply load unless both the latch and the hook are completely closed and locked.

- Make sure that the latch itself does not support any part of the load.

- When lifting, ensure the load is properly seated in the base of the hook.

- Inspect both the hook and the latch periodically. If the hook or latch are damaged or the latch does not function properly, the hook must be removed from service.

- Do not use the hook if it is visibly deformed, worn, or damaged.

- Keep your hands and body away from the latch or hook opening while closing to avoid pinch points.

- Never side-load or tip-load the hook.

- The user must be properly trained and fully understand safe handling practices.

- The applied load must never exceed the lowest capacity among the hook, coupling link, or lifting equipment.

- Shock loading must be avoided.

- When using multi-leg slings attached to the hook's base, the maximum included angle between sling legs must not exceed 90°. The maximum angle of each leg from the hook's centerline must not exceed 45°.

- A master link, shackle, or coupling link must be used when working with slings of more than two legs.

- Safety latches must remain locked during use. The load must not rest against or restrict the latch.

- The need for a latch or ratchet on any hook depends on the specific lifting application and must be determined by a qualified person. Consult an official GORILA® distributor.

TURNBUCKLES

They are designed to facilitate the process of adding or releasing tension in a wire rope. There are various types of turnbuckles, but regardless of their configuration, the result will always be the same.



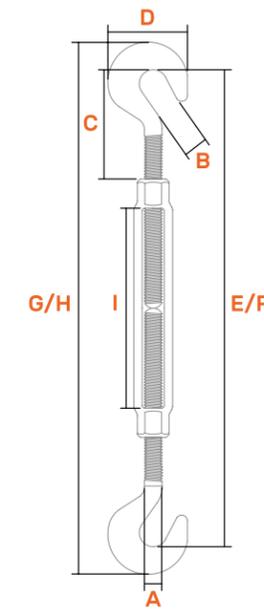
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TURNBUCKLE HOOK-HOOK

CHARACTERISTICS

- Body and end fittings forged from carbon steel with excellent fatigue resistance properties.
- Eye-end fittings are heat-treated and hot-dip galvanized.
- Design factor: 5:1
- Standards: ASME B30.26, Federal FF-T-791B Type 1 Form 1 Class 6, and ASTM F-1145.
- Brand: Gorila®



Ø LENGTH (In)	WLL		DIMENSIONS (In)										WEIGHT	
	(t)	(lb)	A	B	C (Ce)	D	E (Ab)	F (Ce)	G (Ab)	H (Ce)	I	(kg)	(lb)	
1/4 x 4	0.18	397	0.23	0.41	1.18	1.29	10.94	7.08	11.88	8.07	3.80	0.15	0.3307	
5/16 x 4 1/2	0.32	706	0.27	0.51	1.45	1.47	12.59	8.26	13.66	9.29	4.40	0.20	0.4409	
3/8 x 6	0.45	992	0.31	0.55	1.73	1.69	16.22	10.62	17.51	11.92	5.86	0.40	0.8818	
1/2 x 6	0.68	1,500	0.43	0.70	2.04	2.12	17.44	11.73	18.97	13.14	6.02	0.75	1.6535	
1/2 x 9	0.68	1,500	0.43	0.70	2.36	2.12	23.42	15.11	24.80	16.53	8.77	0.90	1.9842	
5/8 x 6	1.02	2,250	0.55	0.90	2.75	2.85	18.97	13.38	21.02	15.43	5.82	1.35	2.9760	
5/8 x 9	1.02	2,250	0.55	0.86	2.77	2.79	24.84	16.14	26.81	18.11	8.70	1.55	3.4172	
3/4 x 9	1.36	3,000	0.68	1.06	3.26	3.22	26.37	17.71	28.74	20.07	8.93	2.20	4.8502	
3/4 x 12	1.36	3,000	0.70	1.06	3.70	3.22	33.18	21.37	35.95	23.62	11.81	2.50	5.5116	
7/8 x 12	1.81	3,991	0.83	1.10	3.93	3.74	34.33	22.44	37.00	25.47	12.90	4.00	8.8185	
7/8 x 18	1.81	3,991	0.78	1.14	4.33	3.46	46.96	29.13	49.21	31.88	17.91	4.40	9.7003	
1 x 6	2.27	5,000	0.94	1.25	4.13	4.01	23.81	17.99	26.77	21.06	5.94	3.85	8.4872	
1 x 12	2.27	5,000	0.90	1.29	4.52	3.97	35.70	24.01	38.85	27.04	11.88	5.15	11.3526	
1 x 18	2.27	5,000	0.94	1.24	4.56	3.97	47.83	30.03	50.78	33.07	18.11	6.50	14.3300	
1 1/4 x 12	2.95	6,500	1.41	2.04	7.20	5.51	41.33	29.62	45.07	33.46	19.81	12.55	27.6678	
1 1/2 x 12	3.40	7,500	1.50	1.88	8.34	5.75	43.94	28.94	47.44	32.44	12.00	12.50	27.5578	
1 1/2 x 24	3.40	7,500	1.41	1.81	6.49	5.59	64.56	40.94	68.11	44.88	23.81	16.45	36.2577	

Dimensions and approximate weights, certified product.
AB = OPEN / CE = CLOSE



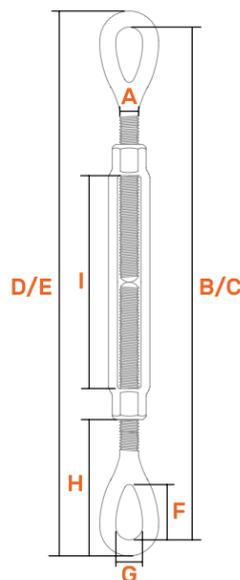
TURNBUCKLE EYE-EYE

CHARACTERISTICS

- Body and end fittings forged from carbon steel with excellent fatigue resistance properties.
- Eye-end fittings are heat-treated and hot-dip galvanized.
- The turnbuckle's oval eyes facilitate the attachment of accessories.
- Design factor: 5:1
- Standards: ASME B30.26, Federal FF-T-791B Type 1 Form 1 Class 6, and ASTM F-1145.
- Brand: Gorila®

Ø LENGTH (In)	WLL		DIMENSIONS (In)										WEIGHT	
	(t)	(lb)	A	B	C	D	E	F	G	H	I	(kg)	(lb)	
1/4 x 4	0.23	507	0.25	11.94	7.94	12.38	8.38	0.81	0.34	1.75	4.00	0.12	0.2646	
5/16 x 4 1/2	0.36	794	0.31	13.92	9.42	14.48	9.98	0.95	0.44	2.20	4.50	0.22	0.4850	
3/8 x 6	0.54	1,190	0.35	17.44	11.61	18.22	12.40	1.02	0.51	2.68	5.94	0.35	0.7716	
1/2 x 6	1.00	2,205	0.50	19.94	13.94	20.82	14.82	1.41	0.71	3.56	6.00	0.78	1.7196	
1/2 x 9	1.00	2,205	0.50	24.72	16.18	25.60	17.04	1.41	0.71	3.56	9.00	0.70	1.5432	
1/2 x 12	1.00	2,205	0.50	32.23	20.23	33.11	21.11	1.41	0.71	3.56	12.00	1.20	2.6455	
5/8 x 6	1.59	3,505	0.63	21.72	15.72	22.72	16.72	1.80	0.88	3.90	6.00	1.25	2.7557	
5/8 x 9	1.59	3,505	0.63	26.69	17.75	28.93	18.77	1.80	0.88	4.34	9.00	1.49	3.2850	
5/8 x 12	1.59	3,505	0.63	34.06	22.06	35.06	23.06	1.80	0.88	4.34	12.00	1.87	4.1228	
3/4 x 9	2.36	5,200	0.75	23.24	17.24	24.50	18.50	2.09	1.00	4.69	9.00	2.09	4.6082	
3/4 x 12	2.36	5,200	0.75	35.64	23.64	36.90	24.90	2.09	1.00	5.09	12.00	2.78	6.1280	
7/8 x 12	3.27	7,210	0.88	36.70	24.70	38.20	26.20	2.38	1.25	5.79	12.00	4.01	8.8410	
1 x 6	4.54	10,010	1.00	26.24	20.24	28.00	22.00	3.00	1.43	6.50	6.00	4.37	9.6334	
1 x 12	4.54	10,010	1.00	38.24	26.24	40.00	28.00	3.00	1.43	6.50	12.00	5.90	13.0064	
1 x 18	4.54	10,010	1.00	50.24	32.24	52.00	34.00	3.00	1.43	6.50	18.00	7.40	16.3146	
1 x 24	4.54	10,010	1.00	62.84	38.84	64.60	40.60	3.00	1.43	6.50	24.00	9.18	20.2409	
1 1/4 x 12	6.91	15,230	1.25	42.14	30.14	44.38	32.38	3.59	1.82	8.49	12.00	9.04	19.9323	
1 1/4 x 18	6.91	15,230	1.25	54.14	36.14	56.38	38.38	3.59	1.82	8.49	18.00	10.81	23.8344	
1 1/2 x 12	9.73	21,450	1.50	44.24	32.24	46.74	34.74	4.09	2.12	9.46	12.00	13.04	28.7446	
1 1/2 x 18	9.73	21,450	1.50	56.24	38.24	58.74	40.74	4.09	2.12	9.46	18.00	15.50	34.1710	
1 1/2 x 24	9.73	21,450	1.50	68.86	44.86	71.36	47.36	4.09	2.12	9.46	24.00	18.00	39.6824	

Dimensions and approximate weights, certified product.
AB = OPEN / CE = CLOSE



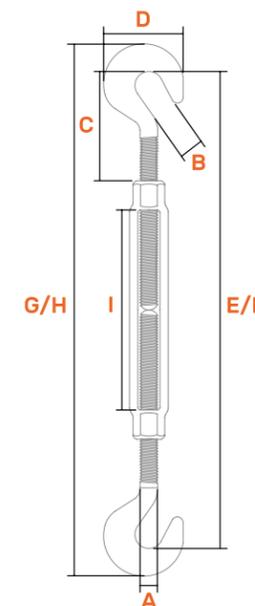
TURNBUCKLE HOOK-EYE

CHARACTERISTICS

- Body and end fittings forged from carbon steel with excellent fatigue resistance properties.
- Eye-end fittings are heat-treated and hot-dip galvanized.
- The turnbuckle's oval eyes facilitate the attachment of accessories.
- Design factor: 5:1
- Standards: ASME B30.26, Federal FF-T-791B Type 1 Form 1 Class 6, and ASTM F-1145.
- Brand: Gorila®

Ø LENGTH (In)	WLL		DIMENSIONS (In)													WEIGHT	
	(t)	(lb)	A	B	C	D	E	F	G	H	I	J	K	L	(kg)	(lb)	
3/8 x 6	0.45	992	0.38	0.56	2.28	1.76	17.09	11.09	18.04	12.04	1.13	0.53	2.48	6.10	0.35	0.7716	
1/2 x 6	0.68	1,500	0.47	0.67	2.24	2.13	18.19	12.32	19.29	13.50	1.50	0.83	3.03	6.03	0.65	1.4330	
1/2 x 9	0.68	1,500	0.47	0.67	2.40	2.13	24.10	15.51	25.35	16.65	1.46	0.71	3.00	9.00	0.84	1.8519	
1/2 x 12	0.68	1,500	0.50	0.65	3.51	2.28	31.86	19.86	33.08	21.08	1.41	0.71	3.56	12.00	1.03	2.2700	
5/8 x 6	1.02	2,249	0.63	0.90	4.24	2.81	21.11	15.11	22.61	16.61	1.80	0.88	3.90	6.03	1.35	2.9760	
5/8 x 9	1.02	2,249	0.63	0.90	3.94	2.81	25.90	17.04	27.40	17.04	1.80	0.88	3.90	9.00	1.42	3.1305	
5/8 x 12	1.02	2,249	0.63	0.90	4.23	2.81	33.45	21.45	34.95	22.95	1.80	0.88	4.34	12.39	1.98	4.3651	
3/4 x 6	1.36	2,998	0.75	0.98	5.07	3.33	22.61	16.61	24.45	18.45	2.09	1.00	5.12	6.13	1.91	4.2116	
3/4 x 9	1.36	2,998	0.75	0.98	4.76	3.33	28.07	19.37	29.84	21.02	2.09	1.00	4.69	9.00	2.09	4.6082	
3/4 x 12	1.36	2,998	0.75	0.98	5.04	3.33	35.01	23.01	36.85	24.85	2.09	1.00	5.09	12.59	2.96	6.5267	
1 x 6	2.27	5,003	1.00	1.25	5.71	4.25	24.92	19.49	27.04	21.65	3.00	1.43	6.50	6.00	4.23	9.3242	
1 x 12	2.27	5,003	1.00	1.25	6.56	4.25	37.65	25.65	40.06	28.06	3.00	1.43	6.50	12.18	6.30	13.8881	
1 x 18	2.27	5,003	1.00	1.25	5.83	4.25	48.54	30.90	43.00	33.26	3.00	1.43	6.50	18.00	6.35	13.9991	
1 x 24	2.27	5,003	1.00	1.25	5.53	4.25	60.72	34.74	64.06	38.03	3.00	1.43	6.50	24.00	7.82	17.2369	
1 1/4 x 12	2.95	6,504	1.25	1.53	7.28	4.60	39.17	27.16	41.97	30.11	3.54	1.77	8.49	12.00	8.62	19.0058	
1 1/4 x 18	2.95	6,504	1.25	1.53	7.67	4.60	51.33	33.26	53.97	33.26	3.54	1.77	8.49	18.00	10.43	22.9969	

Dimensions and approximate weights, certified product.
AB = OPEN / CE = CLOSE



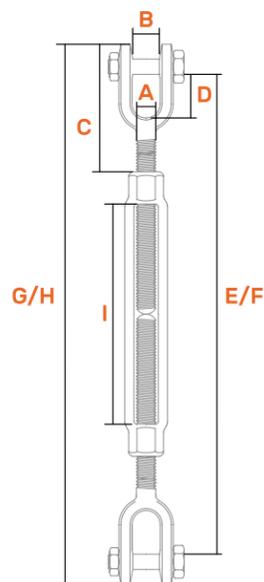


TURNBUCKLE SHACKLE-SHACKLE

CHARACTERISTICS

- Body and end fittings forged from carbon steel with excellent fatigue resistance properties.
- Eye-end fittings are heat-treated and hot-dip galvanized.
- Design factor: 5:1
- Standards: ASME B30.26, Federal FF-T-791B Type 1 Form 1 Class 6, and ASTM F-1145.
- Brand: Gorila®

Ø LENGTH (In)	WLL (t)	WLL (lb)	DIMENSIONS (In)									WEIGHT	
			A	B	C	D	E	F	G	H	I	(kg)	(lb)
5/16 x 4 1/2	0.36	794	0.30	0.47	1.77	0.93	8.46	12.48	13.78	9.37	4.60	0.25	0.551
3/8 x 6	0.54	1.190	0.35	0.47	2.20	0.93	16.25	10.43	17.32	11.60	5.90	0.40	0.882
1/2 x 6	1.00	2.205	0.47	0.71	2.68	1.08	17.44	11.50	18.90	12.92	5.98	0.70	1.543
1/2 x 9	1.00	2.205	0.43	0.63	2.76	1.16	23.35	14.57	24.96	16.14	8.86	0.80	1.764
1/2 x 12	1.00	2.205	0.47	0.63	3.82	1.14	29.53	17.99	31.10	19.30	11.81	1.05	2.315
5/8 x 6	1.59	3.505	0.55	0.67	3.58	1.26	18.10	12.80	20.47	14.80	5.83	1.20	2.646
5/8 x 9	1.59	3.505	0.55	0.73	3.43	1.26	24.68	15.94	26.57	17.83	8.78	1.55	3.417
5/8 x 12	1.59	3.505	0.55	0.79	2.52	1.30	30.05	18.74	32.40	20.67	11.18	1.70	3.747
3/4 x 6	2.36	5.203	0.71	0.94	4.53	1.50	20.63	14.84	22.95	17.17	5.77	1.90	4.189
3/4 x 9	2.36	5.203	0.67	0.87	3.94	1.38	25.59	16.93	27.95	19.29	8.66	2.15	4.739
3/4 x 12	2.36	5.203	0.69	0.91	4.21	1.50	31.61	19.92	33.86	22.44	10.91	2.40	5.290
3/4 x 18	2.36	5.203	0.71	0.90	4.33	1.50	43.70	26.42	46.06	28.74	17.76	3.10	6.834
7/8 x 12	3.27	7.210	0.88	1.16	5.50	1.77	34.65	22.65	37.62	25.62	12.00	4.26	9.390
1 x 6	4.54	10.010	1.00	1.34	6.09	2.05	23.82	17.82	27.18	21.18	6.00	4.73	10.426
1 x 12	4.54	10.010	1.00	1.34	6.09	2.05	35.82	23.82	39.18	27.18	12.00	6.27	13.822
1 x 24	4.54	10.010	1.00	1.34	6.06	2.05	60.42	36.42	63.78	39.78	24.00	9.54	21.043
1 1/4 x 12	6.91	15.230	1.22	1.85	7.48	2.87	37.2	25.3	41.73	29.7	12.00	9.50	20.943
1 1/2 x 12	9.73	21.450	1.50	2.06	8.93	2.81	40.76	28.76	45.68	33.68	12.00	14.82	32.661
1 1/2 x 18	9.73	21.450	1.50	2.06	8.93	2.81	52.76	34.76	57.68	39.68	18.00	17.27	38.080
1 1/2 x 24	9.73	21.450	1.50	2.06	8.93	2.81	65.38	41.38	70.30	46.30	24.00	19.77	43.589
1 3/4 x 18	12.73	28.066	1.75	2.60	9.16	3.35	53.35	35.96	59.16	41.16	18.00	24.32	53.586
2 x 24	16.82	37.073	2.00	2.83	11.81	4.30	60.30	45.87	67.40	52.76	24.00	44.00	97.004
2 1/2 x 24	27.27	60.124	2.50	3.06	13.26	4.44	72.97	48.97	82.18	58.18	24.00	75.90	167.334
2 3/4 x 24	34.09	75.142	2.75	3.69	14.92	4.19	74.75	50.75	85.50	61.50	24.00	90.45	199.523



Dimensions and approximate weights, certified product.
AB = OPEN / CE = CLOSE

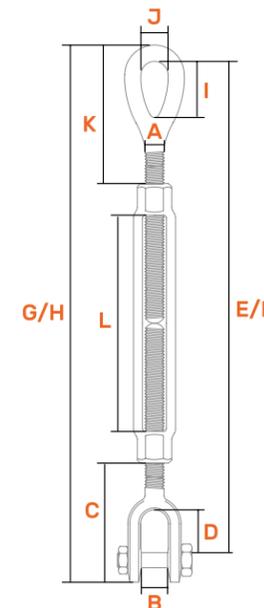


TURNBUCKLE EYE-SHACKLE

CHARACTERISTICS

- Body and end fittings forged from carbon steel with excellent fatigue resistance properties.
- Eye-end fittings are heat-treated and hot-dip galvanized.
- The turnbuckle's oval eyes facilitate the attachment of accessories.
- Design factor: 5:1
- Standards: ASME B30.26, Federal FF-T-791B Type 1 Form 1 Class 6, and ASTM F-1145.
- Brand: Gorila®

Ø LENGTH (In)	WLL (t)	WLL (lb)	DIMENSIONS (In)											WEIGHT		
			A	B	C	D	E	F	G	H	I	J	K	L	(kg)	(lb)
3/8 x 6	0.54	1.190	0.35	0.53	2.28	0.90	16.65	11.10	17.67	11.61	1.10	0.51	2.51	5.90	0.40	0.882
1/2 x 6	1.00	2.205	0.49	0.66	2.75	1.14	18.10	12.24	19.44	13.38	1.53	0.78	3.11	5.90	0.65	1.433
1/2 x 9	1.00	2.205	0.47	0.62	2.87	0.74	23.93	15.35	25.19	16.57	0.62	0.72	2.55	8.85	0.85	1.874
5/8 x 6	1.59	3.505	0.63	0.79	3.90	1.32	20.73	14.73	22.27	16.27	1.80	0.88	4.34	6.00	1.35	2.976
5/8 x 9	1.59	3.505	0.63	0.79	3.89	1.32	27.07	18.07	28.61	19.61	1.80	0.88	4.34	9.00	1.69	3.726
5/8 x 12	1.59	3.505	0.63	0.79	3.89	1.32	33.07	21.07	34.61	22.61	1.80	0.88	4.34	12.00	1.98	4.366
3/4 x 6	2.36	5.203	0.75	0.97	4.71	1.52	22.17	16.17	24.09	18.09	2.09	1.00	5.09	6.00	2.05	4.519
3/4 x 9	2.36	5.203	0.75	0.97	4.68	1.52	28.57	19.57	30.49	21.49	2.09	1.00	5.09	9.00	2.53	5.577
3/4 x 12	2.36	5.203	0.75	0.97	4.68	1.52	34.57	22.57	36.49	24.49	2.09	1.00	5.09	12.00	2.92	6.437
3/4 x 18	2.36	5.203	0.75	0.97	4.71	1.52	46.57	28.57	48.49	30.49	2.09	1.00	4.69	18.00	3.70	8.157
7/8 x 12	3.27	7.210	0.88	1.16	5.50	1.77	35.68	23.65	38.37	25.91	2.38	1.25	5.79	12.00	4.14	9.126
7/8 x 18	3.27	7.210	0.88	1.16	5.50	1.77	48.15	30.15	50.38	32.38	2.38	1.25	5.79	18.00	5.27	11.617
1 x 6	4.54	10.010	1.00	1.34	6.09	2.05	25.03	19.03	27.59	21.59	3.00	1.43	6.50	6.00	4.54	10.009
1 x 12	4.54	10.010	1.00	1.34	6.09	2.05	37.03	25.03	39.59	27.59	3.00	1.43	6.50	12.00	6.09	13.425
1 x 24	4.54	10.010	1.00	1.34	6.09	2.05	61.03	37.03	63.59	39.59	3.00	1.43	6.50	24.00	9.36	20.636
1 1/2 x 12	9.73	21.450	1.50	2.06	8.93	2.81	42.63	30.63	46.31	34.21	4.09	2.12	9.46	12.00	13.90	30.641
1 1/2 x 18	9.73	21.450	1.50	2.06	8.93	2.81	54.50	36.50	58.21	40.21	4.09	2.12	9.46	18.00	16.36	36.072
1 1/2 x 24	9.73	21.450	1.50	2.06	8.93	2.81	67.12	43.12	70.83	46.83	4.09	2.12	9.46	24.00	18.86	41.594



Dimensions and approximate weights, certified product.
AB = OPEN / CE = CLOSE

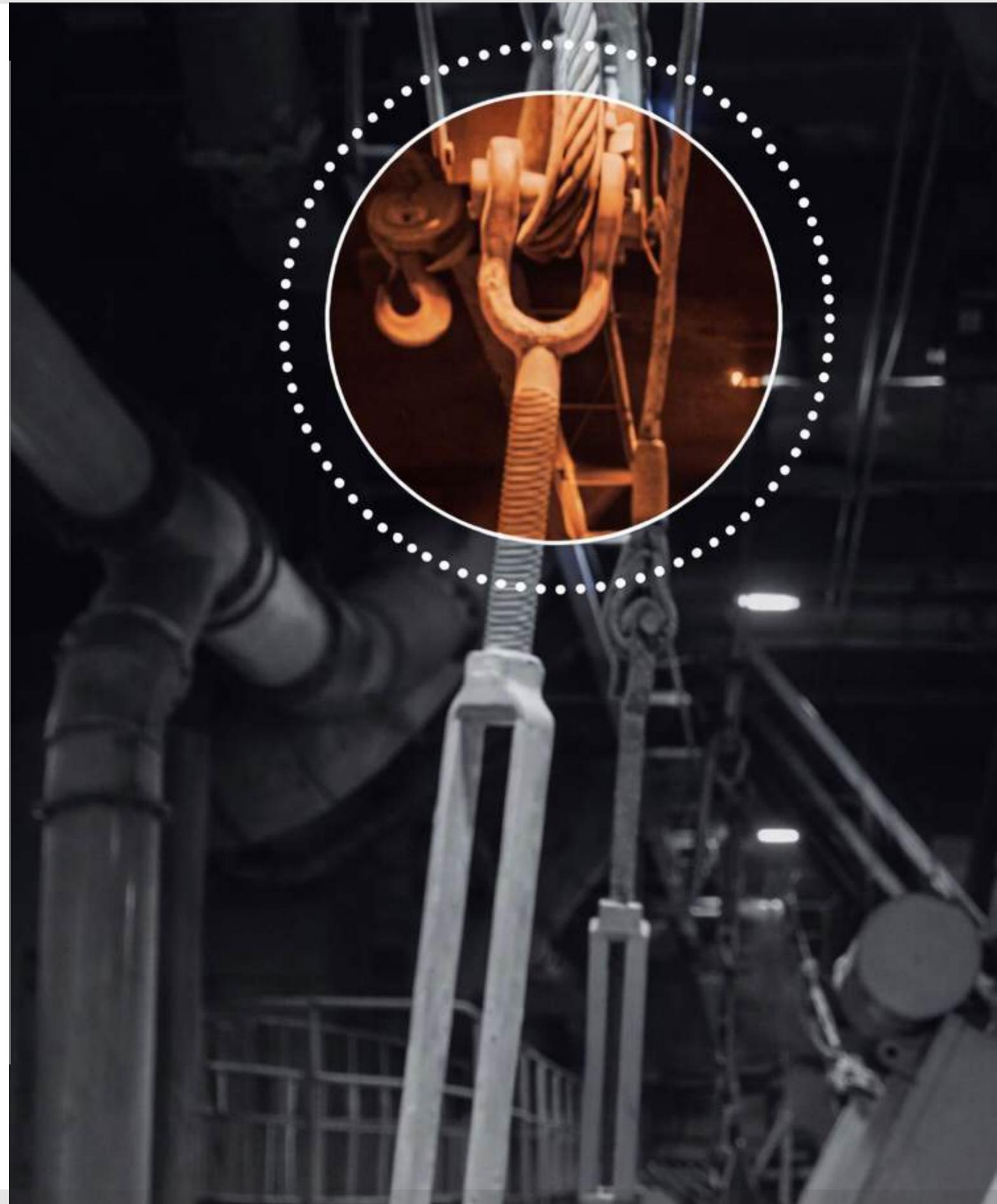
TECHNICAL INFORMATION

- Turnbuckles must only be used for straight-line tension applications.
- When using shackle-shackle turnbuckles, make sure the pin is properly installed and secured.
- All complementary components used in the line of force—such as shackles, hooks, chains, wire ropes, cords, links, etc.—must have equal or superior strength characteristics.
- Inspect products periodically; if cracks, wear, deformation, corrosion, or excessive deterioration are observed, they must be replaced.
- Remember that the loss of the original design can cause stress concentrations, reducing the load capacity for which the product was designed.

Every turnbuckle must be removed from service if any of the following visible conditions are present:

- Cracks, deformations, excessive wear, corrosion, or any bent, broken, or missing parts.
- Illegible identification markings.
- Evidence that the turnbuckle has been altered or modified.
- Corrosion that has significantly affected the structural integrity of the turnbuckle.
- Discoloration indicating exposure to excessive temperatures or welding damage.
- Threads that are deformed, stripped, or excessively worn.

GORILA Turnbuckles comply with or exceed all ASME B30.26 standards, including identification, ductility, design factor, proof load, and testing requirements, as well as additional specifications outlined in FEDERAL FF-T-791 standards.



SWIVELS

They are ideal for preventing twisting during lifting operations when loads are suspended in the air.
Our swivels are made of forged and galvanized steel to prevent oxidation and corrosion.



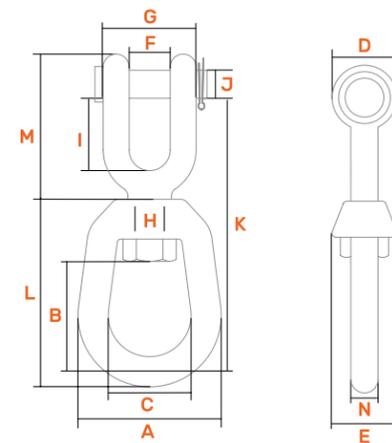
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EYE – SHACKLE SWIVEL

CHARACTERISTICS

- Hot-forged and heat-treated.
- Hot-dip galvanized.
- Design factor: 5:1
- Standards: ASME B30.26 and Federal RR-C-271, Type VII, Class 3.
- Brand: Gorila®



Ø (In)	WLL		DIMENSIONS (In)													WEIGHT	
	(t)	(lb)	A	B	C	D	E	F	G	H	I	J	K	L	M	(kg)	(lb)
1/4	0.39	860	1.34	0.67	0.73	0.79	0.70	0.39	0.94	0.31	0.87	0.24	42.71	0.88	1.65	0.10	0.22
5/16	0.57	1,260	1.65	0.79	0.96	0.83	0.83	0.54	1.18	0.35	0.91	0.31	3.15	0.91	1.73	0.15	0.33
3/8	1.02	2,250	2.01	1.10	1.18	0.98	0.24	0.67	1.46	0.41	1.06	0.39	3.82	1.10	2.17	0.30	0.66
1/2	1.63	3,590	2.56	1.52	1.45	1.26	1.34	0.67	1.69	0.60	1.52	0.51	4.70	1.26	2.63	0.60	1.32
5/8	2.36	5,200	3.00	1.57	1.63	1.57	1.54	0.87	2.09	0.59	1.54	0.63	5.70	1.54	3.19	1.20	2.64
3/4	3.27	7,210	3.50	2.00	1.97	1.77	1.85	1.02	2.56	0.79	1.65	0.75	6.28	4.41	4.30	1.65	3.64

Dimensions and approximate weights, certified product.



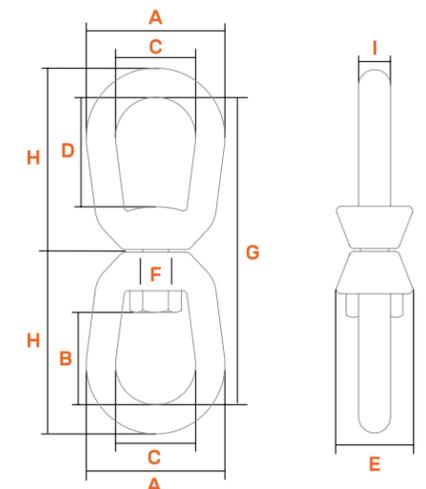
EYE – EYE SWIVEL

CHARACTERISTICS

- Hot-forged and heat-treated.
- Hot-dip galvanized.
- Design factor: 5:1
- Standards: ASME B30.26 and Federal RR-C-271, Type VII, Class 3.
- Brand: Gorila®

Ø (In)	WLL		DIMENSIONS (In)									WEIGHT	
	(t)	(lb)	A	B	C	D	E	F	G	H	(kg)	(lb)	
1/4	0.39	860	1.26	0.63	0.71	0.91	0.71	0.74	2.95	1.71	0.10	0.22	
5/16	0.57	1,260	1.57	0.83	0.96	1.14	0.83	0.39	3.54	2.05	0.15	0.33	
3/8	1.02	2,250	2.04	0.87	1.22	0.96	1.06	0.47	4.33	1.73	0.30	0.66	
1/2	1.63	3,590	2.48	1.30	1.40	2.00	1.30	0.60	5.40	3.15	0.55	1.21	
5/8	2.36	5,200	2.95	1.57	1.65	2.20	1.50	0.71	6.61	3.94	1.15	2.54	
3/4	3.27	7,210	3.07	1.81	1.97	2.49	0.89	0.87	7.30	4.33	1.65	3.64	
7/8	4.54	10,010	3.98	2.13	2.13	2.87	2.13	0.94	8.18	4.95	2.55	5.62	
1	5.86	12,910	4.49	2.20	2.05	3.19	2.28	1.18	9.45	5.67	3.90	8.60	
1 1/4	8.18	18,040	5.53	2.36	3.03	3.66	2.91	1.37	11.02	6.70	7.65	16.87	
1 1/2	20.54	45,270	7.00	4.45	4.06	5.98	3.94	2.20	17.52	10.04	17.80	39.24	

Dimensions and approximate weights, certified product.



STEEL WIRE ROPE ACCESSORIES

BOLT WIRE ROPE CLIPS

Manufactured with a forged, normalized, and hot-dip galvanized base. Wire rope clips are used to secure the ends of a cable and can be either single-base or double-base clips.



