

JACKSON HANDLING LIMITED

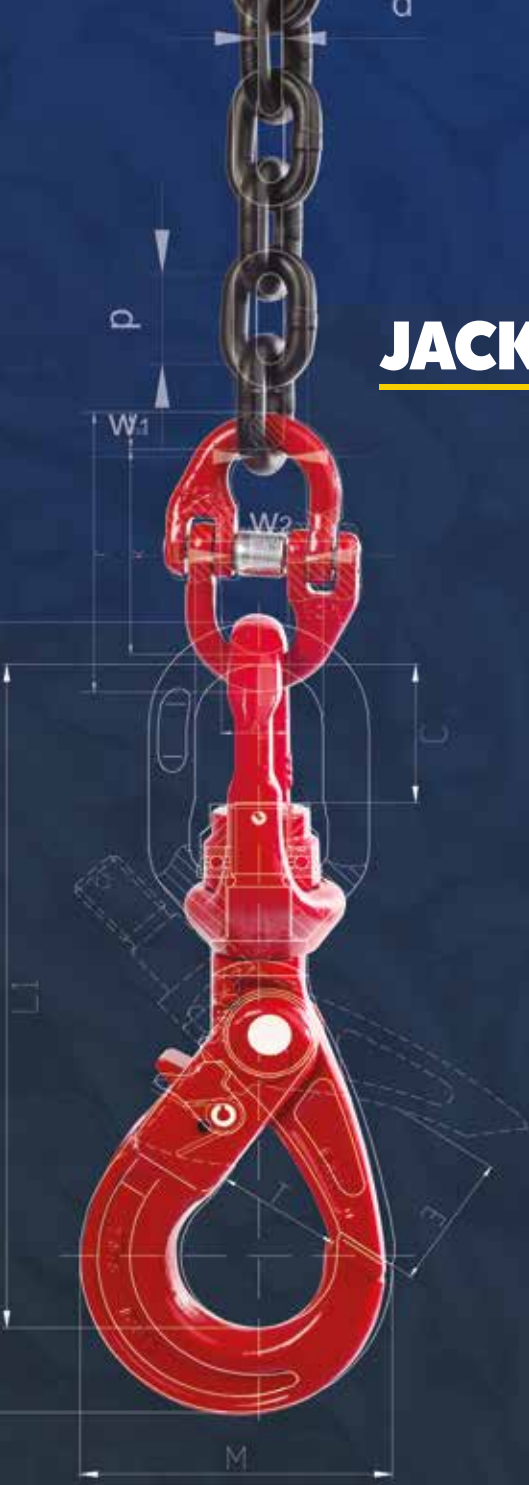
Technical Brochure

DUKE™

KWB
Safety in action

 Global Rope Fittings GmbH

 **IRONGRIP**
Reliably Engineered



JACKSON HANDLING LIMITED

About the Company

The **XONA™** product range covers wire rope accessories, chain systems, material handling, commercial and other lifting tackle.

DUKE™ Grade 8 & Grade 10 Chain Systems have become a recognised brand of quality.

We have a dedicated engineering and testing facility to oversee the **XONA™** product range and secure a high quality level.

The **XONA™** range is constantly developed and improved.

Quality

All chains are tagged and supplied with a full Certificate of Conformity as standard practise.

Abbreviations

- WLL = Working Load Limit
- MPF = Manufacturing Proof Force
- BF = Breaking Force
- LC = Lashing Capacity
- (T) = Tonne
- kN = Kilonewton
- (kg) = Kilogram
- (mm) = Millimeter
- BB = Bearing to Bearing
- EWL = Effective Working Length
- E&O.E. = Errors and Omissions Excepted

Safety Factor

- 4:1 Load Binders
- 4:1 Bow Shackles
- 4:1 Grade 8 /10/ 12 Chain
- 5:1 Ratchet Straps
- 5:1 Wire Rope
- 7:1 Webbing Slings and Round Slings

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Contents

KWB DNV Oversized Master Link & Master Link Assemblies	4
XONA Wire Rope 5:1 Hooks	7
XONA Thimbles, Grips, Eyebolts, Eyenuts & Pad Eyes	10
XONA Shackles & Turnbuckles	25
Global Rope Wire Rope Sockets	33
DUKE Grade 8 Chain & Components, Load Binders, Web Components & Lifting Points	43
DUKE Grade 10 Chain & Components, Web Components & Load Binders	70
KWB Grade 12 Chain & Components	84
XONA Lever Hoists, Chain Blocks, Beam Clamps & Trolleys	95
XONA Commercial Products	109





DNV Oversized Master Link & Master Link Assemblies



DNV Oversized Master Link & Master Link Assemblies



- **DNV 2.7-1, Type Approval Certificate Number S-8254**
- **All Type Testing at -40°C**
- **Complete with Flat**
- **EEC Manufactured**

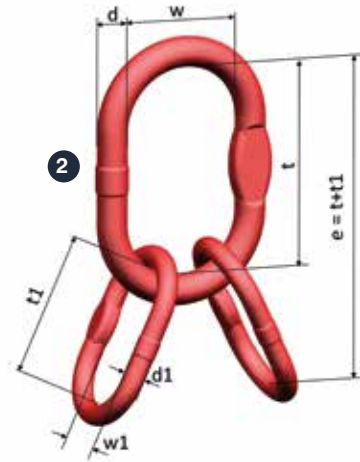
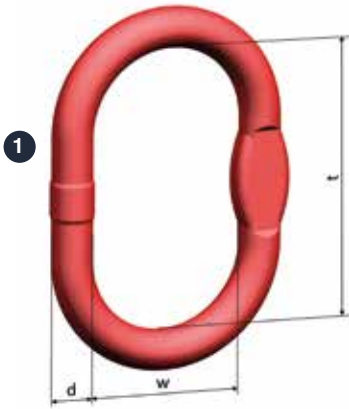
Standard Master Links are sometimes too narrow for wire rope slings. The wire rope thimbles may not have sufficient space to manoeuvre correctly in use.

Standard Master Links may also be too narrow for large crane hooks.

Our oversized master links are specially designed for welded chain slings/wire rope slings for offshore container lifting. Due to the much larger width, they are particularly suited for wire rope slings especially when used with wire rope thimbles.

They can be used for larger crane hooks as per AW-DNV 2.7-1 and MW-DNV 2.7-1 with comparable thickness.

DNV Oversized Master Link & Masterlink Assemblies



1. KWB-AOF

Master Links AOS-DNV 2.7-1

Part Code	WLL (T)	Dia d (mm)	Length t (mm)	Width w (mm)	Weight each (kgs)
KWB-AOF23	6.7	23	270	140	2.51
KWB-AOF25	8.9	25	270	140	2.99
KWB-AOF28	14.5	28	270	140	3.80
KWB-AOF33	17.8	33	270	140	5.39
KWB-AOF36	24.6	36	270	140	6.50
KWB-AOF40	32	40	275	150	8.35
KWB-AOF45	38.3	45	340	180	12.90
KWB-AOF50	45.4	50	350	190	16.70
KWB-AOF56	67	56	400	200	23.28
KWB-AOF70	85	70	460	250	43.40

2. KWB-GOF

Master Link Assemblies VOS-DNV 2.7-1

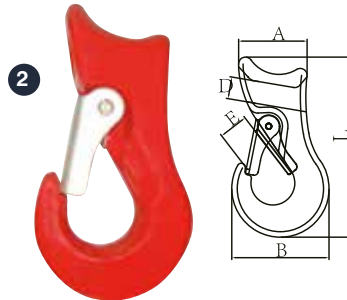
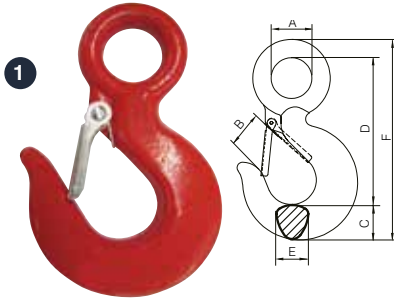
Part Code	WLL (T)	Main Link Dia (mm)	Length t (mm)	Width w (mm)	Sub Link Dia d1 (mm)	Length t1 (mm)	Width w1 (mm)	Weight each (kgs)
KWB-GOF23/17	6.7	23	270	140	17	140	80	4.03
KWB-GOF25/19	8.9	25	270	140	19	135	75	4.84
KWB-GOF28/23	14.5	28	270	140	23	180	100	7.37
KWB-GOF33/27	17.1	33	270	140	27	180	100	10.41
KWB-GOF36/30	24.1	36	270	140	30	190	110	13.15
KWB-GOF40/33	28.1	40	275	150	33	270	140	19.14
KWB-GOF45/36	38.3	45	340	180	36	270	140	25.81
KWB-GOF50/40	45	50	350	190	40	275	150	33.26
KWB-GOF56/50	67	56	400	200	50	350	190	56.39
KWB-GOF70/56	85	70	460	250	56	400	200	89.62

XONA™

Wire Rope 5:1 Hooks



Wire Rope 5:1 Hooks



1. XN130

US Alloy Type Eye Hoist Hook

Part Code	Weight		A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
	(kg each)	WLL (T)						
XN130-01	0.21	0.75	16.5	19	17	72	16	97
XN130-02	0.28	1	19	22	19	82	16	110
XN130-03	0.4	1.5	23	23	21	93.5	17.5	125
XN130-04	0.65	2	28	24	26	103	21	140.5
XN130-05	0.81	3	31	27.5	28	119	23	162
XN130-06	1.75	5	39	33	37	146	30	201
XN130-07	3.77	7	51	40	46.5	186.5	38	256
XN130-08	6.8	11	62	51	57	213.5	46	317
XN130-09	9.96	15	73	57	70	260	55	360
XN130-10	15.37	22	89	75	76	318	68.5	434
XN130-11	27.2	30	90	82	91	360	70	495.5

- Complete with lock nut fitted latch
- Safety Factor: 5:1

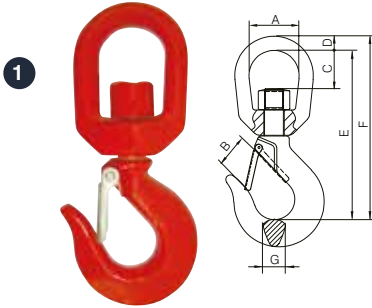
2. XN072

Sliding Choker Hook for Ropes

Part Code	Size	Weight		D (mm)	A (mm)	B (mm)	E (mm)	L (mm)
		(kg each)	WLL (T)					
XN072-01	3/8-1/2	0.68	1.6	17	50	71	21	132
XN072-02	5/8	1.21	2	22	63.5	79	23	151.5
XN072-03	3/4	1.99	3	28	69	103	29	170
XN072-04	1	4.18	5	32.5	85.7	135	38	213

- Safety Factor: 5:1

Wire Rope 5:1 Hooks



1. XN132 US Alloy Type Swivel Hoist Hook

Part Code	Weight (kg each)	WLL (T)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
XN132-01	0.3	0.75	31.5	17	22.5	9	110	137	15
XN132-02	0.34	1	32	17	22.5	9	108.3	137	16
XN132-03	0.57	1.5	37.5	22.5	29.5	12	133.5	163.5	16
XN132-04	1.02	2	42.5	26	33	15.8	150.5	192	17.5
XN132-05	1.24	3	42.5	26	33	15.8	163	209	23
XN132-06	2.25	5	48	32.5	39	18	191	246	31
XN132-07	4.66	7	64	43	53	25	243.5	313	34
XN132-08	7.4	11	70	49.5	53	28.5	277	364	41.5
XN132-09	10.6	15	79	54.5	62	32	332	431	55.7
XN132-10	21.4	22	105	81	108	40	427	543	70
XN132-11	32	30	105	100	96	40	465.3	596	76.2

- Complete with lock nut fitted latch
- Safety Factor: 5:1

2. XN130-LK Spare Latch for XN130 & XN132

Part Code	Spare Latch for
XN130-LK01	XN130 & XN132 - 0.75T
XN130-LK02	XN130 & XN132 - 15T
XN130-LK03	XN130 & XN132 - 1.5T
XN130-LK04	XN130 & XN132 - 2T
XN130-LK05	XN130 & XN132 - 3T
XN130-LK06	XN130 & XN132 - 5T
XN130-LK07	XN130 & XN132 - 7T
XN130-LK08	XN130 & XN132 - 11T
XN130-LK09	XN130 & XN132 - 15T
XN130-LK10	XN130 & XN132 - 22T
XN130-LK11	XN130 & XN132 - 30T

XONA™

Thimbles

Grips

Eyebolts

Eyenuts

Pad Eyes

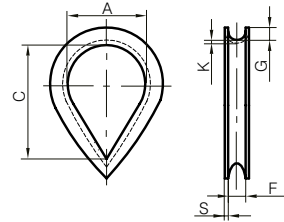
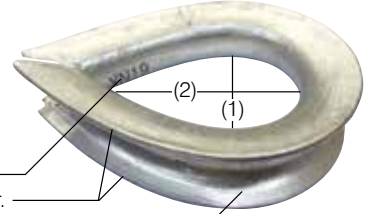


Thimbles

Wire Rope Slings Manufactured and Certified To EN13414-1 using a thimble eye. Manufacturers MUST use a fully compliant EN13411-1 thimble.

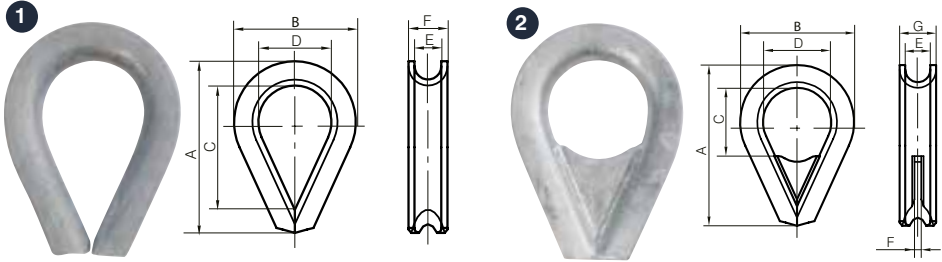
XNTEN EN13411-1 Thimbles

- Hot Dipped Galvanised.
- EN10204 certificates available on request (2.2 & 3.1).
- Thimbles have batch number for traceability.
- Width of groove must be a minimum 1.1x of wire rope diameter.
- A minimum of 55% of wire rope diameter must be covered by groove depth.
- (1) must be 2.5 to 3.5 x nominal diameter of wire rope
- (2) must be 1.5 to 2 x dimension of (1). Base Angle ≤ 50 degree



Part Code	Size (mm)	Weight (kg each)	A (mm)		C (mm)		F (mm)		G (mm)		K (mm)	S (mm)
			Min	Max	Min	Max	Min	Max	Min	Max		
XNTEN06	6	0.04	16	18	25	30	7	7.6	3.5	3.8	4	2
XNTEN08	8	0.06	21	24	33	40	8.8	9.5	4.4	4.7	4	2.3
XNTEN10	10	0.09	25	30	38	46	11	11.4	5.5	5.7	5	2.3
XNTEN11	11	0.12	28	33	42	56	12.7	13.3	6.2	6.6	5	2.5
XNTEN13	13	0.17	33	39	50	66	14.3	15.2	7.5	7.6	5.5	3
XNTEN16	16	0.28	41	48	62	80	17.6	19	8.8	9.5	8	3
XNTEN20	20	0.48	50	57	75	96	22	22.8	11	11.4	9	3.4
XNTEN22	22	0.63	56	66	84	110	24.5	26.6	12.3	13.3	10	4
XNTEN24	24	0.85	62	72	93	120	26.4	28.5	13.8	14.2	10	4
XNTEN26	26	0.96	66	75	106	126	28.6	30.4	14.3	15.2	10	4
XNTEN28	28	1.30	75	87	113	146	32	34.2	15.95	17.1	10.5	4
XNTEN32	32	1.61	90	105	136	160	35.5	38.1	17.6	19	11	4
XNTEN36	36	2.27	100	115	150	176	39.6	41.9	19.8	20.9	13.5	4.5
XNTEN38	38	3.20	110	125	160	190	42	45.7	21	22.8	15	4.5
XNTEN41	41	4.30	115	135	175	206	45.5	49.5	22.8	24.7	16	4.5
XNTEN44	44	6.30	120	140	180	220	50.8	53.3	24.8	26.6	19	4.5
XNTEN52	52	8.00	135	153	205	256	58	60.9	28.6	30.4	20	5.5

Thimbles



1. SO37K2

Type K2 Open Thimbles

Part Code	Size (inch)	Weight (kg each)	Length					
			A (inch)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
S037K215	2	7.90	12	225	240	140	52	65
S037K216	2-1/4	9.50	14	240	250	150	56	72
S037K217	2-1/2	18.00	17	290	340	180	72	88
S037K218	3	28.00	19	330	390	220	82	122
S037K219	3-1/2	36.30	22	375	460	240	92	132
S037K220	4	46.00	24	410	500	250	105	145
S037K221	5	55.00	26	450	540	280	130	170

- Hot Dipped Galvanised
- Heavy Duty Stub End Type

Gusset Plate Only

Part Code	Size (inch)
S037GPLATE01	2
S037GPLATE02	2-1/4
S037GPLATE03	2-1/2
S037GPLATE04	3
S037GPLATE05	3-1/2
S037GPLATE06	4
S037GPLATE07	5



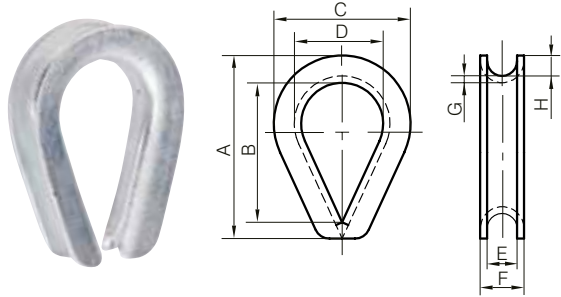
2. SO37K2B

Type K2-B Reinforced Thimbles with Gusset

Part Code	Size (inch)	Weight (kg each)	Length						G (mm)
			A (inch)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	
S037K2B01	2	8.90	12	225	140	140	52	16	65
S037K2B02	2-1/4	11.10	14	240	150	150	56	20	72
S037K2B03	2-1/2	18.90	17	290	185	180	72	20	88
S037K2B05	3	30.60	19	330	225	220	82	20	122
S037K2B06	3-1/2	39.00	22	375	280	240	92	20	132
S037K2B07	4	51.00	24	410	280	250	105	25	145
S037K2B08	5	63.50	26	450	280	280	130	30	170

- Hot Dipped Galvanised
- Heavy Duty Stub End Type

Thimbles

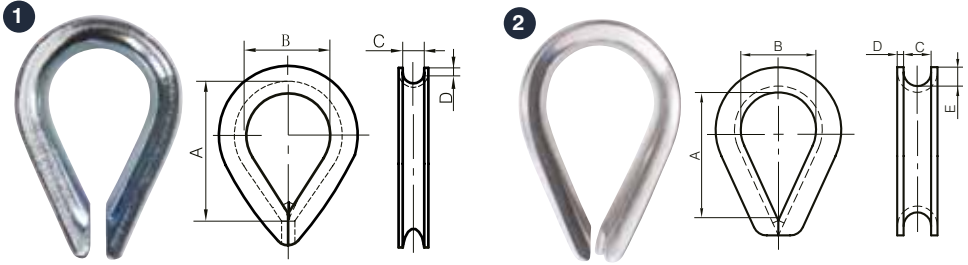


SO37US0 Fed Spec Type Thimbles

- Hot Dipped Galvanised
- Heavy Duty Type.
- Meet Performance Requirements of Federal Specification FF-T27-276b Type

Part Code	Size (inch)	Size (mm)	Weight (kg each)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
S037US004	3/16	4	0.02	20	34	10.5	30	48	6.5	3.3	3.5
S037US006	1/4	6	0.03	22.2	38	12.7	33.4	52	8.5	4.4	4
S037US008	5/16	8	0.05	25.4	47.6	14.3	38	64	10.3	5.5	4.8
S037US010	3/8	10	0.10	28.6	52	17.5	41.3	73	12.7	6.05	4.8
S037US012	7/16	11	0.13	31.7	58.8	20.6	44.5	79.4	14.3	7.15	5.5
S037US013	1/2	13	0.22	41.3	74.5	22.2	58.8	95.8	16.9	8.8	7.9
S037US014	9/16	14	0.22	50.8	92	28.6	73	121	21.6	11	9.5
S037US016	5/8	16	0.32	56	102	31.7	82.5	131	22.8	12.1	9.5
S037US019	3/4	20	0.60	69.8	119	35	108	162	27	14.3	10.3
S037US022	7/8	22	0.88	76.2	133	38	112	178	29.6	15.95	12.7
S037US024	1	26	1.10	95	152	41.3	133	197	33.4	17.6	12.7
S037US028	1-1/8	31	1.55	105	175	47.6	152	228	38	19.8	15.6
S037US038	1-3/8	36	3.50	114	197	52	165	254	41.3	20.9	17.5
S037US039	1-1/2	38	5.00	114	197	58.6	165	25	42.9	22.55	17.5
S037US041	1-5/8	41	6.20	127	228	66.6	178	286	50.8	23	25.4
S037US044	1-3/4	44	7.20	140	257	69.8	203	330	64	28.6	28.6
S037US052	2	52	10.00	105	175	47.6	152	228	38	19.8	15.9
S037US057	2-1/4	57	19.00	114	197	52	165	254	41.3	20.9	17.5
S037US063	2-1/2	63	26.50	114	197	58.6	165	254	42.9	22.55	17.5
S037US070	2-3/4	70	28.80	127	228	66.6	178	286	50.8	23	25.4
S037US076	3	76	36.00	140	257	69.8	203	330	64	28.6	28.6

Thimbles



1. SO376899

DIN6899 Thimbles

Part Code	Size (mm)	Weight (kg per 100)	A (mm)	B (mm)	C (mm)	D (mm)
SO37689903	3	1	19	12	3	1.6
SO37689904	4	1	21	13	4	1.6
SO37689905	5	1	23	14	5	1.8
SO37689906	6	2	25	16	6	2.4
SO37689907	7	3	28	18	7	2.4
SO37689908	8	3	32	20	8	2.8
SO37689910	10	4	38	24	10	3.1
SO37689912	12	8	45	28	12	3.3

- Galvanised

2. SO37SS

AISI 316 Stainless Steel Thimbles

Part Code	Size (mm)	Weight (kg per 100)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
SO37SS02	2	0.25	16	9.04	2.7	1	1.1
SO37SS03	3	0.34	18.36	9.94	3.6	1	1.8
SO37SS04	4	0.58	18.98	11.38	4.82	1.2	2.1
SO37SS05	5	0.74	22.4	13.2	5.9	1.2	2.7
SO37SS06	6	1.35	27.28	15.04	6.9	1.5	3.31
SO37SS08	8	2.86	37.1	22.1	9	2	4
SO37SS10	10	5.70	49.8	27.24	11	2.5	4.88
SO37SS12	12	6.80	54	29.02	14	2.5	5.33
SO37SS14	14	10.50	58.66	33.5	16	3	5.67
SO37SS16	16	13.70	67.31	41.32	18	3	6.59
SO37SS18	18	23.40	75.88	45.8	20	4	7.33
SO37SS20	20	26.84	84.68	52.84	22	4	8.59
SO37SS22	22	39.60	96	57	24	4	9
SO37SS24	24	57.55	105	60	26	5	12
SO37SS28	28	95.60	135	76	30	6	12
SO37SS32	32	15.60	163	85	36	6	13
SO37SS36	36	64.60	183	98	38	6	19.5

- Similar Pattern to DIN 6899

Thimble Clamp KK-100

IronGrip KK-100 - Complete wire rope thimble in no time

- Quick and easy assembly that secures the wire rope, even for lifting applications.
- New construction with hinged principle - fold together the halves to tighten the wire rope in the thimble clamp.
- Quick and easy assembly with few components: insert the wire rope, fold together the thimble clamp halves and tighten the two nuts. Finished!
- The combination of IronGrip's special S-curve and a friction-enhancing thimble gives a high degree of efficiency in a single fastening.
- Designed for modern wire ropes - today's wire ropes can handle 40% more load than for a few decades ago, when the older generation of thimble clamp was developed.
- Full documentation of traceability, testing documentation and assembly instructions.