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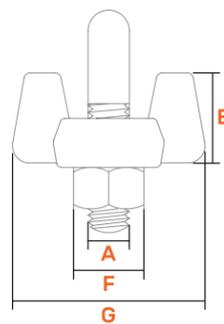
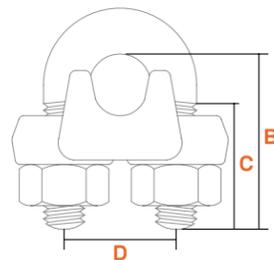


SIMPLE U BOLT WIRE ROPE

CHARACTERISTICS

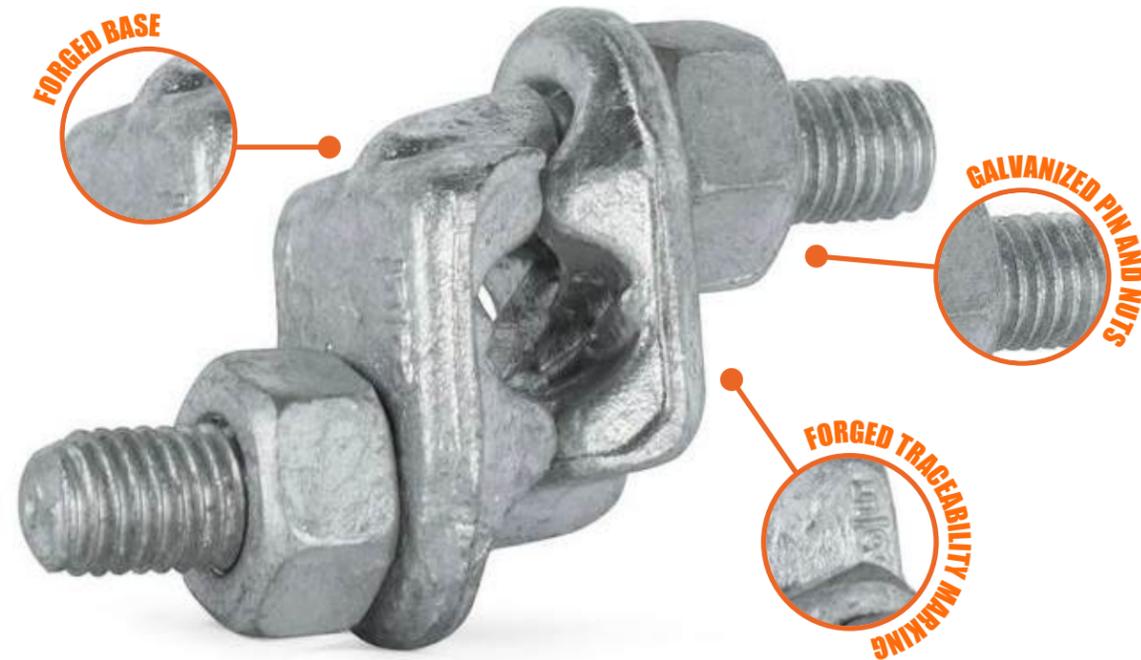
- Forged, normalized, and hot-dip galvanized base.
- Bolt and nut hot-dip galvanized.
- Standards: ASME B30.26 and Federal FF-C-450, Type 1, Class 1.
- Brand: Gorila®

CLIP DIMENSION (In)	MINIMUM CLIP USE X TURNBACK	CABLE TURNBACK (In)	TORQUE (Lbs/Ft)	DIMENSIONS (In)								WEIGHT	
				A	B	C	D	E	F	G	(kg)	(lb)	
1/8	2	1/8	4.5	0.22	0.72	0.44	0.47	0.37	0.38	0.81	0.03	0.07	
3/16	2	3/16	7.5	0.25	0.97	0.56	0.59	0.50	0.44	0.94	0.05	0.11	
1/4	2	1/4	15	0.31	1.03	0.50	0.75	0.66	0.56	1.19	0.09	0.20	
5/16	2	5/16	30	0.38	1.38	0.75	0.88	0.73	0.69	1.31	0.13	0.29	
3/8	2	3/8	45	0.44	1.50	0.75	1.00	0.91	0.75	1.63	0.22	0.49	
7/16	2	7/16	65	0.50	1.88	1.00	1.19	1.13	0.88	1.91	0.35	0.77	
1/2	3	1/2	65	0.50	1.88	1.00	1.19	1.13	0.88	1.91	0.36	0.79	
9/16	3	9/16	95	0.56	2.25	1.25	1.31	1.34	0.94	2.06	0.49	1.08	
5/8	3	5/8	95	0.56	2.25	1.25	1.31	1.34	0.94	2.06	0.50	1.10	
3/4	4	3/4	130	0.62	2.75	1.44	1.50	1.39	1.06	2.25	0.64	1.41	
7/8	4	7/8	225	0.75	3.12	1.62	1.75	1.58	1.25	2.44	0.96	2.12	
1	5	1	225	0.75	3.50	1.81	1.88	1.77	1.25	2.63	1.14	2.51	
1 1/8	6	1 1/8	225	0.75	3.88	2.00	2.00	1.91	1.25	2.81	1.28	2.82	
1 1/4	7	1 1/4	360	0.88	4.44	2.22	2.31	2.17	1.44	3.13	1.99	4.39	
1 3/8	7	1 3/8	360	0.88	4.44	2.22	2.38	2.31	1.44	3.13	2.00	4.41	
1 1/2	8	1 1/2	360	0.88	4.94	2.38	2.59	2.44	1.44	3.41	2.47	5.44	
1 3/4	8	1 3/4	590	1.13	5.75	2.75	3.06	2.92	1.81	3.81	4.24	9.35	
2 1/4	8	2 1/4	750	1.25	7.13	3.19	3.88	3.19	2.00	4.56	7.26	16.00	



Dimensions and approximate weights, certified product.
* From 1/8 to 1/4 hot-dip galvanized by electrolytic immersion.





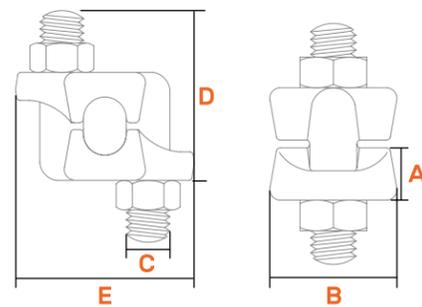
DOUBLE U BOLT WIRE ROPE

CHARACTERISTICS

- Forged, normalized, and hot-dip galvanized base.
- Nuts hot-dip galvanized.
- Standards: ASME B30.26 and Federal FF-C-450, Type 1, Class 1.
- Brand: Gorila®

CLIP DIMENSION (in)	MINIMUM CLIP USE X TURNBACK	CABLE TURNBACK (in)	TORQUE (Lbs/Ft)	DIMENSIONS (in)					WEIGHT	
				A	B	C	D	E	(kg)	(lb)
3/16 - 1/4	2	4 3/4	0.39	0.39	0.96	0.35	1.42	1.46	0.10	0.22
5/16	2	5 1/4	0.43	0.43	1.10	0.35	1.57	1.66	0.15	0.33
3/8	2	6 1/2	0.51	0.51	1.00	0.43	1.85	1.97	0.20	0.44
7/16	2	7	0.59	0.59	1.25	0.50	2.21	2.15	0.45	0.99
1/2	3	11 1/2	0.59	0.59	1.25	0.50	2.21	2.15	0.28	0.62
5/8 - 9/16	3	12	0.44	0.44	1.54	0.61	2.66	2.67	0.50	1.10
3/4	4	18	0.85	0.85	1.83	0.75	3.35	3.00	0.85	1.87
7/8	4	19	0.96	0.96	2.13	0.73	3.54	3.58	1.05	2.31
1	5	26	1.10	1.10	2.26	0.72	3.84	3.66	1.30	2.87

Dimensions and approximate weights, certified product.



IMPORTANT

The efficiency rating of a wire rope splice is based on the breaking strength of the rope. The efficiency factor for eye splices with thimbles, using clips from 1/8" up to 7/8", is approximately 80% only, and for sizes from 1" to 3 1/2", about 90%. The number of clips indicated in the table refers to RRL or RLL ropes, 6X19, 6X36, AF or AA construction.

If the clip is used on Seale construction ropes with large outer wires, similar to 6X9 or larger, use one additional clip. The use of an additional clip should also be considered for rotation-resistant RRL ropes, 8X19, IPS, XIP construction, with a diameter of 1 1/2" or smaller, and for anti-rotation RRL ropes, 19X7, IPS, XIP construction, with a diameter of 1 3/4" or smaller.

For maximum torque performance when tightening nuts, it is recommended to clean and lubricate threads on any clip model.



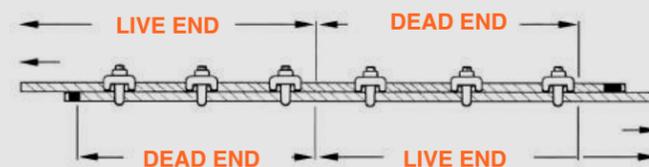
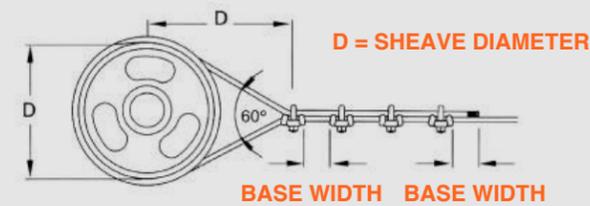
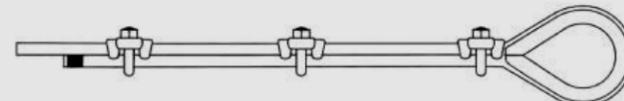
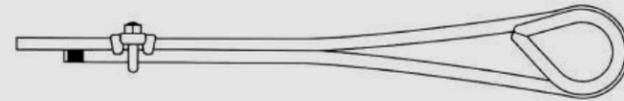
WARNING



- Read and follow all instructions carefully. Failure to do so may result in serious property damage, personal injury, or even death.
- Use the clip size that matches the rope diameter.
- Do not use clips on plastic-coated wire ropes; remove the coating before installation.
- Use the number of clips recommended in this catalog. Apply the recommended torque and periodically recheck the nut tightness.
- Do not install clips with worn threads. Inspect torque regularly.
- Stay clear of the load line while under tension.

SIMPLE U BOLT WIRE ROPE

- Install the clip base on the live end of the wire rope, and position the U-bolt on the dead end of the rope.
- Bend the corresponding section of the rope, place the first clip at the end of the dead end, and apply the recommended torque.
- Install the second clip as close as possible to the thimble (if applicable) and lightly tighten the nuts without reaching final torque.
- Space the remaining clips evenly as indicated. Before applying final torque, apply slight tension to the rope.
- If a pulley is used instead of a thimble, add one additional clip. Make sure the spacing between clips is uniform.
- Splice two sections of rope using thimble eyes.
- When splicing two parallel rope sections, the overlap must be twice the rope length used for a thimble splice. The clip base must be installed on the live end, as shown in the illustration.

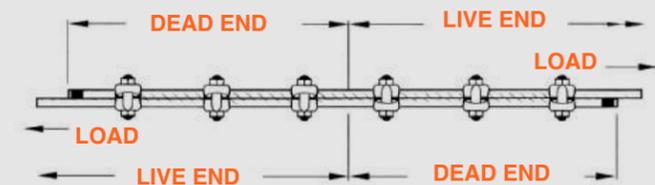
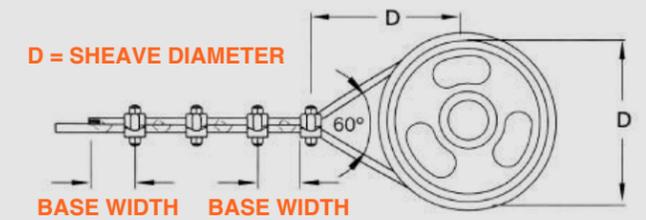
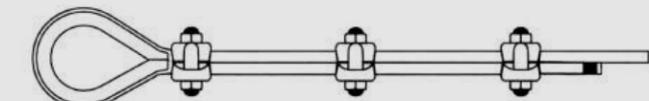


If a greater number of clips than indicated in the table is used, the turnback length must be increased in the same proportion.

The torque values indicated in the table are based on clean, dry ropes, free of grease and lubrication.

DOUBLE U BOLT WIRE ROPE

- Match the clip bases with the live and dead ends of the wire rope. Bend the appropriate section of the rope, place the first clip at the end of the dead end, and apply the recommended torque.
- Install the second clip as close as possible to the thimble (if applicable). Apply slight tension to the rope, but do not tighten to final torque.
- Space the remaining clips evenly as indicated. Before applying the final torque, apply slight tension to the rope.
- The eye connection using a pulley is similar to the standard clip application. One additional clip must be added.
- Splice two sections of rope using thimble eyes.
- When splicing two parallel rope sections, the overlap must be twice the rope length used for a thimble splice. The clip base must be installed on the live end, as shown in the illustration.



STEEL WIRE ROPE ACCESSORIES

SOCKETS

Sockets are used to provide a connection point at the end of the wire rope. These products can be used at the termination of a crane rope, as well as in installations with steel wire ropes in structural applications such as buildings, bridges, and highways. They must always be used with steel wire ropes that contain a steel core.



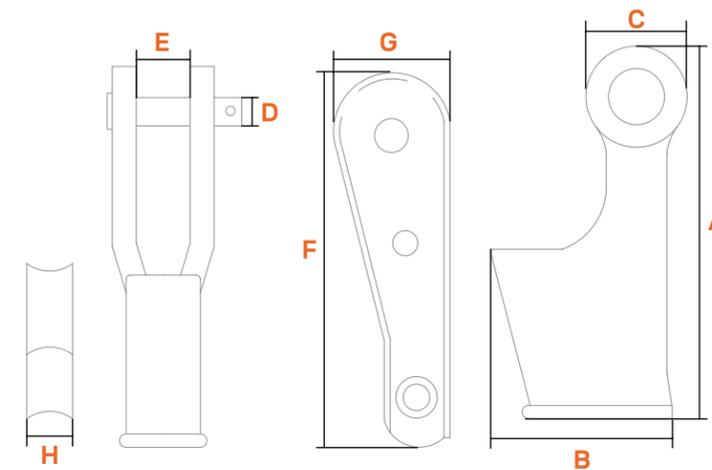
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UTILITY WEDGE SOCKET

CHARACTERISTICS

- Steel cast body, normalized and inspected by liquid penetrant testing.
- CNC machined pin.
- Easy installation, no pilot rope required.
- Standards: ASME B30.26, Federal RRS-550D Type C, ABS Certification 2006, 1-1-17.7, and ABS Guide for Crane Certification.
- Brand: Gorila®

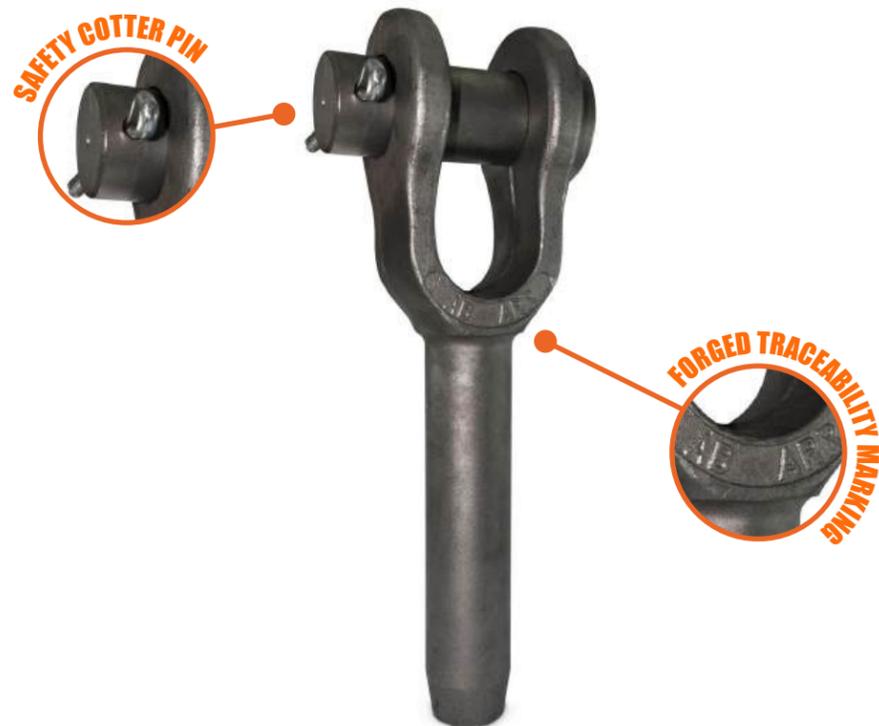


Ø CABLE (In)	DIMENSIONS (mm)								WEIGHT (Kg)
	A	B	C	D	E	F	G	H	
3/8	150	81	46	20.5	21	75	36	12	1.4
1/2	177	107	56	25.5	28	110	48	15	2.6
5/8	215	128	66	30	34	136	59	20	4
3/4	259	149	75	35	41	115	60	20	5.8
7/8	298	166	90	41.5	44	172	65	22	11
1	325	181	110	50.5	51	182	83	26	13.5
1 1/8	370	205	112	57	56	200	90	30	20.5
1 1/4	410	225	126	63.5	65	220	97	33	28.5
1 3/8	480	264	156	63.5	70	250	114	40	40
1 1/2	520	285	165	70	75	294	128	44	49
1 5/8	618	310	176	76	76	310	124	45	71

Dimensions and approximate weights, certified product.

Ø CABLE (In)	DIMENSIONS (In)								WEIGHT (lb)
	A	B	C	D	E	F	G	H	
3/8	5.91	3.19	1.81	0.81	0.83	2.95	1.42	0.47	3.09
1/2	6.97	4.21	2.20	1.00	1.10	4.33	1.89	0.59	5.73
5/8	8.46	5.04	2.60	1.18	1.34	5.12	2.32	0.79	8.82
3/4	10.20	5.87	2.95	1.38	1.61	4.53	2.36	0.79	12.79
7/8	11.73	6.54	3.54	1.63	1.73	6.77	2.56	0.87	24.25
1	12.80	7.13	4.33	1.99	2.01	7.17	3.27	1.02	29.76
1 1/8	14.57	8.07	4.49	2.24	2.20	7.87	3.54	1.18	45.19
1 1/4	16.14	8.86	4.96	2.50	2.48	7.87	3.82	1.30	62.83
1 3/8	18.90	10.39	6.14	2.50	2.76	9.84	4.49	1.57	88.18
1 1/2	20.47	11.22	6.50	2.95	2.95	11.57	5.04	1.73	108.03
1 5/8	24.33	12.20	6.93	2.99	2.99	12.20	4.88	1.77	156.53

Dimensions and approximate weights, certified product.



OPEN SWAGE SOCKET

CHARACTERISTICS

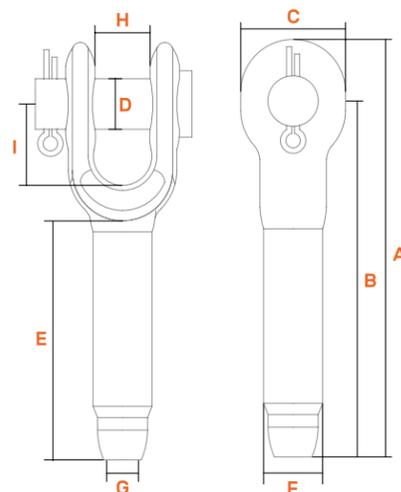
- Hot-forged carbon steel, cold-pressed, heat-treated, and normalized.
- Terminal brace with 100% efficiency.
- Must only be used with steel wire ropes with a steel core, such as 6x7, 6x19, 6x37, or 6x41.
- Standards: ASME B30.26 and Federal RRSS-550D Type A.
- Brand: Gorila®

Ø CABLE (In)	DIMENSIONS (mm)									WEIGHT (Kg)
	A	B	C	D	E	F	G	H	I	
1	393	340	94	50,5	215	50,3	27	50	69	8
1 1/8	440	381	103	57	243	57	30	57	79	12
1 1/4	485	420	115	63,5	270	64,3	34	64	88	16
1 3/8	512	447	115	63,5	295	71	37	64	88	18
1 1/2	586	506	140	70	325	78,3	40,5	77	111	26

Dimensions and approximate weights, certified product.

Ø CABLE (In)	DIMENSIONS (In)									WEIGHT (lb)
	A	B	C	D	E	F	G	H	I	
1	15.47	13.39	3.70	1.99	8.46	1.98	1.06	1.97	2.72	17.64
1 1/8	17.32	15.00	4.06	2.24	9.57	2.24	1.18	2.24	3.11	26.46
1 1/4	19.09	16.54	4.53	2.50	10.63	2.53	1.34	2.52	3.46	35.27
1 3/8	20.16	17.60	4.53	2.50	11.61	2.80	1.46	2.52	3.46	39.68
1 1/2	23.07	19.92	5.51	2.76	12.80	3.08	1.59	3.03	4.37	57.32

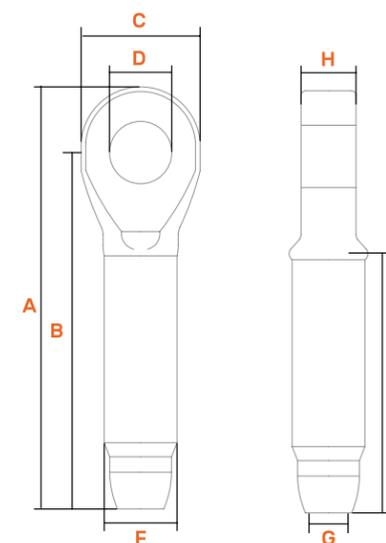
Dimensions and approximate weights, certified product.



CLOSED SWAGED SOCKET

CHARACTERISTICS

- Hot-forged carbon steel, cold-pressed, heat-treated, and normalized.
- Terminal brace with 100% efficiency.
- Must only be used with steel wire ropes with a steel core, such as 6x7, 6x19, 6x37, or 6x41.
- Standards: ASME B30.26 and Federal RRSS-550D Type B.
- Brand: Gorila®



- Hot-forged carbon steel, cold-pressed, heat-treated, and normalized.
- Terminal brace with 100% efficiency.
- Must only be used with steel wire ropes with a steel core, such as 6x7, 6x19, 6x37, or 6x41.
- Standards: ASME B30.26 and Federal RRSS-550D Type B.
- Brand: Gorila®

Ø CABLE (In)	DIMENSIONS (mm)								WEIGHT (Kg)
	A	B	C	D	E	F	G	H	
1/2	175.5	146.1	50.8	26.9	108	24.9	14	21.8	0.6
4/7	220	184.2	60.5	31.8	134.9	31.8	15.5	28.7	1.3
5/8	220	184.2	60.5	31.8	134.9	31.8	17	28.7	1.3
1	345	293	93	52	215	50.3	27	43	5
1 1/8	382	324	102	58.5	243	57	30	51	7
1 1/4	431	366	115	65	270	64.3	34	57	11
1 3/8	458	393	115	65	295	71	37	57	13
1 1/2	511	432	140	72	325	78.3	40.5	65	17

Dimensions and approximate weights, certified product.

Ø CABLE (In)	DIMENSIONS (In)								WEIGHT (lb)
	A	B	C	D	E	F	G	H	
1/2	6.91	5.75	2.00	1.06	4.25	0.98	0.55	0.86	1.32
4/7	8.66	7.25	2.39	1.25	5.31	1.25	0.61	1.13	2.87
5/8	8.66	7.25	2.39	1.25	5.31	1.25	0.67	1.13	2.87
1	13.58	11.54	3.66	2.05	8.46	1.98	1.06	1.69	11.02
1 1/8	15.04	12.76	4.02	2.30	9.57	2.24	1.18	2.01	15.43
1 1/4	16.97	14.41	4.53	2.56	10.63	2.53	1.34	2.24	24.25
1 3/8	18.03	15.47	4.53	2.56	11.61	2.80	1.46	2.24	28.66
1 1/2	20.12	17.01	5.51	2.83	12.80	3.08	1.59	2.56	37.48

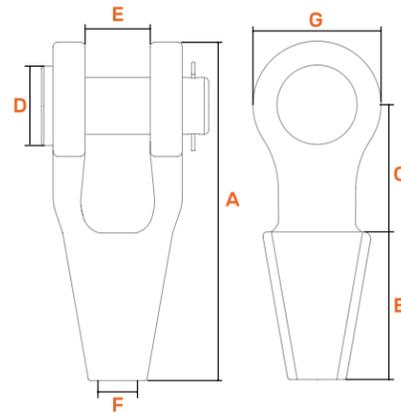
Dimensions and approximate weights, certified product.



OPEN SPELTER SOCKET

CHARACTERISTICS

- Hot-forged carbon steel, cold-pressed, heat-treated, and normalized.
- Terminal brace with 100% efficiency.
- Must only be used with steel wire ropes with a steel core, such as 6x7, 6x19, 6x37, or 6x41.
- Standards: ASME B30.26 and Federal RRSS-550D Type A.
- Brand: Gorila®

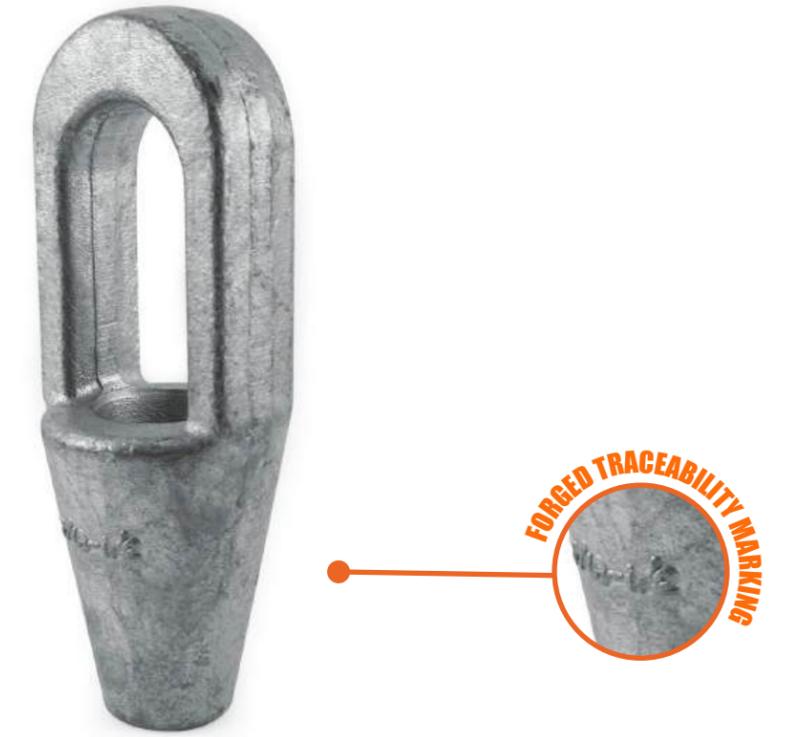


Ø CABLE (In)	DIMENSIONS (mm)							WEIGHT (Kg)
	A	B	C	D	E	F	G	
5/16 - 3/8	113.8	57.2	44.5	20.6	20.6	12.7	38.1	0.6
7/16 - 1/2	141.2	63.5	50.8	25.4	25.4	14.2	47.8	1
9/16 - 5/8	171.5	76.2	63.5	30.2	31.8	17.5	57.2	1.6
3/4	201.7	88.9	76.2	35.1	38.1	20.6	66.5	2.6
7/8	235	101.6	88.9	41.4	44.5	23.9	79.5	4.4
1	268.2	114.3	101.6	50.8	50.8	28.7	95.3	7
1 1/8	300	127	117.3	57.2	57.2	31.8	104.6	9.8
1 1/4 - 1 3/8	335	139.7	127	63.5	63.5	38.1	120.7	14.1
1 1/2	384	152.4	152.4	69.9	76.2	41.4	136.7	21.4
1 5/8	412.8	165.1	165.1	76.2	76.2	44.5	146.1	24.9
1 3/4 - 1 7/8	463.6	190.5	177.8	88.9	88.9	50.8	165.1	37.2
2 - 2 1/8	546.1	215.9	228.6	95.3	101.6	57.2	177.8	58.1
2 1/4 - 2 3/8	596.9	228.6	254	108	114.3	63.5	196.9	75.7
2 1/2 - 2 5/8	647.7	247.7	273	120.7	127	73.2	215.9	114.3
2 3/4 - 2 7/8	692.2	279.4	279.4	127	133.4	79.2	228.6	142.9
3 - 3 1/8	736.6	304.8	285.8	133.4	146.1	85.9	241.3	172.4

Dimensions and approximate weights, certified product.

Ø CABLE (In)	DIMENSIONS (In)							WEIGHT (lb)
	A	B	C	D	E	F	G	
5/16 - 3/8	4.48	2.25	1.75	0.81	0.81	0.50	1.50	1.32
7/16 - 1/2	5.56	2.50	2.00	1.00	1.00	0.56	1.88	2.20
9/16 - 5/8	6.75	3.00	2.50	1.19	1.25	0.69	2.25	3.53
3/4	7.94	3.50	3.00	1.38	1.50	0.81	2.60	5.73
7/8	9.25	4.00	3.50	1.63	1.75	0.94	3.11	9.70
1	10.56	4.50	4.00	2.00	2.00	1.13	3.74	15.43
1 1/8	11.81	5.00	4.63	2.24	2.24	1.25	4.12	21.61
1 1/4 - 1 3/8	13.19	5.50	5.00	2.50	2.50	1.50	4.75	31.08
1 1/2	15.12	6.00	6.00	2.75	3.00	1.63	5.37	47.18
1 5/8	16.24	6.50	6.50	3.00	3.00	1.75	5.75	54.91
1 3/4 - 1 7/8	18.23	7.50	7.00	3.50	3.50	2.00	6.50	81.79
2 - 2 1/8	21.50	8.50	9.00	3.74	4.00	2.25	7.00	127.87
2 1/4 - 2 3/8	23.50	9.00	10.00	4.25	4.50	2.50	7.75	166.45
2 1/2 - 2 5/8	25.50	9.75	10.75	4.75	5.00	2.88	8.50	251.57
2 3/4 - 2 7/8	27.24	11.00	11.00	5.00	5.25	3.13	9.00	314.43
3 - 3 1/8	28.98	12.00	11.25	5.25	5.75	3.38	9.50	379.75

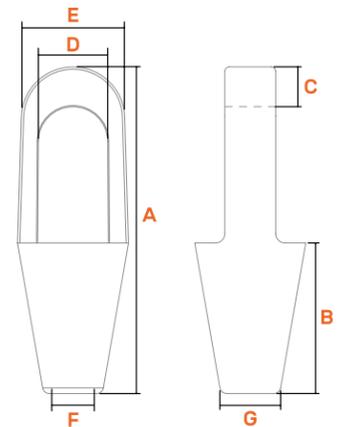
Dimensions and approximate weights, certified product.



CLOSED SPELTER SOCKET

CHARACTERISTICS

- Hot-forged carbon steel, cold-pressed, heat-treated and normalized.
- Terminal brace with 100% efficiency.
- Must only be used with steel wire ropes with a steel core, such as 6x7, 6x19, 6x37, or 6x41.
- Standards: ASME B30.26 and Federal RRSS-550D Type B.
- Brand: Gorila®



Ø CABLE (In)	DIMENSIONS (mm)							WEIGHT (Kg)
	A	B	C	D	E	F	G	
7/16 - 1/2	138	63.5	17.5	29.5	50.8	14.2	22.4	0.7
9/16 - 5/8	163	79	20.5	35	67	18	25.5	1.1
3/4	194	90	27	42	76	18	25.5	1.9
7/8	227	106	35.5	47.5	92	25	38	3.3
1	250	112	35	58	104	29	44.5	4.8
1 1/8	284.5	133	39.5	63.5	114.5	32	51	6.5
1 1/4 - 1 3/8	315	146	45	70	127	38.5	57	9
1 1/2	354	150	49.5	81	157.5	42	60	13.2
1 5/8	384	165	54	82.5	146	44.5	70	16.3
1 3/4 - 1 7/8	438	190.5	55.5	95	171.5	51	76	26
2 - 2 1/8	495.5	216	62	111	194	57	82	36
2 1/4 - 2 3/8	536.5	228.5	67	127	216	63.5	82.5	48
2 1/2 - 2 5/8	597	247.5	79	139.5	241.5	73	101.5	64
2 3/4 - 2 7/8	644.5	279.5	79	158.5	273	79	124	100
3 - 3 1/8	686	305	82.5	171.5	292	86	133.5	125

Dimensions and approximate weights, certified product.

Ø CABLE (In)	DIMENSIONS (In)							WEIGHT (lb)
	A	B	C	D	E	F	G	
7/16 - 1/2	5.43	2.50	0.69	1.16	2.00	0.56	0.88	1.54
9/16 - 5/8	6.42	2.48	0.81	1.38	2.64	0.71	1.00	2.43
3/4	7.64	3.54	1.06	1.65	2.99	0.71	1.00	4.19
7/8	8.94	4.17	1.39	1.87	3.62	0.93	1.50	7.28
1	9.84	4.41	1.38	2.28	4.09	1.26	1.75	10.58
1 1/8	11.20	5.24	1.56	2.50	4.50	1.26	2.01	14.33
1 1/4 - 1 3/8	12.40	5.75	1.73	2.76	5.00	1.50	2.24	19.84
1 1/2	13.94	5.91	1.95	3.19	6.20	1.63	2.36	29.10
1 5/8	15.12	6.50	2.13	3.25	5.75	1.75	2.76	35.94
1 3/4 - 1 7/8	17.24	7.50	2.19	3.75	6.73	2.01	3.07	57.32
2 - 2 1/8	19.51	8.50	2.36	3.78	7.60	2.36	3.23	79.37
2 1/4 - 2 3/8	21.13	9.00	2.68	5.00	9.50	2.48	3.25	105.82
2 1/2 - 2 5/8	23.50	9.75	3.03	5.35	9.49	2.87	3.99	141.09
2 3/4 - 2 7/8	25.37	10.98	3.11	6.24	10.75	3.11	4.88	220.46
3 - 3 1/8	27.01	12.00	3.23	7.09	11.50	3.39	5.26	275.58

Dimensions and approximate weights, certified product.

WIRE ROPE THIMBLE

An essential component in the assembly of wire rope slings. The thimble is installed in the eye of the sling to protect the contact area from wear, friction, and cutting, preventing deformations that could compromise the safety of the operation.

Its design maintains the shape of the eye, extends the service life of the wire rope, and ensures reliable performance in lifting, lashing, and load-handling applications.

The thimble may seem like a small detail, but it makes the difference between a safe job and one exposed to premature failure.



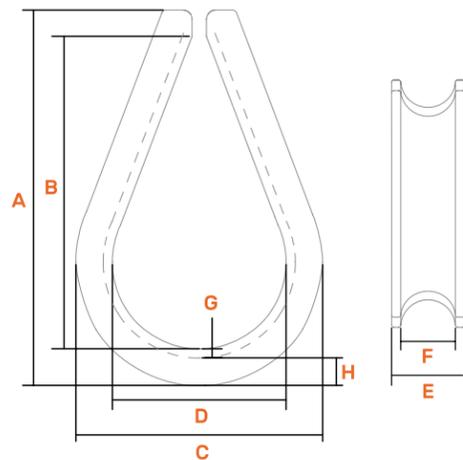
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WIRE ROPE THIMBLE

CHARACTERISTICS

- Cold-stamped low carbon steel.
- Hot-dip galvanized finish.
- Protects against deformation of the wire rope eye.
- Recommended for applications and environments with moderate corrosion and heavy loads.
- Standards: Federal FF-T-276B, Type III.
- Brand: Gorila®



Ø CABLE (In)	DIMENSIONS (mm)								WEIGHT (Kg)
	A	B	C	D	E	F	G	H	
1/4	2.19	1.63	1.50	0.88	0.41	0.28	0.06	0.23	0.03
5/16	2.50	1.88	1.81	1.06	0.50	0.34	0.08	0.28	0.05
3/8	2.88	2.12	2.12	1.12	0.63	0.41	0.11	0.39	0.10
7/16	3.25	2.38	2.38	1.25	0.72	0.47	0.12	0.45	0.16
1/2 - 9/16	3.63	2.75	2.75	1.50	0.89	0.59	0.15	0.48	0.23
5/8	4.25	3.25	3.12	1.75	1.00	0.66	0.16	0.53	0.34
3/4	5.00	3.75	3.81	2.00	1.22	0.78	0.22	0.69	0.72
7/8	5.50	4.25	4.25	2.25	1.38	0.94	0.22	0.78	0.81
1	6.12	4.50	4.75	2.50	1.56	1.06	0.25	0.88	1.43
1 1/8 - 1 1/4	7.00	5.12	5.88	2.88	1.81	1.31	0.25	1.25	1.82
1 1/4 - 1 3/8	9.08	6.50	6.81	3.50	2.25	1.44	0.37	1.29	4.03
1 3/8 - 1 1/2	9.00	6.25	7.12	3.50	2.62	1.56	0.50	1.13	5.88
1 3/4	12.19	9.00	8.50	4.50	3.06	1.84	0.50	1.50	8.06
1 7/8 - 2	15.12	12.00	10.38	6.00	3.88	2.09	0.50	1.69	12.59
2 1/4	17.50	14.00	11.88	7.00	3.88	2.38	0.62	1.62	17.92
2 1/2	17.50	14.57	12.80	7.00	4.33	3.15	0.79	2.24	27.90
3	21.26	14.57	12.99	7.00	4.92	3.54	0.79	2.56	34.15

Dimensions and approximate weights, certified product.

Ø CABLE (In)	DIMENSIONS (In)								WEIGHT (lb)
	A	B	C	D	E	F	G	H	
1/4	0.086	0.064	0.059	0.035	0.016	0.011	0.002	0.009	0.07
5/16	0.098	0.074	0.071	0.042	0.020	0.013	0.003	0.011	0.11
3/8	0.113	0.083	0.083	0.044	0.025	0.016	0.004	0.015	0.22
7/16	0.128	0.094	0.094	0.049	0.028	0.019	0.005	0.018	0.35
1/2 - 9/16	0.143	0.108	0.108	0.059	0.035	0.023	0.006	0.019	0.51
5/8	0.167	0.128	0.123	0.069	0.039	0.026	0.006	0.021	0.75
3/4	0.197	0.148	0.150	0.079	0.048	0.031	0.009	0.027	1.59
7/8	0.217	0.167	0.167	0.089	0.054	0.037	0.009	0.031	1.79
1	0.241	0.177	0.187	0.098	0.061	0.042	0.010	0.035	3.15
1 1/8 - 1 1/4	0.276	0.202	0.231	0.113	0.071	0.052	0.010	0.049	4.01
1 1/4 - 1 3/8	0.357	0.256	0.268	0.138	0.089	0.057	0.015	0.051	8.89
1 3/8 - 1 1/2	0.354	0.246	0.280	0.138	0.103	0.061	0.020	0.044	12.97
1 3/4	0.480	0.354	0.335	0.177	0.120	0.072	0.020	0.059	17.78
1 7/8 - 2	0.595	0.472	0.409	0.236	0.153	0.082	0.020	0.067	27.75
2 1/4	0.689	0.551	0.468	0.276	0.153	0.094	0.024	0.064	39.57
2 1/2	0.689	0.573	0.504	0.276	0.171	0.124	0.031	0.088	61.55
3	0.837	0.573	0.511	0.276	0.194	0.139	0.031	0.101	75.29

Dimensions and approximate weights, certified product.

EQUIPMENTS



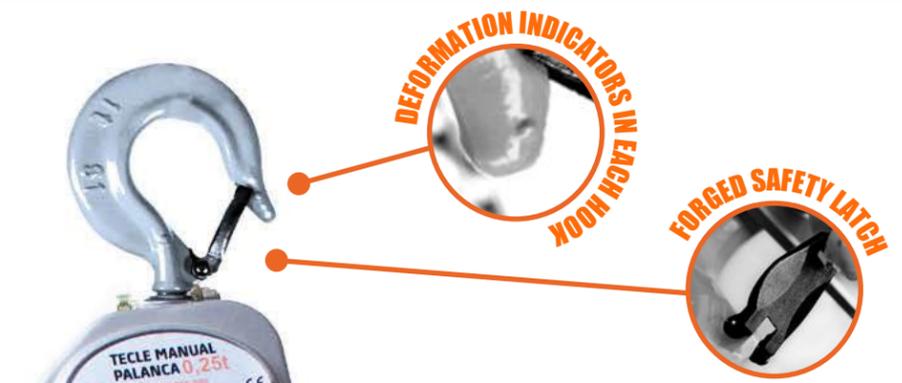
LEVER HOISTS

- Lever hoists are essential equipment for assembly and rigging operations.
- They are ideal for lifting, transferring, and positioning very heavy loads.
- Lever hoists have the advantage of being operable from virtually any position, thanks to the lever mechanism that allows fast and efficient handling.



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CHARACTERISTICS

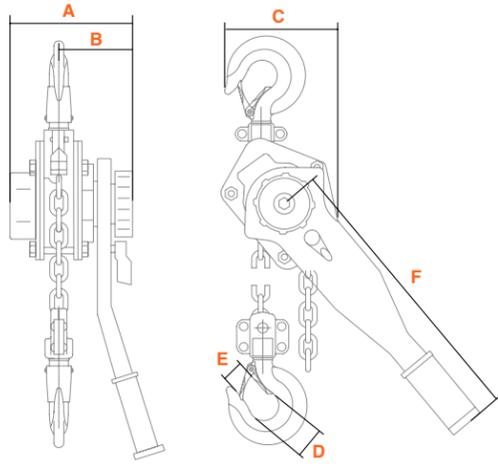
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- 360° swivel hooks.
- Aluminum body, gear cover, and lever arm.
- Gear system mounted on bearings.
- Standard lifting height: 1.5 meters.
- Grade 80 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Tag with unique traceability code.
- Meets or exceeds EN 818-7, EN 13157, and ASME B30.21 standards.
- Safety factor: 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
0,25	88	57	73	32	20	147	1,5

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (In)						WEIGHT Lb
	A	B	C	D	E	F	
550	3.46	2.24	2.87	1.26	0.79	5.79	3.31

Dimensions and approximate weights, certified product.



LEVER HOIST 0,25T



CHARACTERISTICS

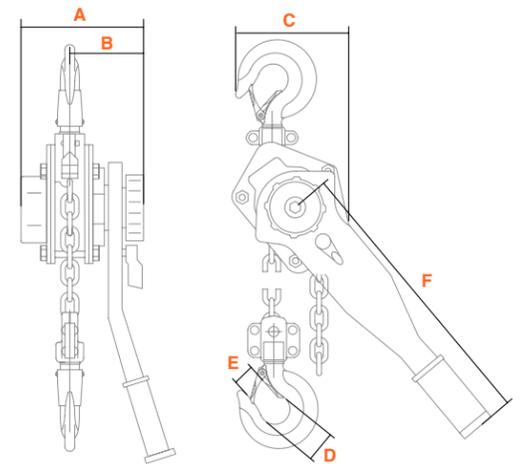
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- 360° swivel hooks.
- Aluminum body, gear cover, and lever arm.
- Gear system mounted on bearings.
- Standard lifting height: 1.5 meters.
- Grade 80 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Tag with unique traceability code.
- Meets or exceeds EN 818-7, EN 13157, and ASME B30.21 standards.
- Safety factor: 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
0,5	114	78	96	35	22	268	4,3
0,75	153	93	110	40	24	285	7,3
1	165	100	113	43	27	342	9,2

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (In)						WEIGHT lb
	A	B	C	D	E	F	
1100	4.49	3.07	3.78	1.38	0.87	10.55	9.48
1650	6.02	3.66	4.33	1.57	0.94	11.22	16.09
2200	6.50	3.94	4.45	1.69	1.06	13.46	20.28

Dimensions and approximate weights, certified product.



LEVER HOIST 0,5T - 0,75T - 1



CHARACTERISTICS

- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- 360° swivel hooks.
- Aluminum body, gear cover, and lever arm.
- Gear system mounted on bearings.
- Standard lifting height: 1.5 meters.
- Grade 80 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Tag with unique traceability code.
- Meets or exceeds EN 818-7, EN 13157, and ASME B30.21 standards.
- Safety factor: 4:1
- Brand: Gorila®

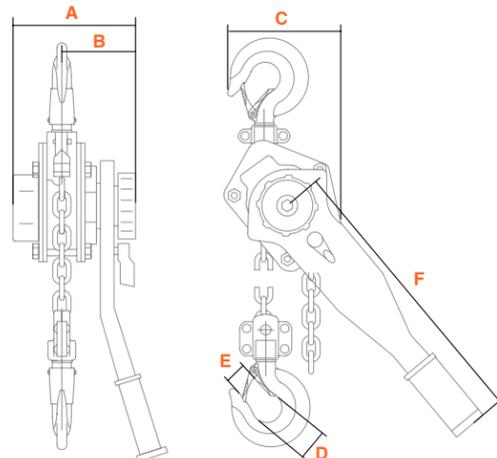
WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
1,5	183	107	123	45	29	417	11,9

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (In)						WEIGHT Lb
	A	B	C	D	E	F	
3,300	7.20	4.21	4.84	1.77	1.14	16.42	26.24

Dimensions and approximate weights, certified product.

PULL RING



LEVER HOIST 1,5T



CHARACTERISTICS

- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- 360° swivel hooks.
- Aluminum body, gear cover, and lever arm.
- Gear system mounted on bearings.
- Standard lifting height: 1.5 meters.
- Grade 80 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Tag with unique traceability code.
- Meets or exceeds EN 818-7, EN 13157, and ASME B30.21 standards.
- Safety factor: 4:1
- Brand: Gorila®

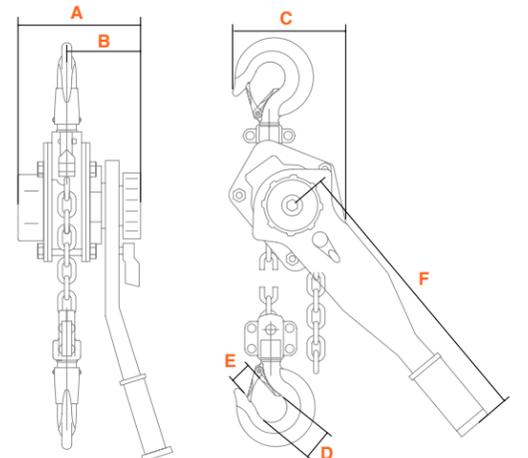
WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
3	200	113	167	54	40	419	19,4

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (In)						WEIGHT Lb
	A	B	C	D	E	F	
6,600	7.87	4.45	6.57	2.13	1.57	16.50	42.77

Dimensions and approximate weights, certified product.

PULL RING



LEVER HOIST 3T



CHARACTERISTICS

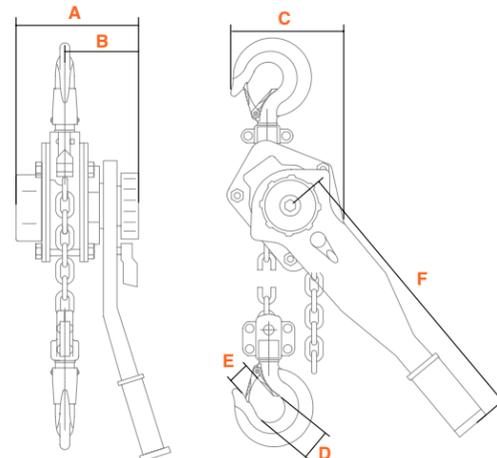
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- 360° swivel hooks.
- Aluminum body, gear cover, and lever arm.
- Gear system mounted on bearings.
- Standard lifting height: 1.5 meters.
- Grade 80 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Tag with unique traceability code.
- Meets or exceeds EN 818-7, EN 13157, and ASME B30.21 standards.
- Safety factor: 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
6	197	110	217	66	45	417	28,9

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (In)						WEIGHT Lb
	A	B	C	D	E	F	
13,200	7.76	4.33	8.54	2.60	1.77	16.42	63.71

Dimensions and approximate weights, certified product.



LEVER HOIST 6T



CHARACTERISTICS

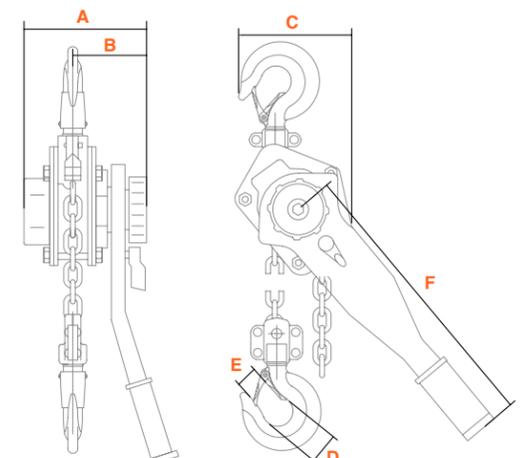
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- 360° swivel hooks.
- Aluminum body, gear cover, and lever arm.
- Gear system mounted on bearings.
- Standard lifting height: 1.5 meters.
- Grade 80 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Tag with unique traceability code.
- Meets or exceeds EN 818-7, EN 13157, and ASME B30.21 standards.
- Safety factor: 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
9	198	111	334	83	48	419	40,5

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (In)						WEIGHT Lb
	A	B	C	D	E	F	
19,800	7.80	4.37	13.15	3.27	1.89	16.50	89.29

Dimensions and approximate weights, certified product.



LEVER HOIST 9T

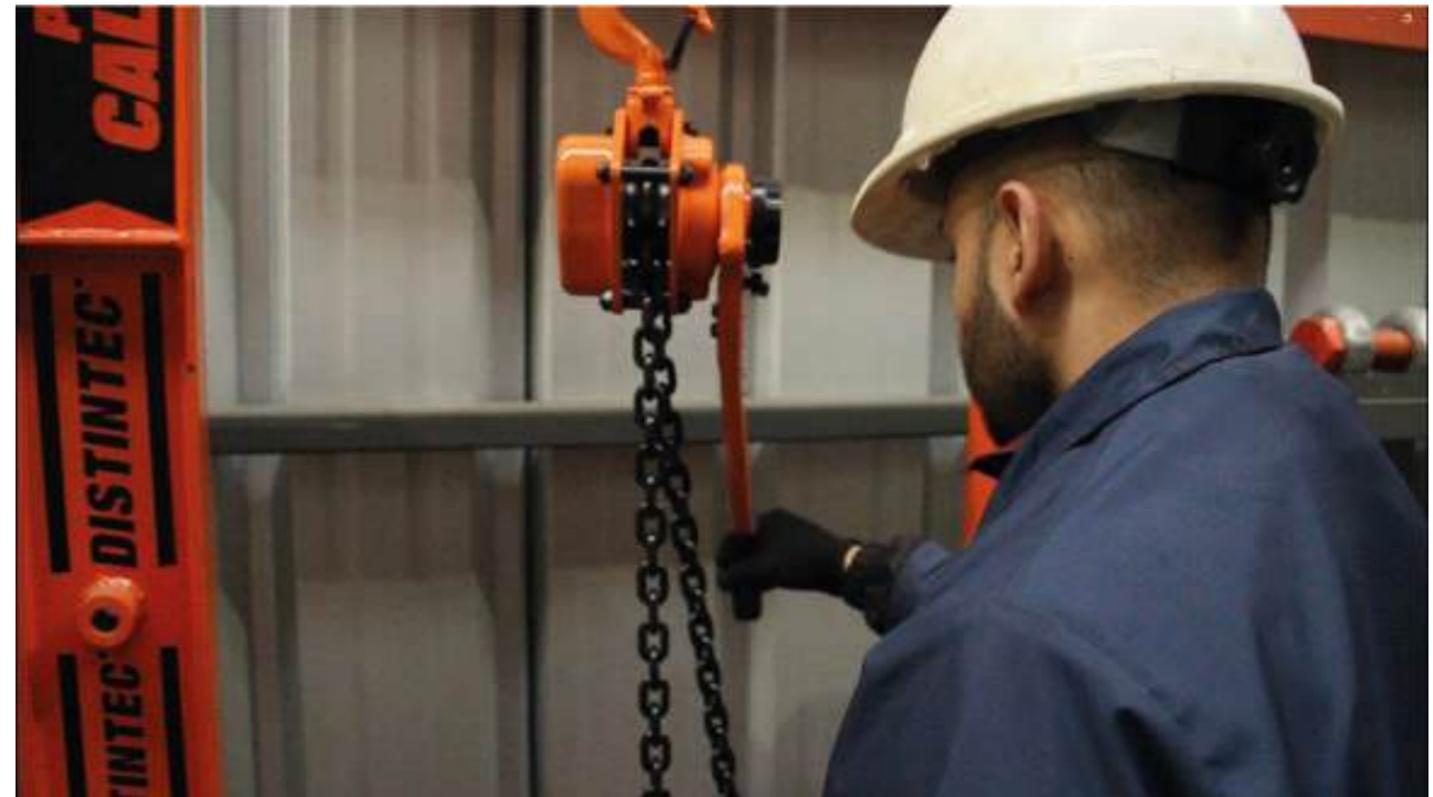
PRECAUTIONS

- Do not exceed the rated working load limit of the equipment.
- It is recommended to operate with at least 10% of the nominal working load.
- The lever hoist must only be operated by a competent person.
- Lever hoists are not designed and must not be used to lift, support, or transport people, nor to lift or support loads above people.
- Any alterations to the equipment for increased use, capacity, or any other modification may only be authorized by the manufacturer.
- If the hoist is complemented on the lower hook with a lifting device or sling, consult ANSI/ASME B30.9 “Safety Standard for Slings” or ANSI/ASME B30.20 “Safety Standard for Below-the-Hook Lifting Devices”.
- Lever hoists used to handle hot molten material may require additional equipment or devices. Consult ANSI Z241.2 “Safety Requirements for the Handling of Molten and Foundry Materials in the Metalcasting Industry”.
- It is the responsibility of the user/owner to inspect, test, maintain, and operate the GORILA® lever hoist according to the ANSI/ASME B30.21 “Manually Operated Lever Hoists” standard.
- The user/owner must establish a regular inspection program for the lever hoist, complying with the requirements of ANSI/ASME B30.21, and corresponding records must be kept.
- It is the responsibility of the user/owner to ensure that all personnel operating the lever hoist have read this manual.
- The user/owner must ensure that the anchorage and suspension points are adequate for the load to be lifted.
- The load chain of the lever hoist must not be used as a sling.

INSPECTION AND MAINTENANCE

A visual inspection must be performed prior to each use, which does not require recordkeeping. Inspect at least the following:

- Lever hoist body for deformation, cracks, or other damage.
- Load restrictions to ensure proper operation.
- Load chain for deformation, cracks, corrosion, oxidation, etc.
- Hooks and hook latches for deformation, cracks, corrosion, latch presence, among others.
- Bent, deformed, or corroded parts or components.
- General operation of the equipment: verify proper functioning, friction, unusual noises, etc.
- The brake mechanism of the equipment must be periodically inspected.

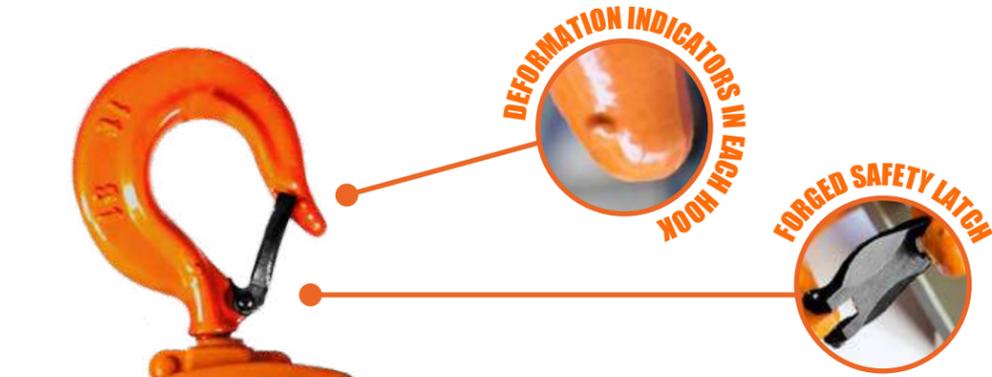


HAND CHAIN HOISTS

- Manual hand chain hoists are lifting equipment that must be present in any assembly or installation process.
- The benefit provided by this product is the ability to operate at a distance from the load, thanks to its hand chain.
- Additionally, they offer capacity variations of up to 30 tons.



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CHARACTERISTICS

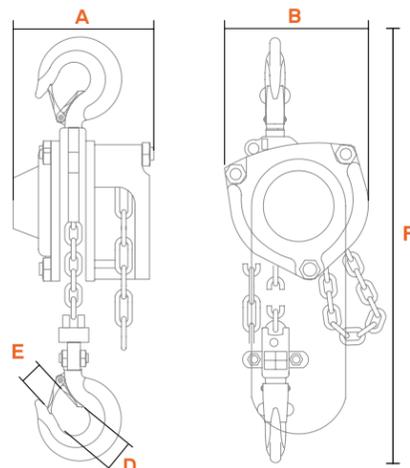
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- Standard lift height of 3 meters (5ft). Other lengths available.
- Hooks rotate 360°.
- Stamped steel gear covers.
- Gear system mounted on bearings.
- Grade 8 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Equipped with three deformation-elongation control points.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.16, EN 13157 and EN 818-7 standards.
- Safety factor 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
0,5	125	124	138	34	21	231	7,5

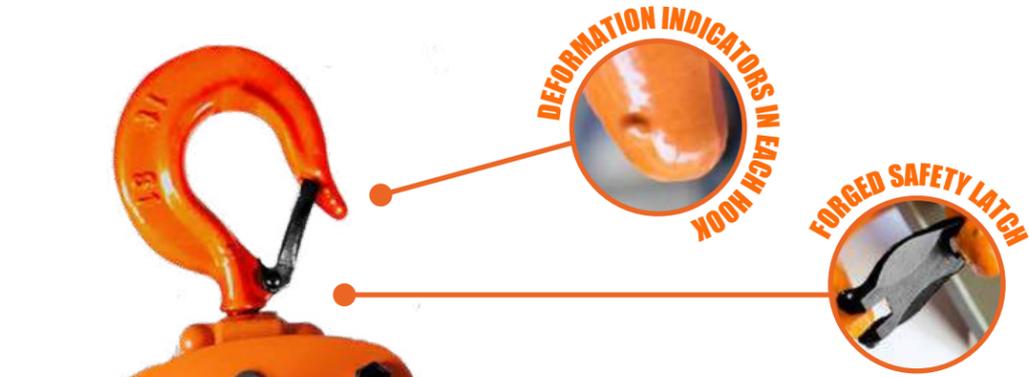
Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (mm)						WEIGHT lb
	A	B	C	D	E	F	
1,100	4.92	4.88	5.43	1.34	0.83	9.09	16.53

Dimensions and approximate weights, certified product.



HAND CHAIN HOIST 0,5T



CHARACTERISTICS

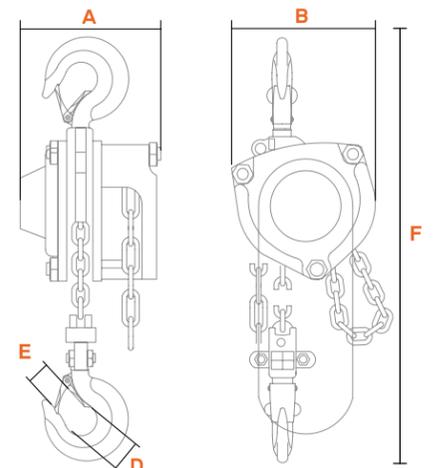
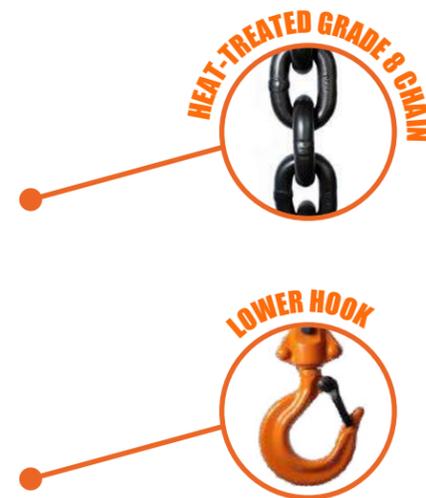
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- Forged steel safety latch.
- Standard lift height of 3 meters (5ft). Other lengths available.
- Hooks rotate 360°.
- Stamped steel gear covers.
- Gear system mounted on bearings.
- Grade 8 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Equipped with three deformation-elongation control points.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.16, EN 13157 and EN 818-7 standards.
- Safety factor 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
1	144	124	165	40	25	272	8,5

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (mm)						WEIGHT lb
	A	B	C	D	E	F	
2,200	5.67	4.88	6.50	1.57	0.98	10.71	18.74

Dimensions and approximate weights, certified product.



HAND CHAIN HOIST 1T



CHARACTERISTICS

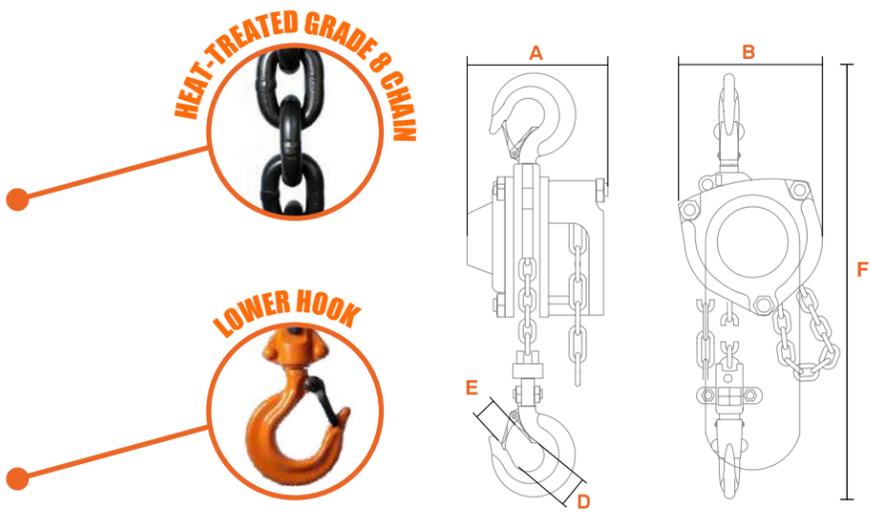
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- Standard lift height of 3 meters (5ft). Other lengths available.
- Hooks rotate 360°.
- Stamped steel gear covers.
- Gear system mounted on bearings.
- Grade 8 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Equipped with three deformation-elongation control points.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.16, EN 13157 and EN 818-7 standards.
- Safety factor 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
1,5	147	150	175	45	30	270	12

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (mm)						WEIGHT lb
	A	B	C	D	E	F	
3,300	5.79	5.91	6.89	1.77	1.18	10.63	26.46

Dimensions and approximate weights, certified product.



CHARACTERISTICS

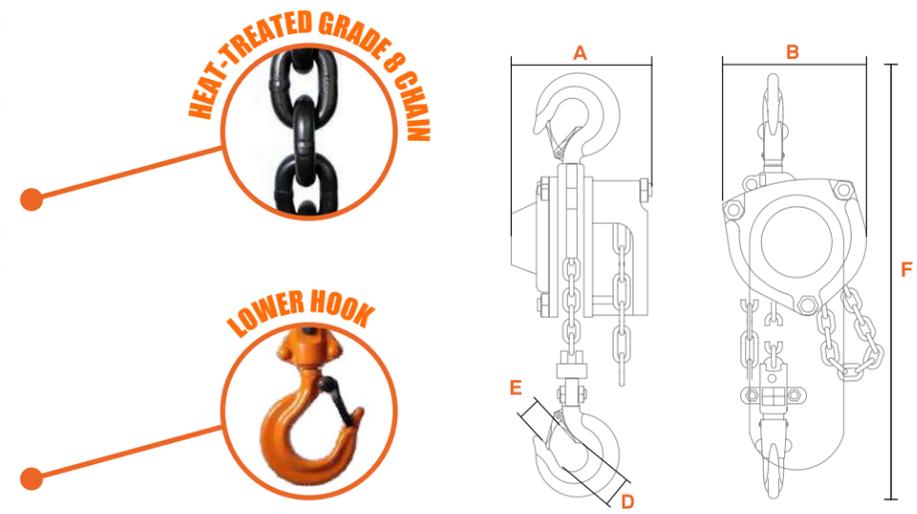
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- Tag with unique traceability code.
- Meets or exceeds ASME B30.16, EN 13157 and EN 818-7 standards.
- Safety factor 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT KG
	A	B	C	D	E	F	
2	153	172	194	51	35	330	17,5

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (mm)						WEIGHT lb
	A	B	C	D	E	F	
4,400	6.02	6.77	7.64	2.01	1.38	12.99	38.58

Dimensions and approximate weights, certified product.