For fast and compact fastening of wire ropes

Virtually all assembly of wire ropes on-site is performed with thimble and wire clamps. Now there's an alternative solution, which radically simplifies assembly with lower costs, but with the same high level of safety - IronGrip's thimble clamp KK-100.

Compare the assembly of one thimble and two wire clamps with the assembly of IronGrip's thimble clamp KK-100. Instead of five parts to keep track of and numerous nuts to tighten, two parts and just two nuts are all that's needed. It's quick and easy and the

fastening takes up less space on the wire rope. If, for example, we need to fasten 10 stays at both ends, the amount of time saved soon becomes obvious.

Thimble clamps from IronGrip have been used for a long time to secure wire rope fastenings in a variety of applications. The new generation of KK-100 represents a significant improvement with increased efficiency, easier assembly and adaptation to modern wire ropes. It has been approved for lifting applications.

Thimble Clamp KK-100

IronGrip KK-100 - Complete wire rope thimble in no time

Technology

KK-100 has been developed with technology from IronGrip's new wire clamp BG-100 and the vast experience from previous generations of thimble clamps.

Assembly

The two-piece thimble clamps make assembly easy. Insert the wire rope, bend and fold together the parts and tighten the nuts. A detailed assembly instruction is available.

Safety

The clamp secures the fastening according to applicable standards without damaging the wire rope. As the thimble is cast with the clamp, the design produces a very secure grip on the wire rope.

Economy

IronGrip's thimble clamp provides good economics as you only need a single thimble clamp for each fastening. A shorter wire rope is needed, assembly is faster and the thimble clamp can be reused. Price/performance for IronGrip's thimble clamp is therefore extremely competitive.

Corrosion Protection

Hot dip galvanizing provides significantly better corrosion protection than, e.g. zinc plating.

Quality

KK-100 is manufactured with IronGrip's high quality standards according to ISO-9001 standards. Highest quality in design, materials and surface treatment ensure the safety of each thimble clamp from IronGrip.

Application

KK-100 is approved for lifting with wire ropes up to and including strength grade 1770 and 1960 N/mm² without extra wire clamps (see the table and mounting instruction for details).

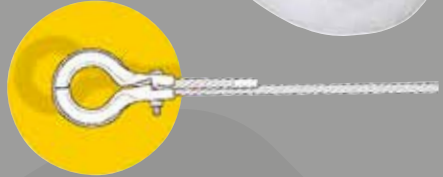


Thimble Clamp KK-100

IronGrip KK-100 - Complete wire rope thimble in no time

Technical Information:

- Castings: Cast steel GS-60
- Strength Grade Bolts: 8.8 according to ISO 3506
- Corrosion Protection Jaws: Hot-dip galvanizing according to ISO 1461
- Corrosion Protection Bolts: Electro-galvanized according to ISO 2081, hot-dip galvanized or stainless steel available on request.
- Temperature Range: -50 - +250 °C



Note:

- For all assembly, it is important to follow the instructions for the thimble clamp.
- The recommendations provided regarding load and number of thimble clamps applies, provided that the wire rope is new and undamaged when the thimble clamp is attached.
- The thimble clamp should be retightened after a period of use.

A single thimble clamp holds the wire rope, as well as a series of wire clamps and is much easier to assemble.



Part Code	Wire ϕ (mm)	Weight (kg/100)	No. of extra wire Clamps for bracing	No. of extra wire Clamps for lifting (1770 N/mm ² wire)	No. of extra wire Clamps for lifting (1960 N/mm ² wire)
XNIG180206	5-6	16	0	0	0
XNIG180209	7-9.5	48	0	0	0
XNIG180212	10.12.5	102	0	0	1
XNIG180216	13-16.5	197	0	0	1
XNIG140220	17-20	370	0	1	1

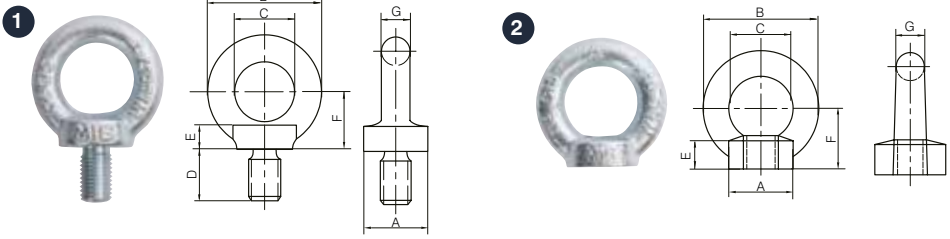
*This size is only available in KK-M

XNIG1802 IronGrip Thimble Clamps, HDG

Part Code	Size (mm)	Weight (kg per 100)	Description
XNIG180206	5-6	16	5-6mm Dia. ThimbleClamp KK-600
XNIG180209	7-9.5	48	7-9.5mm Dia. ThimbleClamp KK-900
XNIG180212	10-12.5	102	10-12.5mm Dia. ThimbleClamp KK-1200
XNIG180216	13-16.5	197	13-16.5mm Dia. ThimbleClamp KK-1600
XNIG180220	17-20	370	17-20mm Dia. ThimbleClamp KK-M20



Eyebolts & Eyenuts



1. XNEB580 DIN580 Eyebolts

Part Code	Size	Weight (kg each)	WLL (T)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
XNEB580M06	M6	0.06	0.08	20	36	20	13	6	18	8
XNEB580M08	M8	0.06	0.14	20	36	20	13	6	18	8
XNEB580M10	M10	0.11	0.23	25	45	25	17	8	22.5	10
XNEB580M12	M12	0.18	0.34	30	54	30	20.5	10	26	12
XNEB580M16	M16	0.30	0.7	35	63	35	27	12	30.5	14
XNEB580M20	M20	0.46	1.2	40	72	40	30	14	35	16
XNEB580M24	M24	0.87	1.8	50	90	50	36	18	45	20
XNEB580M30	M30	1.70	3.6	65	108	60	45	22	55	24
XNEB580M42	M42	4.10	7	85	144	80	63	30	75	32
XNEB580M48	M48	6.4	8.6	100	166	90	68	35	85	38
XNEB580M56	M56	8.6	11.5	110	184	100	78	38	95	42
XNEB580M64	M64	12.5	16	120	206	110	90	42	105	48

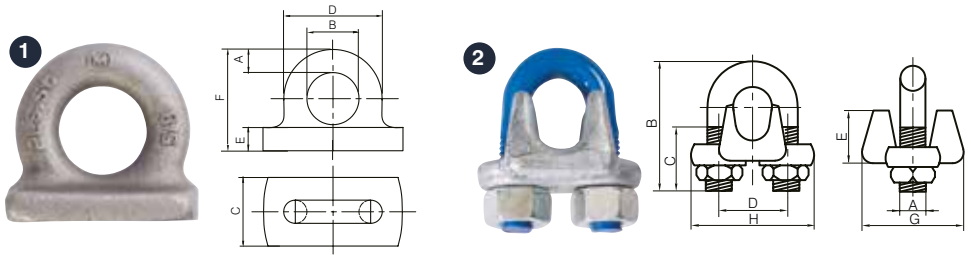
- Galvanised
- Safety Factor 4:1

2. XNEN582 DIN582 Eyenuts

Part Code	Size	Weight (kg each)	WLL (T)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	G (mm)
XNEN582M06	M6	0.05	0.08	20	36	20	8.5	18	8
XNEN582M08	M8	0.05	0.14	20	36	20	8.5	18	8
XNEN582M10	M10	0.09	0.23	25	45	25	10	22.5	10
XNEN582M12	M12	0.16	0.34	30	54	30	11	26	12
XNEN582M16	M16	0.25	0.7	35	63	35	13	30.5	14
XNEN582M20	M20	0.38	1.2	40	72	40	16	35	16
XNEN582M24	M24	0.72	1.8	50	90	50	20	45	20
XNEN582M30	M30	1.32	3.6	65	108	60	25	55	24
XNEN582M42	M42	3.10	7	85	144	80	35	75	32
XNEN582M48	M48	5.00	8.6	100	166	90	40	85	38

- Galvanised
- Safety Factor 4:1

Pad Eyes & Grips



1. XNPE Pad Eyes

Part Code	Size A (inch)	Weight (kg each)	Proof Load (T)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
XNPE10MM	3/8	0.14	2.0	20	25	45	6	38
XNPE12.5MM	1/2	0.33	3.5	25	35	60	8	50
XNPE16MM	5/8	0.53	5.5	32	45	70	10	64
XNPE19MM	3/4	0.77	7.5	38	50	85	12	76
XNPE22MM	7/8	1.27	9.6	42	60	102	13	89
XNPE26MM	1	2.00	13	50	70	115	16	100
XNPE28MM	1-1/8	2.90	15.75	57	76	130	18	114
XNPE32MM	1-1/4	3.44	20	64	85	145	19	128
XNPE35MM	1-3/8	5.10	23.63	70	95	159	21	140
XNPE38MM	1-1/2	6.60	29	76	100	170	22	152
XNPE44MM	1-3/4	10.00	39	88	120	200	26	178
XNPE52MM	2	15.00	50	100	140	230	30	203

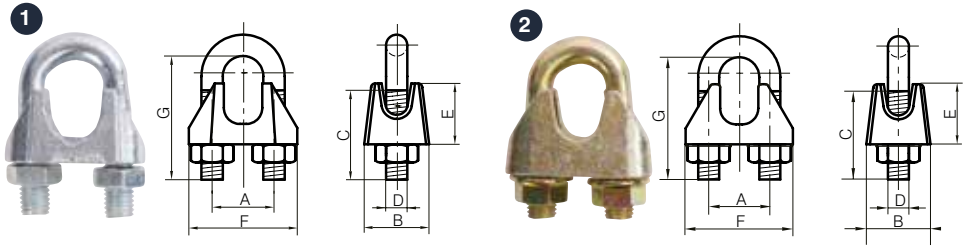
- Deck Plates, Self Colour

2. XNFSGRIP US Fed Spec Heavy Duty Grips

Part Code	Size (inch)	Weight (kg each)	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
XNFSGRIP001	1/8	0.03	0.22	0.72	0.44	0.47	0.41	0.38	0.81	0.94
XNFSGRIP002	3/16	0.05	0.25	0.97	0.56	0.59	0.50	0.44	0.94	1.16
XNFSGRIP003	1/4	0.09	0.31	1.03	0.50	0.75	0.66	0.56	1.19	1.44
XNFSGRIP004	5/16	0.13	0.38	1.38	0.75	0.88	0.72	0.69	1.31	1.69
XNFSGRIP005	3/8	0.21	0.44	1.50	0.75	1.00	0.91	0.75	1.63	1.94
XNFSGRIP006	7/16	0.32	0.50	1.88	1.00	1.19	1.03	0.88	1.81	2.28
XNFSGRIP007	1/2	0.34	0.50	1.88	1.00	1.19	1.13	0.88	1.91	2.28
XNFSGRIP008	5/8	0.47	0.56	2.38	1.25	1.31	1.34	0.94	2.06	2.50
XNFSGRIP009	3/4	0.64	0.62	2.75	1.44	1.50	1.41	1.06	2.25	2.84
XNFSGRIP010	7/8	0.98	0.75	3.12	1.62	1.75	1.59	1.25	2.44	3.16
XNFSGRIP011	1	1.18	0.75	3.50	1.81	1.88	1.78	1.25	2.63	3.47
XNFSGRIP012	1-1/8	1.28	0.75	3.88	2.00	2.00	1.91	1.25	2.81	3.59
XNFSGRIP013	1-1/4	1.90	0.88	4.25	2.13	2.31	2.19	1.44	3.13	4.13
XNFSGRIP014	1-3/8	2.00	0.88	4.63	2.31	2.38	2.31	1.44	3.13	4.19
XNFSGRIP015	1-1/2	2.35	0.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44
XNFSGRIP016	1-5/8	3.10	1.00	5.31	2.62	2.75	2.66	1.63	3.63	4.75
XNFSGRIP017	1-3/4	4.20	1.13	5.75	2.75	3.06	2.94	1.81	3.81	5.28
XNFSGRIP018	2	5.80	1.25	6.44	3.00	3.38	3.28	2.00	4.44	5.88
XNFSGRIP019	2-1/4	7.30	1.25	7.13	3.19	3.88	3.19	2.00	4.50	6.38
XNFSGRIP020	2-1/2	8.25	1.25	7.69	3.44	4.13	3.69	2.00	4.05	6.63
XNFSGRIP021	2-3/4	10.50	1.25	8.31	3.56	4.38	4.88	2.00	5.00	6.88
XNFSGRIP022	3	14.20	1.50	9.19	3.88	4.75	4.69	2.38	5.88	7.63
XNFSGRIP023	3-1/2	17.10	1.50	10.75	4.50	5.50	6.00	2.38	6.19	8.38

- Galvanised

Grips



1. SO38741

DIN741 Grips

Part Code	Size (mm)	Weight (kg each)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
S03874103	3	0.01	9	10.5	10	M4	9.5	19.5	17
S03874105	5	0.01	11	11	12	M5	10	22.5	19
S038741065	6.5	0.02	13	12	14	M5	10.5	24	23
S03874108	8	0.03	15	14	19	M6	14	28	28
S03874110	10	0.06	18.5	18	20	M8	16	33	34
S03874113	13	0.11	23	22	30	M10	21	41	45
S03874114	14	0.12	23	22	30	M10	21.5	41	47
S03874116	16	0.19	29.5	25	33	M12	25	49	52
S03874119	19	0.23	32	28	38	M12	30	52	62
S03874122	22	0.34	37	33	44	M14	34	61	68
S03874126	26	0.39	41	34	46	M14	39	70	78
S03874130	30	0.60	46	36	51	M16	44	74	94
S03874134	34	0.73	52	40	55	M16	50.5	83	100
S03874140	40	0.91	58	44	60	M16	56	90	121
S03874144	45	1.43	65	52	70	M18	66	105	144
S03874150	50	1.46	65	52	70	M18	66	105	149

- Galvanised
- Commercial Pattern

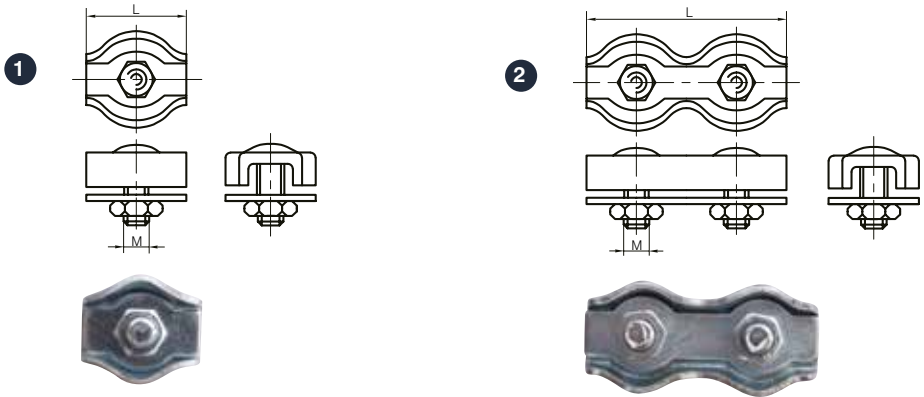
2. SO381142

DIN1142 (EN13411-5-1) Grips

Part Code	Size (mm)	Weight (kg each)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
S038114205	5	0.02	12	13	13	M5	13	25	21
S0381142065	6.5	0.04	14	15	17	M6	14	30	27
S038114208	8	0.08	18	19	20	M8	19	38	34
S038114210	10	0.09	20	20	24	M8	20	40	39
S038114213	13	0.25	27	27	30	M12	30	54	53
S038114216	16	0.40	32	32	35	M14	35	64	64
S038114219	19	0.45	36	33	36	M14	39	69	70
S038114222	22	0.64	40	35	40	M16	44	76	81
S038114226	26	1.04	46	39	50	M20	51	85	92
S038114230	30	1.34	54	42	55	M20	61	96	110
S038114234	34	1.92	60	48	60	M22	68	107	119
S038114240	40	2.57	68	54	65	M24	78	121	134

- Galvanised

Grips



1. XNSWC Simplex Clips

Part Code	Size (mm)	Weight (kg per 100)	L (mm)	M (mm)	
XNSWC02MM	2	0.50	18.5	M4	• Galvanised
XNSWC03MM	3	0.70	20	M4	
XNSWC04MM	4	1.10	22.5	M5	
XNSWC05MM	5	1.40	26	M5	
XNSWC06MM	6	2.20	30	M6	
XNSWC08MM	8	4.50	36	M8	
XNSWC10MM	10	7.50	48	M10	

2. XNDW Duplex Clips

Part Code	Size (mm)	Weight (kg per 100)	L (mm)	M (mm)	
XNDW02MM	2	1.00	37	M4	• Galvanised
XNDW03MM	3	1.40	40	M4	
XNDW04MM	4	2.20	45	M5	
XNDW05MM	5	2.80	52	M5	
XNDW06MM	6	4.40	60	M6	
XNDW08MM	8	9.00	72	M8	
XNDW10MM	10	15.00	84	M10	

Wire Clamp BG-100

IronGrip BG-100 – Secure fastenings for modern wire ropes

- Only 2 wire clamps needed per fastening – with older, more basic types of wire clamp, 3-7 wire clamps are required per fastening
- Adapted to modern wire ropes – today's standard wire ropes can carry loads up to 40% higher than a few decades ago. Modern wire ropes require modern wire clamps.
- Fully symmetrical and can be mounted in any direction – other clamps have to be mounted in the right direction, resulting in greater uncertainty and higher costs.
- Irrespective of whether the rope has a righthand or left-hand lay.
- Exhaustively tested by independent, accredited testing bodies.
- Full documentation from design data to quality assurance, traceability and mounting, instructions.



Modern wire ropes require modern wire clamps!

IronGrip's first wire clamp was launched in the middle of the 20th century, and soon became an industry standard within lifting. It was originally developed as a safer alternative to U-bolt wire fittings, which had previously been used for all types of wire rope fastening.

Even though the old wire clamp has worked well for decades, steel wires have been developed to become ever stronger and more specialised, with brand new properties. Today's wire ropes need new wire clamp

designs that match these properties.

The BG-100 is our new wire clamp, based on IronGrip's long experience and fundamental technology, which satisfies modern demands for durable wire ropes and simplified mounting. The BG-100 is the safest wire clamp on the market and is an excellent economic alternative thanks to the reduced number of wire clamps required per fastening, which then reduces mounting time, maintenance and space requirements.