CHARACTERISTICS

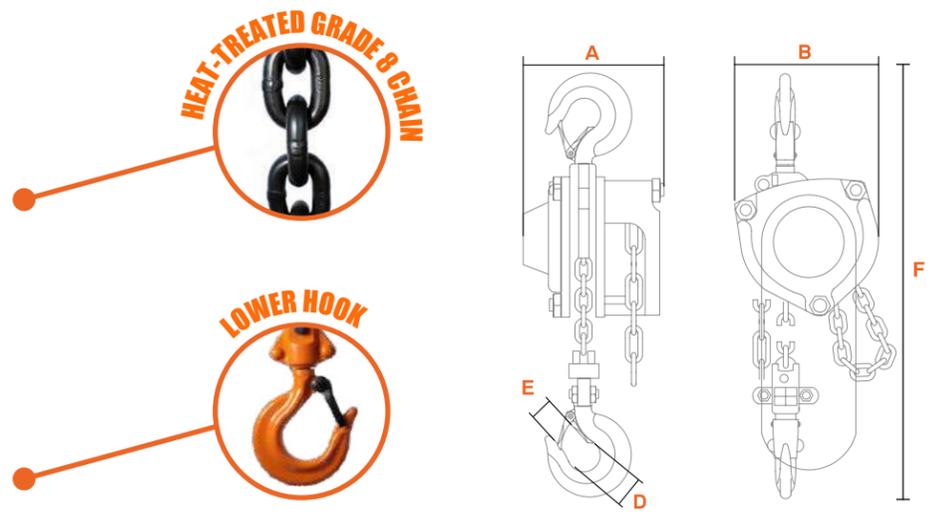
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- Standard lift height of 3 meters (5ft). Other lengths available.
- Hooks rotate 360°.
- Stamped steel gear covers.
- Gear system mounted on bearings.
- Grade 8 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Equipped with three deformation-elongation control points.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.16, EN 13157 and EN 818-7 standards.
- Safety factor 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT
	A	B	C	D	E	F	KG
3	154	172	194	54	40	372	24,3

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (mm)						WEIGHT
	A	B	C	D	E	F	lb
6,600	6.06	6.77	7.64	2.13	1.57	14.65	53.57

Dimensions and approximate weights, certified product.



HAND CHAIN HOIST 3T



CHARACTERISTICS

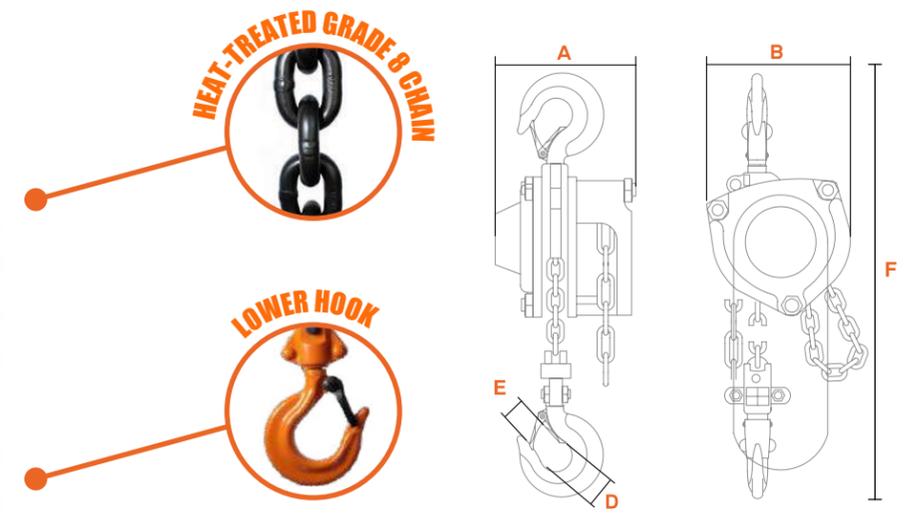
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- Standard lift height of 3 meters (5ft). Other lengths available.
- Hooks rotate 360°.
- Stamped steel gear covers.
- Gear system mounted on bearings.
- Grade 8 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Equipped with three deformation-elongation control points.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.16, EN 13157 and EN 818-7 standards.
- Safety factor 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)						WEIGHT
	A	B	C	D	E	F	KG
5	182	227	227	65	43	450	39,5

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (mm)						WEIGHT
	A	B	C	D	E	F	lb
11,000	7.17	8.94	8.94	2.56	1.69	17.72	87.08

Dimensions and approximate weights, certified product.



HAND CHAIN HOIST 5T



HAND CHAIN HOIST 10T

CHARACTERISTICS

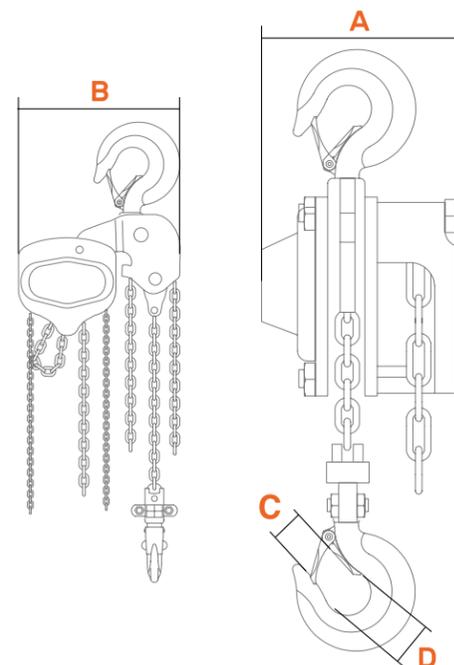
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- Standard lift height of 3 meters (5ft). Other lengths available.
- Hooks rotate 360°.
- Stamped steel gear covers.
- Gear system mounted on bearings.
- Grade 8 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Equipped with three deformation-elongation control points.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.16, EN 13157 and EN 818-7 standards.
- Safety factor 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)				WEIGHT KG
	A	B	C	D	
10	177	220	110	78	82

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (in)				WEIGHT lb
	A	B	C	D	
22,000	6.97	8.66	4.33	3.07	180.78

Dimensions and approximate weights, certified product.



HAND CHAIN HOIST 20T

CHARACTERISTICS

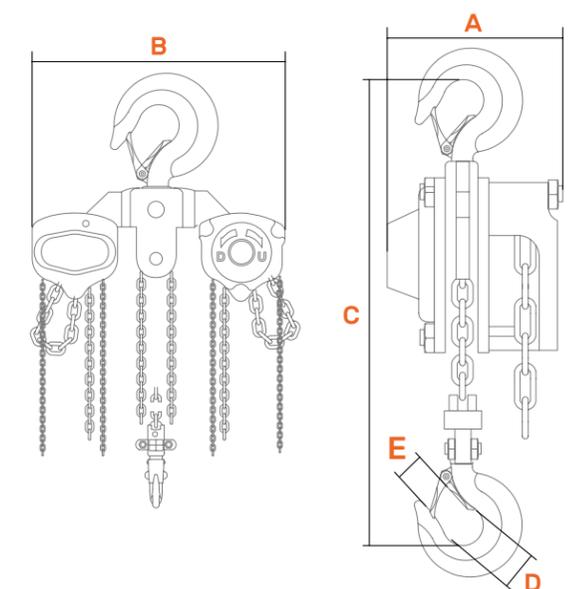
- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- Standard lift height of 3 meters (5ft). Other lengths available.
- Hooks rotate 360°.
- Stamped steel gear covers.
- Gear system mounted on bearings.
- Grade 8 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Equipped with three deformation-elongation control points.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.16, EN 13157 and EN 818-7 standards.
- Safety factor 4:1
- Brand: Gorila®

WLL (t)	DIMENSIONS (mm)				WEIGHT KG
	A	B	C	D	
20	177	220	87	50	193

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (in)				WEIGHT lb
	A	B	C	D	
44,000	6.97	8.66	3.43	1.97	425.5

Dimensions and approximate weights, certified product.

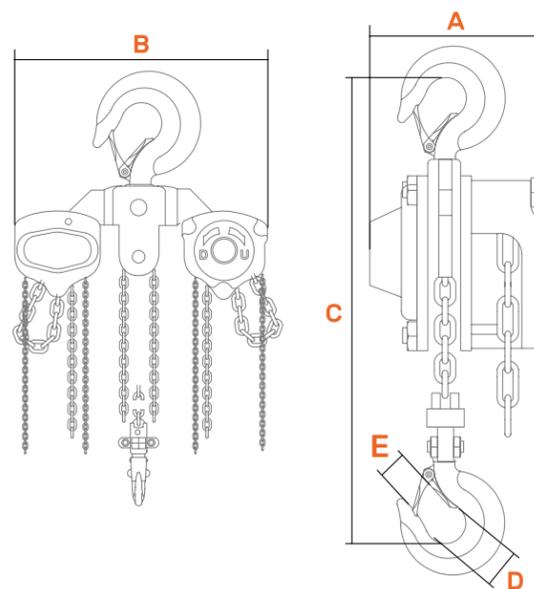




HAND CHAIN HOIST 30T

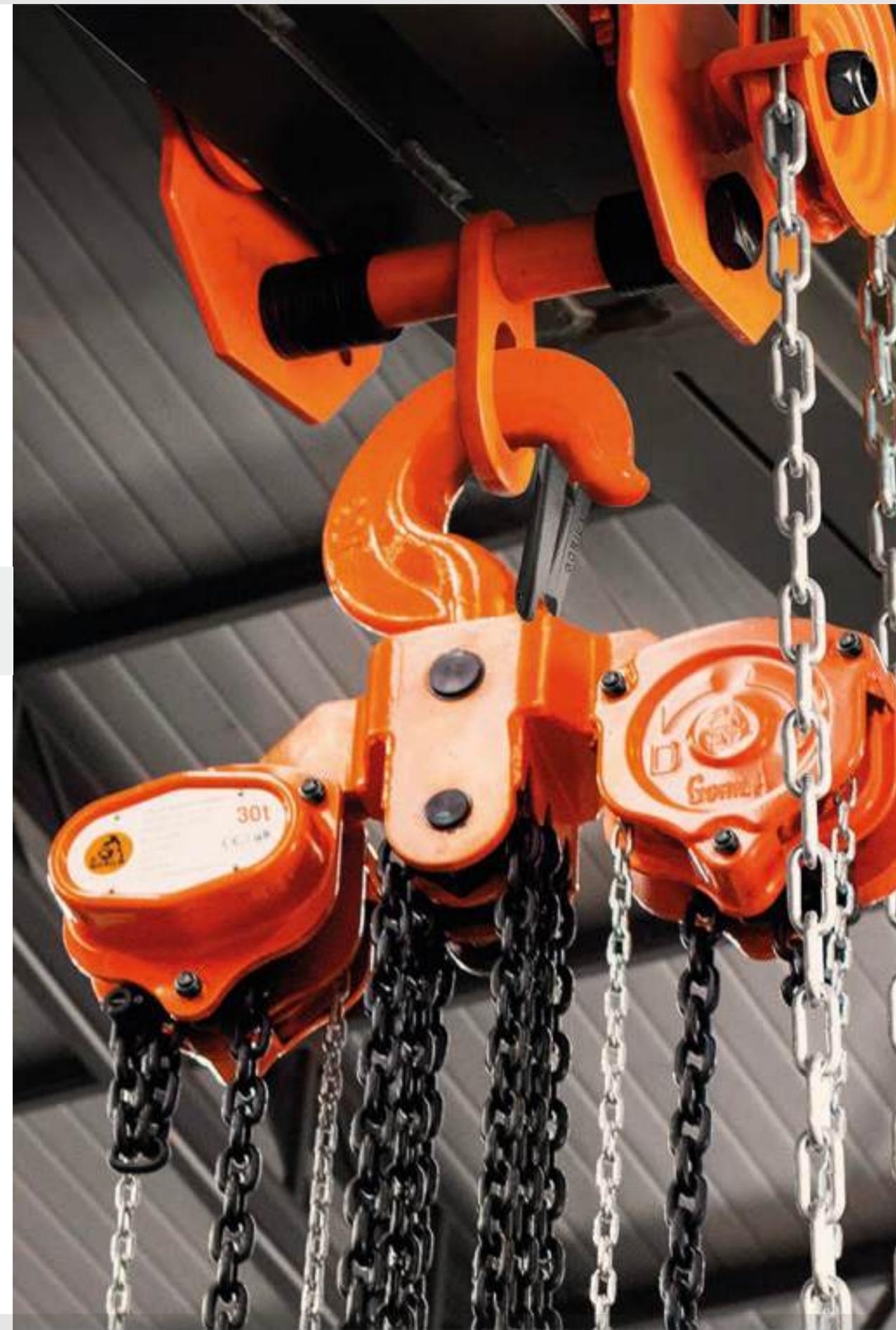
CHARACTERISTICS

- Forged and heat-treated alloy steel hooks.
- Forged steel safety latch.
- Standard lift height of 3 meters (5ft). Other lengths available.
- Hooks rotate 360°.
- Stamped steel gear covers.
- Gear system mounted on bearings.
- Grade 8 calibrated and heat-treated load chain.
- Asbestos-free clutch.
- Equipped with three deformation-elongation control points.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.16, EN 13157 and EN 818-7 standards.
- Safety factor 4:1
- Brand: Gorila®



WLL (t)	DIMENSIONS (mm)					WEIGHT KG
	A	B	C	D	E	
30	450	750	1150	110	75	193

WLL (lb)	DIMENSIONS (mm)					WEIGHT lb
	A	B	C	D	E	
66,000	17.72	29.53	45.28	4.33	2.95	425.5



PRECAUTIONS

- Do not exceed the rated load capacity of the equipment.
- It is recommended to operate with at least 10% of the nominal working load.
- The hand chain hoist must only be operated by a competent person.
- Hand chain hoists are NOT designed and must NOT be used to lift, support, or transport people, or to lift or support loads above people.
- Any alterations to the equipment to increase its use, capacity, or any other modification must only be authorized by the manufacturer.
- If the hoist is complemented on its lower hook with a lifting device or sling, consult ANSI/ASME B30.9 "Safety Standard for Slings" or ANSI/ASME B30.20 "Below-the-Hook Lifting Devices".
- It is the responsibility of the user/owner to inspect, test, maintain, and operate the hand chain hoist in accordance with ANSI/ASME B30.16 "Overhead Hoists (Underhung)" standards.
- The user/owner must establish a regular inspection program for the hand chain hoist that complies with ANSI/ASME B30.16 requirements and must keep the corresponding records.
- The user/owner must ensure that anchorage and suspension points are adequate for the load being lifted.

INSPECTION AND MAINTENANCE

A visual inspection must be performed prior to each use, which does not require records. At minimum, the following must be inspected:

- Hoist body for signs of deformation, cracks, or other damage.
- Load restrictions for proper operation.
- Load chain for signs of stretching, irregular wear, corrosion, deformation, cracks, or twisted links.
- Hooks and hook latches for deformation, cracks, presence of safety latches, among others.
- Any parts or components that are bent, deformed, or corroded.
- Overall operation of the equipment, verifying correct function, rubbing, noise, etc.
- Any damage or excessive wear in gears or bearings.
- Proper brake function must be verified.

If any of the faults listed above are found, consult a specialist before using the hand chain hoist.



WIRE ROPE PULLING HOIST

- The wire rope pulling hoist is an ideal piece of equipment for tensioning, pulling, or moving an element.
- An essential tool for telecommunications operations, installation work, and/or the movement of heavy materials.
- It comes from factory with a standard 20-meter (65.6 ft) wire rope; however, custom lengths can be manufactured upon request.



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WIRE ROPE PULLING HOIST

CHARACTERISTICS

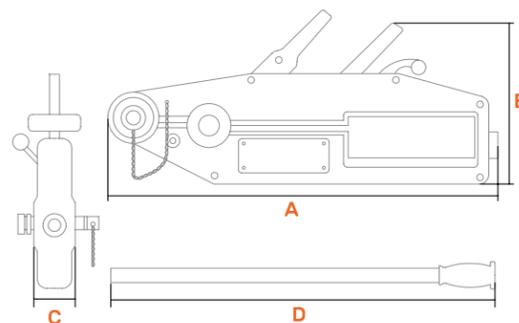
- Wire rope pulling hoist operated by lever and traction/return connecting rods.
- The operating lever is aligned with the cable force line to provide greater stability and improve load transmission, allowing forward and reverse longitudinal movement.
- Stamped aluminum housing with galvanized reinforcement ribs.
- High-performance mechanism, low maintenance, and easy to clean.
- Includes a standardized 20-meter (65.6 ft) galvanized wire rope with a forged eye hook and safety latch.
- Tag with unique traceability code.
- Complies with ASME B30.10 standard.
- Brand: Gorila®

WLL	Ø CABLE	CABLE LENGTH	DIMENSIONS (mm)				WEIGHT
			A	B	C	D	
(t)	(mm)	(m)					Kg
1,6	11	20	550	245	72	1200	23,5
3,2	16	20	670	320	100	1200	38,5
5,4	20	20	932	420	155	1200	98,5

Dimensions and approximate weights, certified product.

WLL	Ø CABLE	CABLE LENGTH	DIMENSIONS (In)				WEIGHT
			A	B	C	D	
(lb)	(In)	(Ft)					lb
3,500	7/16	65.6	21.65	9.65	2.83	47.24	51.8
7,000	5/8	65.6	26.38	12.60	3.94	47.24	84.9
11,900	13/16	65.6	36.69	16.54	6.10	47.24	216.0

Dimensions and approximate weights, certified product.



TECHNICAL INFORMATION

WIRE ROPE PULLING HOIST

The wire rope pulling hoist is a manual device that allows lifting, pulling, and tensioning loads efficiently. Its operation is based on a jaw clamping mechanism which grips the wire rope when the handle is actuated, advancing the cable and generating the necessary force to move the load. This system multiplies the applied force, allowing significantly heavier loads to be moved compared to the effort required.

This hoist is equipped with a safety mechanism designed to prevent overloads through a shear pin or fusible element, which breaks when the applied load exceeds 1.25 times the nominal capacity of the equipment, protecting both the operator and the load.

PRECAUTIONS

Before each use:

- Verify that all screws, bolts, and components are properly tightened and in perfect condition. Damaged equipment may fail and cause accidents.
- Make sure the cable is clean, without cracks or damage. A defective cable could break under tension and compromise the load.
- Keep the equipment clean and lubricated according to the manufacturer's recommendations. Dirt and lack of lubrication may affect performance and reduce the service life of the hoist.

During use:

- Ensure that each operating handle functions independently and smoothly. Avoid moving both handles simultaneously, as this may damage the mechanism.
- Maintain control of the load at all times. Do not operate the handle violently or with sudden movements, as this may overload the equipment and cause damage.
- Never stand on or work under the suspended load. Always use stable and secure support points.
- Do not leave the load unattended while lifting. If the load moves unexpectedly, stop the operation immediately.

Maintenance:

- Use only original spare parts. The use of non-approved parts may compromise equipment safety.
- Do not modify the handle length or make alterations to the equipment design. Such modifications void the warranty and increase accident risk.
- Replace the wire rope immediately if permanent deformation greater than 10% of its length is detected.
- Failure to comply with these precautions may cause dropped loads, serious injury, or even death.
- Incorrect use of the hoist may cause irreparable damage.

Remember: Safety comes first. Always follow instructions and use appropriate personal protective equipment.

USE

WIRE ROPE

With the wire rope end facing downward and pressing the hoist, pull the lever. When you hear the “click” sound, it indicates that the jaws are now open.

OBSERVE

The end of the wire rope must be positioned on the upper part of the fixed shaft so it does not lock, allowing the wire rope to move freely. Lift (forward), tension: pull the lever forward. Lower (reverse): pull the lever backward.

ANCHORAGE

The fixed shaft is used to secure the wire rope around the hoist. Connect the wire rope or support with the fixed wire rope and tie the opposite end to the load. There is a tube on the fixed shaft. When the fixed shaft is inserted into the hoist housing, rotate it twice toward the second tube until firmly secured. Then, the operation may begin.

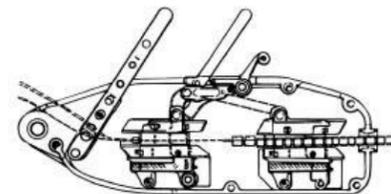
FINISHING THE OPERATION

The end of the wire rope must be positioned on the upper part of the fixed shaft so it does not lock, allowing the wire rope to move freely. Lift (forward), tension: pull the lever forward. Lower (reverse): pull the lever backward.

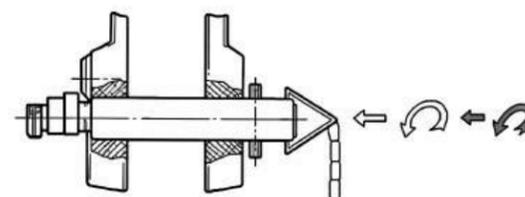


REMOVING THE WIRE ROPE

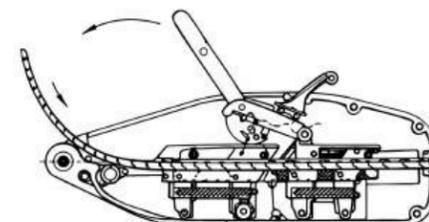
Once the job is finished, the jaws will open and the lever is pushed. The wire rope at the end of the hoist can be removed. Clean any debris on the wire rope so it can be used later without issues.



MOVE THE LEVER FORWARD SO IT ENGAGES WITH THE STEP FORMED IN THE UPPER INTERIOR OF THE HOUSING.

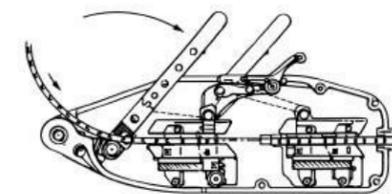


ROTATE AND PUSH THE SHAFTS TWICE.

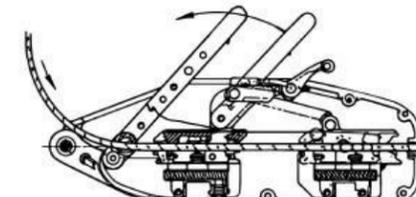


TO LIFT A LOAD (OR MOVE IT FORWARD): PULL THE LEVER FORWARD.

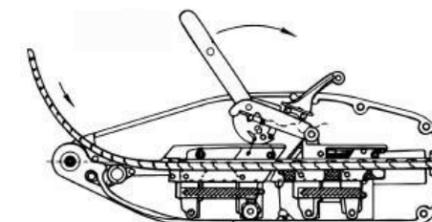
Finally, push the lever backward so the jaws do not remain open for too long, protecting the spring pre-tension.



MOVE THE LEVER FORWARD SO IT ENGAGES WITH THE STEP FORMED IN THE UPPER INTERIOR OF THE HOUSING.

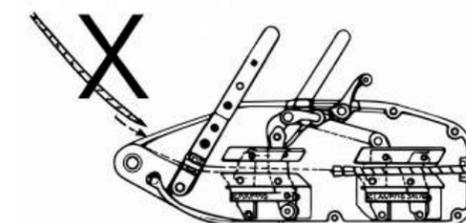


ROTATE AND PUSH THE SHAFTS TWICE.



TO LIFT A LOAD (OR MOVE IT FORWARD): PULL THE LEVER FORWARD.

- Always use wire ropes specified by GORILA. The use of non-original wire ropes or incorrect diameters may cause breakage, accidents, and void the warranty.
- If the wire rope shows damage exceeding 10% of its length, replace it immediately with a new, original one.
- Connect the wire rope only from the front section of the hoist indicated as the wire rope entry. Reversing the hook direction may cause improper operation and accidents.
- Ensure that the anchorage point is strong enough to support the load being lifted. A weak anchorage point may cause the wire rope to fail and the load to fall.



ELECTRIC HOISTS

- Electric hoists provide the operator with improved handling, offering a more efficient and safer lifting operation.
- These units can be installed on gantry or bridge cranes and are used in facilities where hoisting operations are performed routinely.



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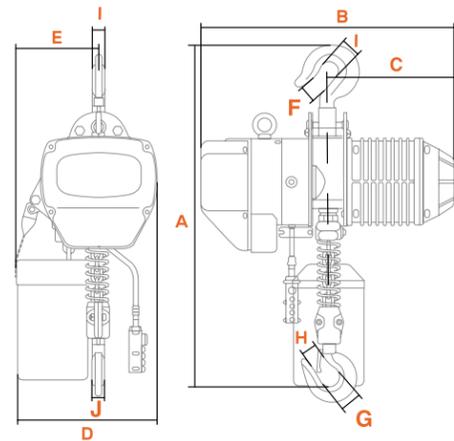




ELECTRIC HOISTS

CHARACTERISTICS

- Grade 8 calibrated lifting chain with heat treatment, tempered and quenched.
- Control system for vertical lifting movement.
- G8 latch hook.
- Includes chain lubrication oil.
- Hydraulic oil ISO VG46 must be used.
- Mobil DTE Oil 25 / Shell Tellus 46 / ELF DTH 46 / Mexlub MH 220 (46) / Texaco Rando HD 46 / Quaker H. Speed Oil 32.
- Protection rating: IP54.
- Electrical supply: Three-phase.
- Operating temperature range: -20 to 40°C.
- Label with unique traceability code.
- Standards: ASME B30.16 / EN 818 / EN 13157.
- Safety factor: 4:1.
- Brand: Gorila®



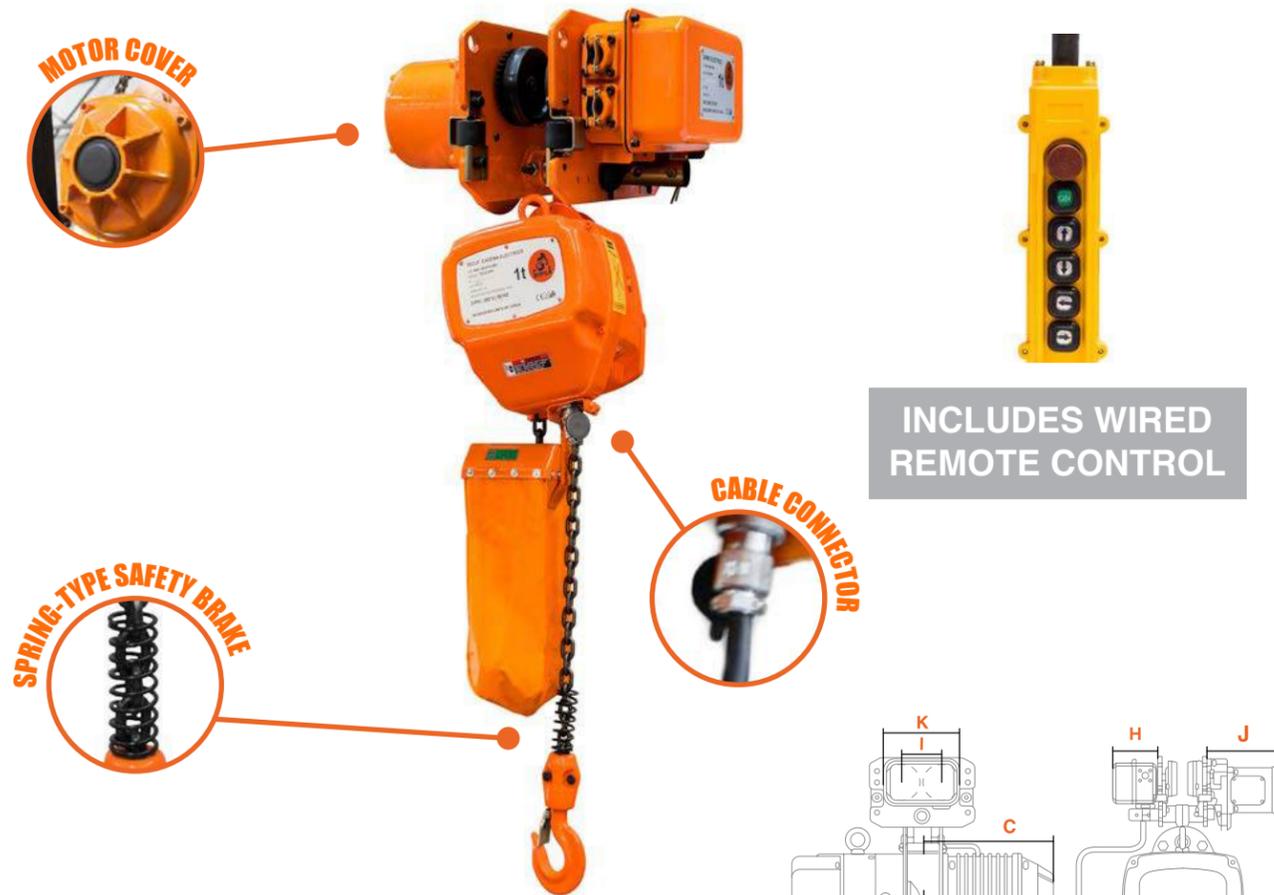
WLL	CHAIN LENGTH	Ø CHAIN	DIMENSIONS (mm)								
(t)	(mt)	(mm)	A	B	C	D	E	F	G	H	I-J
1	6	7,1	650	520	260	300	176	31	Ø 40	31	22
2	6	10,0	800	615	295	430	265	40	Ø 47	38	30
3	6	11,2	845	615	295	430	265	47	Ø 58	47	36
5	6	11,2	1030	615	295	430	265	48	Ø 60	48	43

Dimensions and approximate weights, certified product.

POWER CONSUMPTION		
(t)	(lb)	KW
1	2200	1,5
2	4400	3
3	6600	4,5
5	11000	6

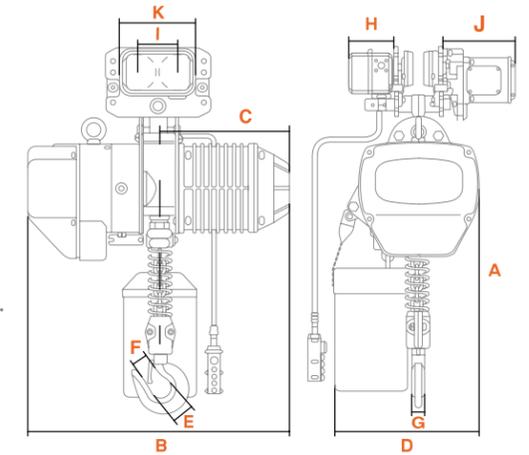
WLL	CHAIN LENGTH	Ø CHAIN	DIMENSIONS (In)								
(lb)	(ft)	(in)	A	B	C	D	E	F	G	H	I-J
2200	20	9/32"	25.59	20.47	10.24	11.81	6.93	1.22	Ø 1.57	1.22	0.87
4400	20	13/32"	31.50	24.21	11.61	16.93	10.43	1.57	Ø 1.85	1.50	1.18
6600	20	3/8"	33.27	24.21	11.61	16.93	10.43	1.85	Ø 2.28	1.85	1.42
11000	20	7/16"	40.55	24.21	11.61	16.93	10.43	1.89	Ø 2.36	1.89	1.69

Dimensions and approximate weights, certified product.