Wire Clamp BG-100

IronGrip BG-100 – Secure fastenings for modern wire ropes

Technology

The development of the BG-100 is based on IronGrip's experience extending over more than 50 years, on state of the art tools to assist in analysis and design, as well as on meticulous practical testing. The fundamental principle is based on forcing the wire into an S-shape, which allows an increase in friction without any damage to the wire.

Materials

The materials have been chosen in consultation with leading technical experts in order to optimise the application of the material. Hot-dip galvanising of the castings ensures a long life, enabling the clamps to be re-used. Electrically galvanised standard bolts ensure more secure tightening, and if necessary they can be replaced with bolts with better corrosion properties.

Quality

The BG-100 is manufactured subject to IronGrip's stringent quality requirements in accordance with ISO-9001 standards.

Documentation

The design and testing are well documented. Traceability means that each wire clamp can be traced back to the time and place of manufacture.

Safety

The clamps ensure fastening of the wire to a degree of at least 90% in accordance with the current European standard for e.g. ferrules.

Economy

Thanks to the increased efficiency of each clamp, fewer clamps are required per fastening. This means both reduced material costs and cheaper installation. The clamps also take up less space on the wire.

Approved For Lifting

The wire clamps are tested by accredited bodies in accordance with EN 13411-3:2004 and are approved for general lifting applications up to strength class 1960 N/mm², with two wire clamps per fastening for all dimensions.

World Leader

The BG-100 is the most important new product for wire rope fastenings for several decades. No other wire clamps feature the same performance as the BG-100. It is protected by design patents.

Areas Of Use

Suitable for all types of lifting and fastenings, including lifts, cranes and suspended loads.



Wire Clamp BG-100

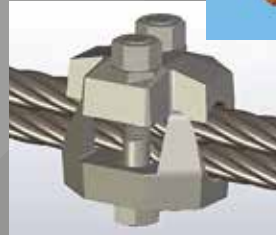
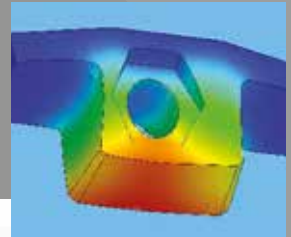
IronGrip BG-100 – Secure fastenings for modern wire ropes

Technical Information:

- Strength class for bolts: 8.8 in accordance with ISO 3506
- Rustproofing of castings: Hot-dip galvanisation in accordance with ISO 1461
- Rustproofing of bolts: Electrically galvanised in accordance with ISO 2081
- Temperature range for use: -50 - +250°C

Note:

- Follow the mounting instructions for the wire clamps. See the website or contact us.
- The teeth on each half of the clamp absorb small displacements in the clamp. If the teeth break, this is a sign that the displacements have become abnormally large. Replace the clamp immediately and ensure that the recommended tightening torque is followed.
- The above recommendations regarding load and number of wire clamps apply, provided that the wire rope is new and undamaged when the clamps are applied.
- The wire clamps should be tightened after a period of use.



XNIG1702

IronGrip Wire Clamps, BG-100, HDG

Part Code	Size (mm)	Weight (kg per 100)	Number of Clamps	Description
XNIG170206	5-6	19	2	5-6mm Dia. Wireclamp BG-600
XNIG170208	7-8	12	2	7-8mm Dia. Wireclamp BG-800
XNIG170210	9-10	20	2	9-10mm Dia. Wireclamp BG-1000
XNIG170212	11-12.5	39	2	11-12.5mm Dia. Wireclamp BG-1200
XNIG170216	13-16	72	2	13-16mm Dia. Wireclamp BG-1600
XNIG170220	17-20	120	2	17-20mm Dia. Wireclamp BG-2000
XNIG170225	21-25	280	2	21-25mm Dia. Wireclamp BG-2500
XNIG170234	26-34	770	2	26-34mm Dia. Wireclamp BG-3400



XONA™

Shackles
Turnbuckles

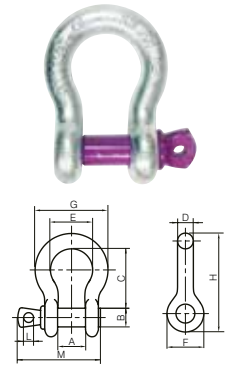


Shackles

XNSPAS

Forged Screw Pin Bow Shackles

Part Code	Weight (kg each)	WLL (T)	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)	L (inch)	M (inch)
XNSPAS01	0.03	1/3	0.38	0.25	0.88	3/16	0.60	0.56	0.98	1.47	0.16	1.12
XNSPAS02	0.05	0.5	0.47	0.31	1.13	1/4	0.78	0.61	1.28	1.84	0.19	1.38
XNSPAS03	0.08	0.75	0.53	0.38	1.22	5/16	0.84	0.75	1.47	2.09	0.22	1.66
XNSPAS04	0.14	1	0.66	0.44	1.44	3/8	1.03	0.91	1.78	2.49	0.25	2.03
XNSPAS05	0.20	1.5	0.75	0.50	1.69	7/16	1.16	1.06	2.03	2.91	0.31	2.38
XNSPAS06	0.32	2	0.81	0.63	1.88	1/2	1.31	1.19	2.31	3.28	0.38	2.69
XNSPAS07	0.62	3.25	1.06	0.75	2.38	5/8	1.69	1.50	2.94	4.19	0.44	3.34
XNSPAS08	1.03	4.75	1.25	0.88	2.81	3/4	2.00	1.81	3.50	4.97	0.50	3.97
XNSPAS09	1.66	6.5	1.44	1.00	3.31	7/8	2.28	2.09	4.03	5.83	0.50	4.50
XNSPAS10	2.31	8.5	1.69	1.13	3.75	1	2.69	2.38	4.69	6.56	0.56	5.07
XNSPAS11	3.42	9.5	1.81	1.25	4.25	1-1/8	2.91	2.69	5.16	7.47	0.63	5.59
XNSPAS12	4.56	12	2.03	1.38	4.69	1-1/4	3.25	3.00	5.75	8.25	0.69	6.16
XNSPAS13	6.35	13.5	2.25	1.50	5.25	1-3/8	3.63	3.31	6.38	9.16	0.75	6.84
XNSPAS14	8.15	17	2.38	1.63	5.75	1-1/2	3.88	3.63	6.88	10.00	0.81	7.35
XNSPAS15	14.70	25	2.88	2.00	7.00	1-3/4	5.00	4.19	8.86	12.34	1.00	9.08
XNSPAS16	20.41	35	3.25	2.25	7.75	2	5.75	4.81	9.97	13.68	1.22	10.34
XNSPAS17	39.00	55	4.13	2.75	10.50	2-1/2	7.25	5.69	12.87	17.84	1.38	13.00
XNSPAS18	60.00	85	5.00	3.30	13.00	3	7.88	6.50	16.42	21.50	1.54	15.66

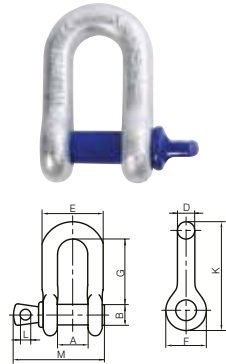


- US Federal Specification Hot Dipped Galvanised
- Safety Factor: 6:1
- Drop Forged

XNSPDS

Forged Screw Pin 'D' Shackles

Part Code	Weight (kg each)	WLL (T)	A (inch)	B (inch)	D (inch)	E (inch)	F (inch)	G (inch)	K (inch)	L (inch)	M (inch)
XNSPDS01	0.03	1/3	0.38	0.25	3/16	0.79	0.56	0.72	1.22	0.16	1.07
XNSPDS02	0.05	0.5	0.47	0.31	1/4	0.97	0.62	0.97	1.59	0.19	1.43
XNSPDS03	0.07	0.75	0.53	0.38	5/16	1.15	0.75	1.07	1.91	0.22	1.71
XNSPDS04	0.13	1	0.66	0.44	3/8	1.42	0.92	1.28	2.31	0.25	2.02
XNSPDS05	0.19	1.5	0.75	0.50	7/16	1.63	1.06	1.48	2.67	0.31	2.37
XNSPDS06	0.28	2	0.81	0.63	1/2	1.81	1.18	1.66	3.03	0.38	2.69
XNSPDS07	0.54	3.25	1.06	0.75	5/8	2.32	1.50	2.04	3.76	0.44	3.34
XNSPDS08	0.92	4.75	1.25	0.88	3/4	2.75	1.81	2.40	4.53	0.50	3.97
XNSPDS09	1.41	6.5	1.44	1.00	7/8	3.20	2.10	2.86	5.33	0.50	4.50
XNSPDS10	2.14	8.5	1.69	1.13	1	3.69	2.38	3.24	5.94	0.56	5.13
XNSPDS11	3.06	9.5	1.81	1.25	1-1/8	4.07	2.69	3.61	6.78	0.63	5.71
XNSPDS12	4.30	12	2.03	1.38	1-1/4	4.53	3.00	3.97	7.50	0.69	6.25
XNSPDS13	5.65	13.5	2.25	1.50	1-3/8	5.01	3.31	4.43	8.28	0.75	6.83
XNSPDS14	7.20	17	2.38	1.63	1-1/2	5.38	3.62	4.84	9.05	0.81	7.33
XNSPDS15	12.15	25	2.88	2.00	1-3/4	6.38	4.19	5.78	10.97	1.00	9.06
XNSPDS16	19.19	35	3.25	2.25	2	7.25	5.00	6.77	12.74	1.22	10.35
XNSPDS17	33.00	55	4.12	2.75	2-1/2	9.38	5.68	8.07	14.85	1.38	13.00
XNSPDS18	50.00	85	5.00	3.30	3	11.00	6.50	8.56	16.87	1.54	15.66



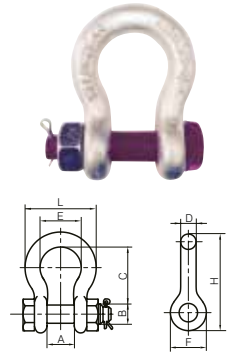
- US Federal Specification Hot Dipped Galvanised
- Safety Factor: 6:1
- Drop Forged

Shackles

XNSBAS

Forged Safety Pin Bow Shackles

Part Code	Weight (kg each)	WLL (T)	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	H (inch)	L (inch)
XNSBAS01	0.03	1/3	0.38	0.25	0.88	3/16	0.60	0.56	1.47	0.98
XNSBAS02	0.05	0.5	0.47	0.31	1.13	1/4	0.78	0.61	1.84	1.28
XNSBAS03	0.09	0.75	0.53	0.38	1.22	5/16	0.84	0.75	2.09	1.47
XNSBAS04	0.17	1	0.66	0.44	1.44	3/8	1.03	0.91	2.49	1.78
XNSBAS05	0.22	1.5	0.75	0.50	1.69	7/16	1.16	1.06	2.91	2.03
XNSBAS06	0.36	2	0.81	0.64	1.88	1/2	1.31	1.19	3.28	2.31
XNSBAS07	0.72	3.25	1.06	0.77	2.38	5/8	1.69	1.50	4.19	2.94
XNSBAS08	1.14	4.75	1.25	0.89	2.81	3/4	2.00	1.81	4.97	3.50
XNSBAS09	1.77	6.5	1.44	1.02	3.31	7/8	2.28	2.09	5.83	4.03
XNSBAS10	2.57	8.5	1.69	1.15	3.75	1	2.69	2.38	6.56	4.69
XNSBAS11	3.74	9.5	1.81	1.25	4.25	1-1/8	2.91	2.69	7.47	5.16
XNSBAS12	4.76	12	2.03	1.40	4.69	1-1/4	3.25	3.00	8.25	5.75
XNSBAS13	6.90	13.5	2.25	1.53	5.25	1-3/8	3.63	3.31	9.16	6.38
XNSBAS14	8.70	17	2.38	1.66	5.75	1-1/2	3.88	3.63	10.00	6.88
XNSBAS15	15.60	25	2.88	2.04	7.00	1-3/4	5.00	4.19	12.34	8.86
XNSBAS16	23.70	35	3.25	2.30	7.75	2	5.75	4.81	13.68	9.97
XNSBAS17	42.50	55	4.13	2.80	10.50	2-1/2	7.25	5.69	17.84	12.87
XNSBAS18	66.00	85	5.00	3.30	13.00	3	7.88	6.50	21.50	16.42

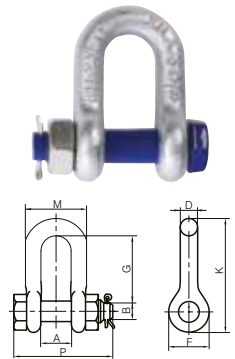


- US Federal Specification Hot Dipped Galvanised
- Safety Factor: 6:1
- Drop Forged

XNSBDS

Forged Safety Pin 'D' Shackles

Part Code	Weight (kg each)	WLL (T)	A (inch)	B (inch)	D (inch)	F (inch)	G (inch)	K (inch)	M (inch)	P (inch)
XNSBDS01	0.03	1/3	0.38	0.25	3/16	0.56	0.72	1.22	0.79	1.20
XNSBDS02	0.05	0.5	0.47	0.31	1/4	0.62	0.97	1.59	0.97	1.56
XNSBDS03	0.09	0.75	0.53	0.38	5/16	0.75	1.07	1.91	1.15	1.82
XNSBDS04	0.14	1	0.66	0.44	3/8	0.92	1.28	2.31	1.42	2.17
XNSBDS05	0.22	1.5	0.75	0.50	7/16	1.06	1.48	2.67	1.63	2.52
XNSBDS06	0.33	2	0.81	0.64	1/2	1.18	1.66	3.03	1.81	2.80
XNSBDS07	0.64	3.25	1.06	0.77	5/8	1.50	2.04	3.76	2.32	3.56
XNSBDS08	1.02	4.75	1.25	0.89	3/4	1.81	2.40	4.53	2.75	4.15
XNSBDS09	1.64	6.5	1.44	1.02	7/8	2.10	2.86	5.33	3.20	4.82
XNSBDS10	2.38	8.5	1.69	1.15	1	2.38	3.24	5.94	3.69	5.39
XNSBDS11	3.34	9.5	1.81	1.25	1-1/8	2.69	3.61	6.78	4.07	5.90
XNSBDS12	4.50	12	2.03	1.40	1-1/4	3.00	3.97	7.50	4.53	6.69
XNSBDS13	6.60	13.5	2.25	1.53	1-3/8	3.31	4.43	8.28	5.01	7.21
XNSBDS14	7.80	17	2.38	1.66	1-1/2	3.62	4.87	9.05	5.38	7.73
XNSBDS15	13.00	25	2.88	2.04	1-3/4	4.19	5.82	10.97	6.38	9.33
XNSBDS16	21.20	35	3.25	2.30	2	5.00	6.82	12.74	7.25	10.41
XNSBDS17	38.50	55	4.13	2.80	2-1/2	5.68	8.07	14.85	9.38	13.58
XNSBDS18	56.00	85	5.00	3.25	3	6.50	8.56	16.87	11.00	15.13

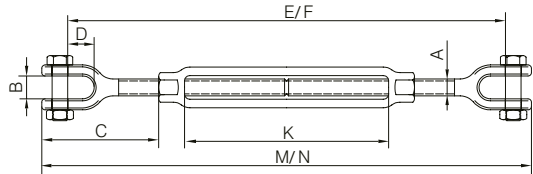


- US Federal Specification Hot Dipped Galvanised
- Safety Factor: 6:1
- Drop Forged

Turnbuckles



E=OPEN
F=CLOSED
M=OPEN
N=CLOSED
C=CLOSED



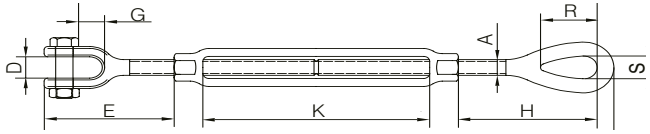
XNTBJJ

Forged Jaw/Jaw Turnbuckles c/w Lock Nut

- US Federal Specification, Hot Dipped Galvanised
- Complete with Fitted Lock Nuts
- Safety Factor: 5:1

Part Code	Size (inch)	Weight (kg each)	WLL (T)	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	M (inch)	N (inch)	K (inch)
XNTBJJ01	1/4 x 4	0.16	0.23	0.25	0.45	1.58	0.62	10.9	6.9	11.9	7.9	4
XNTBJJ02	5/16 x 4-1/2	0.24	0.36	0.31	0.5	1.98	0.87	12.36	8.36	13.9	9.4	4.5
XNTBJJ03	3/8 x 6	0.36	0.54	0.38	0.54	2.21	0.87	16.14	10.14	17.38	11.3	6
XNTBJJ04	1/2 x 6	0.71	1	0.5	0.65	2.75	1.06	18.5	11.5	20	813	6
XNTBJJ05	1/2 x 9	0.79	1	0.5	0.65	2.75	1.06	24.5	14.5	26	19	9
XNTBJJ06	1/2 x 12	1.09	1	0.5	0.65	2.75	1.06	30.5	17.5	32	19	12
XNTBJJ07	5/8 x 6	1.23	1.6	0.63	0.79	3.5	1.31	20.05	12.8	22.13	14.88	6
XNTBJJ08	5/8 x 9	1.55	1.6	0.63	0.79	3.5	1.31	26.05	15.8	28.13	17.88	9
XNTBJJ09	5/8 x 12	1.77	1.6	0.63	0.79	3.5	1.31	32.05	18.8	34.13	20.88	12
XNTBJJ10	5/8 x 18	2.30	1.6	0.63	0.79	3.5	1.31	38.05	21.8	40.13	23.88	18
XNTBJJ11	3/4 x 6	1.87	2.3	0.75	0.94	4.18	1.5	21.5	14	24.1	16.6	6
XNTBJJ12	3/4 x 9	2.47	2.3	0.75	0.94	4.18	1.5	27.5	17	30.1	19.6	9
XNTBJJ13	3/4 x 12	2.97	2.3	0.75	0.94	4.18	1.5	33.5	20	36.1	22.6	12
XNTBJJ14	3/4 x 18	3.64	2.3	0.75	0.94	4.18	1.5	45.5	26	48.1	28.6	18
XNTBJJ15	7/8 x 12	3.71	3.2	0.88	1.13	4.85	1.75	35.11	21.36	38.07	24.35	12
XNTBJJ16	7/8 x 18	4.89	3.2	0.88	1.13	4.85	1.75	47.11	27.36	50.07	30.32	18
XNTBJJ17	1 x 6	4.62	4.5	1	1.34	5.53	2.06	24.72	16.72	28.06	20.06	6
XNTBJJ18	1 x 12	5.96	4.5	1	1.34	5.53	2.06	36.72	22.72	40.06	26.06	12
XNTBJJ19	1 x 18	6.87	4.5	1	1.34	5.53	2.06	48.72	28.72	52.06	32.06	18
XNTBJJ20	1 x 24	8.20	4.5	1	1.34	5.53	2.06	60.72	34.72	64.06	38.06	24
XNTBJJ21	1-1/4 x 12	9.34	6.9	1.25	1.75	7.21	2.81	39.84	25.34	44.04	29.54	12
XNTBJJ22	1-1/4 x 18	11.20	6.9	1.25	1.75	7.21	2.81	51.84	41.34	56.04	35.54	18
XNTBJJ23	1-1/4 x 24	12.28	6.9	1.25	1.75	7.21	2.81	63.84	37.34	68.04	41.54	24
XNTBJJ24	1-1/2 x 12	13.93	9.7	1.5	2.06	7.88	2.81	41.5	26.5	46.5	31.5	12
XNTBJJ25	1-1/2 x 18	16.68	9.7	1.5	2.06	7.88	2.81	53.5	32.5	58.5	37.5	18
XNTBJJ26	1-1/2 x 24	18.89	9.7	1.5	2.06	7.88	2.81	65.5	38.5	70.5	43.5	24
XNTBJJ27	1-3/4 x 18	24.52	12.7	1.75	2.6	9.4	3.38	53.38	35.38	59.18	41.18	18
XNTBJJ28	1-3/4 x 24	28.77	12.7	1.75	2.6	9.4	3.38	65.38	41.38	71.18	47.18	24
XNTBJJ29	2 x 24	42.79	16.8	2	2.62	11.86	3.69	69.54	45.54	76.72	52.72	24
XNTBJJ30	2-1/2 x 24	74.90	27	2.5	3.01	13.56	4.44	72.98	48.98	82.18	58.18	24
XNTBJJ31	2-3/4 x 24	88.89	34	2.75	3.61	15.22	4.19	74.75	50.75	85.5	61.5	24

Turnbuckles



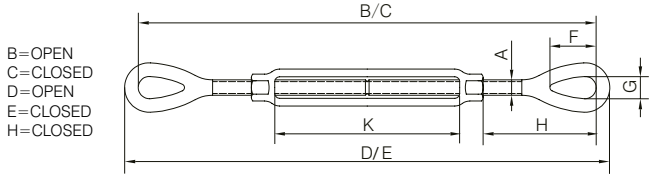
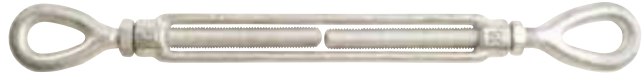
B=OPEN
C=CLOSED
M=OPEN
N=CLOSED
E=CLOSED
H=CLOSED