CHARACTERISTICS

- Grade 8 calibrated lifting chain with heat treatment, tempered and quenched.
- Control system for vertical lifting movement.
- G8 latch hook.
- Includes chain lubrication oil.
- Hydraulic oil ISO VG46 must be used.
- Mobil DTE Oil 25 / Shell Tellus 46 / ELF DTH 46 / Mexlub MH 220 (46) / Texaco Rando HD 46 / Quaker H. Speed Oil 32.
- Protection rating: IP54.
- Electrical supply: Three-phase.
- Operating temperature range: -20 to 40°C.
- Label with unique traceability code.
- Standards: ASME B30.16 / EN 818 / EN 13157.
- Safety factor: 4:1.
- Brand: Gorila®



WLL	CHAIN LENGTH	Ø CHAIN	DIMENSIONS (mm)										
(t)	(mt)	(mm)	A	B	C	D	E	F	G	H	I	J	K
1	6	7,1	650	520	260	300	Ø 40	32	24	142	111	231	206
2	6	10,0	770	615	295	430	Ø 47	40	30	142	127	231	237
3	6	11,2	830	615	295	430	Ø 58	48	36	142	140	231	265
5	6	11,2	1015	615	295	430	Ø 60	48	43	142	156	231	296

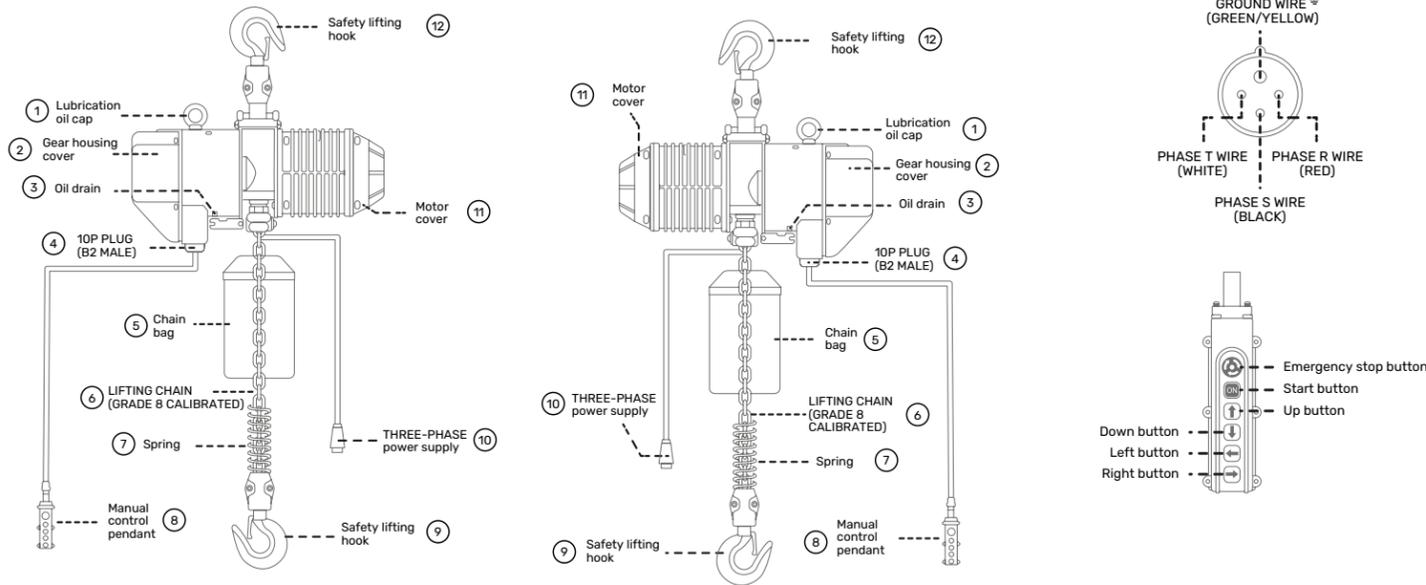
Dimensions and approximate weights, certified product.

POWER CONSUMPTION		
(t)	(lb)	KW
1	2200	1,5
2	4400	3
3	6600	4,5
5	11000	6

WLL	CHAIN LENGTH	Ø CHAIN	DIMENSIONS (In)										
(lb)	(ft)	(in)	A	B	C	D	E	F	G	H	I	J	K
2,200	20	9/32	25.59	20.47	10.24	11.81	Ø 1.57	1.26	0.94	5.59	4.37	9.09	8.11
4,400	20	3/8	30.31	24.21	11.61	16.93	Ø 1.85	1.57	1.18	5.59	5.00	9.09	9.33
6,600	20	7/16	32.68	24.21	11.61	16.93	Ø 2.28	1.89	1.42	5.59	5.51	9.09	10.43
11,000	20	7/16	39.96	24.21	11.61	16.93	Ø 2.36	1.89	1.69	5.59	6.14	9.09	11.65

Dimensions and approximate weights, certified product.

ELECTRIC CHAIN HOIST



OPERATING PROCEDURES

- 1.- Unpack the hoist, ensuring it includes all components and the user manual.
- 2.- Install the chain container bag (See #5).
- 3.- Fill the receptacle located in the gear housing with ISOVG46 hydraulic oil through the filling point (lubrication oil cap). The required oil quantity will vary according to the hoist capacity (See figure #1).
- 4.- Power up the unit (See #10).
- 5.- Connect the controls:
Manual control: Connect the 10P female plug to the hoist body. The correct orientation is indicated by the slot on the 10P male plug (See #8).
- 6.- Verify control operation.

MANUAL CONTROL

- Unlock the emergency stop button (red)
- Press the START button (green)
- Operate the hoist



LOAD SPECIFICATIONS

Item		Specifications	
Working humidity range (%)		85 or below 85	
Working temperature range (°C)		-20 ~ +40	
Protection type	Lifting	Ip54	
	Start button	Ip54	
Power supply		3-phase, 200-600V, 50/60 Hz	
Noise level (dB)	Single lifting speed	81	
	Dual lifting speed	81	
Chain specifications	Working load limit	Nominal diameter (mm)	Internal chain length (mm)
	0.3t, 0.5t	6.3	19
	1t, 2t, 3t	7.1	21
	1.5t, 2t, 3t	10.0	30
	2.5t, 3t, 5t, 7.5t	11.2	34

1) If your operating temperature or humidity are outside the range listed in the table, request the corresponding data from **GORILA®**.

(2) Intended operating conditions: the hoist is designed to lift vertically under normal working and atmospheric conditions.

(3) The noise level is measured at 1 meter from the machine during normal operation.



ELECTRIC CHAIN HOIST

MAINTENANCE AND INSPECTION:

- When 500 hours of gearbox operation are exceeded, check lubrication quantity and standardize inspection every 3 months.
- Check dryness of the hoist parts frequently.
- If operated outdoors, cover it for protection.

INSPECTION:

Daily inspection: before daily operation, check the following items:

- Sufficient power supply.
- Test “up”, “down” and “emergency stop” (if installed) with no load.
- Certify that the motor operates normally.
- Verify that noise is not abnormal or excessively loud.
- Test that the safety latch on the lower hook operates correctly.
- Verify that rotating or moving parts and limit switches, as well as brake function, operate normally.
- Confirm that the chain is properly lubricated.



MONTHLY INSPECTION

MAINTENANCE AND INSPECTION:

CHAIN INSPECTION:

Any deformed, elongated, or worn chain will jam on the wheel, causing chain failure. To ensure safe and normal operation, verify internal length and width of the link as well as its external shape. See charts below:

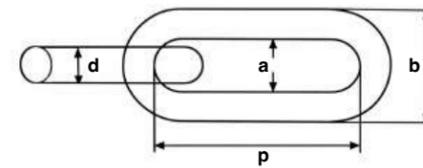
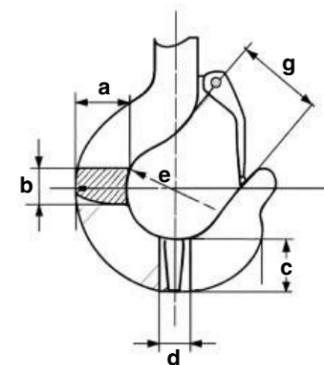


Fig.6.1 Chain size

Diameter (mm) (d)	Capacity (ton)	Internal Length (mm) (p)	Inner Width (mm) (a)	Inner Width (mm) (b)
6,3	0,3, 0,5	19	7,5	20,5
7,1	1, 2, 3	21	8,9	23
10,0	1,5, 2, 3	30	12,5	33
11,2	2,5, 3, 5, 7,5	34	14	37,2

CHECK THE CHAIN



Capacity (ton)	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	g (mm)
0,5	27	18	25	17	35	28
1	34	24	30	24	42	32
2	46	29	39	30	49	40
3	56	35	49	34	59	48
5	67	43	57	44	60	48
7,5	82	55	80	48	85	80

CHECK THE HOOK

SHIFT BUTTON:

Verify that the shift switch operates normally. After cleaning it, apply a thin layer of lubrication to ensure normal operation.

ANNUAL INSPECTION:

- Check if the gearbox locking mechanism is excessively worn or damaged.
- Completely replace gearbox oil.
- Once inspection and oil replacement are completed, lift and lower loads several times before normal operation. If it is in good condition, then resume operation.

ELECTRIC CHAIN HOIST

COMMON PROBLEMS AND PROCEDURES

CONDITIONS	REASONS	HOW TO SOLVE
The hoist does NOT operate	(1) The power phases are incorrectly connected, activating phase protection and preventing operation. (2) The power fuse is burned or the switch without fuse is turned off. (3) The fuse in the control panel is burned. (4) The power cable or control circuit cable is broken or not connected correctly. (5) The voltage is too low. (6) The motor emits sound but does not rotate. (7) The emergency stop switch is pressed (if installed). (8) The contactor is faulty.	(1) Swap any two power phase cables. (2) Verify current is normal; replace with proper fuse or reset switch-type fuse. (3) Verify current is normal and replace the fuse. (4) Repair or replace broken electrical cable or defective contactor. (5) Measure voltage; if 10% below nominal, correct it. (6) Verify correct motor phase: repair and ensure proper insulation. (7) Confirm reason for pressing the emergency stop. (8) Operate hoist manually; if it works, there is incorrect contact — locate and repair. If it cannot operate manually, verify main power source; replace faulty contact.

CONDITIONS	REASONS	HOW TO SOLVE
The hoist does NOT stop	The fuse coil of the breaker produces a short circuit.	Replace the breaker.
Brake pads	The motor brake disc is worn. Replacement recommended.	Replace the disc.
The chain or lower hook wheel produces abnormal noise	(1) Chain is not sufficiently or correctly lubricated. (2) Chain wheel is worn.	(1) Lubricate. (2) Replace the chain and wheel.
Electrical failure	(1) Ground cable imperfect. (2) Dirt on electrical parts or excessive humidity.	(1) Repair. (2) Keep electrical parts clean and reduce humidity.
Oil leakage	(1) Oil hose not connected. (2) Hose is loose. (3) Plug not installed. (4) Plug worn or deteriorated.	(1) Install. (2) Tighten the hose. (3) Install the plug. (4) Replace the plug.



HOIST TROLLEYS

- Trolleys designed for maximum performance, both electric and manual.
- Durable, resistant, and highly reliable.
- Recommended for operations where a hoist is installed on a beam and the load needs to be safely and efficiently moved from one point to another.
- Lightweight and compact.



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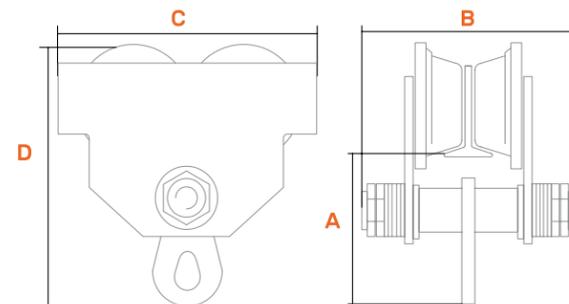


PUSH TROLLEY

GEATED TROLLEY

CHARACTERISTICS

- Hardened wheels mounted on bearings.
- Adjustable beam width using washers.
- Flange width adjustable through spacers.
- Label with unique traceability code.
- Meets or exceeds EN 13155 and ASME B30.11 standards.
- Brand: Gorila®



WLL (t)	LOSS OF HEADROOM A (mm)	DIMENSIONS (mm)			WEIGHT KG
		B	C	D	
0,5	107	235	185	200	7,1
1	123	220	206	222	8
2	133	180	240	235	14,1
3	178	320	280	295	22,35
5	193	248	316	333	65
10	275	340	385	445	83

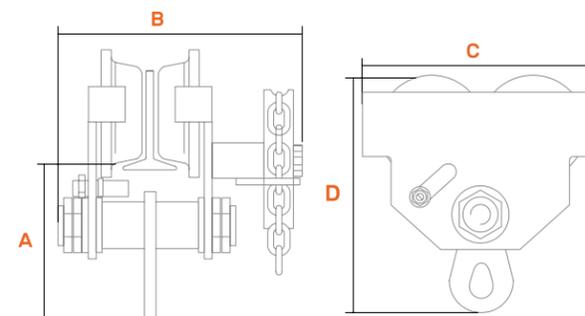
Dimensions and approximate weights, certified product.

WLL (lb)	LOSS OF HEADROOM A (in)	DIMENSIONS (in)			WEIGHT lb
		B	C	D	
1100	4.21	9.25	7.28	7.87	15.65
2200	4.84	8.66	8.11	8.74	17.64
4400	5.24	7.09	9.45	9.25	31.09
6600	7.01	12.60	11.02	11.61	49.27
11000	7.60	9.76	12.44	13.11	143.30
22000	10.83	13.39	15.16	17.52	182.98

Dimensions and approximate weights, certified product.

CHARACTERISTICS

- Hardened wheels mounted on bearings.
- Adjustable flange width through spacers.
- Adjustable beam width using washers.
- Calibrated hand-chain, heat-treated and tempered.
- Label with unique traceability code.
- Meets or exceeds EN 13155 and ASME B30.11 standards.
- Brand: Gorila®



WLL (t)	LOSS OF HEADROOM A (mm)	S BEAM WIDTH (mm)	DIMENSIONS (mm)			WEIGHT KG
			B	C	D	
1	130	58 - 127	295	235	215	13
2	186	82 - 153	428,5	270	338	40
3	275,5	100 - 178	385	344	445	100
5	160	100 - 178	330	366	230	17,8
10	202	58 - 127	385	455	335	38,5
20	315	190 - 240	547	642	622	245

Dimensions and approximate weights, certified product.

WLL (lb)	LOSS OF HEADROOM A (in)	S BEAM WIDTH (in)	DIMENSIONS (in)			WEIGHT lb
			B	C	D	
2200	5.12	2.28 - 5.00	11.61	9.25	8.46	28.66
4400	6.30	2.28 - 5.00	12.99	10.63	9.06	39.24
6600	7.32	3.23 - 6.02	16.87	13.54	13.31	88.18
11000	7.95	7.48 - 9.45	15.16	14.41	13.19	84.88
22000	10.85	3.94 - 7.01	15.16	17.91	17.52	220.46
44000	12.40	3.94 - 7.01	21.54	25.28	24.49	540.13

Dimensions and approximate weights, certified product.

SNATCH BLOCKS

- A snatch block is essentially a pulley protected by a steel housing, designed to assist in lifting operations.
- It is manufactured with high-resistance materials to withstand corrosion and impact, ensuring a longer service life.
- Widely used in lifting and rigging systems, snatch blocks are intended to change the direction of the load or to pull the load from one point to another.



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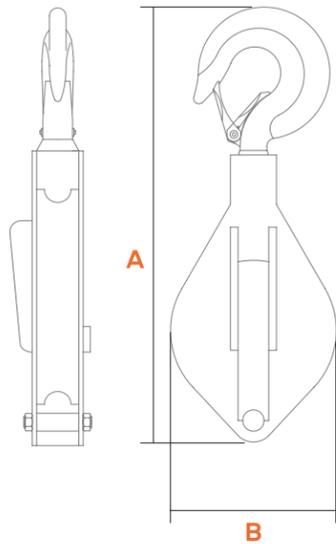
SIDE SAFETY LATCH



SINGLE SHEAVE PULLEY



SINGLE HEAVY DUTY SNATCH BLOCK



WLL (t)	DIMENSIONS (mm)			WEIGHT KG	WIRE ROPE (mm)
	PULLEY	A	B		
0,5	75	270	85	1,6	8
1	100	315	112	3,5	10
1,5	125	370	140	4,6	13
2	150	439	167	7,7	16
3	180	512	195	11	19
4	200	594	225	19,3	22
5	250	710	280	33,8	25
10	350	710	280	33,8	25

Dimensions and approximate weights, certified product.

CHARACTERISTICS

- Stamped steel body.
- Forged suspension hook.
- Sheave mounted on bushing.
- Shaft equipped with grease fitting for lubrication.
- Swivel and articulated suspension.
- Easy opening and closing system, tool-free.
- Recommended for use with wire rope.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.26 standard.
- Design factor 4:1.
- Brand: Gorila®

WLL (lb)	DIMENSIONS (In)			WEIGHT lb	WIRE ROPE (In)
	PULLEY	A	B		
1100	2.95	10.63	3.35	3.53	5/16
2200	3.94	12.40	4.41	7.72	3/8
3300	4.92	14.57	5.51	10.14	1/2
4400	5.91	17.28	6.57	16.98	5/8
6600	7.09	20.16	7.68	24.25	3/4
8800	7.87	23.39	8.86	42.55	7/8
11000	9.84	27.95	11.02	74.08	1
22000	13.78	27.95	11.02	74.08	1

Dimensions and approximate weights, certified product.

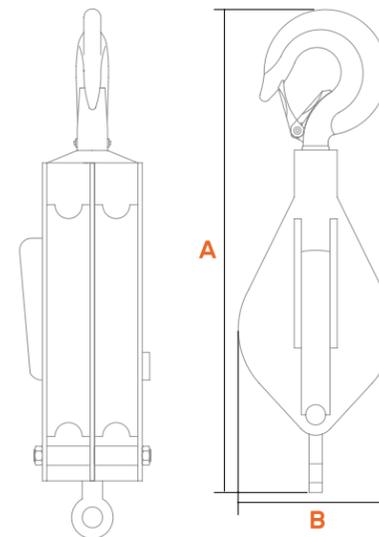
DOUBLE SHEAVE PULLEY



STEEL GUIDE RING



DOUBLE HEAVY DUTY SNATCH BLOCK



WLL (t)	DIMENSIONS (mm)				WEIGHT KG	WIRE ROPE (mm)
	PULLEY	CABLE	A	B		
0,5	75	8	310	87	2,8	8
1	100	10	350	120	4,3	10
1,5	125	13	380	140	7,8	13
2	150	16	480	168	12,2	16
3	180	19	510	205	18,5	19
4	200	22	590	224	31	22
5	250	25	730	285	49,8	25

Dimensions and approximate weights, certified product.

CHARACTERISTICS

- Stamped steel body.
- Forged suspension hook.
- Sheave mounted on bushing.
- Shaft equipped with grease fitting for lubrication.
- Swivel and articulated suspension.
- Easy opening and closing system, tool-free.
- Recommended for use with wire rope.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.26 standard.
- Design factor 4:1.
- Brand: Gorila®

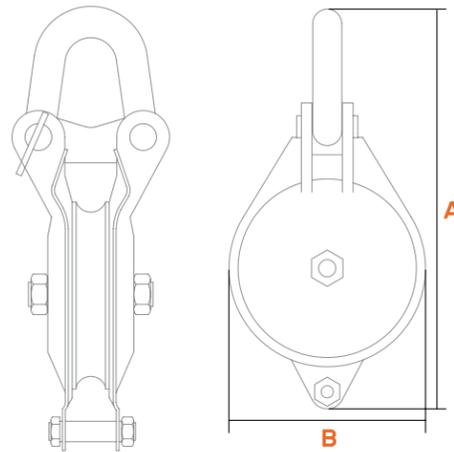
WLL (lb)	DIMENSIONS (In)				WEIGHT lb	WIRE ROPE (In)
	PULLEY	CABLE	A	B		
1100	2.95	8	12.20	3.43	6.17	5/16
2200	3.94	10	13.78	4.72	9.48	3/8
3300	4.92	13	14.96	5.51	17.20	1/2
4400	5.91	16	18.90	6.61	26.90	5/8
6600	7.09	19	20.08	8.07	40.79	3/4
8800	7.87	22	23.23	8.82	68.34	7/8
11000	9.84	25	28.74	11.22	109.78	1

Dimensions and approximate weights, certified product.

SINGLE HEAVY DUTY SNATCH BLOCK WITH SHACKLE

DOUBLE HEAVY DUTY SNATCH BLOCK WITH SHACKLE

SINGLE SHEAVE PULLEY



WLL (t)	DIMENSIONS (mm)			WEIGHT KG	WIRE ROPE (mm)
	PULLEY	A	B		
0,5	75	180	85	1,1	8
1	100	228	120	1,8	8
1,5	125	301	150	3,5	9
2	150	335	175	5,1	12
4	200	390	190	11,5	16
5	250	528	295	17	22

Dimensions and approximate weights, certified product.

CHARACTERISTICS

- Stamped steel body.
- Forged suspension shackle.
- Pulley mounted on bearing.
- Suspension with easy open and close system, tool-free.
- Recommended for use with wire rope.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.26 standard.
- Design factor 4:1.
- Brand: Gorila®

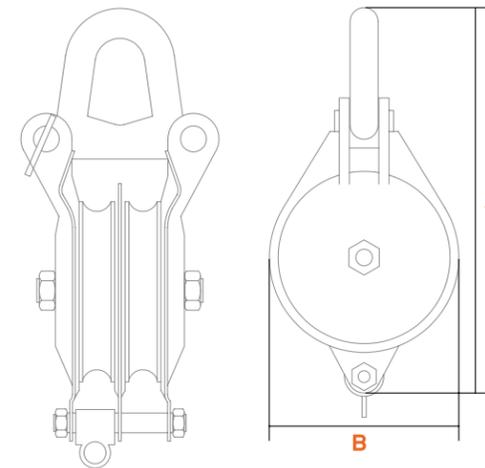
WLL (lb)	DIMENSIONS (In)			WEIGHT lb	WIRE ROPE (In)
	PULLEY	A	B		
1100	2.95	7.09	3.35	2.43	5/16
2200	3.94	8.98	4.72	3.97	5/16
3300	4.92	11.85	5.91	7.72	3/8
4400	5.91	13.19	6.89	11.24	1/2
8800	7.87	15.35	7.48	25.35	5/8
11000	9.84	20.79	11.61	37.48	7/8

Dimensions and approximate weights, certified product.

DOUBLE SHEAVE PULLEY



STEEL GUIDE RING



WLL (t)	DIMENSIONS (mm)			WEIGHT KG	WIRE ROPE (mm)
	PULLEY	A	B		
0,5	95	231	114	2,7	8
1	100	245	120	3,1	8
2	153	330	175	8,2	12
4	205	443	233	20,5	16

Dimensions and approximate weights, certified product.

CHARACTERISTICS

- Stamped steel body.
- Forged suspension shackle.
- Pulley mounted on bearing.
- Suspension with easy open and close system, tool-free.
- Recommended for use with wire rope.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.26 standard.
- Design factor 4:1.
- Brand: Gorila®

WLL (lb)	DIMENSIONS (In)			WEIGHT lb	WIRE ROPE (In)
	PULLEY	A	B		
1100	3.74	9.09	4.49	5.95	5/16
2200	3.94	9.65	4.72	6.83	5/16
4400	6.02	12.99	6.89	18.08	1/2
8800	8.07	17.44	9.17	45.19	5/8

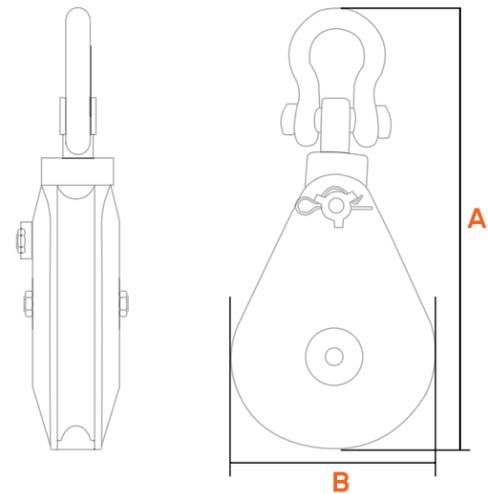
Dimensions and approximate weights, certified product.



SINGLE HEAVY DUTY SNATCH BLOCK WITH SHACKLE 30t

CHARACTERISTICS

- Stamped steel body.
- Forged suspension shackle.
- Pulley mounted on bearing.
- Suspension with easy open and close system, tool-free.
- Recommended for use with wire rope.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.26 standard.
- Design factor 4:1.
- Brand: Gorila®



WLL (t)	DIMENSIONS (mm)				WEIGHT KG
	PULLEY	CABLE	A	B	
30	500	32 A 35	1256	514	208

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (In)				WEIGHT lb
	PULLEY	CABLE	A	B	
66000	19.69	32 A 35	49.84	20.24	458.56

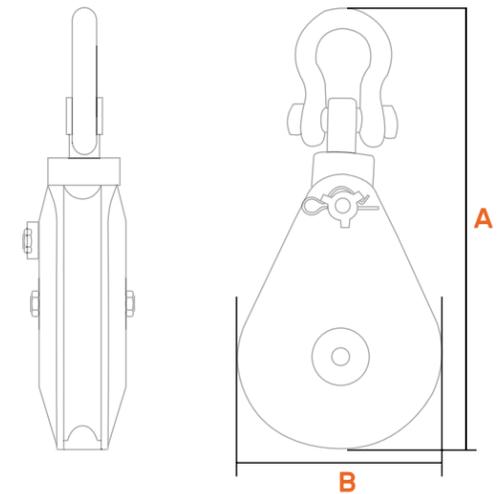
Dimensions and approximate weights, certified product.



SINGLE HEAVY DUTY SNATCH BLOCK WITH SHACKLE 50t

CHARACTERISTICS

- Stamped steel body.
- Forged suspension shackle.
- Pulley mounted on bearing.
- Suspension with easy open and close system, tool-free.
- Recommended for use with wire rope.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.26 standard.
- Design factor 4:1.
- Brand: Gorila®



WLL (t)	DIMENSIONS (mm)				WEIGHT KG
	PULLEY	CABLE	A	B	
50	600	46 A 50	1525	625	418

Dimensions and approximate weights, certified product.

WLL (lb)	DIMENSIONS (In)				WEIGHT lb
	PULLEY	CABLE	A	B	
110000	23.62	32 A 35	60.04	24.61	921.53

Dimensions and approximate weights, certified product.

SNATCH BLOCKS

• Lifting or pulling loads with snatch blocks without properly selecting the correct product and compatible accessories, or using them improperly, may cause serious injury or death.

• The correct selection of the snatch block and the suspension accessories can make the difference between excellence and disaster. The support or anchoring point must have equal or greater capacity than the snatch block.

• Improper use of snatch blocks causes premature wear of their components and the wire rope.

• The WLL is the maximum allowable load. Therefore, when selecting the product, consider the dynamic forces generated during lifting or pulling operations.

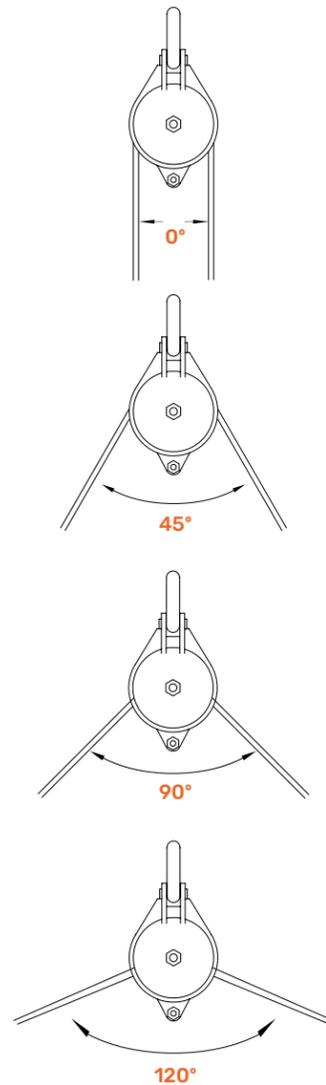
• The working loads indicated refer to products that are new or in good condition.

• Do not apply side loads and avoid dynamic loads. If the operation is performed in water, consider dynamic and impact loads.

• Stay clear of the operation and out of the line of fire.

• In a snatch block, the load will vary depending on the angle between the lines. For example, when both lines are parallel (0°) and the live line carries 1,000 kg (≈ 2,200 lb), the resulting load at the connection point is 2,000 kg (≈ 4,400 lb); and as the angle increases, the resulting load decreases.

• The working loads shown in the tables of this catalog are calculated for the suspension terminal based on the angle between the lines. Values do not account for loss of capacity due to friction.

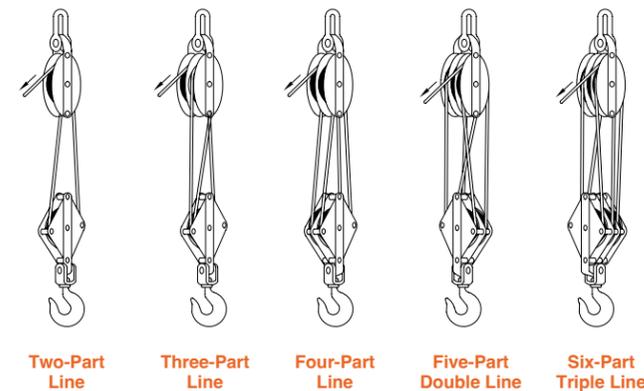
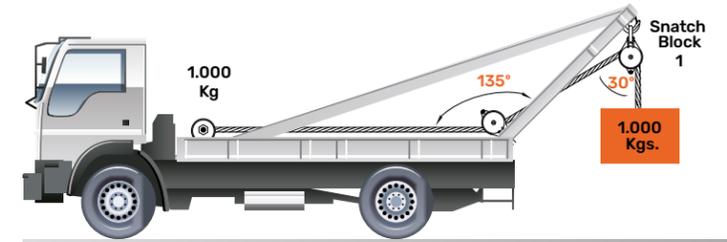


LOAD ANGLE	LOAD FACTOR
0°	2
10°	1,99
20°	1,97
30°	1,93
40°	1,87
45°	1,84
50°	1,81
60°	1,73
70°	1,64
80°	1,53
90°	1,41
100°	1,29
110°	1,15
120°	1
130°	0,84
135°	0,76
140°	0,68
150°	0,52
160°	0,35
170°	0,17
180°	0

RIGGING DESIGN

Depending on the configuration, number of snatch blocks, and sheaves used, the amount of force required to lift or pull a load can vary significantly. The effort will also change depending on the working angle of the wire rope in the snatch block.

For example, in a rigging setup with a single line pull configuration, the effort does not decrease. Therefore, no mechanical advantage is obtained.



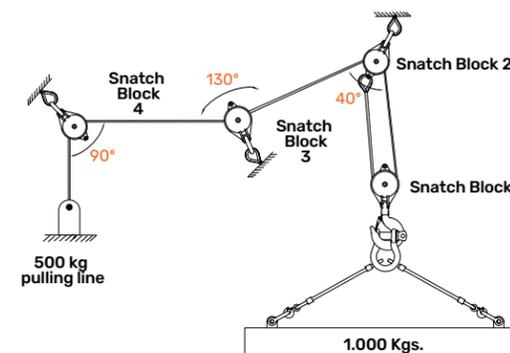
In these examples there is mechanical advantage. As the number of sheaves or lines increases, the pulling effort required decreases.

There are snatch blocks with one or multiple sheaves. When assembling a multi-sheave snatch block system, the haul line (live line) must be placed on the top of the center sheave.

In a rigging setup with two snatch blocks and one with more than two sheaves, the live line must always run over the center sheave of the upper snatch block, and both snatch blocks must remain with the sheaves positioned perpendicular to each other.

The wire rope installation must start from the dead end and must include a thimble.

INSPECTION AND MAINTENANCE



The inspection frequency depends on the severity of use; in any case, it must never exceed 12 months.

Wear, overloading, improper use, corrosion, component deformation, and any modification of parts affect the load rating. Snatch blocks showing wear on the shaft, seized or grooved sheave, or worn bushing must be removed from service.

Lubricate the bushing every eight hours of continuous use or every 14 days of intermittent use.

DYNAMOMETERS AND CRANE SCALES

- Dynamometers and crane scales are devices used to accurately determine the load to be lifted when the exact weight is unknown.
- They feature an internal sensor capable of measuring the tension generated during lifting or pulling operations.
- They are highly recommended to carry out operations with greater safety, reducing the likelihood of an accident.