XNTBJE Forged Jaw/Eye Turnbuckles c/w Lock Nut

- US Federal Specification, Hot Dipped Galvanised
- Complete with Fitted Lock Nuts
- Safety Factor: 5:1

Part Code	Size (inch)	Weight (kg each)	WLL (T)	A (inch)	D (inch)	E (inch)	G (inch)	B (inch)	C (inch)	M (inch)	N (inch)	R (inch)	S (inch)	H (inch)	K (inch)
XNTBJE01	1/4 x 4	0.13	0.23	0.25	0.45	1.58	0.62	11.35	7.35	12.07	8.07	0.78	0.34	1.75	4
XNTBJE02	5/16 x 4-1/2	0.23	0.36	0.31	0.5	1.98	0.87	13.71	8.71	14.01	9.51	0.94	0.44	2.09	4.5
XNTBJE03	3/8 x 6	0.36	0.54	0.38	0.54	2.21	0.87	16.81	10.81	17.77	11.77	1.12	0.53	2.52	6
XNTBJE04	1/2 x 6	0.69	1	0.5	0.65	2.75	1.06	19.29	12.29	20.48	13.48	1.44	0.72	3.23	6
XNTBJE05	1/2 x 9	0.77	1	0.5	0.65	2.75	1.06	25.29	15.29	26.48	16.48	1.44	0.72	3.23	9
XNTBJE06	1/2 x 12	0.94	1	0.5	0.65	2.75	1.06	31.29	18.29	32.48	19.48	1.44	0.72	3.23	12
XNTBJE07	5/8 x 6	1.07	1.6	0.63	0.79	3.5	1.31	20.99	13.74	22.53	15.28	1.75	0.88	3.9	6
XNTBJE08	5/8 x 9	1.44	1.6	0.63	0.79	3.5	1.31	26.99	16.74	28.53	18.28	1.75	0.88	3.9	9
XNTBJE09	5/8 x 12	1.64	1.6	0.63	0.79	3.5	1.31	32.99	19.74	34.53	21.28	1.75	0.88	3.9	12
XNTBJE10	5/8 x 18	2.30	1.6	0.63	0.79	3.5	1.31	38.99	22.74	40.53	24.28	1.75	0.88	3.9	18
XNTBJE11	3/4 x 6	1.81	2.3	0.75	0.94	4.18	1.5	22.69	11.19	24.61	17.11	2.09	1	4.69	6
XNTBJE12	3/4 x 9	2.16	2.3	0.75	0.94	4.18	1.5	28.69	18.19	30.61	20.11	2.09	1	4.69	9
XNTBJE13	3/4 x 12	2.69	2.3	0.75	0.94	4.18	1.5	34.69	21.19	36.61	23.11	2.09	1	4.69	12
XNTBJE14	3/4 x 18	3.20	2.3	0.75	0.94	4.18	1.5	46.69	27.19	48.61	29.11	2.09	1	4.69	18
XNTBJE15	7/8 x 12	3.79	3.2	0.88	1.13	4.85	1.75	36.09	22.34	38.32	24.57	2.38	1.25	5.1	12
XNTBJE16	7/8 x 18	4.43	3.2	0.88	1.13	4.85	1.75	48.09	28.34	50.32	30.57	2.38	1.25	5.1	18
XNTBJE17	1 x 6	4.05	4.5	1	1.34	5.53	2.06	26.34	18.34	28.89	20.89	3	1.44	6.36	6
XNTBJE18	1 x 12	5.08	4.5	1	1.34	5.53	2.06	38.34	24.34	40.89	26.89	3	1.44	6.36	12
XNTBJE19	1 x 18	6.04	4.5	1	1.34	5.53	2.06	50.34	30.34	52.89	32.89	3	1.44	6.36	18
XNTBJE20	1 x 24	7.71	4.5	1	1.34	5.53	2.06	62.34	36.34	64.89	38.89	3	1.44	6.36	24
XNTBJE21	1-1/4 x 12	8.82	6.9	1.25	1.75	7.21	2.81	41.32	26.82	44.55	30.05	3.56	1.81	7.72	12
XNTBJE22	1-1/4 x 18	10.97	6.9	1.25	1.75	7.21	2.81	53.32	32.82	56.05	36.05	3.56	1.81	7.72	18
XNTBJE23	1-1/4 x 24	12.84	6.9	1.25	1.75	7.21	2.81	63.32	38.82	68.55	42.05	3.56	1.81	7.72	24
XNTBJE24	1-1/2 x 12	13.16	9.7	1.5	2.06	7.88	2.81	43.5	28.5	47.25	32.25	4.06	2.21	8.62	12
XNTBJE25	1-1/2 x 18	15.89	9.7	1.5	2.06	7.88	2.81	55.5	34.5	59.25	38.25	4.06	2.21	8.62	18
XNTBJE26	1-1/2 x 24	17.79	9.7	1.5	2.06	7.88	2.81	67.5	40.5	71.25	44.25	4.06	2.21	8.62	24
XNTBJE27	1-3/4 x 18	24.40	12.7	1.75	2.6	9.4	3.38	55.38	37.38	59.78	41.78	4.62	2.38	10	18
XNTBJE28	1-3/4 x 24	27.55	12.7	1.75	2.6	9.4	3.38	67.38	43.38	71.78	47.75	4.62	2.38	10	24
XNTBJE29	2 x 24	40.41	16.8	2	2.62	11.86	3.69	72.62	48.62	77.95	53.95	5.75	2.69	13.09	24
XNTBJE30	2-1/2 x 24	78.00	27	2.5	3.01	13.56	4.44	75.8	51.8	82.4	58.4	6.5	3.12	13.78	24
XNTBJE31	2-3/4 x 24	82.00	34	2.75	3.61	15.22	4.19	77.88	53.88	85.5	61.5	7	3.25	15.22	24

Turnbuckles



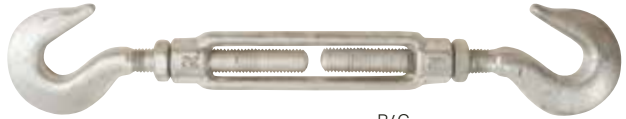
XNTBEE

Forged Eye/Eye Turnbuckles c/w Lock Nut

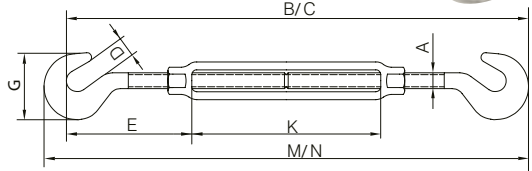
- US Federal Specification, Hot Dipped Galvanised
- Complete with Fitted Lock Nuts
- Safety Factor: 5:1

Part Code	Size (inch)	Weight (kg each)	WLL (T)	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)	K (inch)
XNTBEE01	1/4 x 4	0.11	0.23	0.25	11.8	7.8	12.25	8.25	0.78	0.34	1.75	4
XNTBEE02	5/16 x 4-1/2	0.20	0.36	0.31	13.56	9.06	14.12	9.62	0.94	0.44	2.09	4.5
XNTBEE03	3/8 x 6	0.34	0.54	0.38	17.47	11.47	18.16	12.16	1.12	0.53	2.52	6
XNTBEE04	1/2 x 6	0.69	1	0.5	20.08	13.08	20.96	13.96	1.44	0.72	3.23	6
XNTBEE05	1/2 x 9	0.76	1	0.5	26.08	16.08	26.96	16.96	1.44	0.72	3.23	9
XNTBEE06	1/2 x 12	0.97	1	0.5	32.08	19.08	32.96	19.96	1.44	0.72	3.23	12
XNTBEE07	5/8 x 6	1.08	1.6	0.63	21.93	14.68	22.93	15.68	1.75	0.88	3.9	6
XNTBEE08	5/8 x 9	1.27	1.6	0.63	27.93	17.68	28.93	18.68	1.75	0.88	3.9	9
XNTBEE09	5/8 x 12	1.55	1.6	0.63	33.93	20.68	34.93	21.68	1.75	0.88	3.9	12
XNTBEE10	5/8 x 18	2.10	1.6	0.63	39.93	23.68	40.93	24.68	1.75	0.88	3.9	18
XNTBEE11	3/4 x 6	1.72	2.3	0.75	23.88	16.38	25.12	17.62	2.09	1	4.69	6
XNTBEE12	3/4 x 9	1.95	2.3	0.75	29.83	19.38	31.12	20.62	2.09	1	4.69	12
XNTBEE13	3/4 x 12	2.49	2.3	0.75	35.88	22.38	37.12	23.62	2.09	1	4.69	12
XNTBEE14	3/4 x 18	3.26	2.3	0.75	47.88	28.38	49.12	29.62	2.09	1	4.69	18
XNTBEE15	7/8 x 12	3.30	3.2	0.88	37.07	28.32	38.57	24.82	2.38	1.25	5.1	12
XNTBEE16	7/8 x 18	4.52	3.2	0.88	49.07	29.32	50.57	30.82	2.38	1.25	5.1	18
XNTBEE17	1 x 6	4.10	4.5	1	27.97	19.97	29.72	21.72	3	1.44	6.36	6
XNTBEE18	1 x 12	5.22	4.5	1	39.97	25.97	41.97	27.72	3	1.44	6.36	12
XNTBEE19	1 x 18	6.36	4.5	1	51.97	31.97	53.72	33.72	3	1.44	6.36	18
XNTBEE20	1 x 24	7.83	4.5	1	63.97	37.97	65.72	39.72	3	1.44	6.36	24
XNTBEE21	1-1/4 x 12	8.63	6.9	1.25	42.81	28.31	45.06	30.56	3.56	1.81	7.72	12
XNTBEE22	1-1/4 x 18	10.44	6.9	1.25	54.81	34.31	57.06	36.56	3.56	1.81	7.72	18
XNTBEE23	1-1/4 x 24	12.26	6.9	1.25	66.81	40.31	69.06	42.56	3.56	1.81	7.72	24
XNTBEE24	1-1/2 x 12	12.48	9.7	1.5	45.5	30.5	48	33	4.06	2.21	8.62	12
XNTBEE25	1-1/2 x 18	14.00	9.7	1.5	57.5	36.5	60	39	4.06	2.21	8.62	18
XNTBEE26	1-1/2 x 24	17.00	9.7	1.5	69.5	42.5	72	45	4.06	2.21	8.62	24
XNTBEE27	1-3/4 x 18	23.80	12.7	1.75	57.38	39.38	60.38	42.38	4.62	2.38	10	18
XNTBEE28	1-3/4 x 24	26.33	12.7	1.75	69.38	45.38	72.38	48.38	4.62	2.38	10	24
XNTBEE29	2 x 24	38.70	16.8	2	75.69	51.69	79.19	55.19	5.75	2.69	13.09	24
XNTBEE30	2-1/2 x 24	65.50	27	2.5	78.62	54.62	82.62	58.62	6.5	3.12	13.78	24
XNTBEE31	2-3/4 x 24	88.00	34	2.75	81	57	85.5	61.5	7	3.25	15.22	24

Turnbuckles



B=OPEN
C=CLOSED
M=OPEN
N=CLOSED
E=CLOSED



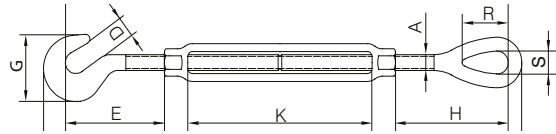
XNTBHH

Forged Hook/Hook Turnbuckles c/w Lock Nut

- US Federal Specification, Hot Dipped Galvanised
- Complete with Fitted Lock Nuts
- Safety Factor: 5:1

Part Code	Size (inch)	Weight (kg each)	WLL (T)	A (inch)	D (inch)	E (inch)	G (inch)	B (inch)	C (inch)	M (inch)	N (inch)	K (inch)
XNTBHH03	3/8 x 6	0.35	0.45	0.38	0.56	2.3	1.77	16.5	10.5	17.72	17.72	6
XNTBHH04	1/2 x 6	0.72	0.7	0.5	0.66	2.94	2.28	18.82	11.82	20.38	13.38	6
XNTBHH05	1/2 x 9	0.82	0.7	0.5	0.66	2.94	2.28	24.82	14.82	26.38	16.38	9
XNTBHH06	1/2 x 12	1.03	0.7	0.5	0.66	2.94	2.28	30.82	17.82	32.38	19.38	12
XNTBHH07	5/8 x 6	1.25	1	0.63	0.9	3.69	2.81	20.5	13.25	22.5	15.25	6
XNTBHH08	5/8 x 9	1.55	1	0.63	0.9	3.69	2.81	26.5	16.25	28.5	18.25	9
XNTBHH09	5/8 x 12	1.72	1	0.63	0.9	3.69	2.81	32.5	19.25	34.5	21.25	12
XNTBHH10	5/8 x 18	2.20	1	0.63	0.9	3.69	2.81	38.5	22.25	40.5	24.25	18
XNTBHH11	3/4 x 6	1.76	1.3	0.75	0.98	4.52	3.33	22.38	14.88	24.78	17.28	6
XNTBHH12	3/4 x 9	2.39	1.3	0.75	0.98	4.52	3.33	28.38	17.88	30.78	20.28	9
XNTBHH13	3/4 x 12	2.47	1.3	0.75	0.98	4.52	3.33	34.38	20.88	36.78	23.28	12
XNTBHH14	3/4 x 18	3.68	1.3	0.75	0.98	4.52	3.33	46.38	26.88	48.78	29.28	18
XNTBHH15	7/8 x 12	3.67	1.8	0.88	1.13	5.19	3.78	36	22.25	38.75	25	12
XNTBHH16	7/8 x 18	4.52	1.8	0.88	1.13	5.19	3.78	48	28.25	50.75	21	18
XNTBHH17	1 x 6	4.24	2.3	1	1.25	5.84	4.25	25.63	17.63	34.69	20.69	6
XNTBHH18	1 x 12	5.42	2.3	1	1.25	5.84	4.25	37.63	23.63	40.69	26.69	12
XNTBHH19	1 x 18	6.36	2.3	1	1.25	5.84	4.25	49.63	29.63	52.69	32.69	18

Turnbuckles



XNTBHE

Forged Hook/Eye Turnbuckles c/w Lock Nut

B=OPEN
C=CLOSED
M=OPEN
N=CLOSED
E=CLOSED

- US Federal Specification, Hot Dipped Galvanised
- Complete with Fitted Lock Nuts
- Safety Factor: 5:1

Part Code	Size (inch)	Weight (kg each)	WLL (T)	A (inch)	D (inch)	E (inch)	G (inch)	B (inch)	C (inch)	M (inch)	N (inch)	R (inch)	S (inch)	H (inch)	K (inch)
XNTBHE03	3/8 x 6	0.35	0.35	0.38	0.56	2.3	1.77	16.98	10.98	17.94	11.94	1.12	0.53	2.52	6
XNTBHE04	1/2 x 6	0.73	0.73	0.5	0.66	2.94	2.28	19.45	12.45	20.67	13.67	1.44	0.72	3.23	6
XNTBHE05	1/2 x 9	0.84	0.84	0.5	0.66	2.94	2.28	25.45	12.45	20.67	16.67	1.44	0.72	3.23	9
XNTBHE06	1/2 x 12	1.02	1.02	0.5	0.66	2.94	2.28	31.45	18.45	32.67	19.67	1.44	0.72	3.23	12
XNTBHE07	5/8 x 6	1.23	1.23	0.63	0.9	3.69	2.81	21.96	13.96	22.72	15.47	1.75	0.88	3.9	6
XNTBHE08	5/8 x 9	1.42	1.42	0.63	0.9	3.69	2.81	27.96	16.96	28.72	18.47	1.75	0.88	3.9	9
XNTBHE09	5/8 x 12	1.72	1.72	0.63	0.9	3.69	2.81	33.21	19.96	34.72	21.47	1.75	0.88	3.9	12
XNTBHE10	5/8 x 18	2.10	2.10	0.63	0.9	3.69	2.81	39.21	22.96	40.72	24.47	1.75	0.88	3.9	18
XNTBHE11	3/4 x 6	1.77	1.77	0.75	0.98	4.52	3.33	23.13	15.63	24.95	17.45	2.09	1	4.69	6
XNTBHE12	3/4 x 9	2.10	2.10	0.75	0.98	4.52	3.33	29.13	18.63	30.96	20.45	2.09	1	4.69	9
XNTBHE13	3/4 x 12	2.65	2.65	0.75	0.98	4.52	3.33	35.13	21.63	36.95	23.45	2.09	1	4.69	12
XNTBHE14	3/4 x 18	2.87	2.87	0.75	0.98	4.52	3.33	47.13	27.63	48.95	29.45	2.09	1	4.69	18
XNTBHE15	7/8 x 12	3.67	3.67	0.88	1.13	5.19	3.78	36.53	22.78	38.66	24.91	2.38	1.25	5.1	12
XNTBHE16	7/8 x 18	4.51	4.51	0.88	1.13	5.19	3.78	48.53	28.78	50.66	30.91	2.38	1.25	5.1	18
XNTBHE18	1 x 12	5.42	5.42	1	1.25	5.84	4.25	38.8	24.8	41.2	27.2	3	1.44	6.36	12
XNTBHE19	1 x 18	6.35	6.35	1	1.25	5.84	4.25	50.8	30.8	53.2	33.2	3	1.44	6.36	18

XNTBSP06

Spare Pin & Nut

Part Code	Size (inch)
XNTBSP01	1/4
XNTBSP02	5/16
XNTBSP03	3/8
XNTBSP04	1/2
XNTBSP05	5/8
XNTBSP06	3/4
XNTBSP07	7/8
XNTBSP08	1

Typical Markings





Wire Rope Sockets



Aqualine Sockets

Global Rope Fittings, The best choice for sockets

Quality

All sockets are made from high-quality cast steel and are suitable for low temperature environments. The material used has an impact value of $> 42 \text{ J}$ at $-20 \text{ }^\circ\text{C}$ Charpy-V.

All Aqualine Sockets can be supplied with a manufacturer's certificate and a material certificate stating rope diameter, MBL, mechanical properties and PO number. Each socket can be subjected to individual magnetic particle and ultrasonic inspections by an independent agency.

Design

The Aqualine Sockets have some progressive new design details. The Open Wedge series has extra long jaws for quick assembly. The wedges have a square bottom section to prevent damage to wedge and rope during removal. The Open and Closed Spelter

Sockets have a cylindrical base end for better vertical alignment with the wire rope.

All Aqualine Spelter Sockets have a non-rotation device to prevent the cone from rotating and backing out during transport and/or assembly.

Finish

All Aqualine sockets have a standard finish in dark grey coating (RAL 7024), or can be supplied in hot dipped galvanized finish.



Aqualine Sockets

Certificates & Documents

All Aqualine Sockets can be supplied with a complete certificate comprising:

- Declaration of compliance according to EN 10204-2.1, containing,
 - Certificate number
 - Wire rope diameter
 - Minimum Breaking Load (MBL)
 - Quantity
 - Order number
- EC Declaration according to Machine Directive 98/37/EC
- Material certificate according to EN 10204-3.1 or EN 10204-3.2
- Manufacturer's test certificate according to ILO Convention No. 152
- NDE inspection reports
- Inspection certificate issued by official classification body

Identification / Marking

Each socket is clearly marked with heat number, rope size, type number and logo as showed in the pictures below.



Heat number



Rope size



Type number
and logo



Aqualine Sockets

Warnings & Instructions

General

The Aqualine sockets are the strongest on today's market and the best choice for a wire rope termination, but the pouring, use and inspection are the responsibility of the user.

Always inspect a socket, wedge, pin or bolt before using. Do not modify any part.

Never do any repairs or welding on a Aqualine socket. For repairs contact your supplier.

Do not use sockets after being overloaded, side-loaded or shock-loaded. Never use sockets showing cracks or any signs of wear to the bow, pin holes or pins.

Incorrect use of sockets may create an unsafe situation and this may result in death or serious injury to personnel and/or damage to equipment.

Spelter Sockets

Spelter socket terminations have an efficiency of 100%, based on the strength of the wire rope, but this is limited by the minimum breaking load of the socket.

When using white metal, never expose a socket to a temperature of more than 300 °C (570 °F).

When using synthetic resin, read the instructions, instructions for use and warnings provided by the manufacturer.

Sockets poured with synthetic resin must not be subjected to temperatures exceeding 115 °C (240 °F).

Make sure the broomed wires are uniformly spaced in the basket, with the wire ends at the top of the basket. The axes of the wire rope and the socket must be aligned.

Seal the base of the socket prior to pouring to prevent resin leakage.

Poured sockets should not be moved for at least 15 minutes after the resin in the socket has gelled.

If possible we recommend the assembly to be proof-tested at 2/5 of the working load limit at least 1 hour after the resin in the socket has gelled.

Never use a wire rope with a diameter that deviates from that stated in the tables.

Aqualine Sockets

Warnings & Instructions

Wedge Sockets

Wedge sockets have an efficiency of 80% based on the minimum breaking load (MBL) of the wire rope.

Do not interchange Aqualine wedge sockets and wedges with non Aqualine wedge sockets.

Select the wedge socket for the correct wire rope size. Do not mix wedges with different models or sizes.

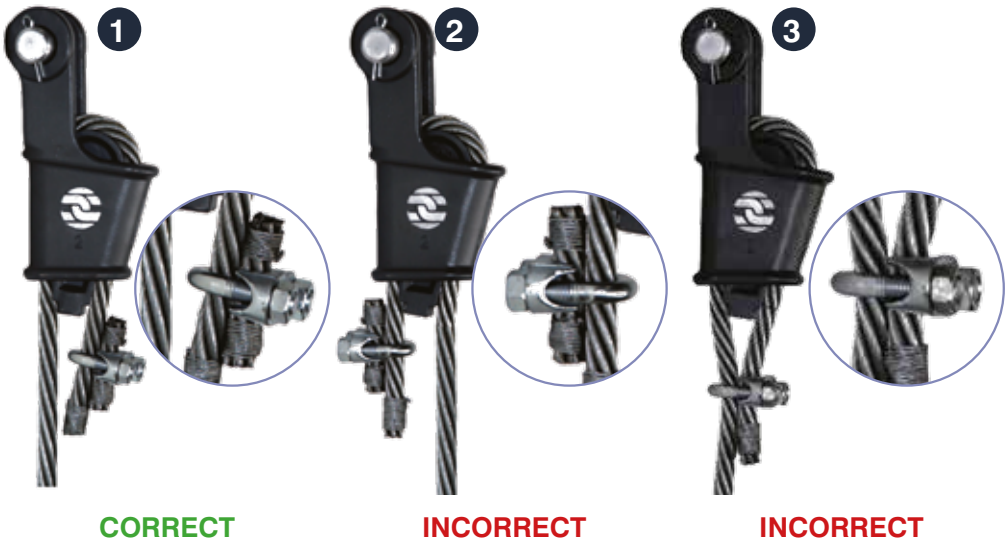
Always mount the loaded wire rope in the centre line of the pin (see figure 1).

The length of the dead end should have a minimum of 6 wire rope diameters but also a minimum of 150 mm.

Secure the dead end with a wire rope clip. Do not attach it to the loaded wire rope (see figure 3).

After the first load, check that the wire rope and wedge are fully seated in the socket, as the load may slip if the wedge socket is not properly installed.

The socket has to be fixed against rotation.

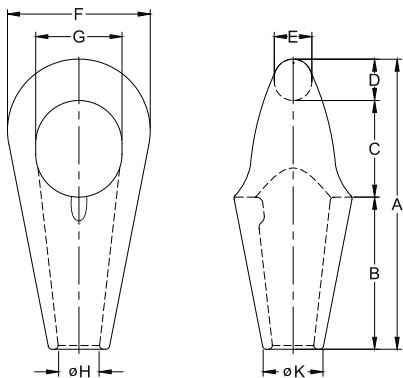


Aqualine Sockets

XNSAPS5

Anchor Pendant Socket

- Available for wire rope sizes from \varnothing 37 mm to \varnothing 115 mm with an efficiency rating of 100%.
- The perfect socket for anchor lines.



Part Code	MBL (Mtons)	For wire \varnothing (mm)	Approx. resin volume (cc)	Dimensions (mm)								Weight (kg)	
				A	B	C	D	E	F	G	\varnothing H		\varnothing K
XNSAPS517	160	37-42	500	309	162	103	44	40	152	92	46	67	11
XNSAPS519	200	43-48	700	369	193	123	53	48	176	110	53	74	16
XNSAPS522	250	49-54	1250	408	210	140	58	52	200	125	58.5	83	22
XNSAPS524	320	55-60	1425	452	230	157	65	58	226	140	68	96	31
XNSAPS526	400	61-68	1850	499	250	174	75	66	250	156	76	107	42
XNSAPS527	500	69-75	2300	551	280	191	80	70	275	171	80	115	54
XNSAPS528	600	76-80	3400	591	309	196	86	76	290	180	89	125	70
XNSAPS529	700	81-86	4100	643	332	211	100	90	304	188	94	133	85
XNSAPS530	800	87-93	5200	685	360	220	105	95	332	210	99	142	118
XNSAPS531	900	94-102	7700	722	375	235	112	101	366	220	110	157	142
XNSAPS533	1000	108-115	10500	818	420	270	126	112	405	240	128	180	180

MBL = Minimum Breaking Load.

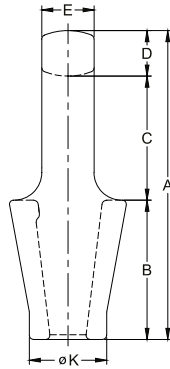
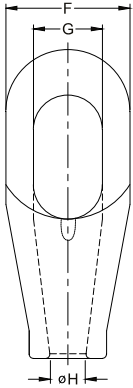
Our standard sockets are delivered in dark grey coating (RAL 7024). Hot dipped galvanized is also available. All sockets can be provided with Declaration of compliance according EN 10204-2.1. Material certificate according EN 10204-3.1 and EC Declaration according machine directive 98/37/EC.

Aqualine Sockets

XNSCSS2

Closed Spelter Sockets

- Available for wire rope sizes from \varnothing 6 mm to \varnothing 115 mm with an efficiency rating of 100%.



Approx.
resin
volume
(cc)

Dimensions (mm)

Part Code	MBL (Mtons)	For wire \varnothing (mm)	Approx. resin volume (cc)	A	B	C	D	E	F	G	\varnothing H	\varnothing K	Weight (kg)
XNSCSS296	8	6-7	10	102	46	45	11	14	38	22	10	20	0.3
XNSCSS297	12	8-10	20	120	54	52	14	17.5	44	24	13.5	26	0.5
XNSCSS298	20	11-13	35	140	64	59	17	23	53	30	15	30	0.7
XNSCSS299	25	14-16	50	162	76	65	21	26	67	36	18.5	38.5	1.3
XNSCSS200	40	18-19	80	194	89	78	27	32	77	42	22.5	46	2.1
XNSCSS201	55	20-22	125	224	101	90	33	38	92	50	26.8	55	3.6
XNSCSS204	80	23-26	160	253	114	103	36	45	101	57	29.5	62	5.1
XNSCSS207	100	27-30	210	282	127	116	39	51	114	65	35	70	7
XNSCSS212	130	31-36	350	312	139	130	43	57	127	71	40	83	10.4
XNSCSS215	160	37-39	425	358	152	155	51	63	140	80	44.5	90	15
XNSCSS217	200	40-42	500	390	135	171	54	70	148	84	48	97	18.5
XNSCSS219	250	43-48	700	443	190	198	55	76	171	95	53	112	27.5
XNSCSS222	300	49-54	1250	502	216	224	62	82	193	111	58.5	125	39.5
XNSCSS224	375	55-60	1425	550	229	248	73	92	219	125	68.5	135	51
XNSCSS226	450	61-68	1850	597	248	270	79	102	241	140	77.5	150	67
XNSCSS227	500	69-75	2300	644	279	286	79	124	273	159	83	160	96
XNSCSS228	600	76-80	3400	689	305	298	86	133	292	171	89	170	118
XNSCSS229	650	81-86	4100	736	330	311	95	146	311	184	95	180	142
XNSCSS230	750	87-93	5200	788	356	330	102	159	330	197	99	200	175
XNSCSS231	900	94-102	7700	845	381	356	108	178	362	216	110	215	230
XNSCSS233	1200	108-115	10500	965	440	400	125	190	405	235	128	250	315

MBL = Minimum Breaking Load.

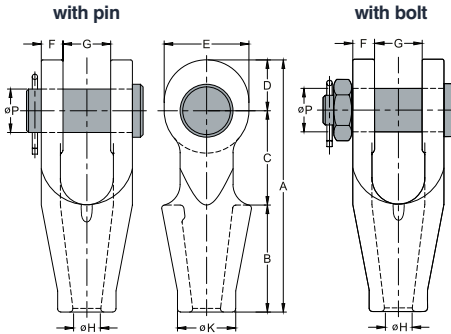
Our standard sockets are delivered in dark grey coating (RAL 7024). Hot dipped galvanized is also available. All sockets can be provided with Declaration of compliance according EN 10204-2.1. Material certificate according EN 10204-3.1 and EC Declaration according machine directive 98/37/EC.

Aqualine Sockets

XNSOSS1

Open Spelter Sockets

- Available for wire rope sizes from \varnothing 6 mm to \varnothing 115 mm with an efficiency rating of 100%. Standard version with pin and cotter pin.
- Also available with bolt, nut and cotter pin.



Part Code Pin Type	MBL (Mtons)	For wire \varnothing (mm)	Approx. resin volume (cc)	Dimensions (mm)										Weight (kg)	Part Code Bolt Type
				A	B	C	D	E	F	G	\varnothing H	\varnothing K	\varnothing P		
XNSOSS196	8	6-7	10	105	46	40	19	34	9	18	10	20	17.5	0.4	XNSOSS196B
XNSOSS197	12	8-10	20	122	54	45	23	40	11.2	20.6	13.5	26	20.6	0.8	XNSOSS197B
XNSOSS198	20	11-13	35	142	64	51	27	48	12.7	25.6	15	30	25.4	1.1	XNSOSS198B
XNSOSS199	25	14-16	50	171	76	63	32	56	14.5	30	18.5	38.5	30	1.9	XNSOSS199B
XNSOSS100	40	18-19	80	205	89	76	40	68	16.5	38	22.5	46	35	3.2	XNSOSS100B
XNSOSS104	55	20-22	125	238	101	89	48	80	20.5	45	26.8	55	41	5.3	XNSOSS104B
XNSOSS108	80	23-26	160	273	114	101	58	98	22.5	51	29.5	62	51	8.4	XNSOSS108B
XNSOSS111	100	27-30	210	306	127	114	65	110	25	57	34	70	57	11.3	XNSOSS111B
XNSOSS115	130	31-36	350	338	139	127	72	124	28	63	40	83	63	16	XNSOSS115B
XNSOSS118	160	37-39	425	394	152	162	80	140	30	76	44.5	90	70	23	XNSOSS118B
XNSOSS120	200	40-42	500	415	165	165	85	148	33.5	76	48	97	76	29	XNSOSS120B
XNSOSS125	250	43-48	700	467	191	178	98	170	39	89	53	112	89	43	XNSOSS125B
XNSOSS128	300	49-54	1250	552	216	228	108	186	46	101	58.5	125	95	64	XNSOSS128B
XNSOSS130	375	55-60	1425	603	229	254	120	210	53	113	68.5	135	108	85	XNSOSS130B
XNSOSS132	450	61-68	1850	654	248	273	133	230	60	127	77.5	150	121	119	XNSOSS132B
XNSOSS135	500	69-75	2300	696	279	279	138	240	73	133	83	160	127	158	XNSOSS135B
XNSOSS138	600	76-80	3400	736	305	286	145	250	76	146	89	170	133	186	XNSOSS138B
XNSOSS140	650	81-86	4100	790	330	300	160	275	79	159	95	180	140	227	XNSOSS140B
XNSOSS142	750	87-93	5200	849	356	318	175	300	82	172	99	200	152	280	XNSOSS142B
XNSOSS144	900	94-102	7700	922	381	343	198	336	89	191	110	215	178	375	XNSOSS144B
XNSOSS146	1200	108-115	10500	1110	440	450	220	370	100	205	205	250	195	525	XNSOSS146B

MBL = Minimum Breaking Load.

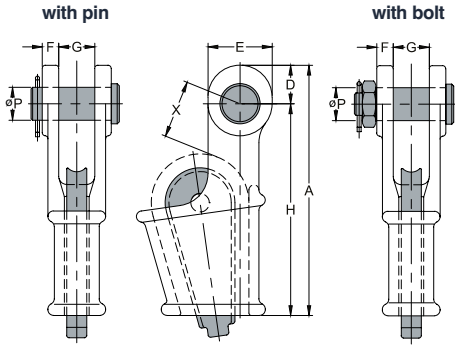
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Aqualine Sockets

XNSOWS

Open Wedge Sockets

- Available in sizes from Ø 7 mm to Ø 86 mm with an efficiency rating of 80%. Standard version with pin and cotter pin.
- Also available with bolt, nut and cotter pin.



Part Code Pin Type	MBL (Mtons)	For wire Ø (mm)	Dimensions (mm)								Weight (kg)	Part Code Bolt Type
			A	D	E	F	G	H	ØP	X		
XNSOWS0025	8	7-8	130	20	34	9	18	110	17.5	40	0.7	XNSOWS0025B
XNSOWS005	12	9-10	150	23	40	11	20.5	125	20.6	45	1.2	XNSOWS005B
XNSOWS01	20	11-13	183	27	48	12.7	25.6	156	25.4	60	2.3	XNSOWS01B
XNSOWS02	25	14-16	224	32	56	14.5	32	192	30	65	3.6	XNSOWS02B
XNSOWS03	40	17-19	272	40	68	16.5	38	232	35	70	6.3	XNSOWS03B
XNSOWS04	55	20-22	312	48	80	20.5	45	264	41	80	10.3	XNSOWS04B
XNSOWS05	80	23-26	370	58	100	22.5	51	312	51	90	16	XNSOWS05B
XNSOWS06	100	27-29	413	65	110	25	57	348	57	100	21.5	XNSOWS06B
XNSOWS07	120	30-32	455	72	124	28	63	384	63	110	30	XNSOWS07B
XNSOWS08	130	34-36	508	76	132	28	70	432	63	125	36	XNSOWS08B
XNSOWS09	160	37-39	548	80	140	30	76	468	70	140	50	XNSOWS09B
XNSOWS10	200	40-42	589	85	150	33	76	504	76	155	60	XNSOWS10B
XNSOWS11	250	43-48	674	98	170	39	89	576	89	175	90	XNSOWS11B
XNSOWS12	300	49-52	733	108	186	46	101	625	95	195	125	XNSOWS12B
XNSOWS13	375	54-58	816	120	210	53	113	696	108	220	175	XNSOWS13B
XNSOWS14	450	60-68	950	133	230	60	127	817	121	250	250	XNSOWS14B
XNSOWS15	600	72-76	1057	145	250	76	146	912	133	280	400	XNSOWS15B
XNSOWS16	650	81-86	1160	160	275	79	159	1000	140	330	525	XNSOWS16B

HDG

Painted

MBL = Minimum Breaking Load.

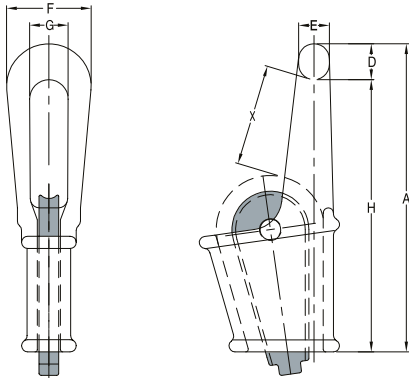
Our standard sockets are delivered in dark grey coating (RAL 7024). Hot dipped galvanized is also available. All sockets can be provided with Declaration of compliance according EN 10204-2.1. Material certificate according EN 10204-3.1 and EC Declaration according machine directive 98/37/EC.

Aqualine Sockets

XNSCWS3

Closed Wedge Sockets

- Available in sizes from Ø 17 mm to Ø 86 mm with an efficiency rating of 80%.



Dimensions (mm)

Part Code	MBL (Mtons)	For wire Ø (mm)	A	D	E	F	G	H	X	Weight (kg)
XNSCWS303	40	17-19	317	40	36	100	42	277	100	7
XNSCWS304	55	20-22	368	45	40	115	50	323	110	9
XNSCWS305	80	23-26	422	52	45	130	60	370	125	14
XNSCWS306	100	27-29	473	58	50	150	65	415	140	22
XNSCWS307	120	30-32	519	62	55	160	72	457	160	30
XNSCWS308	130	34-36	580	66	60	168	76	514	175	38
XNSCWS309	160	37-39	620	72	66	175	82	548	290	49
XNSCWS310	200	40-42	665	80	72	195	90	585	210	65
XNSCWS311	250	43-48	750	90	80	220	100	660	240	110
XNSCWS312	300	49-52	820	100	90	242	110	720	260	140
XNSCWS313	375	54-58	890	106	95	255	120	784	280	170
XNSCWS314	450	60-68	1045	120	105	280	130	925	330	240
XNSCWS315	600	72-76	1200	140	120	330	150	1060	400	380
XNSCWS316	650	81-86	1340	155	130	375	170	1185	475	450

MBL = Minimum Breaking Load.

Our standard sockets are delivered in dark grey coating (RAL 7024). Hot dipped galvanized is also available. All sockets can be provided with Declaration of compliance according EN 10204-2.1. Material certificate according EN 10204-3.1 and EC Declaration according machine directive 98/37/EC.

DUKE™

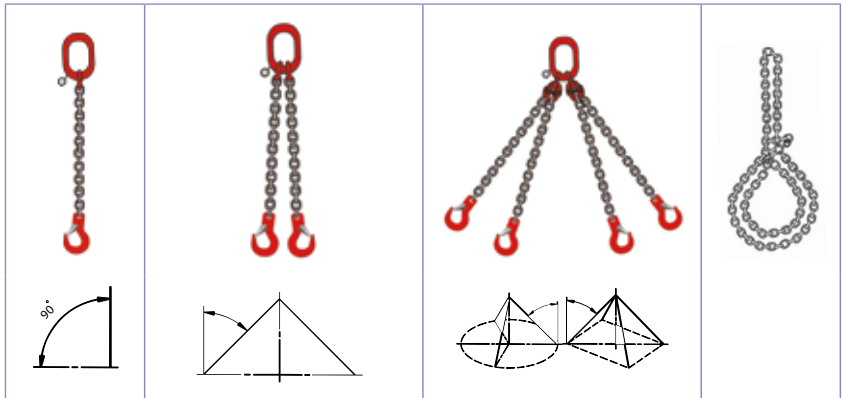
Grade 8:
Chain & Components
Load Binders
Web Components
Lifting Points



Grade 8

Standard Uniform Load Method of Rating
for Grade 8 Chain Slings EN 818-4

Loads shown in Tonnes



Chain Size (mm)	Single Leg Chain Slings	2 Leg Chain Slings		3 & 4 Leg Chain Slings		Endless Choke Slings
		0-45° Safety Factor 1.4	45-60° Safety Factor 1.0	0-45° Safety Factor 2.1	45-60° Safety Factor 1.5	
6	1.12	1.6	1.12	2.36	1.7	1.8
7	1.5	2.12	1.5	3.15	2.24	2.5
8	2	2.8	2	4.25	3	3.15
10	3.15	4.25	3.15	6.7	4.75	5
13	5.3	7.5	5.3	11.2	8	8.5
16	8	11.2	8	17	11.8	12.5
19	11.2	16	11.2	23.6	17	18
20	12.5	17	12.5	26.5	19	20
22	15	21.2	15	31.5	22.4	23.6
26	21.2	30	21.2	45	31.5	33.5
32	31.5	45	31.5	67	47.5	50

Operating Temperature

-40°C to 200°C	None
Over 200°C to 300°C	10%
Over 300°C to 400°C	25%
Over 400°C	DO NOT USE

Reduction in Load Limit

Grade 8

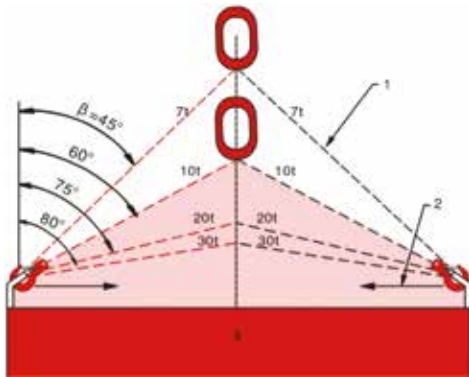
Chain Sling User Instructions

Technical Terms and Conditions

We reserve the right to make changes without prior notice to the products within this catalogue. Errors & omissions excepted. E&O.E.

XONA chain slings should only be repaired by qualified personnel. Records of the inspections and repairs must be kept on file for the entire service life of the chain sling. XONA chain slings should be stored in dry conditions and protected from corrosion (preferably oiled).

Chain Slings are covered by LOLER, and are classified as a "lifting accessory". The Sling must be examined by a competent person at six monthly intervals and inspected before first use and on return to storage.

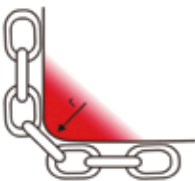


Correct use of the Chain Slings

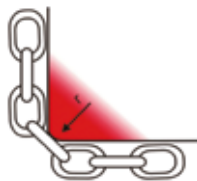
1. Loading of leg.
2. Horizontal component of force.
3. Load 10t.

Avoid angles from the vertical under 15°. Chain Slings should never be used with an angle from the vertical exceeding 60°. (See shaded area in the diagram to the left).

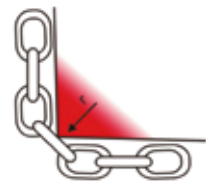
Edge Loading:



$r = \text{more than } 2 \times \text{chain diameter}$
Load factor 1



$r = \text{more than chain diameter}$
Load factor 0.7



$r = \text{chain diameter and less}$
Load factor 0.5
NOT PERMISSABLE WITHOUT CORNER PROTECTION

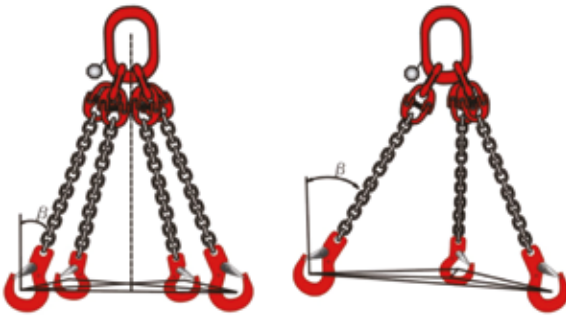
If XONA chains are guided over edges, suitable packing should be provided to protect the chain. Before Lifting, the chain should be twist/knot free.