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CHARACTERISTICS

- Instrument for "in situ" load measurement.
- Pressure die-cast aluminum housing.
- Anti-corrosion keypad.
- Overload protection circuit to extend battery life.
- Automatic shutdown after 30 minutes of inactivity or low-power alert.
- Large high-brightness red digits.
- Display safety overload of 150% of full scale.
- Reading time <10 seconds.
- Measurement in kg and lb.
- Design factor 4:1.
- Tag with unique traceability code.
- Proof load 2:1.
- Brand: Gorila®

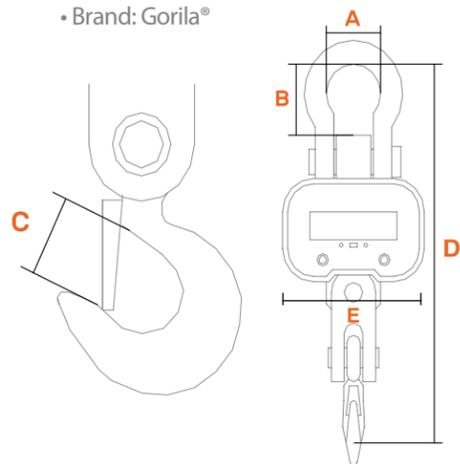
CRANE SCALE

WLL	MIN READING	DVISION	DIMENSIONS (mm)					WEIGHT
(t)	(Kg)	(Kg)	A	B	C	D	E	KG
3	20	1	73	93	32	485	230	13,4
5	40	2	91	116	42	585	230	20,6
10	100	5	98	125	43	675	232	40

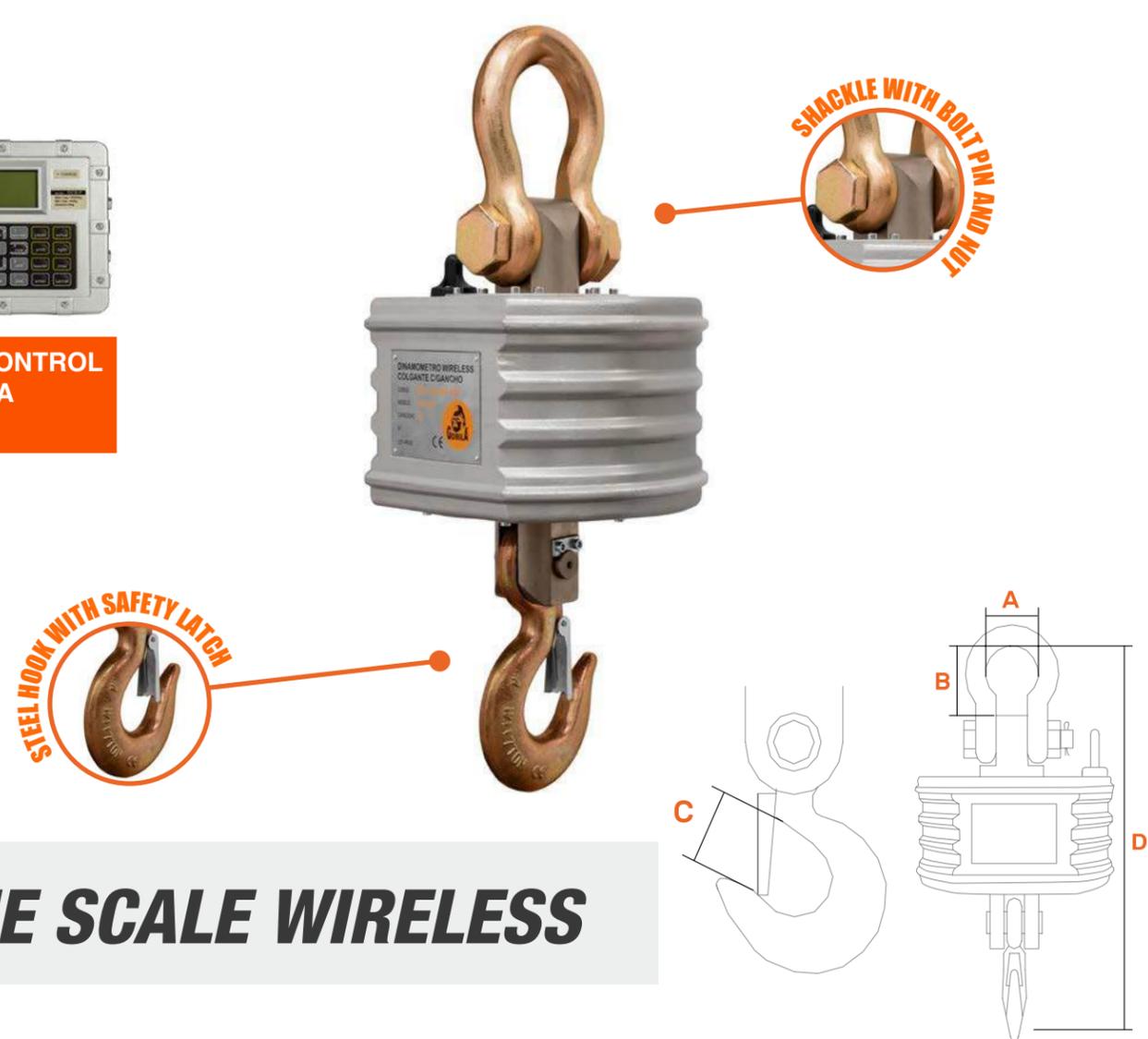
Dimensions and approximate weights, certified product.

WLL	MIN READING	DVISION	DIMENSIONS (In)					WEIGHT
(lb)	(lb)	(lb)	A	B	C	D	E	lb
6600	44.09	2.20	2.87	3.66	1.26	19.09	9.06	29.54
11000	88.18	4.41	3.58	4.57	1.65	23.03	9.06	45.41
22000	220.46	11.02	3.86	4.92	1.69	26.58	9.13	88.18

Dimensions and approximate weights, certified product.



PORTABLE CONTROL PANEL + DATA PRINTER



CRANE SCALE WIRELESS

CHARACTERISTICS

- Instrument for "in situ" load measurement.
- Steel body.
- Wireless remote control and display.
- Anti-corrosion keypad.
- Overload protection circuit to extend battery life.
- Automatic shutdown after 30 minutes of inactivity or low-power alert.
- Display safety overload of 150% of full scale.
- Reading time <10 seconds.
- Operating temperature -25 °C to +55 °C.
- Operating humidity 30% ~ 90% RH.
- Storage temperature -10 °C to +55 °C.
- Measurement in kg and lb.
- Tag with unique traceability code.
- Design factor 4:1.
- Proof load 2:1.
- Brand: Gorila®

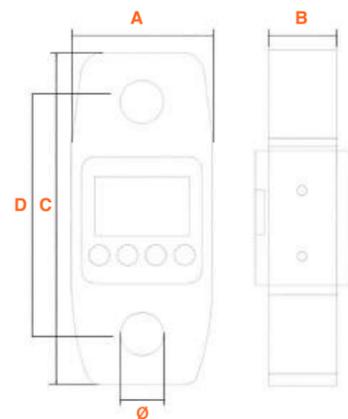
WLL	MIN READING	DVISION	DIMENSIONS (mm)				WEIGHT
(t)	(Kg)	(Kg)	A	B	C	D	KG
10	100	5	90	120	45	620	45
20	200	10	150	180	80	950	75
50	400	20	180	235	105	1350	390

Dimensions and approximate weights, certified product.

WLL	MIN READING	DVISION	DIMENSIONS (In)				WEIGHT
(lb)	(lb)	(lb)	A	B	C	D	lb
22000	220.46	11.02	3.54	4.72	1.77	24.41	99.21
44000	440.92	22.05	5.91	7.09	3.15	37.40	165.35
110000	881.85	44.09	7.09	9.25	4.13	53.15	859.80

Dimensions and approximate weights, certified product.

DYNAMOMETER



CHARACTERISTICS

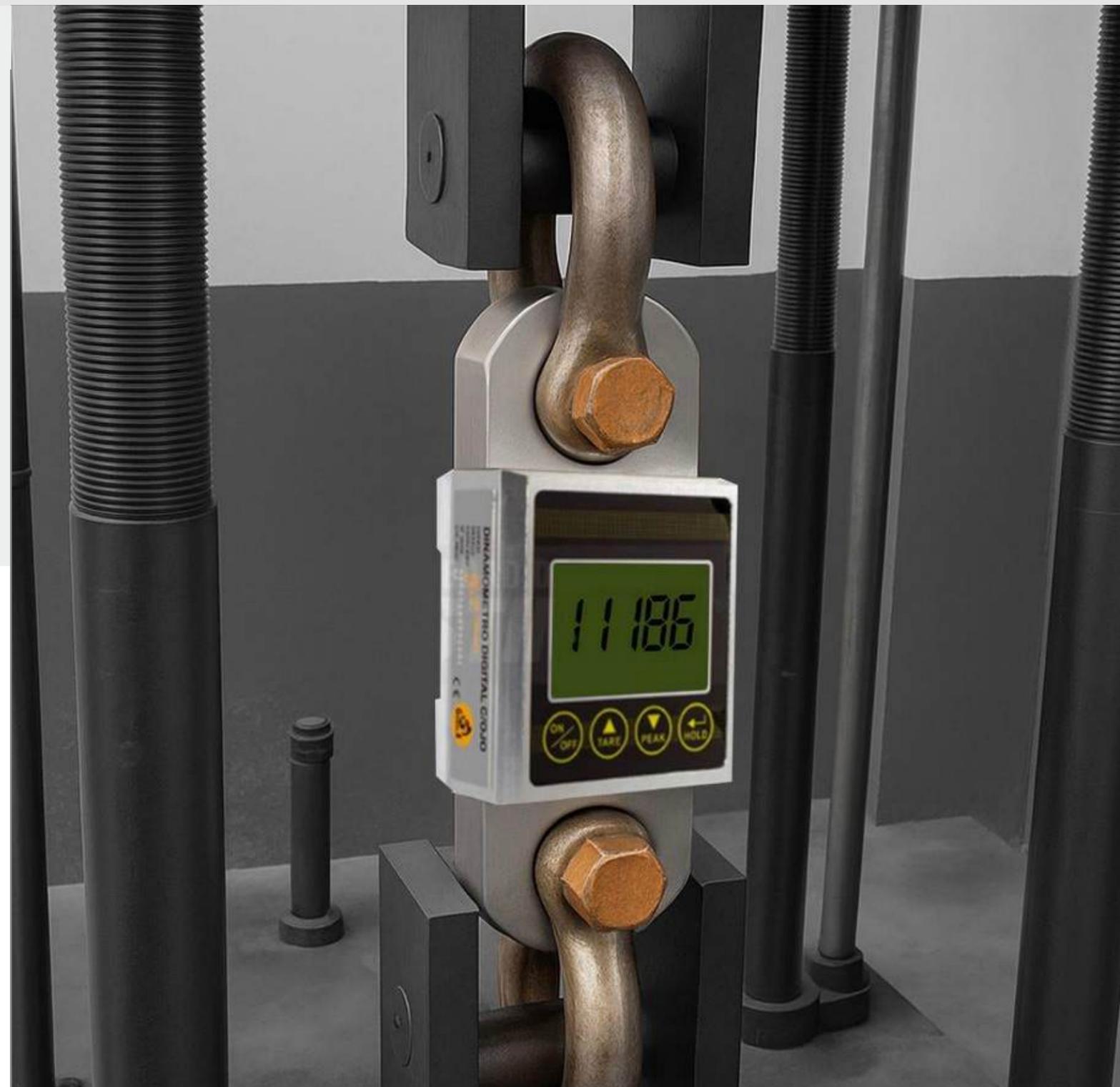
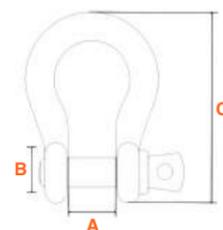
- Instrument for "in situ" load and tension measurement.
- Steel body.
- Anti-corrosion keypad.
- Overload protection circuit to extend battery life.
- Automatic shutdown after 30 minutes of inactivity or low-power alert.
- Display safety overload of 150% of full scale.
- Reading time <10 seconds.
- Measurement in kg and lb.
- Tag with unique traceability code.
- Design factor 4:1.
- Proof load 2:1.
- Brand: Gorila®

WLL	MIN READING	DVISION	DIMENSIONS (mm)					WEIGHT
(t)	(Kg)	(Kg)	A	B	C	D	E	KG
3	3	1	91	30	230	165	25,6	1,5
5	5	2	91	30	230	165	31,8	3,3
10	10	5	90	48	280	195	38	6,7

Dimensions and approximate weights, certified product.

WLL	MIN READING	DVISION	DIMENSIONS (In)					WEIGHT
(lb)	(lb)	(lbg)	A	B	C	D	E	lb
22000	220.46	11.02	3.54	4.72	1.77	24.41	?	99.21
44000	440.92	22.05	5.91	7.09	3.15	37.40	?	165.35
110000	881.85	44.09	7.09	9.25	4.13	53.15	?	859.80

Dimensions and approximate weights, certified product.



Recommended Compatible Connection Elements (Shackles)

CAPACITY	CAPACITY	SHACKLE TYPE	SHACKLE DIAMETER	DIMENSIONS						WEIGHT	
				A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	KG	lb
3	6,600	SCREW PIN ANCHOR SHACKLE	3/4	32.00	1.26	22.10	0.87	71.12	2.80	1.1	2.43
5	11,000	SCREW PIN ANCHOR SHACKLE	7/8	37.08	1.46	25.40	1.00	64.01	2.52	1.5	3.31
12	26,400	SCREW PIN ANCHOR SHACKLE	1 1/4	53.09	2.09	35.05	1.38	118.11	4.65	4.5	9.92

Dimensions and approximate weights, certified product.

USE OF THE DYNAMOMETERS AND CRANE SCALES

PRELIMINARY INSPECTION:

- Before each use, perform a complete visual inspection of the dynamometers and crane scales.
- Verify that there are no signs of wear, damage to the casing, or deterioration of the hook or eye.

CALIBRATION:

- Ensure that the dynamometers and crane scales are properly calibrated according to the manufacturer's specifications.
- Verify calibration regularly to maintain accuracy.

PLACEMENT OF THE DYNAMOMETERS AND CRANE SCALES:

- Securely attach the dynamometers and crane scales to the lifting point, using a shackle.
- Ensure that the dynamometers and crane scales are aligned in a straight line with the load to obtain accurate measurements.

OPERATION:

- Lift the load smoothly and without sudden movements.
- Continuously monitor the weight displayed on the dynamometers and crane scales during lifting.

Never exceed the specified load limits.

Always consider the maximum capacity of the dynamometers and crane scales and the strength of the lifting equipment. Avoid accidents.

MAINTENANCE

- Regularly clean the dynamometers and crane scales to remove dust, dirt, or any other substance that may affect their performance.
- Store the dynamometers and crane scales in a dry and weather-protected place when not in use.
- Avoid storing the equipment in extreme temperature conditions.
- Conduct detailed inspections at regular intervals to identify any wear or damage.
- Pay special attention to the integrity of the shackle or eye and the digital display.
- Schedule regular calibrations with a certified laboratory to ensure the accuracy of the dynamometers and crane scales.
- Eye-to-eye dynamometers and crane scales are not calibration-sensitive; however, with proper use they should maintain accuracy within the ranges permitted by applicable standards.
- It is recommended to keep a detailed log of operations in which the dynamometers and crane scales are used, including dates, loads, and working conditions.
- Ensure that personnel operating the dynamometers and crane scales are properly trained and up to date on safety practices and equipment handling.

MAGNETIC LIFTERS

- The powerful magnetic lifter provides a constant magnetic hold without the need for electrical power or batteries.
- Highly useful for operations requiring the lifting of steel materials such as plates, cylinders, or objects with complex geometric shapes.



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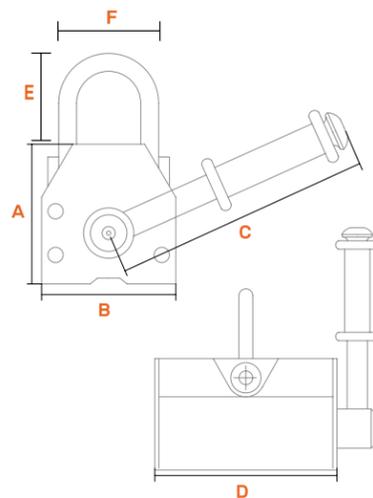




MAGNETIC LIFTERS

CHARACTERISTICS

- Lightweight
- Double-locking lever
- Easy operation
- Standards: ASME B30.20 and EN 13155
- Tag with unique traceability code
- Safety factor 3:1
- Brand: Gorila®



WLL	MAX. PULLING FORCE	MAX. OPERATING TEMP.	DIMENSIONS (mm)				WEIGHT
(t)	(Kg)	(°C)	A	B	C	D	Kg
0,2	750	<-80	78	81	146	145	5,4
0,6	2100	<-80	114	116	218	225	20
1	3500	<-80	145	145	272	295	40
2	6000	<-80	160	170	388	365	74

Dimensions and approximate weights, certified product.

WLL	MAX. PULLING FORCE	MAX. OPERATING TEMP.	DIMENSIONS (In)				WEIGHT
(lb)	(lb)	(°F)	A	B	C	D	lb
440	1,653	<176	3.07	3.19	5.75	5.71	11.9
1,300	4,630	<176	4.49	4.57	8.58	8.86	44.1
2,200	7,716	<176	5.71	5.71	10.71	11.61	88.2
4,400	13,228	<176	6.30	6.69	15.28	14.37	163.1

Dimensions and approximate weights, certified product.



MODELS AND CAPACITIES

MODEL		WLL				MAX. LOAD TEST		WEIGHT	
		STEEL PLATES		STEEL PIPES					
(Kg)	(lb)	(Kg)	(lb)	(Kg)	(lb)	(Kg)	(lb)	(Kg)	(lb)
100	200	100	200	–	–	300	700	3.2	7.05
200	400	200	400	90	200	600	1,300	5.4	11.90
400	900	400	900	180	400	1200	2,600	11	24.25
600	1,300	600	1,300	270	600	1800	4,000	20	44.10
1000	2,200	1000	2,200	450	1,000	3000	6,600	40	88.18
1500	3,300	1500	3,300	675	1,500	4500	9,900	48	105.82
2000	4,400	2000	4,400	900	2,000	6000	13,200	74	163.14
3000	6,600	3000	6,600	900	2,000	9000	19,800	105	231.48
5000	11,000	5000	11,000	1500	3,300	15000	33,000	248	546.74

Load capacities vary depending on the component and size.

LOAD CALCULATIONS

To calculate the lifting capacity when using a magnetic lifter, the following aspects must be considered:

- Weight of the load
- Thickness of the piece to be lifted
- Air gap between the steel plate and the magnetic lifter
- Type of steel
- Balance grade
- Finish and roughness of the contact surface

LOADS AND MATERIAL STRENGTH REDUCTION FACTORS

MODEL	PLATE THICKNESS		MAXIMUM LOAD STRENGTH TEST					
	mm	In	3t (6600 lb)	2t (4400 lb)	1t (2200 lb)	0.6t (1320 lb)	0.4t (880 lb)	0.1t (220 lb)
T1	> 60	> 2.36	100%	100%				
T2	55	2.16	95%	100%				
T3	50	1.97	90%	95%	100%			
T4	45	1.77	85%	90%		100%		
T5	40	1.57	80%	85%			100%	
T6	35	1.38	70%	75%	90%			100%
T7	30	1.18	60%	65%	80%			
T8	25	0.98	50%	55%	70%	90%		
T9	20	0.79	40%	45%	60%	75%	90%	
T10	15	0.59	30%	35%	50%	60%	70%	
T11	10	0.39	20%	25%	35%	45%	50%	70%
T12	5	0.20	10%	15%	20%	25%	30%	40%

Reference table for the roughness of a smooth surface, type of material, and lifting capacity for load calculations.

ROUGHNESS (μm)	LIFTING EFFICIENCY
1.6 μm	125%
6.3 μm	100%
12.6 μm	90%
> 12.6 μm	80%

TYPE OF STEEL	LIFTING EFFICIENCY
Low carbon steel	100%
Medium carbon steel	95%
High carbon steel	85%
Low alloy steel	75%
Cast iron	67%

LIFTING CLAMPS AND GRABS



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GORILA LIFTING CLAMPS AND GRABS

Gorila lifting clamps and grabs comply with European Standard EN 13155 and ASME B30.20. As a result, they are able to meet and exceed the highest and most demanding global standards. GORILA is known for offering long service life cycles, high reliability, and maximum safety. Users of lifting clamps and grabs are found across a wide range of industries, such as:

- **Machinery construction**
- **Chemical industry**
- **Metalworking shops**
- **Mining**
- **Pipe installation**
- **Automotive industry**
- **Shipyards**
- **Forestry**
- **Steel structure production for buildings, bridges, etc.**
- **Road construction**



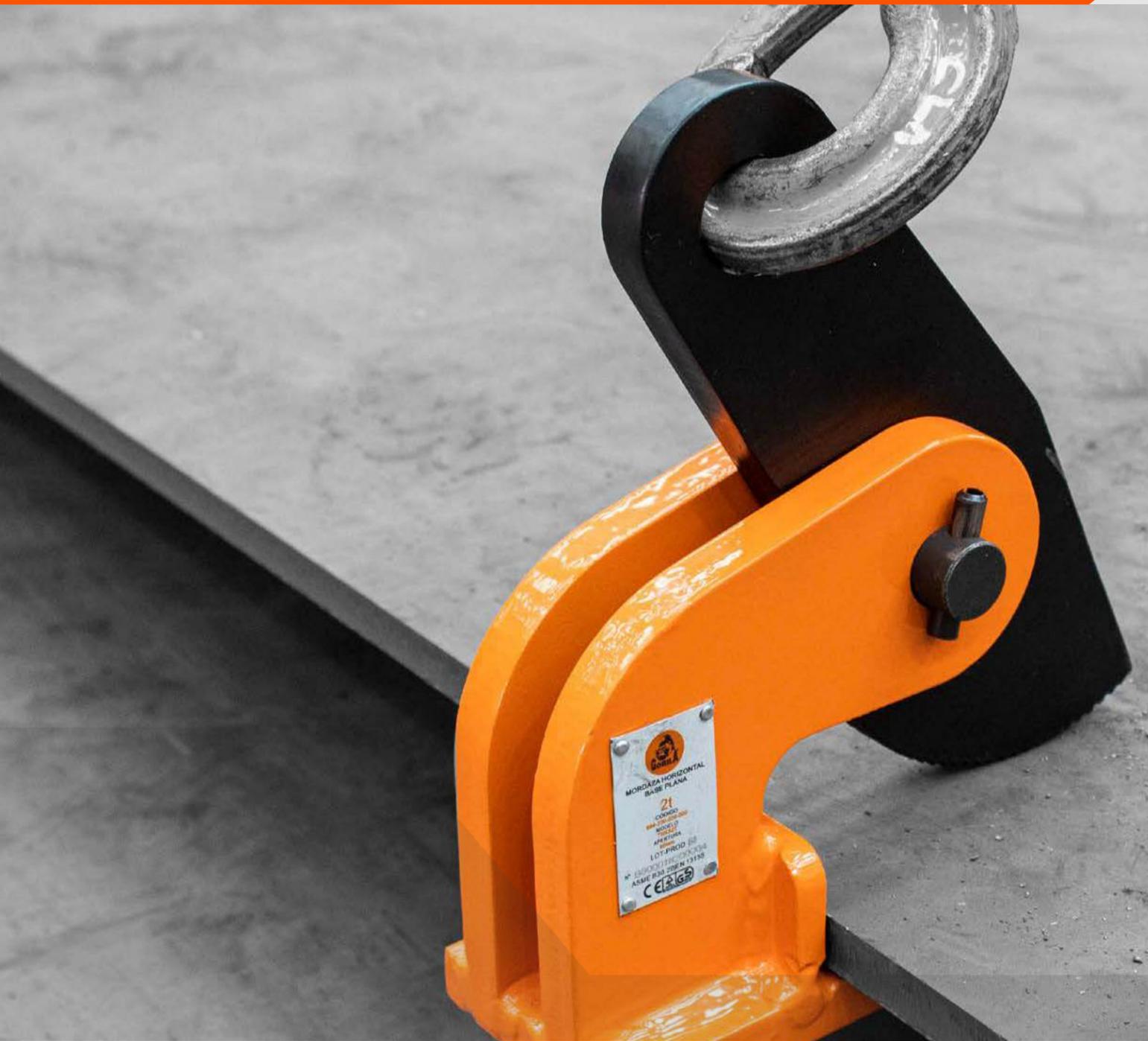
OUR CLAMPS ARE DEVELOPED USING PANASONIC ROBOT TECHNOLOGY.

INSTRUCTIONS FOR THE USE OF LIFTING CLAMPS AND GRABS

IMPORTANT TO CONSIDER

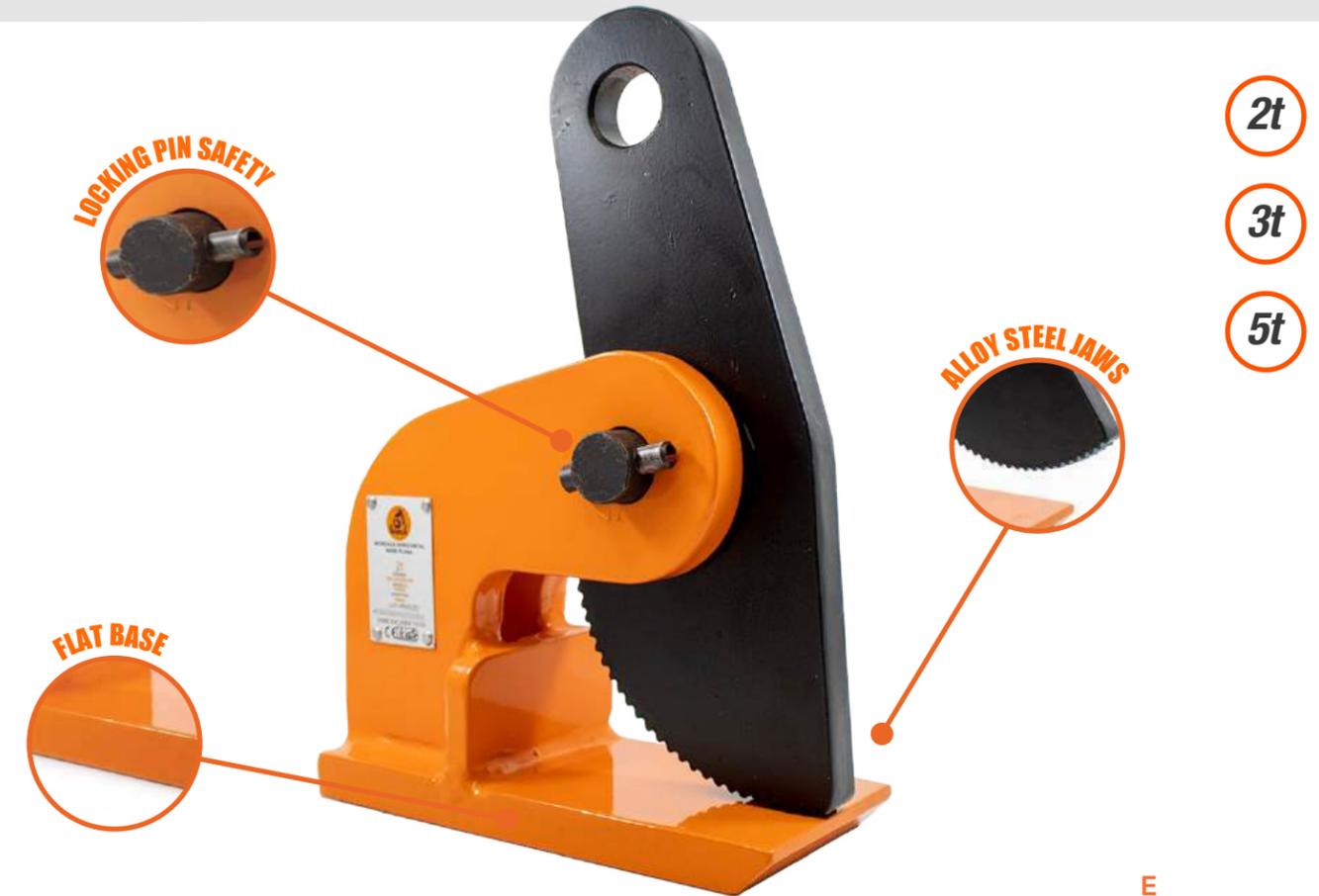
- To generate sufficient clamping force, the load must weigh at least 10% of the nominal rated capacity of the clamp. This means that the minimum load to be lifted with a 1 t (≈2,200 lb) lifting clamp is 100 kg (≈220 lb).
- During the lifting process, no personnel are allowed under the load and/or within the danger zone.
- Lifting clamps and grabs must be used within the temperature range of -20°C (≈-4°F) to +100°C (≈212°F) (ambient and/or load temperature).
- Maximum permissible surface hardness of the material to be clamped: 300 HB (HRC 32).
- Always remove dust, paint, oil, or any foreign substance from the surface before clamping.
- Never exceed the rated load capacity of the lifting clamps and grabs.





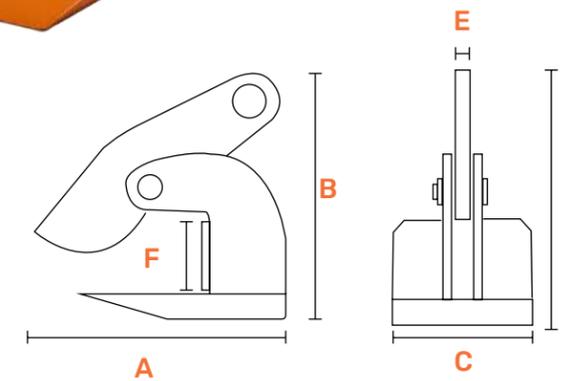
HORIZONTAL PLATE CLAMP

- Suitable for lifting and transporting steel plates, steel profiles, and construction elements in a horizontal position.
- Manufactured from high-quality alloy steel.



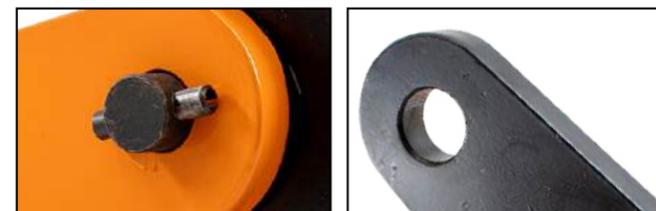
CHARACTERISTICS

- Alloy steel body
- Machined and heat-treated alloy steel jaws
- Gravity-operated mechanism
- Tag with unique traceability code
- Meets or exceeds ASME B30.20 and EN 13155
- Safety factor 4:1
- Brand: Gorila®



WLL		DIMENSIONS												WEIGHT	
(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	D (mm)	D (In)	E (mm)	E (In)	F (mm)	F (In)	KG	lb
2	4,400	40	1.57	172	6.77	10	0.39	40	1.57	47	1.85	0-60	0-2.36	5	11
3	6,600	45	1.77	183	7.20	14	0.55	45	1.77	50	1.97	0-60	0-2.36	6	13
5	11,000	55	2.17	183	7.20	16	0.63	55	2.17	56	2.20	0-60	0-2.36	7.75	17

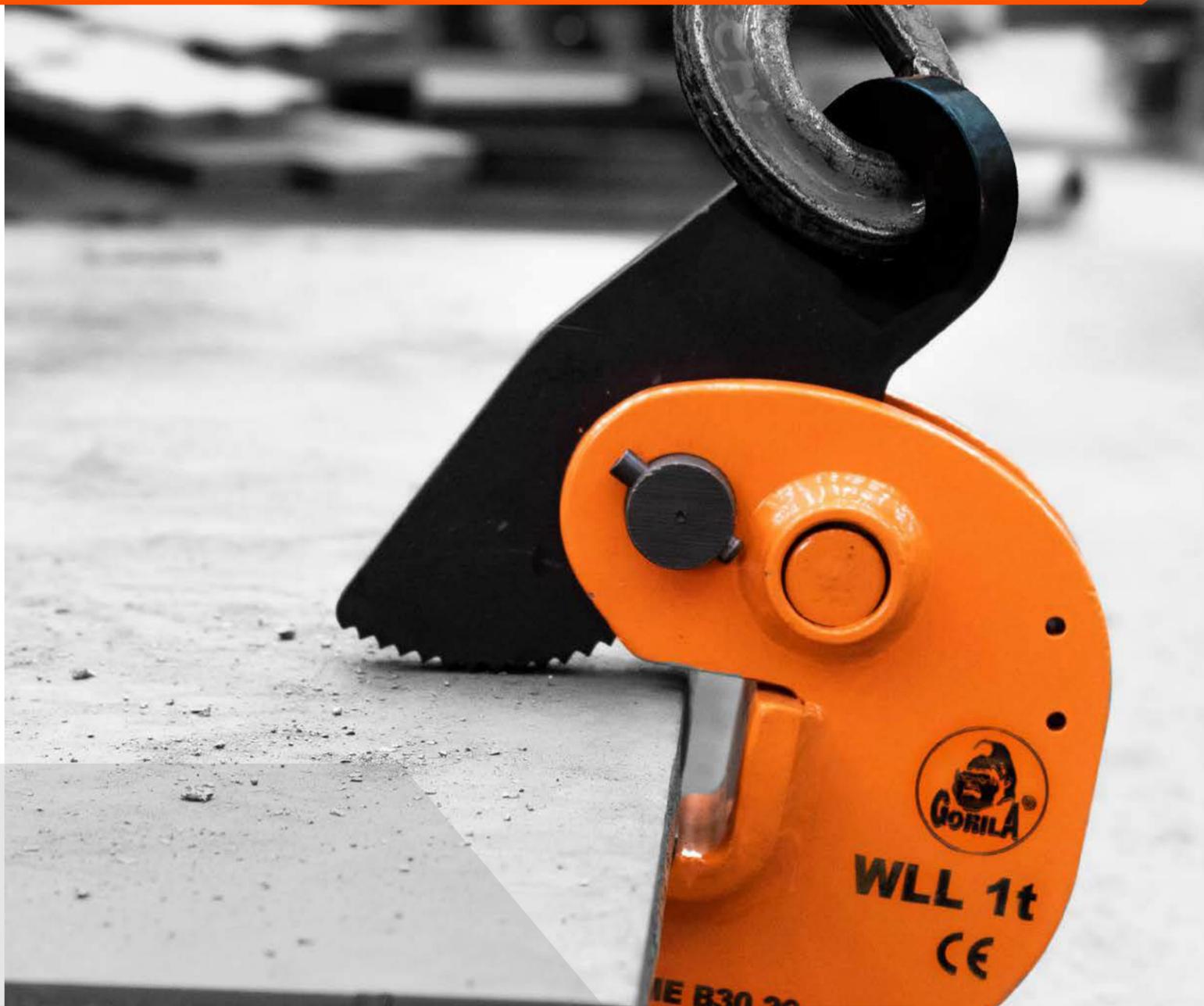
Dimensions and approximate weights, certified product.