Grade 8

Chain Sling User Instructions

Technical Terms and Conditions continued...

The load capacities of XONA chain slings are defined with the assumption that the load of the individual chain legs is distributed symmetrically. The load can be considered symmetrical when all the following conditions are met:



- The angle from the vertical of all chain legs is not less than 15°.
- The angle from the vertical of all chain legs are equal or deviate by Max. 15° from each other.
- In the case of 3 and 4 leg chain slings, the corresponding angles in the sling level deviate by Max. 15° from each other.
- The load is smaller than 80% of the indicated working load limit.

If the above parameters are not met, then the load must be considered asymmetrical and an expert called to evaluate the lifting process. In case of doubt the load capacity must be reduced to that of a single-leg chain sling.

General

XONA Chain Slings comply with EN818-4. Only trained personnel who have read and understood the instructions can use the chains. XONA Chain Slings and components should not be altered e.g. twisting, grinding, removing of parts and drilling.

The surface of the chains and accessories should not be subjected to acids or caustic solutions. Strong alkali's will result in hydrogen embrittlement. If necessary please contact our technical department.

Operating Temperature	Reduction in Load Limit
-40°C to 200°C	None
Over 200°C to 300°C	10%
Over 300°C to 400°C	25%
Over 400°C	DO NOT USE

Only use XONA chains and accessories up to the indicated temperature. Should the temperature be exceeded, the reduction of the load capacity must be taken into consideration (please see diagram above). Do not use XONA Chain Slings in acids, alkalines, chemicals or expose them to their fumes.

Grade 8

Chain Sling User Instructions

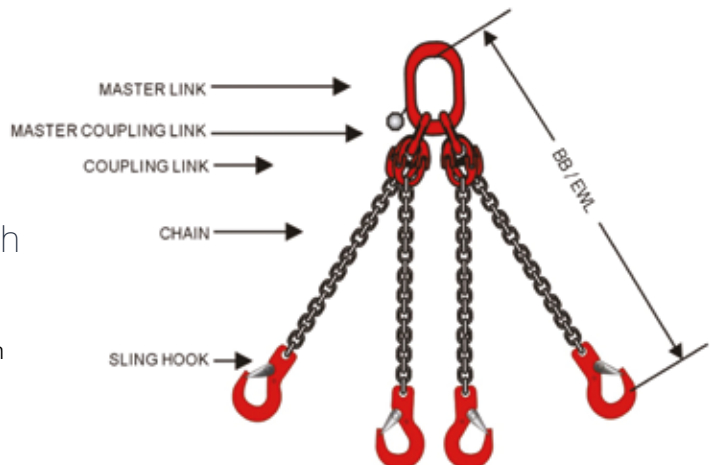
Inspection & Maintenance

Before using any lifting equipment for the first time please check the following:

- The test certificate & certificates of conformity have been supplied.
 - The correct identification markings correspond with the certificates supplied.
 - If required, all data regarding the Chain Sling to be entered into a register for lifting equipment.
 - Check the chains for visible damage or signs of wear such as illegible markings; distortion of fittings; worn, stretched, bent or twisted links; ineffective safety catches; cuts, nicks, gouges, cracks, corrosion, heat discolouration or any other defect apparent to the chain or fittings. In case of damage or uncertainty; do not use.
 - Chains should be thoroughly examined a minimum of every 6 months by a competent person as per LOLER regulations.
- Should any of the following apply, the chain must be taken out of use and passed on to a competent person:
 - Broken link.
 - Missing working load tag on the Chain Sling or illegible marking on the tag.
 - Elongation of the chain.
 - Chain wear is determined as the mean value of two measurements of diameters W1 and W2 (see chain diagram) carried out at a right angle. The chain must be discarded.
 - Cuts, notches, grooves, surface cracks, excessive corrosion, discolouration due to heat, signs of additional welding, twisted links or other faults.
 - The sling components should be replaced if deformed by 3% of the original dimension.

Chain Sling Length

The distance between the upper and lower bearing points. Or leg length which would include sub link.



Grade 8

Chain Sling User Instructions

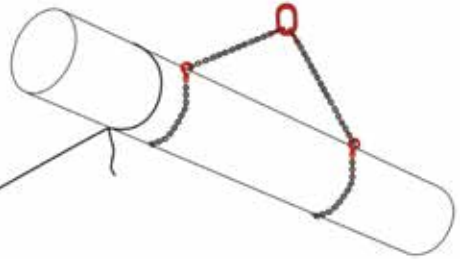
Balancing of the Load

Ensure the crane hook is vertically above the load's centre of gravity.



Controlling of the Load

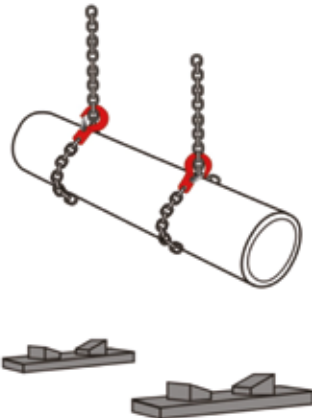
To control the movement of the load while lifting a tag line must be attached.



Landing of the Load

Make adequate preparation of the site where the load is to be landed.

DO NOT land the load directly onto the chain.



Storing Slings

Keep Chain Slings stored correctly when not in use to avoid damage.



Grade 8

Chain Sling User Instructions

Special Applications:

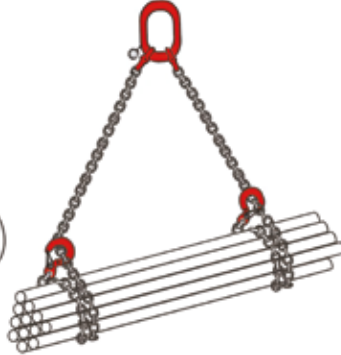
Choke Hitch



Basket Hitch



2 Leg Double Choke Hitch



Basket Hitch



Single Leg Sling



Double Leg Sling



Multiple Leg Sling



Endless Choke Sling

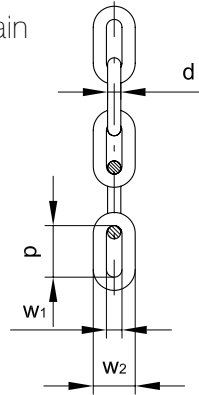


Grade 8 Chain & Components

XNG08

Grade 8 European Super Alloy Lifting Chain

- EN818-2.
- Safety Factor 4:1



Part Code	Size d (mm)	Weight (kg/m)	WLL (T)	Test Load (kN)	Tensile Load (kN)	W1 Min (mm)	W2 Max (mm)	Pitch (mm)
XNG08004	4	0.35	0.5	12.6	20.1	5.2	14.8	12
XNG08005	5	0.55	0.8	19.6	31.4	6.5	18.5	15
XNG08006	6	0.8	1.12	28.3	45.2	7.8	22.2	18
XNG08007	7	1.1	1.5	38.5	61.6	9.1	25.9	21
XNG08008	8	1.4	2	50.3	80.4	10.4	29.6	24
XNG08010	10	2.2	3.15	78.5	126	13	37	30
XNG08013	13	3.8	5.3	133	212	16.9	48.1	39
XNG08016	16	5.7	8	201	322	20.8	59.2	48
XNG08018	18	7.3	10	254	407	23.4	66.6	54
XNG08019	19	8.1	11.2	284	454	24.7	70.3	57
XNG08020	20	9	12.5	314	503	26	74	60
XNG08022	22	10.9	15	380	608	28.6	81.4	66
XNG08026	26	15.2	21.2	531	849	33.8	96.2	78
XNG08028	28	17.6	25	616	985	36.4	104	84
XNG08032	32	23	31.5	804	1290	41.6	118	96
XNG08036	36	29	40	1020	1630	46.8	133	108

XNCTAGG08

Grade 8 Single and Multi Leg Chain Tag

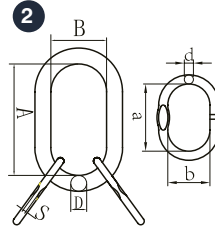
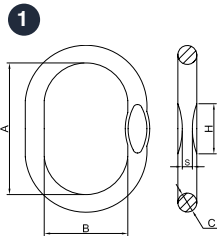


XNWF4TAG

Wire & Ali Ferrule Loop for Tags



Grade 8 Components



1. XN033 Master Link

Part Code	Size (mm)	For 1 Leg	For 2 Leg	Weight (kg)	WLL (T)	A	B	C	SxH
XN033-07/6	7/6	7	6	0.34	1.6	110	60	13	7x25
XN033-08/7	8/7	8	7	0.54	2.12	110	60	16	7x25
XN033-10/8	10/8	10	8	0.82	3.15	135	75	18	8x28
XN033-13/10	13/10	13	10	1.5	5.3	160	90	22	11x35
XN033-16/13	16/13	16	13	2.3	8	180	100	26	13x43
XN033-18/16	18/16	18	16	3.95	11.2	200	110	32	17x55
XN033-20/18	20/18	20	18	6.34	14	260	140	36	19x60
XN033-22/20	22/20	22	20	8.96	17	300	160	40	20x64
XN033-26/22	26/22	26	22	12.8	21.2	340	180	45	
XN033-32/26	32/26	32	26	16.55	31.5	350	190	50	
XN033-36/32	36/32	36	32	23.28	45	400	200	56	
XN033-40/36	40/36	40	36	32	56	430	220	63	
XN033-72	72mm	45	40	45.76	63	460	250	72	
XN033-80	80mm	-	45	62	85.46	500	270	80	

- EN1677-4.
- Suitable for 1 or 2 leg Grade 8 chain sling as per EN818-4.
- XN033-07/6 to XN033-22/20 complete with flat part.
- Safety Factor 4:1

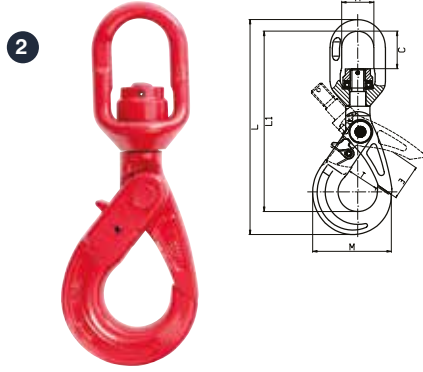
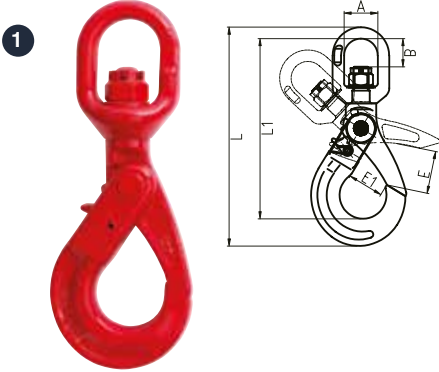
2. XN032 Master Link Assembly

Part Code	Size (mm)	For 3 or 4 Leg	Weight (kg)	WLL (T)	A	B	D	a	b	d	S
XN032-06	6	6	1.18	2.36	135	75	18	54	25	13	7
XN032-07	7	7	1.24	3.15	135	75	18	60	38	13	7
XN032-08	8	8	2.2	4.25	160	90	22	70	34	16	8
XN032-10	10	10	3.4	6.7	180	100	26	85	40	18	11
XN032-13	13	13	6.1	11.2	200	110	32	115	50	22	13
XN032-16	16	16	9.98	17	260	140	36	140	65	26	17
XN032-18	18	18	18.9	21.2	340	180	45	180	100	32	18
XN032-20	20	20	22.6	26.5	350	190	50	180	100	32	20
XN032-22	22	22	25.2	31.5	350	190	50	180	100	36	
XN032-26	26	26	35.2	45	400	200	56	180	100	40	
XN032-28	28	28	47	50	430	220	63	180	100	45	
XN032-32	32	32	66.46	63	460	250	72	200	110	50	

- EN1677-4.
- Suitable for 3 or 4 leg Grade 8 chain sling as per EN818-4.
- XN032-06 to XN032-20 complete with flat part.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflux Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

Grade 8 Components



1. XN755

Swivel Self Locking Hook / Brass Bushing

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	E1	L1	L
XN755-06	6	0.71	1.12	32.5	24	30	28	152.5	184
XN755-07/8	7/8	1.15	2	36	29.5	28.9	35.8	189	228
XN755-10	10	1.86	3.15	42	35	48	48	224	270
XN755-13	13	3.51	5.3	50	41	54	52.5	267	324
XN755-16	16	7.33	8	61	56.8	47.5	63.3	355.6	406
XN755-20	18/20	10.3	12.5	72	63	52	86	378	460
XN755-22	22	17.5	15	97	98	60	76	466	564
XN755-26	26	23	21.2	123	115	97.3	96	544	661
XN755-32	32	81	31.5	140	146	99	135	679	829

- EN1677-3.
- Safety Factor 4:1

2. XN042

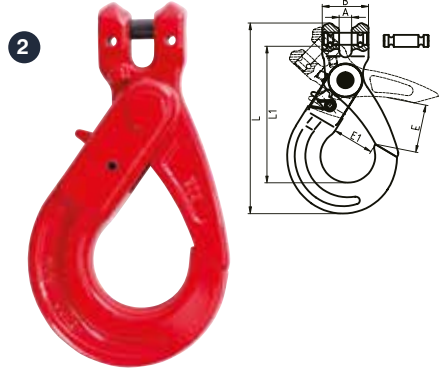
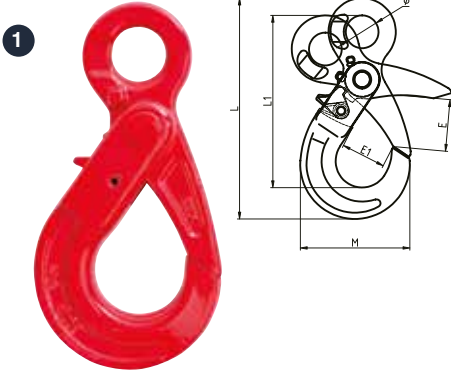
Swivel Self Locking Hook / Roller Bearing

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	C	L1	L	T	E	M
XN042-06	6	0.71	1.12	32.5	33.8	160	194	28	32	70
XN042-07/8	7/8	1.1	2	36	40	202	240	35	39	88
XN042-10	10	2.0	3.15	42	48	237	283	45	48	108
XN042-13	13	4.0	5.3	50	58	282	343	52.5	65	134
XN042-16	16	7.3	8	61	60	341.5	419	63.3	65	168.6
XN042-20	18/20	11.6	12.5	76	75.5	399.5	483	86	85	186.2
XN042-22	22	16.0	15	97	97	466	564	76	80	202
XN042-26	26	21.5	21.2	123	115	544	661	96	125	244

- EN1677-3.
- Rotates under load.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflux Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

Grade 8 Components



1. XN737 Eye Self Locking Hook

Part Code	Size (mm)	Weight (kg)	WLL (T)	Ø	E	E1	L1	L	M
XN737-06	6	0.5	1.12	21	30	28	110	141	70.5
XN737-07/8	7/8	0.88	2	25	30.4	35	136	175	88
XN737-10	10	1.58	3.15	34.5	48	45	168	214	108
XN737-13	13	3.0	5.3	40	54	52.5	207	268	136
XN737-16	16	5.9	8	50	47	63.3	254	332	168.6
XN737-20	18/20	7.0	12.5	64.5	54	86	274.5	332	186.2
XN737-22	22	12.3	15	70	59.4	76	319	415	202
XN737-26	26	20	21.2	80	101	96	362	472	244
XN737-32	32	43	31.5	105	101	133	470	614	329.5

- EN1677-3.
- Safety Factor 4:1

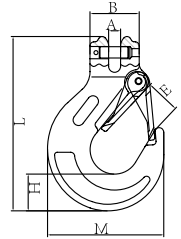
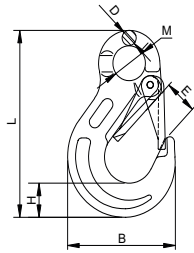
2. XN739 Clevis Self Locking Hook

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	E1	L1	L
XN739-06	6	0.44	1.12	8	32	32	28	99	134
XN739-07/8	7/8	0.8	2	9.5	38.5	39	35.8	119.3	161.8
XN739-10	10	1.38	3.15	12.5	46	48	45	142	195
XN739-13	13	2.81	5.3	15	59	65	52.5	179	249
XN739-16	16	6	8	18.5	77	65	63.3	224.8	310
XN739-20	18/20	7.25	12.5	24	77	85	86	238	335
XN739-22	22	12.8	15	25	97.6	80	76	277	392
XN739-26	26	21.8	21.2	30	118	97.5	96	312	449
XN739-32	32	49.6	31.5	35	150	99	135	416	589.6

- EN1677-3.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Super Alloy Steel
- Proof Tested - 2.5 times Working Load Limit
- All Load Pins are 100% individually inspected and tested
- 100% Magnaflux Crack Detected

Grade 8 Components



1. XN334

Eye Sling Hook with Latch

Part Code	Size (mm)	Weight (kg)	WLL (T)	M	D	E	H	B	L
XN334-06	06	0.3	1.12	20.5	9	18.5	20	68	109
XN334-07/8	7/8	0.48	2	25	11	22	27	84	133.5
XN334-10	10	1.05	3.15	34	14	28	33	102.5	167.5
XN334-13	13	1.75	5.3	42.5	17.5	35	40	128.5	207.5
XN334-16	16	3.2	8	52	22	43	48	156.5	253
XN334-20	18/20	5.3	12.5	62	26	51.5	56	187	300

- EN1677-2.
- Safety Factor 4:1

2. XN333

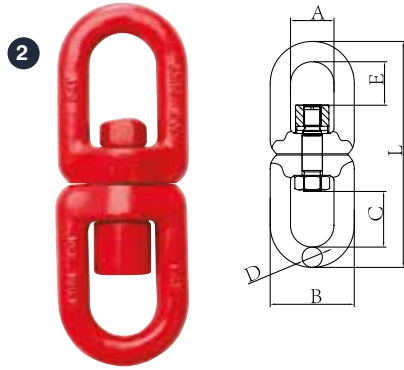
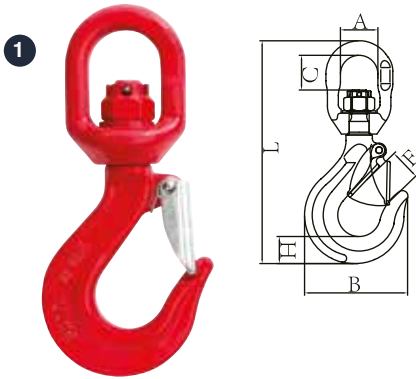
Clevis Sling Hook with Latch

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	H	M	L
XN333-06	06	0.3	1.12	7.5	32	19.5	20	68	108
XN333-07/8	7/8	0.55	2.0	9.5	38.5	24	25	85.5	129.5
XN333-10	10	0.96	3.15	13	48	28	36	106	163.5
XN333-13	13	1.52	5.3	16.5	55	34.5	41.6	130	196
XN333-16	16	3.43	8	18.5	65.5	43	46.2	155.5	236
XN333-20	18/20	6.73	12.5	24	92	51.5	51	180	281

- EN1677-2.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Super Alloy Steel
- Proof Tested - 2.5 times Working Load Limit
- All Load Pins are 100% individually inspected and tested
- 100% Magnaflux Crack Detected

Grade 8 Components



1. XN268 Swivel Hook with Latch/Brass Bushing

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	H	C	L
XN268-07/8	7/8	0.85	2.0	36	88.5	27	23.5	26	190
XN268-10	10	1.54	3.15	42	104.5	32	29.5	34	233
XN268-13	13	3.04	5.3	49	135	40	38	41	291.5
XN268-16	16	5.36	8	61	161	45	45.4	53	352

- EN1677-2.
- Safety Factor 4:1

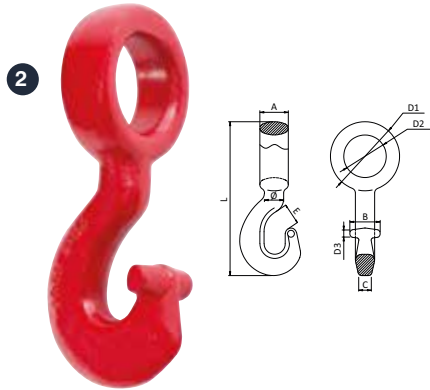
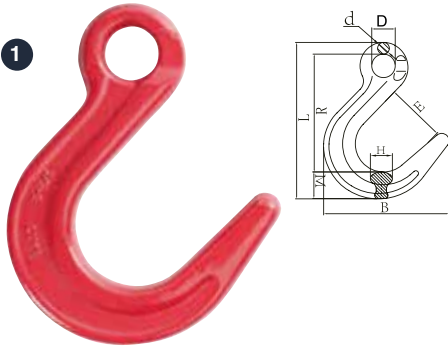
2. XN283 Swivel with Roller Bearing

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	C	D	L
XN283-10	10	1.85	3.15	38	76	34.5	51	19	209
XN283-13	13	5.5	5.3	60	116	60	77	28	312

- Rotates under load.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflux Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