RECOMMENDATION

ACCESSORIES FOR USE





INDUSTRY STANDARD HORIZONTAL PLATE CLAMP

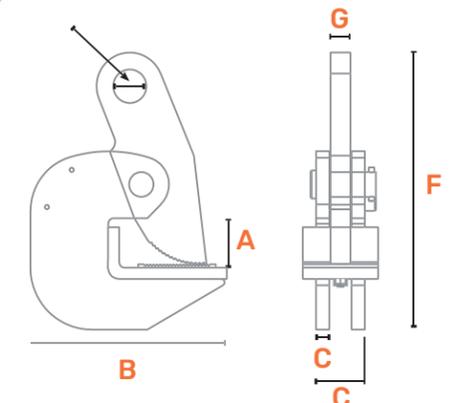
- Suitable for lifting and transporting steel plates, profiles, and structural elements in a horizontal position
- Manufactured from high-quality alloy steel and equipped with a button-type safety locking mechanism



- 1t
- 2t
- 3t
- 5t
- 10t

CHARACTERISTICS

- Alloy steel body
- Machined jaws in hardened alloy steel
- Gravity-operated mechanism
- Label with unique traceability code
- Complies with or exceeds ASME B30.20 and EN 13155
- Safety factor 4:1
- Brand: Gorila®



WLL		DIMENSIONS														WEIGHT	
(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	D (mm)	D (In)	E (mm)	E (In)	F (mm)	F (In)	G (mm)	G (In)	KG	lb
1	2,200	30	1.2	148	5.8	10	0.4	25	1.0	40	1.6	205	8.1	16	0.6	2.5	5.5
2	4,400	40	1.6	172	6.8	10	0.4	25	1.0	47	1.9	245	9.6	18	0.7	5	11
3	6,600	45	1.8	183	7.2	14	0.6	28	1.1	50	2.0	245	9.6	18	0.7	6	13.2
5	11,000	55	2.2	183	7.2	16	0.6	30	1.2	56	2.2	260	10.2	20	0.8	7.75	17
10	22,000	125	4.9	325	12.8	22	0.9	40	1.6	75	3.0	500	19.7	28	1.1	33	73

Dimensions and approximate weights, certified product.

RECOMMENDATION

ACCESSORIES FOR USE



IMPORTANT TO CONSIDER

Never attach the clamp directly to the crane hook. It must be connected through a suitable lifting medium that provides flexibility. Ensure that the main link is large enough for the crane hook.

CONFIGURATIONS



1t / 2t / 3t / 5t / 10t



CHAIN SLING



WIRE ROPE SLING

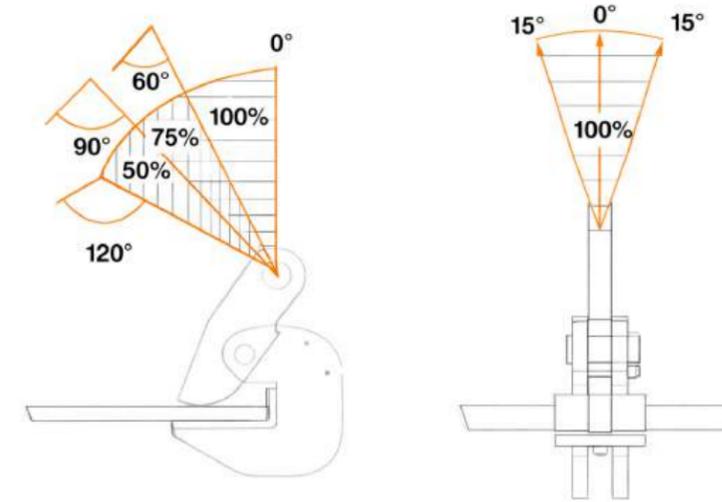


SYNTHETIC SLINGS

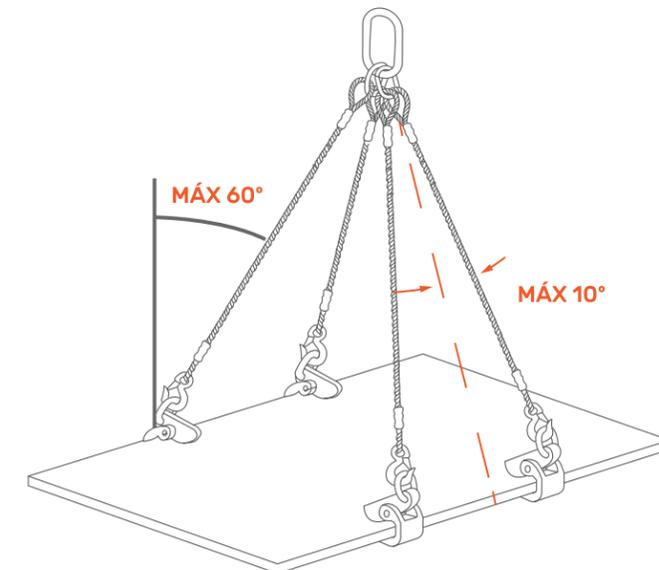


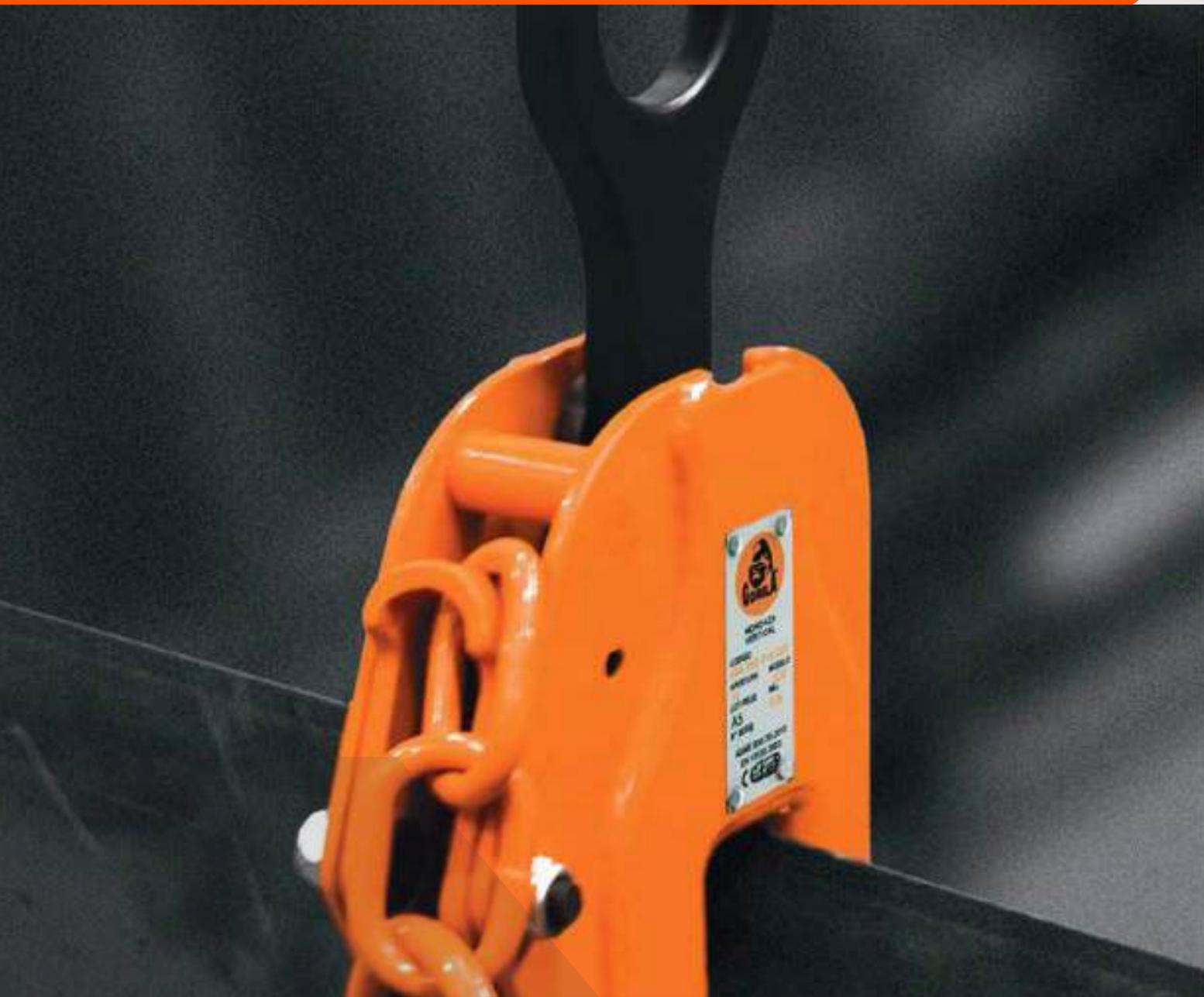
IMPORTANT TO CONSIDER

For horizontal lifting using clamps, the indicated Working Load Limit (WLL) is valid up to an inclination angle of 30°. Inclination angles greater than 30° increase the load on the clamp, which results in a reduction of the clamp's working load capacity.



Please ensure that the clamp's working load limit matches the sling's load capacity.





STANDARD PLATE CLAMP WITH SAFETY LOCK

- Recommended for vertical lifting of steel plates and structures
- Spring-loaded clamping mechanism ensures an initial positive gripping force
- Equipped with a safety system to prevent the load from slipping during lifting or unloading



CHARACTERISTICS

- Steel body
- Hardened alloy steel jaws
- Articulated mechanism, gravity-activated
- Label with unique traceability code
- Complies with or exceeds ASME B30.20 and EN 13155
- Safety factor 4:1
- Brand: Gorila®

WLL		JAW OPENING		DIMENSIONS										WEIGHT	
(t)	(lb)	(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	D (mm)	D (In)	E (mm)	E (In)	KG	lb
1	2,200	25	1.0	124	4.9	158	6.2	50	2.0	30	1.2	14	0.6	3.6	7.9
2	4,400	30	1.2	154	6.1	190	7.5	54	2.1	40	1.6	16	0.9	5.5	12
3	6,600	40	1.6	180	7.1	230	9.1	60	2.4	50	2.0	18	0.7	10	22
5	11,000	50	2.0	222	8.7	283	11.1	68	2.7	62	2.4	18	0.7	17	37
10	22,000	90	3.5	290	11.4	265	10.4	80	3.1	90	3.5	25	1.0	32	71

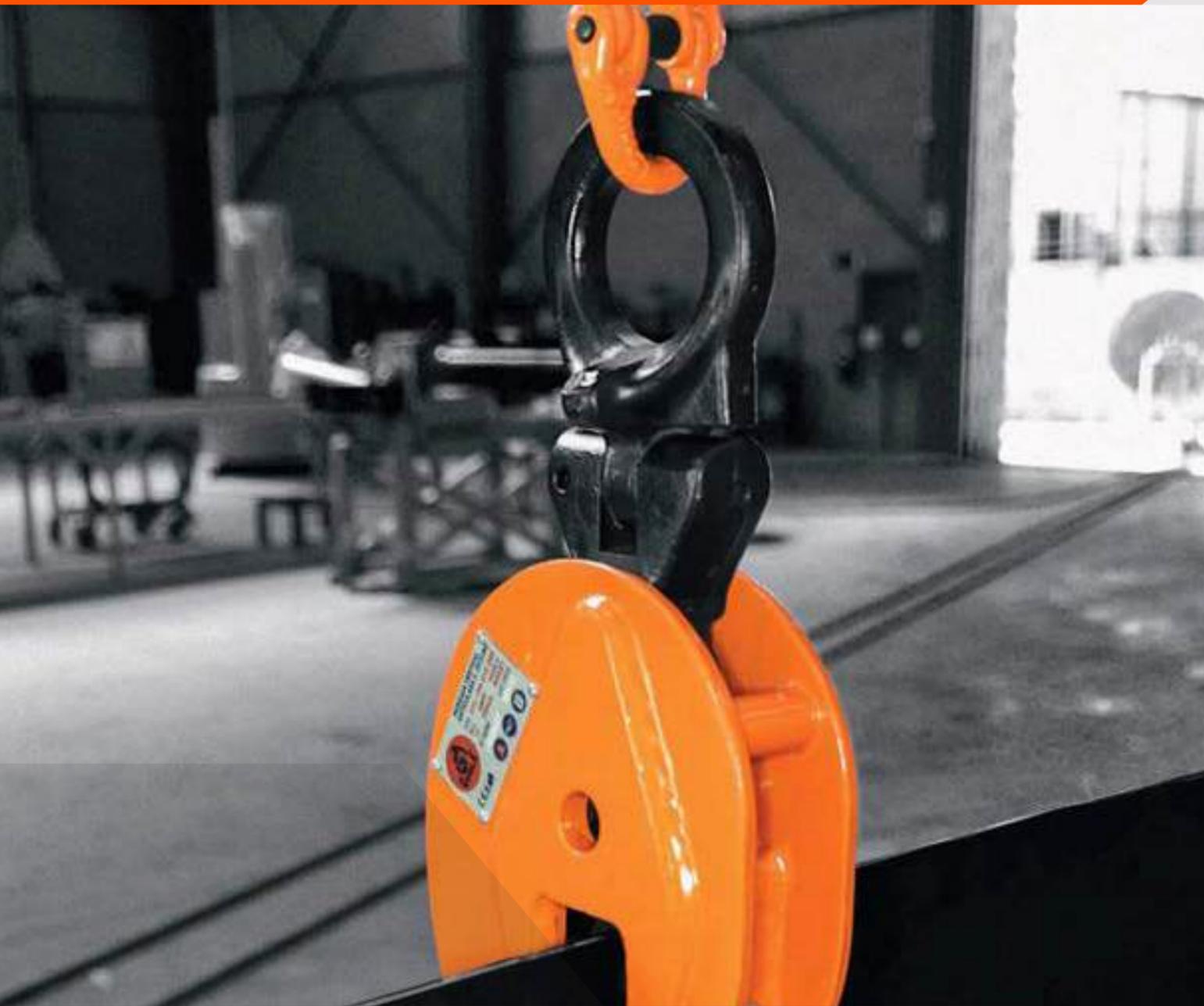
Dimensions and approximate weights, certified product.



RECOMMENDATION

ACCESSORIES FOR USE





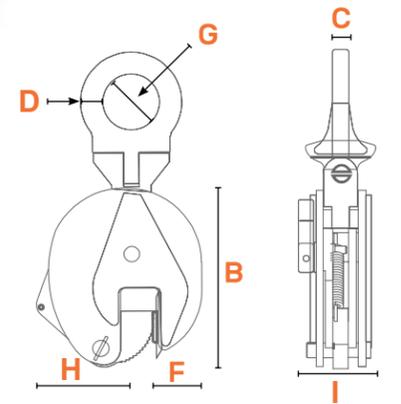
VERTICAL PLATE CLAMP ARTICULATED

- Thanks to its 180° articulated jaw, it is recommended for transporting steel plates and structures in any position
- Equipped with a safety mechanism that ensures the teeth grip firmly during lifting or unloading operations, and can be locked in both open and closed positions



CHARACTERISTICS

- Body manufactured in steel.
- Alloy steel jaws, hardened and normalized.
- Articulated mechanism, operates by gravity.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.20 and EN 13155 standards.
- Safety factor 4:1
- Brand: Gorila®



WLL	OPENING		DIMENSIONS																WEIGHT		
	(t)	(lb)	(t)	(lb)	A (mm)	A (in)	B (mm)	B (in)	C (mm)	C (in)	D (mm)	D (in)	F (mm)	F (in)	G (mm)	G (in)	H (mm)	H (in)	I (mm)	I (in)	KG
1	2,200	20	0.79	170	6.69	170	6.69	12	0.47	16	0.63	25	0.98	40	1.57	20	0.79	60	2.36	3.6	7.9
2	4,400	25	0.98	205	8.07	205	8.07	18	0.71	22.5	0.89	25	0.98	40	1.57	20	0.79	65	2.56	5.5	12.1
3.2	7,000	30	1.18	237	9.33	237	9.33	20	0.79	28	1.10	45	1.77	68	2.68	25	0.98	90	3.54	10	22
5	11,000	50	1.97	262	10.31	262	10.31	20	0.79	28	1.10	45	1.77	68	2.68	25	0.98	102	4.02	17	37
8	17,600	55	2.17	327	12.87	327	12.87	26	1.02	33	1.30	50	1.97	79	3.11	25	0.98	112.5	4.43	25	55
12	26,400	110	4.33	380	14.96	380	14.96	25	0.98	38	1.50	50	1.97	70	2.76	25	0.98	121	4.76	32	71
16	35,200	110	4.33	410	16.14	410	16.14	35	1.38	28	1.10	50	1.97	70	2.76	25	0.98	128	5.04	45	99

Dimensions and approximate weights, certified product.



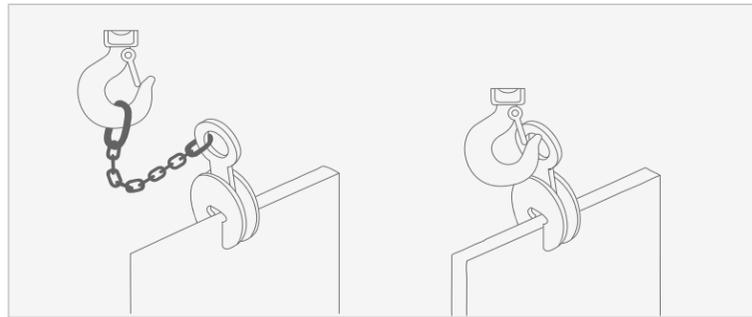
RECOMMENDATION

ACCESSORIES FOR USE



IMPORTANT TO CONSIDER

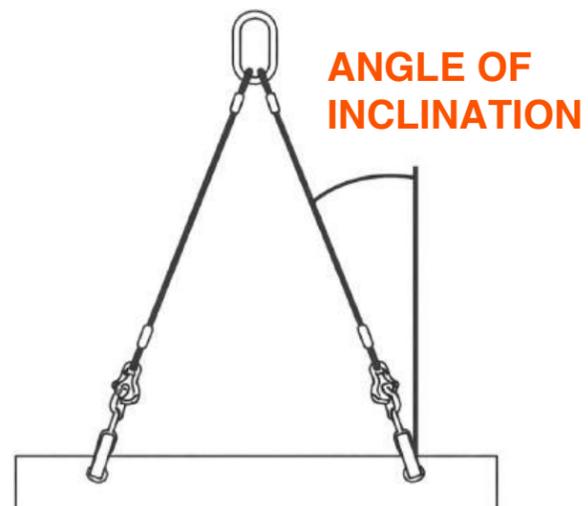
Never attach the clamp directly to the crane hook. It must be connected through a suitable lifting medium that provides flexibility. Ensure that the main link is large enough for the crane hook.



CORRECT

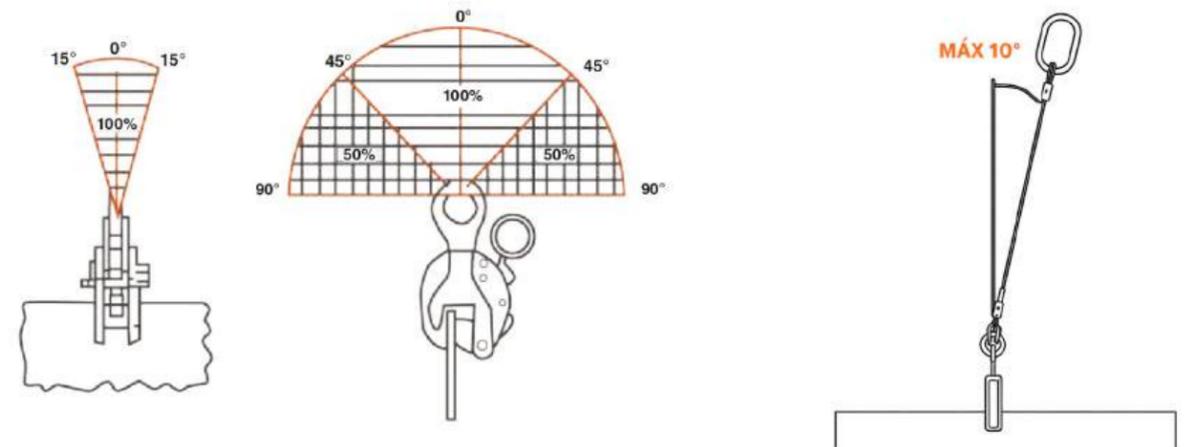
INCORRECT

When operating with two clamps, they must maintain the same sling angle. Another option is to use clamps with a swivel hook. Please ensure that the clamp's working load limit (WLL) matches the sling's load capacity.

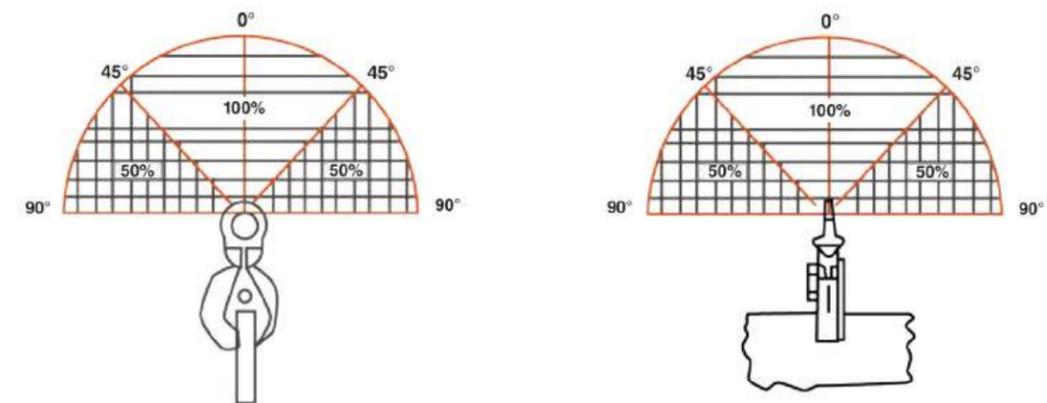


IMPORTANT TO CONSIDER

For vertical clamps with fixed suspension, lifting is not permitted with a transversal inclination greater than 15°. They are not designed for diagonal pulling.



Articulated vertical clamps allow a wider range of working angles in the transversal direction, but with a reduction of the nominal load capacity to 50% for angles greater than 45°.





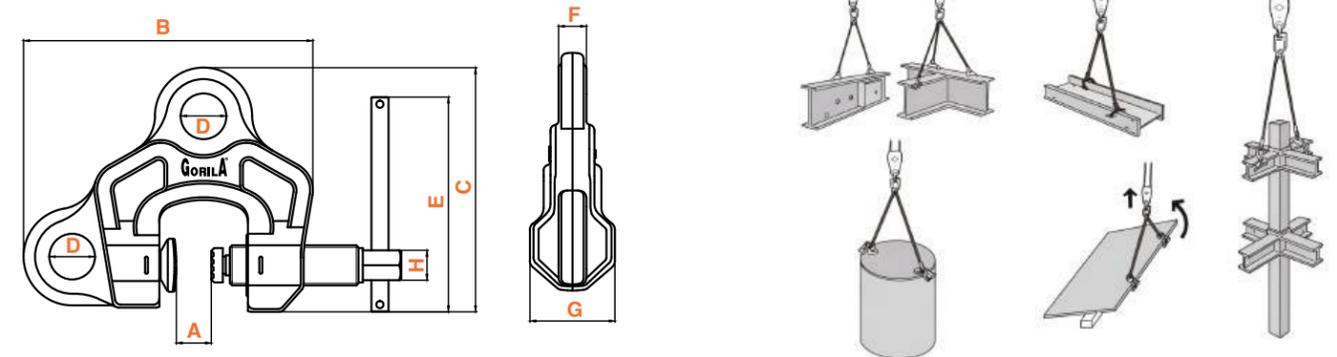
UNIVERSAL SCREW CLAMP DOUBLE EYE TYPE

A wonderful and universal high-tech clamp capable of performing the work of several models by itself. Lifting, turning, moving, suspending, tensioning, and holding parts.



CHARACTERISTICS

- A double circular cam locking method is used, providing higher clamping force and safe operation.
- Two suspension holes allow lifting in multiple directions.
- The spherical and universal screw cam design provides additional clamping force on the workpiece, even under vibration during lifting.
- Main body is drop-forged from special alloy steel.
- Safety factor 5:1
- Brand: Gorila®



CAPACITY AND DIMENSIONS

CÓDIGO	ITEM No.	WLL		JAW OPENING A		DIMENSIONS														WEIGHT		MINIMUM TIGHTENING TORQUE
		(t)	(lb)	(mm)	(in)	B (mm)	B (in)	C (mm)	C (in)	D (mm)	D (in)	E (mm)	E (in)	F (mm)	F (in)	G (mm)	G (in)	H (mm)	H (in)	KG	lb	
60801	STB-1	1	2,200	0-40	0-1.57	203	7.99	170	6.69	Ø 32	Ø 1.26	150	5.91	20	0.79	61	2.40	21	0.83	4.3	9.5	25 N.M
60802	STB-2	2	4,400	0-40	0-1.57	226	8.90	190	7.48	Ø 36	Ø 1.42	150	5.91	27	1.06	76	2.99	21	0.83	8.2	18	25 N.M
60803	STB-3.2	3.2	7,050	5-40	0.20-1.57	250	9.84	205	8.07	Ø 45	Ø 1.77	150	5.91	33	1.30	86	3.29	21	0.83	10	22	25 N.M

Dimensions and approximate weights, certified product.



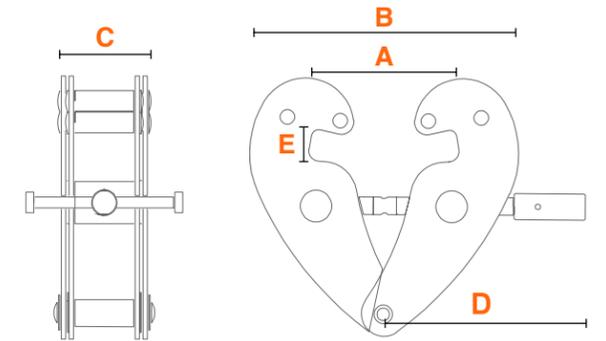
BEAM CLAMP WITH SHACKLE

- Beam hanging clamps provide a quick and versatile lifting point for hoists, snatch blocks, pulleys, etc., standing out for their wide opening range.
- Features a threaded central spindle with locking system for quick adjustment and secure grip.



CHARACTERISTICS

- Alloy steel body.
- Simple screw adjustment and tightening system.
- Allows load tensioning and hoist support.
- Label with unique traceability code.
- Meets or exceeds ASME B30.20 and EN 13155 standards.
- Safety factor 4:1.
- Brand: Gorila®



WLL		APERTURE		DIMENSIONS								WEIGHT	
(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	D (mm)	D (In)	E (mm)	E (In)	KG	lb
1	2,200	75-230	2.95-9.06	360-180	14.17-7.09	81	3.19	215	8.46	24	0.94	3.8	8.38
2	4,400	75-230	2.95-9.06	400-185	15.75-7.28	85	3.35	225	8.86	25	0.98	4.8	10.58
3	6,600	80-320	3.15-12.60	490-235	19.29-9.25	103	4.06	260	10.24	40	1.57	9.2	20.28
5	11,000	90-310	3.54-12.20	490-235	19.29-9.25	110	4.33	260	10.24	40	1.57	11	24.25
10	22,000	90-320	3.54-12.60	505-320	19.88-12.60	120	4.72	280	11.02	42	1.65	15.5	34.17

Dimensions and approximate weights, certified product.



RECOMMENDATION

EQUIPMENTS FOR USE



ACCESSORIES FOR USE





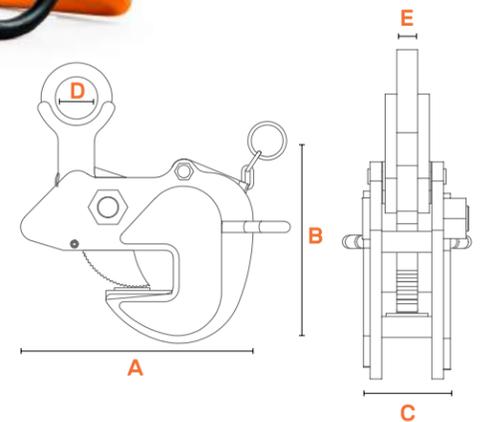
HORIZONTAL PLATE CLAMP WITH SAFETY LOCK

- Designed for horizontal lifting and transporting of steel structures shaped as “H”, “I”, “T”, “L”, as well as steel plates in general
- Manufactured from alloy steel; includes a non-slip serrated jaw, an operating chain, and a handle to assist during installation and removal of the clamp on the structure to be lifted
- Must be used in pairs: 2 units for lifting beams, and in sets of 4 for lifting steel plates



CHARACTERISTICS

- Alloy-steel body.
- Simple screw adjustment and tightening.
- Allows load tensioning and hoist support.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.20 and EN 13155.
- Safety factor 4:1
- Brand: Gorila®



WLL		OPENING		DIMENSIONS										WEIGHT	
(t)	(lb)	(mm)	(in)	A (mm)	A (in)	B (mm)	B (in)	C (mm)	C (in)	D (mm)	D (in)	E (mm)	E (in)	KG	lb
1	2,200	25	0.98	262	10.32	155	6.10	60	2.36	50	1.97	16	0.63	3.6	7.94
2	4,400	30	1.18	280	11.02	177	6.97	72	2.83	56	2.20	16	0.63	5.5	12.13
5	11,000	40	1.57	380	14.96	251	9.88	104	4.09	60	2.36	28	1.10	17	37.48

Dimensions and approximate weights, certified product.



RECOMMENDATION

ACCESSORIES FOR USE



BEAM HANGING CLAMP

The beam hanging clamp allows easy adjustment to the beam flange by means of a screw. It allows the use of hoists that comply with the design factor required by the standard.