Grade 8 Components



1. XN116

Eye Foundry Hook with Flat

Part Code	Size (mm)	Weight (kg)	WLL (T)	D	L	B	R	E	d	H	M
XN116-07/8	7/8	0.72	2	24	158.5	130	120.5	62	12	19	26
XN116-10	10	1.25	3.2	31.5	199	152.5	153.2	73	15	25	31
XN116-13	13	2.32	5.3	44	241.5	186	184	90	19	33	38.5
XN116-16	16	3.45	8	49	279	218	216	105	22	37	42
XN116-20	18/20	6.42	12.5	60	330	252	247	114	26	46	57

- Safety Factor 4:1

2. XN026

Twist Eye Choker Hook

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	C	Ø	D1	D2	D3	E	L
XN026-07/8	7/8	0.36	2	19	28	6.5	17	52	30.5	7.5	16	123
XN026-10	10	0.72	3.2	26	40	17.5	20	68	39	8	20	157
XN026-13	13	1.4	5.4	34	43	21	25	85	52	9.5	27	195
XN026-16	16	3.17	8.2	51	45.5	31	30	108	64	10.5	30	246
XN026-18	18	3.8	10	49.5	53	22	33.5	121	75	12	37	268
XN026-20/22	20/22	8.95	15.3	70	80	14	52	146	84	14	47	367

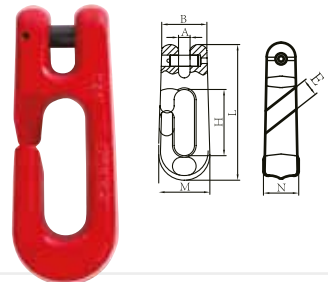
- EN1677-1.
- Safety Factor 4:1

XN389

Clevis Choker Hook

- EN1677-1.
- Safety Factor 4:1

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	H	M	N	E	L
XN389-08	8	0.68	2	10.5	41	60	46.5	32	16	123

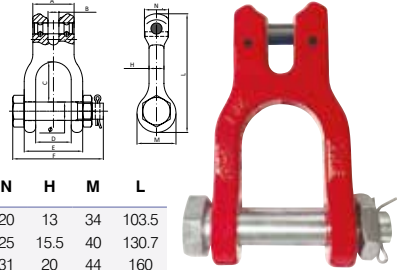


- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflex Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

Grade 8 Components

XN869 Clevis Chain Shackle

- EN1677-1. • Safety Factor 4:1

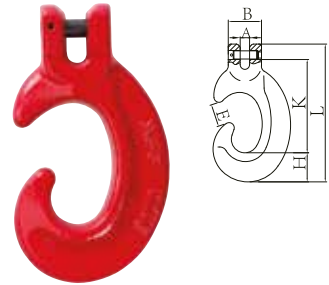


Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	C	D	E	F	G	N	H	M	L
XN869-07/8	7/8	0.4	2	36	9	35	31	51	79	16	20	13	34	103.5
XN869-10	10	0.8	3.15	46.5	12	48	34	62	95	20	25	15.5	40	130.7
XN869-13	13	1.4	5.3	59	14	64	49	83	118	22	31	20	44	160
XN869-16	16	2.5	8	70	19	69.5	58	95	140	28.5	40	23	55	190

XN024 Clevis C Hook

- EN1677-2. • Safety Factor 4:1

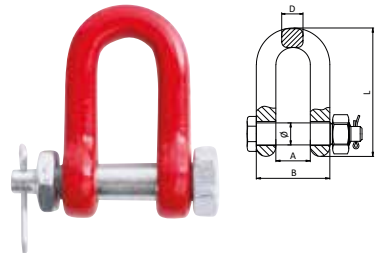
Part Code	Size (mm)	Weight (kg)	WLL (T)	A	E	B	H	K	L
XN024-07/8	7/8	0.57	2	9.5	20	35	28	90	136
XN024-10	10	1.4	3.15	13	29.5	46	39.5	127	189
XN024-13	13	3.0	5.3	16.8	39.5	59	52	166.5	246
XN024-16	16	5.42	8	18.5	46.5	72	59	206	298



XN049 Grade 8 Bolt Type Chain 'D' Shackle

- Safety Factor 4:1

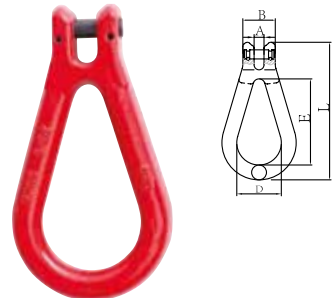
Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	D	ø	L
XN049-07/8	7/8	0.14	2	15	33	9	10	56
XN049-10	10	0.274	3.15	21	44	11.5	12	71
XN049-13	13	0.5	5.3	25	54	14.5	16	91
XN049-16	16	0.89	8	30	65	17.5	20	110



XN270 Clevis Reeving Link

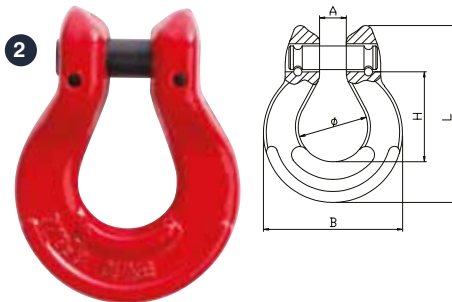
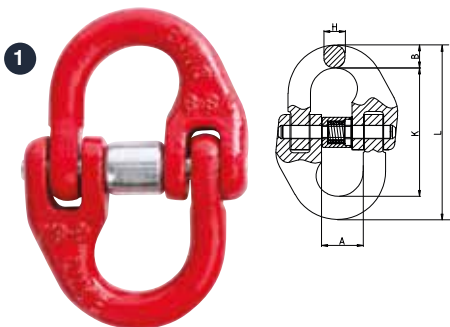
- EN1677-1. • Safety Factor 4:1

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	D	E	L
XN270-07/8	7/8	0.53	2	10	32.8	45	87	139
XN270-10	10	0.74	3.15	12	42	60	108	174
XN270-13	13	1.76	5.3	16.5	55.5	66.5	137.5	228
XN270-16	16	2.8	8	19	68	72	165	264



- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Super Alloy Steel
- Proof Tested - 2.5 times Working Load Limit
- All Load Pins are 100% individually inspected and tested
- 100% Magnaflux Crack Detected

Grade 8 Components



1. XN074 Connecting Link

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	L	K	H
XN074-06	06	0.08	1.12	15	7.5	58	42	7
XN074-07/8	7/8	0.145	2	18	9.5	79.5	60.5	8.5
XN074-10	10	0.30	3.15	25	12	90.5	68	11.5
XN074-13	13	0.7	5.3	29	15	117	87	15
XN074-16	16	1.3	8	34.5	19.8	148	108.4	19.8
XN074-20	18/20	2.1	12.5	41	24	169.5	121.5	24
XN074-22	22	3.2	15	48	26	193.5	141.5	26
XN074-26	26	4.5	21.2	57.5	31	220	158	30
XN074-32	32	9	31.5	67	38	281	205	37

- EN1677-1.
- Safety Factor 4:1

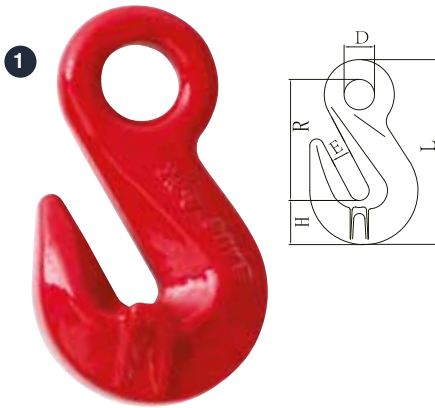
2. XN002 Omega Link

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	Ø	H	L
XN002-06	06	0.12	1.12	8	41	20.5	25	52
XN002-07/8	7/8	0.22	2.0	10	52	23.5	35	68.5
XN002-10	10	0.36	3.15	12	62	31.5	40.5	81
XN002-13	13	0.71	5.3	15	81	41	54	108
XN002-16	16	1.3	8	19	99	49.5	64	126
XN002-20	18/20	2.2	12.5	23	118	58	75.6	152

- EN1677-1.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Proof Tested - 2.5 times Working Load Limit
- 100% Magnaflux Crack Detected
- Super Alloy Steel
- All Load Pins are 100% individually inspected and tested

Grade 8 Components



1. XN085 Eye Shortening Grab Hook

Part Code	Size (mm)	Weight (kg)	WLL (T)	E	D	H	R	L
XN085-06	6	0.21	1.12	8	14.5	18	46.8	73
XN085-07/8	7/8	0.35	2	10.8	18	21.5	52.5	93
XN085-10	10	0.65	3.15	13	20.5	29	79.8	122
XN085-13	13	1.34	5.3	16.5	26	42.8	99.7	158
XN085-16	16	2.1	8	19	30.5	44.5	106.5	169
XN085-20	18/20	4	12.8	24	37.5	56	140.2	219
XN085-22	22	6.36	16	28	44	68	165	259
XN085-26	26	10.6	21.2	30	49	77	197	306
XN085-32	32	19.4	31.5	38	57	95	226	361

- EN1677-1.
- Safety Factor 4:1

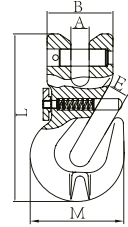
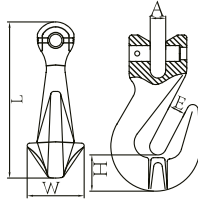
2. XN317 Eye Shortening Grab Hook with Safety Pin

Part Code	Size (mm)	Weight (kg)	WLL (T)	M	B	D	E	L
XN317-07/8	7/8	0.29	2	17	50	9.5	11	88.5
XN317-10	10	0.75	3.15	20	71	13	13	121.5
XN317-13	13	1.62	5.3	26	96	15.5	16.5	158

- EN1677-1.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflux Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

Grade 8 Components



1. XN086 Clevis Grab Hook

Part Code	Size (mm)	Weight (kg)	WLL (T)	E	A	H	W	L
XN086-06	6	0.25	1.12	8	7.5	18	21.5	77
XN086-07/8	7/8	0.32	2	10.5	9.5	21	33.5	89
XN086-10	10	0.73	3.15	13	12.5	29	46	126
XN086-13	13	1.6	5.3	16.5	15	42.5	57.5	163.5
XN086-16	16	2.8	8	19	18.5	45.5	74	183.5
XN086-20	18/20	5	12.5	24	23	56	74	219
XN086-22	22	6.3	15	27	27	68.5	90	254
XN086-26	26	14.5	21.2	30	30	77	102	309

- EN1677-1.
- Safety Factor 4:1

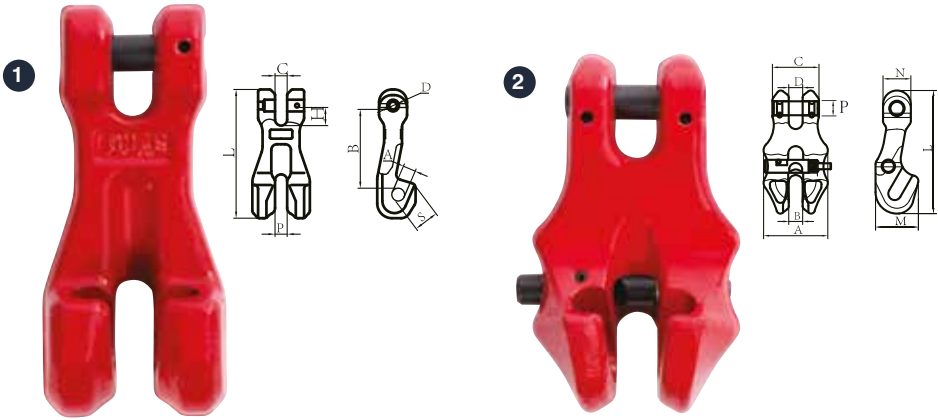
2. XN313 Clevis Grab Hook with Safety Pin

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	M	L
XN313-06	6	0.28	1.12	8	32	8	43.5	75
XN313-07/8	7/8	0.33	2	9.5	35	11	49.5	89
XN313-10	10	0.88	3.15	12.5	42.5	13.2	70.5	126.5
XN313-13	13	1.85	5.3	15	53	16.5	90	163.5
XN313-16	16	3.24	8	19.5	65.5	19.2	112.5	183.5

- EN1677-1.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Proof Tested - 2.5 times Working Load Limit
- 100% Magnaflux Crack Detected
- Super Alloy Steel
- All Load Pins are 100% individually inspected and tested

Grade 8 Components



1. XN073 Clevis Shortening Clutch

Part Code	Size (mm)	Weight (kg)	WLL (T)	P	C	A	B	H	S	L	D
XN073-06	6	0.17	1.12	7.5	7.5	8	44	10.3	12	73.5	7.8
XN073-07/8	7/8	0.37	2	9.5	9.5	10.5	61.7	14	17	101	9.2
XN073-10	10	0.97	3.15	13	13	12.4	92	18.4	28	138	13.2
XN073-13	13	2.01	5.3	16.5	16.5	16	115	22.7	34.5	177	16.2
XN073-16	16	3.32	8	21	21	19.5	143	28.5	40	220	20
XN073-20	18/20	6.2	12.5	23.5	23.5	23	152	33.6	46	238	24.3
XN073-22	22	8.5	15	25.5	25.5	26	195	39	57.5	295	28.1

- EN1677-1.
- Safety Factor 4:1

2. XN638 Clevis Shortening Clutch with Safety Pin

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	C	D	M	N	P	L
XN638-07/8	7/8	0.41	2	50	9.5	33	9.5	33	23	9.2	92
XN638-10	10	0.75	3.15	60	11.5	43	11.5	42.2	26	13.3	115
XN638-13	13	1.67	5.3	79	15	55	15	54	34	16.3	149

- EN1677-1.
- Safety Factor 4:1

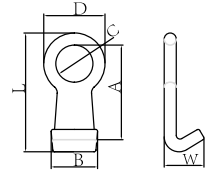
- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Super Alloy Steel
- Proof Tested - 2.5 times Working Load Limit
- All Load Pins are 100% individually inspected and tested
- 100% Magnaflex Crack Detected

Grade 8 Components

XN022 Barrel Hook

- EN1677-2.
- Safety Factor 4:1

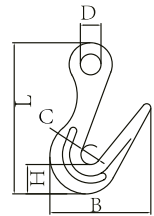
Part Code	Size	Weight	WLL	A	B	C	D	L	W
		(kg)	(T)						
XN022-02T	2T	0.55	2	102	50	40	66	128	43



XN108 Sorting Hook

- EN1677-2.
- Safety Factor 4:1

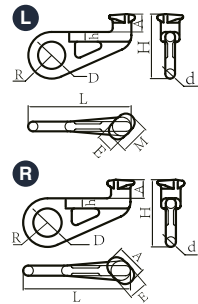
Part Code	Size	Weight	WLL	D	B	C	L	H
		(kg)	(T)					
XN108	2T	3.09	2	35	170	33	254	49



XN633 Container Hook Left / Right Type 45°

- EN1677-4.
- Safety Factor 4:1

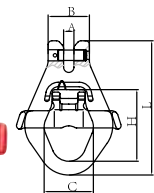
Part Code	Size	Weight	WLL	A	M	H	h	E	R	D	d	L
	(mm)	(kg)	(T)									
XN633-L	13	4	12.5	46	75	166	25	48	60	70	25	265
XN633-R	13	4	12.5	46	75	166	25	48	60	70	25	265



XN243 Clevis Skip Hook with Spring Gate

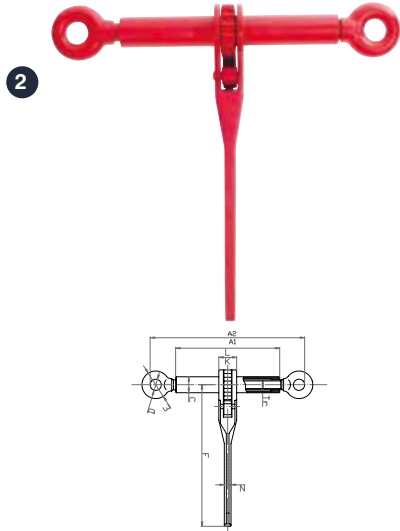
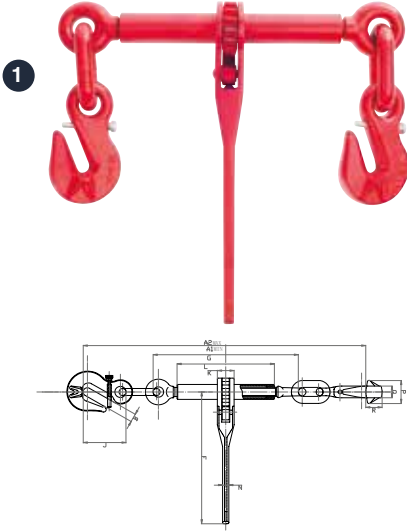
- EN1677-4.
- Safety Factor 4:1

Part Code	Size	Weight	WLL	A	B	C	H	L
	(mm)	(kg)	(T)					
XN243-13	13	1.9	5.3	15.5	60	71.5	104	195



- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Proof Tested - 2.5 times Working Load Limit
- 100% Magnaflux Crack Detected
- Super Alloy Steel
- All Load Pins are 100% individually inspected and tested

Grade 8 Loadbinders



1. XNRLBH

Ratchet Load Binder with Hooks C/W Safety Pin

Part Code	Size (mm)	Weight (kg)	LC (kN)	BF (kN)	B	L	F	G	Q	P	J	R	K	N	A1	A2
XNRLBH08mm	8	4.9	40	80	11	255	355	342	17	30.5	68	28	35	14	590	754
XNRLBH10mm	10	5.4	63	126	12	255	355	346	19	41	74	30	35	14	610	775
XNRLBH13mm	13	7.5	100	212	15	260	355	378	26	51	94	38	35	14	700	870
XNRLBH16mm	16	11	160	322	19	260	355	378	31	64	111	47	35	14	736	896

- Meets performance requirements of EN12195-3.

2. XNRLB

Ratchet Load Binder without Link & Hook

Part Code	Size (mm)	Weight (kg)	LC (kN)	BF (kN)	C	L	D	E	F	K	N	Tr	A1	A2
XNRLB08mm	8	3.4	40	80	33.5	255	18.5	50	355	36	15	22x4	342	502
XNRLB10mm	10	3.5	63	126	33.5	255	20.5	55	355	36	15	22x4	346	511
XNRLB13mm	13	4.2	100	212	36	260	26.5	66	355	36	15	22x4	378	528

- Meets performance requirements of EN12195-3.