1t / 2t / 3t / 5t / 10t

CONFIGURATIONS

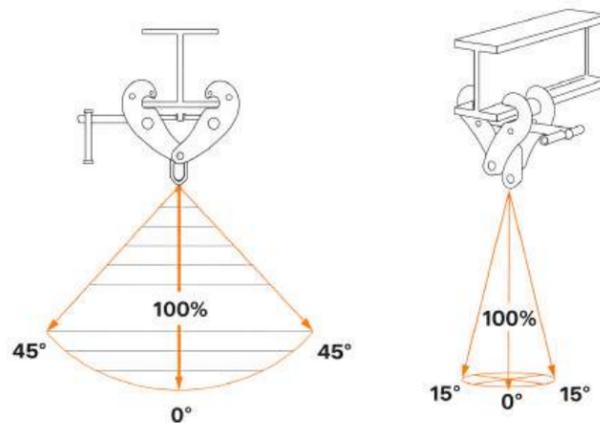


LEVER HOIST



CHAIN HOIST

When operating the beam hanging clamp, the direction of the applied load must be taken into account. Its use is not recommended for working angles greater than 15° in the longitudinal direction of the beam and 45° in the transversal direction.



BEAM CLAMP

The beam clamp is designed for lifting beams by gripping the flange laterally. It is activated by gravity. The centered lifting eye allows the beam to remain vertical. This clamp can be used for both vertical and horizontal lifting, transferring and stacking different types of structural designs such as H-beams, angles, etc., depending on the desired application.



1t / 2t / 3,2t / 5t

CONFIGURATIONS



CHAIN SLING

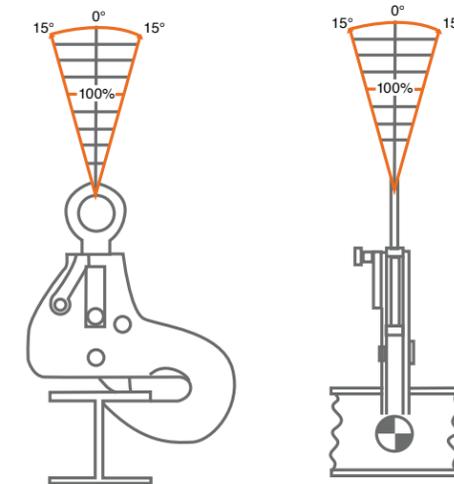


WIRE ROPE SLING



SYNTHETIC SLINGS

For correct operation, always take into account the center of gravity of the beam. Its use is not recommended for load application angles greater than 15° in any direction.





CHARACTERISTICS

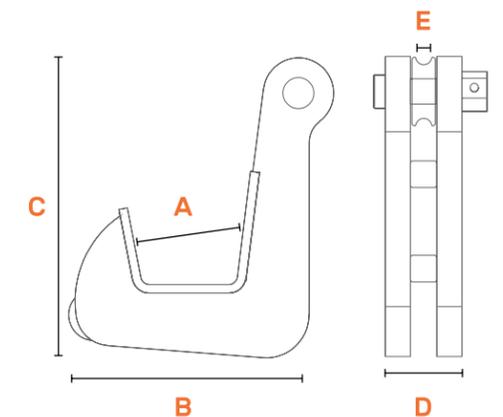
- Alloy-steel body.
- Simple gravity-operated mechanism.
- Tag with unique traceability code.
- Meets or exceeds ASME B30.20 and EN 13155.
- Safety factor 4:1
- Brand: Gorila®

WLL		DIMENSIONS									WEIGHT	
(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	D (mm)	D (In)	E (CABLE)	KG	lb
4	8,800	100	3.94	350	13.78	272	10.71	50	1.97	5/8"	9	19.84
6	13,200	120	4.72	446	17.56	401	15.79	63	2.48	3/4"	14	30.86
8	17,60	160	6.30	460	18.11	408	16.06	64	2.52	3/4"	25	55.12
10	22,000	210	8.27	515	20.28	484	19.06	77	3.03	3/4"	38	83.78

Dimensions and approximate weights, certified product.

PLATE LIFTING HOOK

- Specially designed for lifting and transporting metal plates
- Manufactured from high-quality carbon steel and equipped with a pulley at the top of the hook to avoid damaging the wire rope or chain
- For lifting operations, at least 4 plate hooks must be used
- Load release during unloading occurs automatically





HORIZONTAL PLATE CLAMP WITH SPLIT JAW

- Specially designed for horizontal lifting and transporting of steel structures shaped as “H”, “I”, “T”, “L”, as well as steel plates. Manufactured from high-quality carbon steel and equipped with a pulley at the top of the hook
- The pointed shape is effective for insertion into narrow spaces
- Used in pairs for beams and in sets of 4 for plates
- Load release during unloading occurs automatically



2t

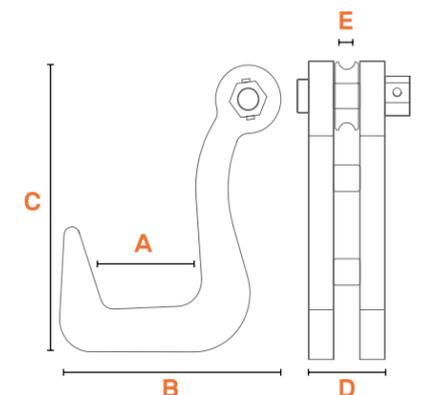
5t

CHARACTERISTICS

- Alloy steel body
- Simple gravity-type operation
- Label with unique traceability code
- Meets or exceeds ASME B30.20 and EN 13155 standards
- Safety factor 4:1
- Brand: Gorila®

WLL		DIMENSIONS									WEIGHT	
(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	D (mm)	D (In)	E (CABLE)	KG	lb
2	4,400	0-50	0-1.97	220	8.66	170	6.69	54	2.13	3/8"	3.5	7.72
5	11,000	0-70	0-2.76	265	10.43	388	15.28	87	3.43	3/4"	14.5	31.97

Dimensions and approximate weights, certified product.

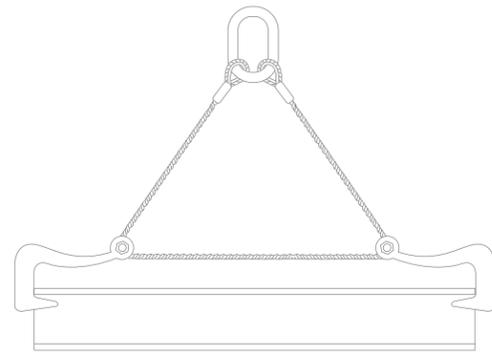


BEAM CLAMPS

Designed specifically for lifting and transporting steel plates. Load release during unloading is reduced automatically through the movement of the guide rollers.

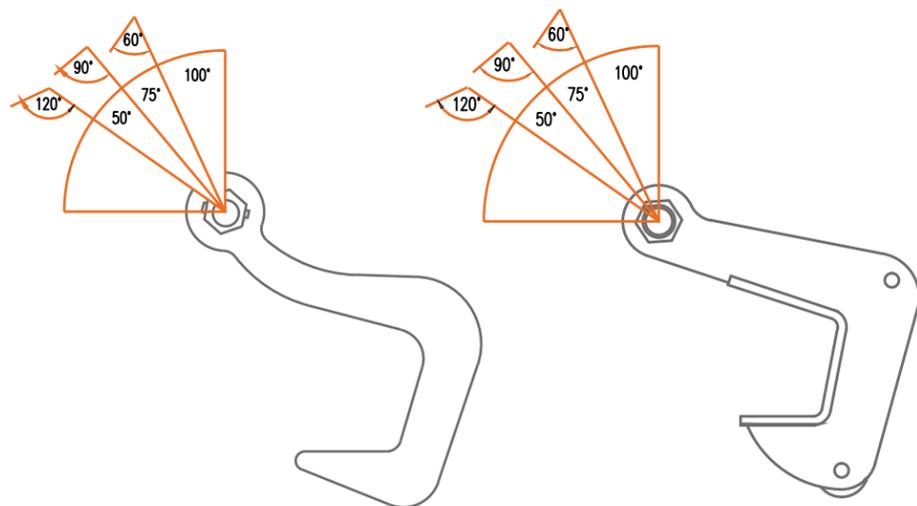


4t / 6t / 8t / 10t



IMPORTANT

The specified load capacity applies to a pair of hooks working with a sling angle greater than 60°. An endless wire rope sling must be used for the lifting operation. It includes a pulley at the top of the hook to avoid damaging the wire rope. It must not be used with a load application angle greater than 15° in the transversal direction.

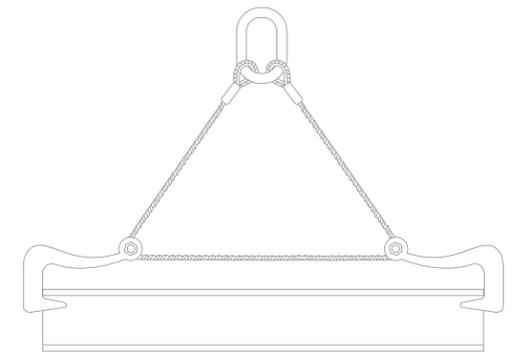


BEAM CLAMPS

Hook specially designed for horizontal lifting and transporting of steel structures shaped as "H", "I", "T", "L". The pointed shape is effective for insertion into tight spaces.

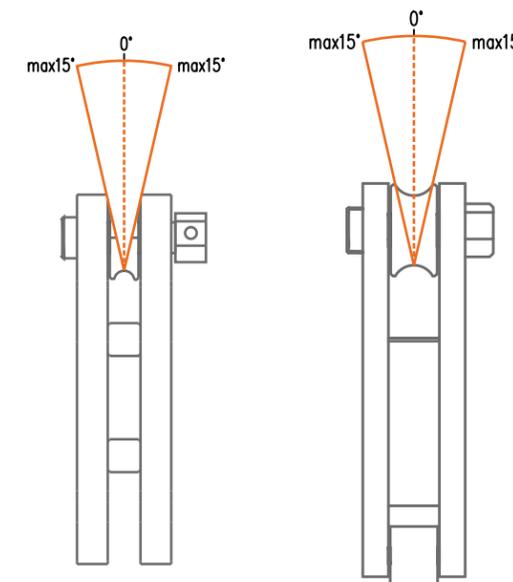


2t / 5t



IMPORTANT

The specified load capacity applies to a pair of hooks working with a sling angle greater than 60°. An endless wire rope sling must be used for the lifting operation. It includes a pulley at the top of the hook to avoid damaging the wire rope. It must not be used with a load application angle greater than 15° in the transversal direction.





6t

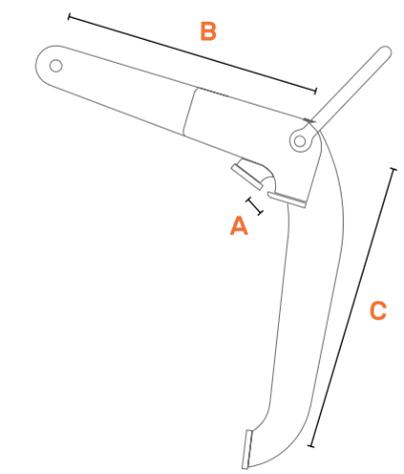
LIFTING POINT

HANDLING HANDLE

DRUM LIFTING CLAMP

CHARACTERISTICS

- Alloy steel body
- Simple gravity-type operation
- Label with unique traceability code
- Meets or exceeds ASME B30.20 and EN 13155 standards
- Safety factor 4:1
- Brand: Gorila®

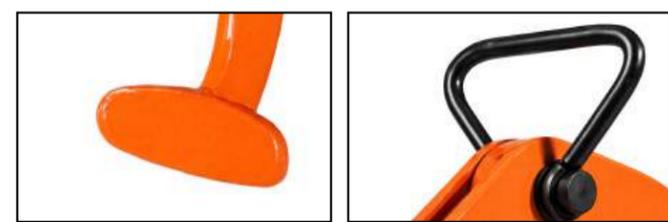


WLL		DIMENSIONS						WEIGHT	
(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	KG	lb
0,6	1,300	30	1.18	310	12.20	385	15.16	5	11.02

Dimensions and approximate weights, certified product.

DRUM CLAMP

- Only suitable for handling, lifting, and transporting metal drums not exceeding 600 kg (1300 lb)
- Includes a gripping point for safe handling operations
- Ideal for mechanical work due to its compact, lightweight design and ease of use



RECOMMENDATION

ACCESSORIES FOR USE



1/2"



1/2"



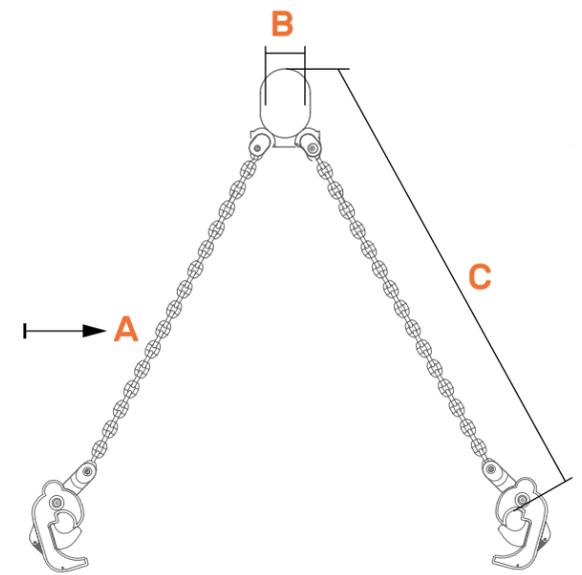
CHAIN DRUM LIFTER

- Suitable for lifting and transporting steel drums not exceeding 1,000 kg (2,200 lb)
- Manufactured from high-quality alloy steel and equipped with a spring-loaded clamping mechanism that ensures an initial positive gripping force



CHARACTERISTICS

- Alloy steel body
- Machined alloy steel jaws, hardened
- Simple gravity-type operation
- Label with unique traceability code
- Meets or exceeds ASME B30.20 and EN 13155 standards
- Safety factor 4:1
- Brand: Gorila®



WLL		DIMENSIONS						WEIGHT	
(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	KG	lb
1	2,200	6.3	0.25	66	2.60	690	27.17	3.6	7.94

Dimensions and approximate weights, certified product.



DRUM CLAMP

Highly recommended clamp for lifting steel drums not exceeding 600 kg. It allows the drum to remain in a vertical position during lifting and transferring using only one clamp. Simple gravity-type operation.



0.6t

CONFIGURATIONS



ANCHOR SHACKLE
(BOW SHACKLE)

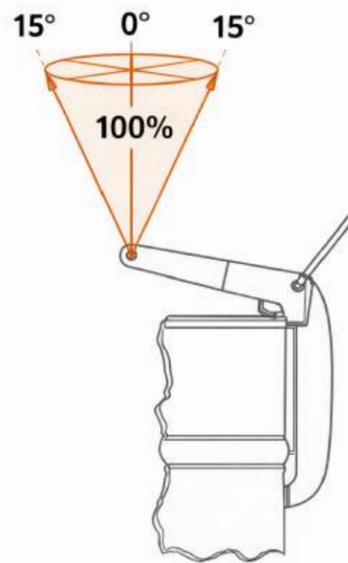


SAFETY PIN
SHACKLE

IMPORTANT

It is recommended to use a 1/2" GORILA® bow shackle with threaded pin.

The clamp must be properly attached before lifting. It is designed to remain vertically aligned with the drum's center of gravity. Avoid angles greater than 15° in any direction.

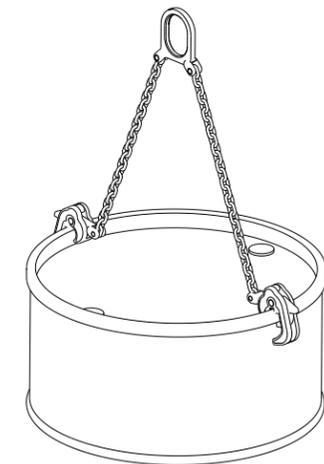


CHAIN DRUM LIFTER

Drum hook designed for easy vertical lifting of drums by gripping the upper rim. Ideal for placement, organizing, and preventing spillage of the contents. Simple gravity-type operation.

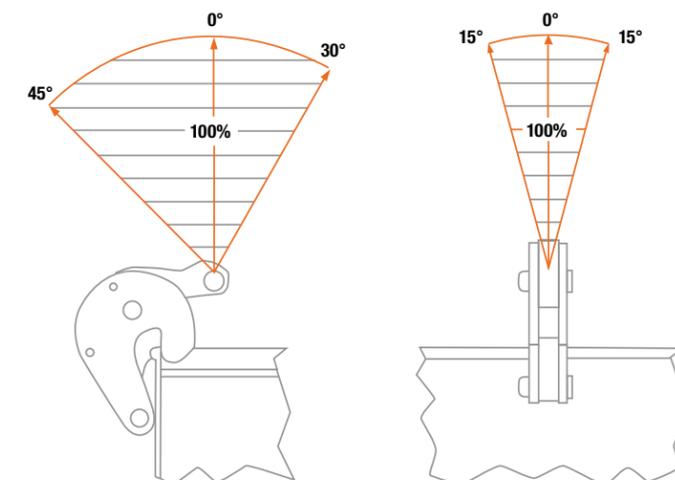


1t



IMPORTANT

Use exclusively for lifting steel drums not exceeding 1,000 kg. Its length is defined for a lifting angle of 60° from the horizontal plane. Do not use at a lower angle. Do not apply load in the transversal direction with an inclination greater than 15°.





ROUND STOCK GRABS

- Round stock grabs are designed for horizontal lifting of steel and concrete pipes, as well as tubing, rolls, or similar cylindrical loads with a diameter of up to 320 mm.
- Extremely easy to handle and safe to operate. They feature an automatic opening and closing mechanism.



CHARACTERISTICS

- Alloy steel body
- Simple gravity-type operation
- Label with unique traceability code
- Meets or exceeds ASME B30.20 and EN 13155 standards
- Safety factor 4:1
- Brand: Gorila®

WLL		DIMENSIONS						WEIGHT	
(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	KG	lb
1	2,200	50-100	1.97-3.94	50	1.97	14	0.55	4.1	0.04
3	6,600	120-100	4.72-8.66	68	2.68	18	0.71	32	70.55
5	11,000	200-320	7.87-12.60	80	3.15	25	0.98	104	229.28

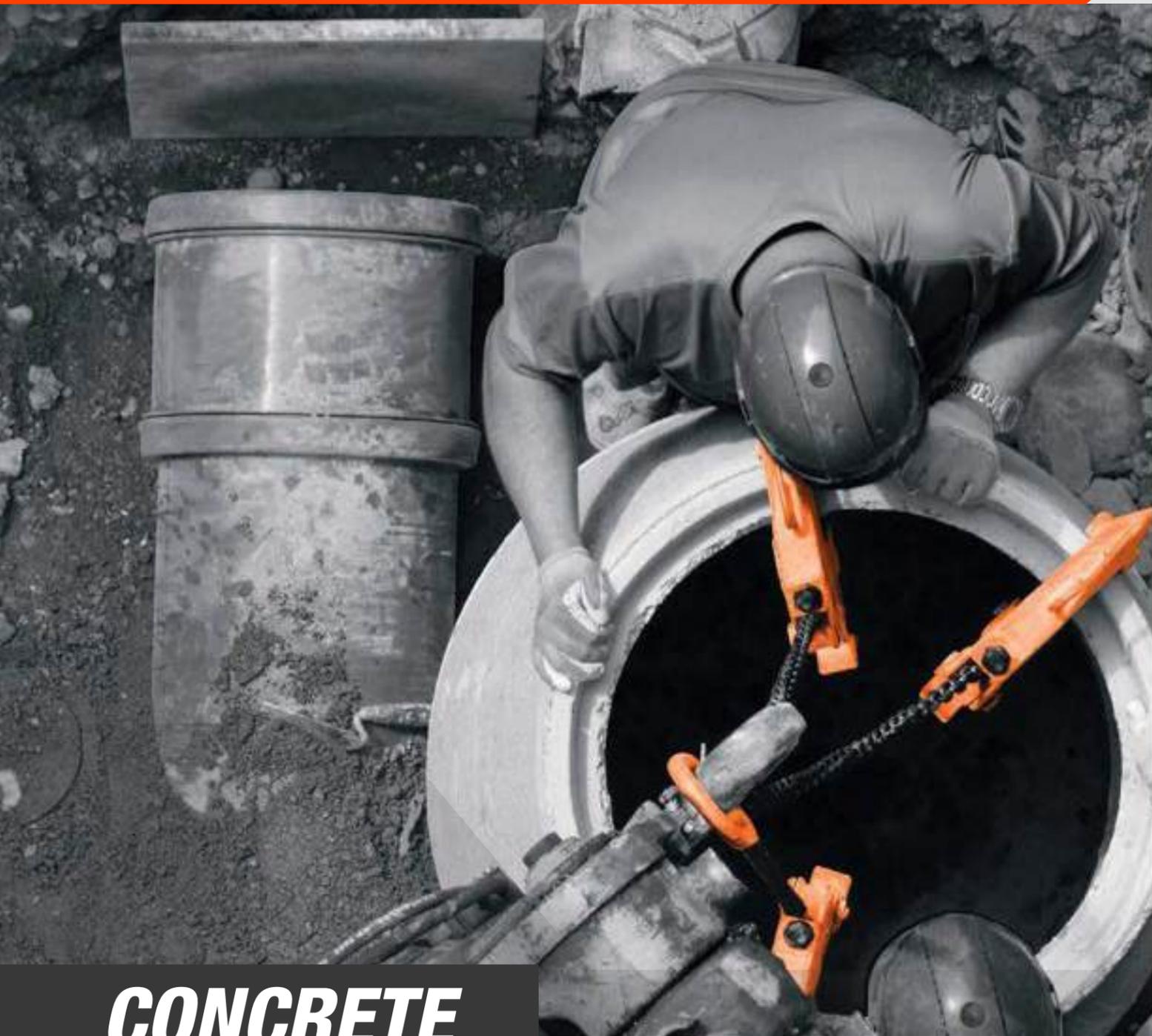
Dimensions and approximate weights, certified product.



RECOMMENDATION

ACCESSORIES FOR USE





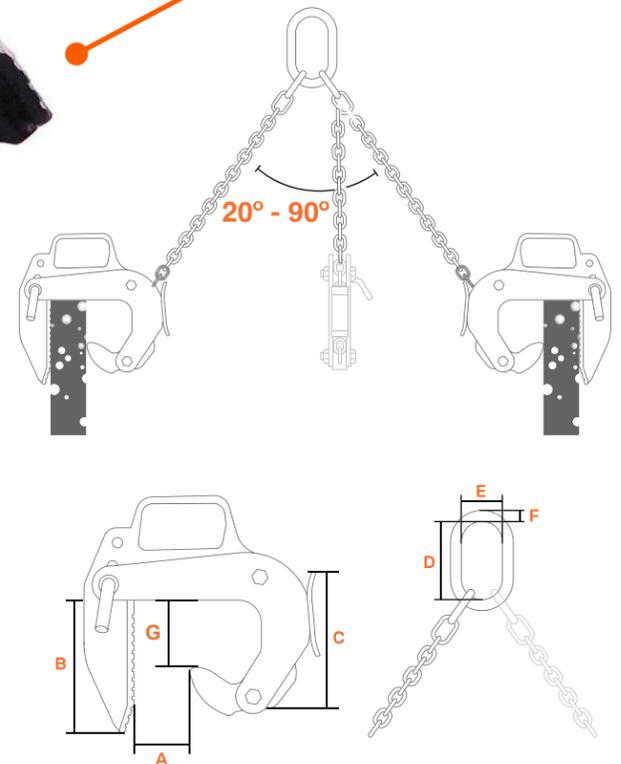
CONCRETE PIPE LIFTING CLAMPS

- Triple clamp set for lifting concrete pipes and blocks using a chain sling.
- The set is designed for safe handling without causing damage to the walls of concrete pipes.



CHARACTERISTICS

- Steel body
- Hardened alloy steel jaws
- Easy installation and removal of clamps using the integrated handling grips
- Label with unique traceability code
- Meets or exceeds ASME B30.20 and EN 13155 standards
- Safety factor 4:1
- Brand: Gorila®



WLL		DIMENSIONS														WEIGHT	
(t)	(lb)	A (mm)	A (In)	B (mm)	B (In)	C (mm)	C (In)	D (mm)	D (In)	E (mm)	E (In)	F (mm)	F (In)	G (mm)	G (In)	KG	lb
1,5	3,300	40-120	1.57-4.72	165	6.50	180	7.09	135	5.31	75	2.95	16	0.63	16	0.63	3.6	7.94
3	6,600	50-180	1.97-7.09	245	9.65	310	12.20	180	7.09	100	3.94	16	0.63	16	0.63	5.5	12.13

Dimensions and approximate weights, certified product.



ROUND STOCK GRABS

Gravity-operated grab, built for heavy-duty work. Excellent equipment for operations where heavy pipes must be lifted. Never attach the grab directly to the crane hook. It must be connected through a suitable lifting medium that provides flexibility.



1t / 3t / 5t

CONFIGURATIONS



CHAIN SLING



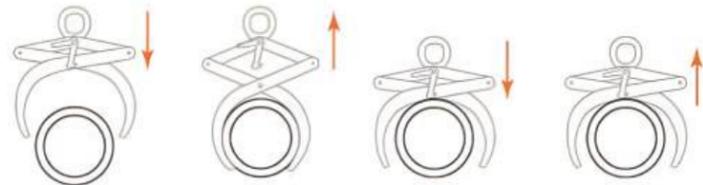
WIRE ROPE SLING



SYNTHETIC SLINGS

OPERATING INSTRUCTIONS

Operation is gravity-based. To disengage the anti-closing safety lock, the grab must be lowered until it makes contact with the pipe, allowing the mechanism to secure when lifting. To release the load, perform the same steps in reverse.



IMPORTANT

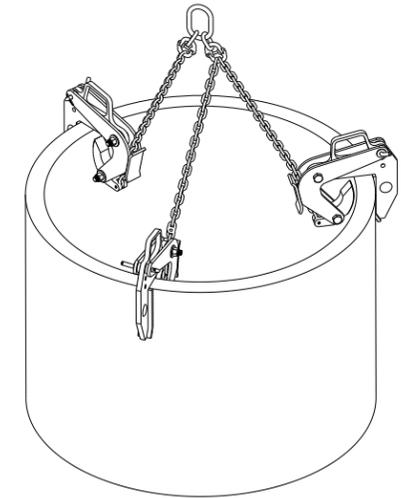
- Exclusively for vertical lifting operations.
- Avoid applying loads at angles.
- Avoid excessive load swinging; perform movements slowly.
- Always position it over the tube's center of mass.

CONCRETE PIPE LIFTING CLAMPS

Designed for safe handling without damaging the walls of concrete and steel pipes during vertical lifting and transferring. Easy installation and removal of the clamps using the integrated handling grips. Lightweight, but designed for heavy-duty use.

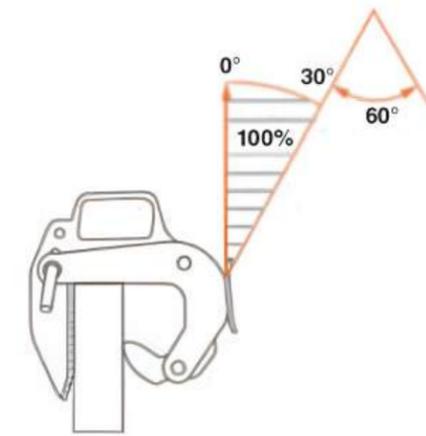
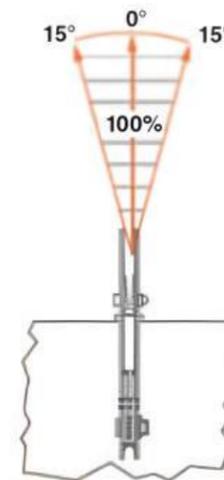


1.5t / 3t



IMPORTANT

Mount and adjust the 3 clamps properly before lifting to ensure secure grip on the pipe. Avoid lifting angles below 60°. Do not apply transversal load with an angle greater than 15° from the vertical axis of the clamp.



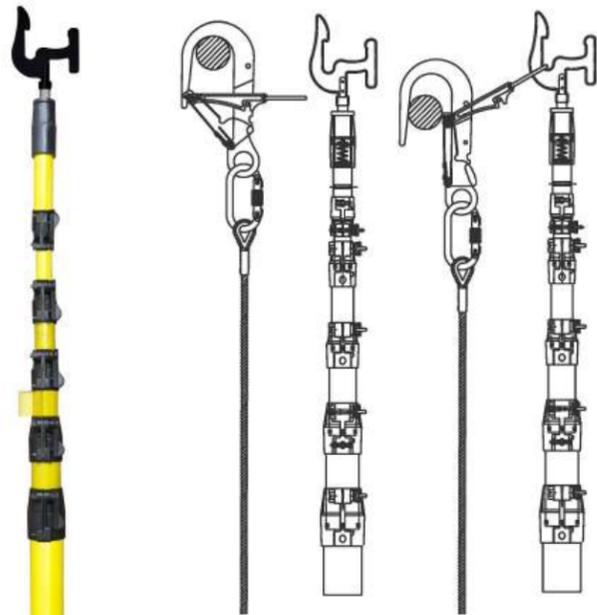
EQUIPMENT & ACCESSORIES COMPLEMENTARY

Solutions designed to expand lifting, handling, and load-securing capabilities across different industrial environments. From aluminum gantries for maneuvers in confined areas to telescopic poles for proper wind control, and forklift crane attachments with lifting hooks—these devices become essential allies for safe, practical, and efficient operations.

Each accessory responds to a specific on-site operational need, optimizing productivity while reducing risks.



[Back to Index](#)



TELESCOPIC POLE

The GORILA® pole is designed for work involving lifting operations, as well as tasks performed at height. Thanks to its fiberglass construction, it is lightweight, ergonomic, extendable, and versatile. The telescopic pole is designed to provide additional reach for lifting or height-related tasks, when objects need to be accessed safely from a distance. Recommended for guiding tag lines during lifting operations, as well as for installing or removing retractable devices located at height.

CHARACTERISTICS

Pole Material: Fiberglass
Maximum length: 7.95 m / 26.08 ft
Minimum length: 1.95 m / 6.40 ft
Weight: 3.8 kg / 8.38 lb

INCLUDES:

ALUMINUM ANCHORING HOOK



Minimum resistance:
22 kN



Hook opening:
55 mm



GORILA® ALUMINUM PORTABLE GANTRY

The GORILA® aluminum portable gantry is an ultra-lightweight and fast-deploying lifting solution designed for safe and efficient load handling. Its aluminum construction makes it easy to transport, assemble, and operate, even in reduced-space environments. The system is designed for quick mounting using ball-lock pins, eliminating the need for tools or additional hardware. The side frames fold onto the beam for compact storage and easy transportation.



Capacity 2t / 3t



Corrosion Resistant



Lightweight Material



Adjustable Height



360° Swivel Casters



Adjustable Height



Suitable for Confined Spaces

CHARACTERISTICS

- Standard: ASME B30.17 / EN 795:2012
- Material: Aluminum
- Maximum beam height: 4.39 m / 14.40 ft
- Maximum lifting height: 4.08 m / 13.39 ft
- Width: 2.01 m / 6.59 ft
- Weight: 72 kg / 159 lb
- Brand: Gorila®



FORK HOOK

The Gorila® Double Fork Hook has been designed to transform a forklift into a safe and efficient lifting device, providing a reliable lifting point for controlled handling operations. Its dual-fork attachment design distributes the load evenly, reducing the risk of slipping or instability during operation. Manufactured from high-strength structural steel and finished with electrostatic powder coating for greater durability, this accessory is ideal for industrial operations requiring versatility, safety, and compliance with standards.

CHARACTERISTICS

- Working load limit, WLL (t) : 1t / 2.5t 5t
- Safety factor: 4:1
- Dimensions: Fork slot: 55 x 150 mm (2.17 x 5.91 in)
- Standard: ASME B30.20 / EN 13155
- Brand: Gorila®



VERTICAL DRUM LIFTER

Designed for safe lifting and tipping of drums in demanding industries such as chemical, mining, petrochemical, and food processing. Its robust structure and ergonomic design allow for precise, spill-free operation. Compatible with standard lifting systems and compliant with international safety standards.

CHARACTERISTICS

- Working load limit, WLL (Kg / lb) : 360 kg / 800 lb
- Safety factor: 3:1
- Standard: ASME B30.20 / ASME BTH-1 / EN 13155
- Brand: Gorila®



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