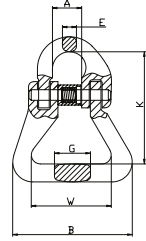
XNRLBE

Budget Ratchet Load Binder with Hooks

Part Code	Size (mm)	Weight (kg)
XNRLBE0810	8-10	3.4
XNRLBE1013	10-13	3.5
XNRLBE1316	13-16	4.2



Grade 8 Components



XN001 Web Sling Connector

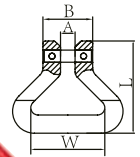
Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	K	W	G	E
XN001-06	06	0.2	1.12	15	60	56	40	18	7
XN001-07/8	7/8	0.3	2.0	20	61.5	63.7	40	24	8.5
XN001-10	10	0.5	3.15	24	66	83	39	30.5	11
XN001-13	13	1.47	5.3	28	88	93.7	55	36.8	16.5
XN001-16	16	2.3	8	34.5	108	120	65.5	45.2	19.8
XN001-20	20	3.3	12.5	41	129	138	80	51.8	23
XN001-22	22	6.89	15	50	191	180	126	70	26
XN001-26	26	10.62	21.2	58	228.4	209.5	152	86	30
XN001-32	32	18.92	31.5	72.5	252	279	160	91	37

- EN1677-1.
- Safety Factor 4:1

XN235 Webbing Sling Link

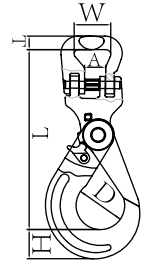
- Safety Factor 4:1

Part Code	Size	Weight (kg)	WLL (T)	B./L/T	A	B	W	L
XN235-01	3.15T	0.23	3.15	12.6	12	41	61	76



- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Proof Tested - 2.5 times Working Load Limit
- 100% Magnaflux Crack Detected
- Super Alloy Steel
- All Load Pins are 100% individually inspected and tested

Grade 8 Components



XN110 Self Lock Hook for Web Sling with Half Link

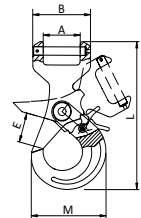
Part Code	Size (mm)	Weight (kg)	WLL (T)	A	H	W	T	D	L
XN110-10	10	1.8	3.15	26.8	28.5	47	16	56	200.5
XN110-13	13	3.52	5.3	30	40	52	19	69	256

- EN1677-3.
- Safety Factor 4:1

XN236 Long Clevis Self Lock Hook for Web Sling

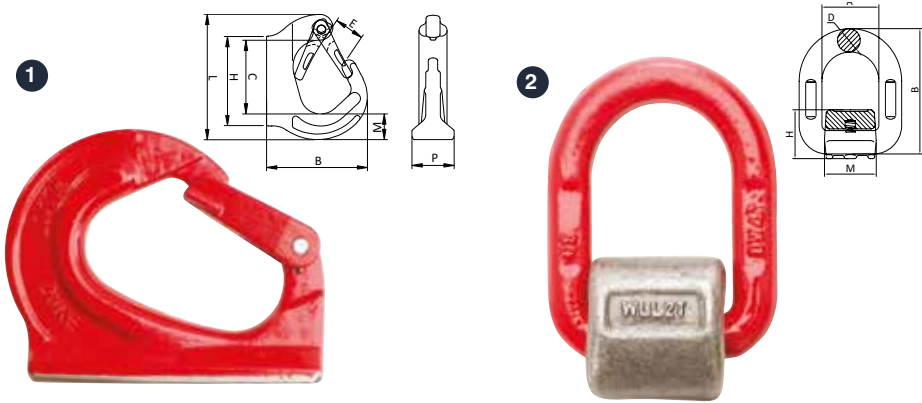
- EN1677-3.
- Safety Factor 4:1

Part Code	Size	Weight (kg)	WLL (T)	B.L/T	A	B	E	M	L
XN236-02.2	2.2T	2.2	2.2	8.8	64	100	50	130	245



- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Super Alloy Steel
- Proof Tested - 2.5 times Working Load Limit
- All Load Pins are 100% individually inspected and tested
- 100% Magnaflux Crack Detected

Grade 8 Components



1. XN019 Weld on Hook

Part Code	Size	Weight (kg)	WLL (T)	B	C	E	H	M	P	L
XN019-02T	2T	0.83	2	92	67	26.5	81	23.3	34	114
XN019-03T	3T	1.2	3	106	73.5	30.5	116	33.6	36	129
XN019-05T	5T	2.46	5	133	94	34	159	44	43.5	171
XN019-08T	8T	3.26	8	136.5	94	34	159	44	51	177
XN019-10T	10T	5.17	10	169.5	134.5	51	194	54.7	53	223

- Safety Factor 4:1

2. XN344 Weld on Pivoting D Link with Spring

Part Code	Size	Weight (kg)	WLL (T)	A	B	D	M	H
XN344-01T	1T	0.4	1.12	41	78.5	13	37	35
XN344-02T	2T	0.47	2	42	88	14	40	37
XN344-03T	3T	0.69	3.15	45	94	17	43.5	40
XN344-05T	5T	1.46	5.3	55	118	22	50	52
XN344-08T	8T	2.5	8	70	141	26.5	66.5	57
XN344-15T	15T	5.79	15	97	188	34	90	77

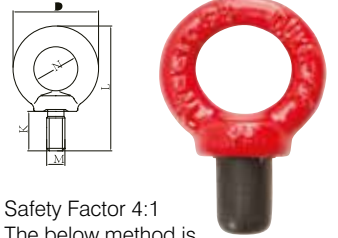
- EN1677-1.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflux Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

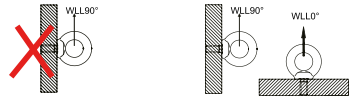
Grade 8 Lifting Points

XN054 High Tensile Lifting Eye Bolt

Part Code	Size (mm)	Weight (kg)	WLL (T) 0°	WLL (T) 90°	D	K	N	L	C
XN054-M06	M6X13	0.05	0.4	0.15	28	13	16	42	17
XN054-M08	M8X15	0.06	1	0.4	36	15	20	51	20
XN054-M10	M10X18	0.11	1	0.4	45	18	25	63	25
XN054-M12	M12X22	0.18	2	0.75	54	22	30	75	30
XN054-M16	M16X28	0.28	4	1.5	63	28	35	88	35
XN054-M20	M20X30	0.45	6	2.3	72	30	40	101	40
XN054-M24	M24X38	0.87	8	3.2	90	38	50	128	50
XN054-M30	M30X45	1.66	12	4.5	108	45	60	154	60
XN054-M36	M36X55	2.65	16	7	126	55	70	183	70
XN054-M42	M42X65	4.03	24	9	144	65	80	212	85
XN054-M48	M48X70	6.38	32	12	166	70	90	238	100

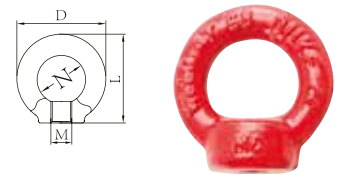


- Safety Factor 4:1
- The below method is not recommended.



XN055 High Tensile Lifting Eye Nut

Part Code	Size (mm)	Weight (kg)	WLL (T) 0°	WLL (T) 90°	D	N	L
XN055-M06	M6	0.049	0.4	0.15	36	20	36
XN055-M08	M8	0.05	1	0.4	36	20	36
XN055-M10	M10	0.09	1	0.4	45	25	45
XN055-M12	M12	0.16	2	0.75	54	30	53
XN055-M16	M16	0.24	4	1.5	63	35	62
XN055-M20	M20	0.36	6	2.3	72	40	71
XN055-M24	M24	0.72	8	3.2	90	50	90
XN055-M30	M30	1.32	12	4.5	108	60	109
XN055-M36	M36	2.08	16	7	126	70	128
XN055-M42	M42	3.11	24	9	144	80	147
XN055-M48	M48	5.02	32	12	166	90	168



- Safety Factor 4:1
- The below method is not recommended.



Size	1 Point (T) 0°	1 Point (T) 90°	2 Points (T) 0°	2 Points (T) 90°	2 Points (T) 0-45°	2 Points (T) 45-60°	3/4 Points (T) 0-45°	3/4 Points (T) 45-60°	3/4 Points Unsym (T)
M6	0.4	0.15	0.8	0.3	0.21	0.15	0.32	0.23	0.15
M8	1	0.4	2	0.8	0.56	0.4	0.84	0.6	0.4
M10	1	0.4	2	0.8	0.56	0.4	0.84	0.6	0.4
M12	2	0.75	4	1.5	1.05	0.75	1.58	1.13	0.75
M16	4	1.5	8	3	2.1	1.5	3.15	2.25	1.5
M20	6	2.3	12	4.6	3.22	2.3	4.83	3.45	2.3
M24	8	3.2	16	6.4	4.48	3.2	6.72	4.8	3.2
M30	12	4.5	24	9	6.3	4.5	9.5	6.8	4.5
M36	16	7	32	14	9.8	7	14.7	10.5	7
M42	24	9	48	18	12.6	9	18.9	13.5	9
M48	32	12	64	24	16.8	12	25.2	18	12

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflux Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

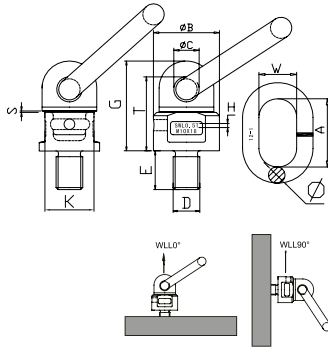
Grade 8 Lifting Points

XN303

Swivel Lifting Eye Bolt with Ring

- Safety Factor 4:1

NOTE: We have Extra Long Thread Lengths in Stock.



Part Code	Size (mm)	Weight (kg)	WLL (T) 90°	WLL (T) 0°	DxE	B	C	G	T	A	W	Ø	S	K	H
XN303-M08	M8X13	0.41	0.3	0.6	M8X13	36	16.5	51	41	55	30	14	0.5-1	30	3
XN303-M10	M10X18	0.43	0.5	1	M10X18	36	16.5	51	41	55	30	14	0.5-1	30	3
XN303-M12	M12X18	0.44	0.5	1	M12X18	36	16.5	51	41	55	30	14	0.5-1	30	3
XN303-M16	M16X20	0.5	1.12	2	M16X20	36	16.5	52	42	55	30	14	0.5-1	30	3
XN303-M20	M20X30	0.96	2	4	M20X30	49.5	19	68	56	70	35	16	0.5-1	41	3.5
XN303-M24	M24X40	1.47	3.15	6.3	M24X40	57	22	78	65.5	85	40	18	0.5-1.5	46	3.5
XN303-M27	M27X35	1.47	3.15	6.3	M27X35	57	22	78	65.5	85	40	20	0.5-1.5	46	3.5
XN303-M30	M30X35	2.17	5.3	10.6	M30X35	66	23.5	96.5	80.5	85	40	20	0.6-2	64	6
XN303-M36	M36X50	3.6	8	12.8	M36X50	80	27	109	89.5	115	50	22	0.6-2	64	6
XN303-M39	M39X50	3.65	8	12.8	M39X50	80	27	109	89.5	115	50	22	0.6-2	65	6
XN303-M42	M42X50	3.95	10	16	M42X50	80	27	109	89.5	115	50	25	1-2.5	65	6
XN303-M48	M48x50	4.02	10	16	M48x50	80	27	109	89.5	115	50	25	1-2.5	65	6
XN303-M56	M56x84	11.8	15	24	M56x84	117	42	246	214	152	70	32	1-2.5	95	7
XN303-M64	M64x95	12.5	15	24	M64x95	117	42	257	225	152	70	32	1-2.5	95	7

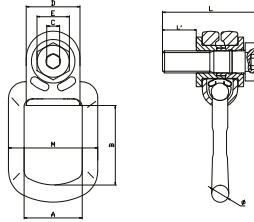
Size	1 Point (T) 0°	1 Point (T) 90°	2 Points (T) 0°	2 Points (T) 90°	2 Points (T) 0-45°	2 Points (T) 45-60°	3/4 Points (T) 0-45°	3/4 Points (T) 45-60°	3/4 Points Unsym (T)
M8	0.6	0.3	1.2	0.6	0.42	0.3	0.63	0.45	0.3
M10	1.0	0.5	2	1	0.7	0.5	1.05	0.75	0.5
M12	1.0	0.5	2	1	0.7	0.5	1.05	0.75	0.5
M16	2.0	1.12	4	2.24	1.57	1.12	2.35	1.68	1.12
M20	4	2	8	4	2.80	2	4.2	3	2
M24	6.3	3.15	12.6	6.3	4.41	3.15	6.62	4.73	3.15
M27	6.3	3.15	12.6	6.3	4.41	3.15	6.62	4.73	3.15
M30	10.6	5.3	21.2	10.6	7.42	5.3	11.13	7.95	5.3
M36	12.8	8	25.6	16	11.2	8	16.8	12	8
M39	12.8	8	25.6	16	11.2	8	16.8	12	8
M42	16	10	32	20	14	10	21	15	10
M48	16	10	32	20	14	10	21	15	10
M56	24	15	48	30	21	15	31.5	22.5	15
M64	24	15	48	30	21	15	31.5	22.5	15

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflux Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

Grade 8 Lifting Points

XN173 Pivoting Lifting Eye Bolt

- Safety Factor 4:1



NOTE: We have Extra Long Thread Lengths in Stock.

Part Code	Size (mm)	Weight (kg)	WLL (T) 90°	A	B	C	D	E	M	L	L'	Ø
XN173-M08	M8	0.36	0.3	35	52.5	6	30	13	45	46	10.4	14
XN173-M10	M10	0.38	0.63	35	52.5	6	30	17	45	52	16	14
XN173-M12	M12	0.71	1	40	54	8	36	19	68	62	18	18
XN173-M14	M14	0.72	1.2	40	54	8	36	19	68	66	21	18
XN173-M16	M16	0.74	1.5	40	54	8	36	19	68	70	24	18
XN173-M18	M18	1.16	2	54	80	12	50	30	83	83	26	16
XN173-M20	M20	1.19	2.5	54	80	12	50	30	83	88	30	16
XN173-M24	M24	1.35	4	54	94	14	50	36	83	95	35	18
XN173-M27	M27	4.18	4	73	106	17	68	41	120	120	38	27
XN173-M30	M30	4.4	5	73	106	17	68	41	120	132	48	27
XN173-M36	M36	4.65	8	73	106	17	68	41	120	142	54	27
XN173-M42	M42	12.4	15	104	155	24	95	65	176	179	63	40
XN173-M48	M48	13	20	104	155	27	95	75	176	194	74	40

Size	1 Point (T) 0°	1 Point (T) 90°	2 Points (T) 0°	2 Points (T) 90°	2 Points (T) 0-45°	2 Points (T) 45-60°	3/4 Points (T) 0-45°	3/4 Points (T) 45-60°	3/4 Points Unsym (T)
M8	0.3	0.3	0.6	0.6	0.42	0.3	0.63	0.45	0.30
M10	0.63	0.63	1.26	1.26	0.88	0.63	1.32	0.95	0.63
M12	1	1	2	2	1.4	1	2.1	1.5	1
M14	1.2	1.2	2.4	2.4	1.68	1.2	2.52	1.8	1.2
M16	1.5	1.5	3	3	2.1	1.5	3.15	2.25	1.5
M18	2	2	4	4	2.8	2	4.2	3	2
M20	2.5	2.5	5	5	3.5	2.5	5.25	3.75	2.5
M24	4	4	8	8	5.6	4	8.4	6	4
M27	4	4	8	8	5.6	4	8.4	6	4
M30	5	5	10	10	7	5	10.5	7.5	5
M36	8	8	16	16	11.2	8	16.8	12	8
M42	15	15	30	30	21	15	31.5	22.5	15
M48	20	20	40	40	28	20	42	30	20

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflux Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

DUKE™

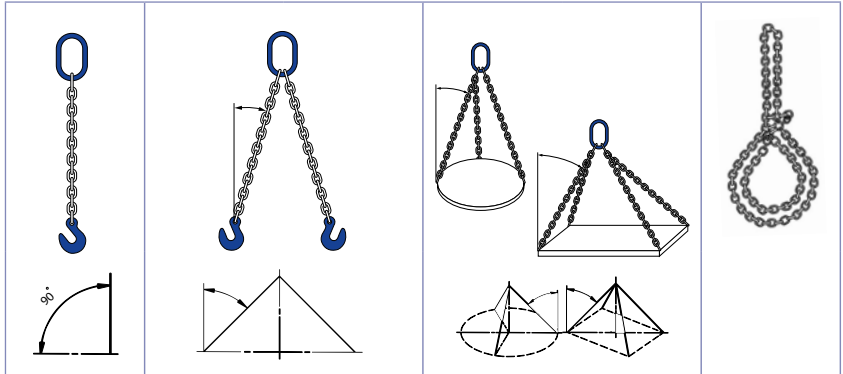
Grade 10:
Chain & Components
Web Components
Load Binders



Grade 10

Standard Uniform Load Method of Rating for Grade 10 Chain Slings

Loads shown in Tonnes



Chain Size (mm)	Single Leg Chain Sling	2 Leg Chain Sling		3 & 4 Leg Chain Sling		Endless Choke Sling
		0-45° Safety Factor 1.4	45-60° Safety Factor 1.0	0-45° Safety Factor 2.1	45-60° Safety Factor 1.5	
6	1.4	2	1.4	2.9	2.1	2.2
8	2.5	3.5	2.5	5.3	3.8	4
10	4	5.6	4	8.4	6	6.4
13	6.7	9.5	6.7	14	10	10.6
16	10	14	10	21	15	16
20	16	22.4	16	33.6	24	25.6
22	19	26.5	19	40	28	30.4
26	26.5	37	26.5	56	40	43
32	39.3	55	39.3	83	59	63

200° Temper Chain

Operating Temperature	Reduction in Load Limit
-40°C to 200°C	None
Over 200°C	DO NOT USE

380° Temper Chain

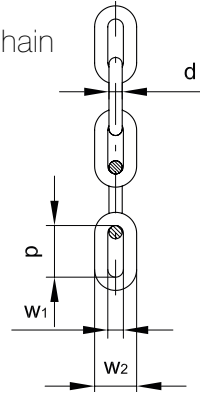
Operating Temperature	Reduction in Load Limit
-40°C to 200°C	None
Over 200°C to 300°C	10%
Over 300°C to 380°C	25%
Over 380°C	DO NOT USE

Grade 10 Chain

XNG10

Grade 10 European Super Alloy Lifting Chain

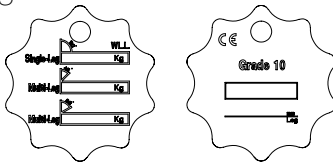
- Safety Factor 4:1



200° Temper Part Code	380° Temper Part Code	Size (mm)	Weight (kg/m)	WLL (T)	Test Load (kN)	Tensile Load (kN)	W1 Min (mm)	W2 Max (mm)	Pitch (mm)	
XNG10004		4	0.36	0.63	15.7	25.1	5.2	14.8	12	
XNG10005		5	0.56	1	24.5	39.3	6.5	18.5	15	
XNG10006	XNG10006-380	6	0.9	1.4	35.3	56.5	8.5	22.2	18	
XNG10007	XNG10007-380	7	1.2	1.9	48.1	77	9.1	25.9	21	
XNG10008	XNG10008-380	8	1.6	2.5	62.8	101	11	29.6	24	
XNG10010	XNG10010-380	10	2.5	4	98.2	157	13.5	37	30	
XNG10013	XNG10013-380	13	4.2	6.7	166	265	16.9	48.1	39	
XNG10016	XNG10016-380	16	6.2	10	251	402	20.8	59.2	48	
XNG10018		18	8.1	12.5	318	509	23.4	66.6	54	
XNG10019	XNG10019-380	19	9	14	354	567	24.7	70.3	57	
XNG10020		20	10	16	393	628	26	74	60	
XNG10022	XNG10022-380	22	11.9	19	457	760	28.6	81.4	66	
XNG10023		23	13.2	20	519	831	29.9	85.1	69	
XNG10026	XNG10026-380	26	16.3	26.5	664	1060	33.8	96.2	78	
XNG10032		32	24.3	40	1005	1610	41.6	118	96	
Chain acc. PN 46-15 Spec. on request. Marked with R10 symbol		Dia: 6-16 acc. PAS 1061 Dia: 19-26 acc. EN 818-2								

XNCTAGG10

Grade 10 Single and Multi Leg Chain Tag

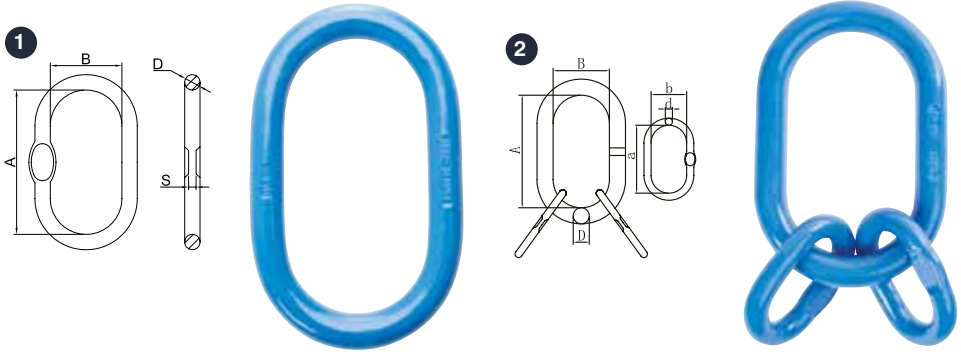


XNWF4TAG

Wire & Ali Ferrule Loop for Tags



Grade 10 Components



1. XN1011 Master Link

Part Code	Size (mm)	For 1 Leg	For 2 Leg	Weight (kg)	WLL (T)	A	B	D	S
XN1011-10	6/5	6	5	0.14	1.4	80	50	10	
XN1011-13	7/6	7	6	0.34	2.3	110	60	13	7
XN1011-16	8/7	8	7	0.53	3.5	110	60	16	7
XN1011-18	10/8	10	8	0.86	5	135	75	18	8
XN1011-22	13/10	13	10	1.6	7.6	160	90	23	11
XN1011-26	16/13	16	13	2.46	10	180	100	27	13
XN1011-32	20-19/16	20/19	16	4.14	14	200	110	33	17
XN1011-36	22/20	22	20/19	6.22	25.1	260	140	36	19
XN1011-45	26/22	26	22	12.85	30.8	340	180	45	
XN1011-50	32/26	32	26	16.22	40	350	190	50	
XN1011-56	/32		32	27	60	400	200	60	

- EN1677-4 / WLL + 25%, Higher Grade Material.
- Suitable for 1 or 2 leg Grade 10 Chain Sling.
- XN1011-13 to XN1011-36 complete with flat part.
- Safety Factor 4:1

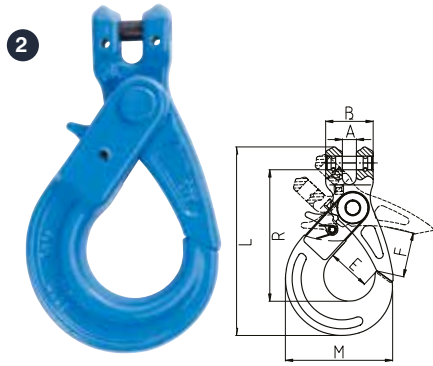
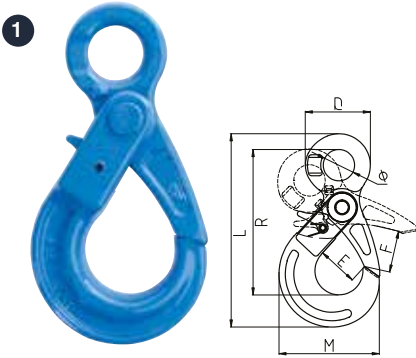
2. XN1012 Master Link Assembly

Part Code	Size (mm)	For 3 or 4 Leg	Weight (kg)	WLL (T)	A	B	D	a	b	d	S
XN1012-06	6	6	1.3	3	135	75	19	54	25	13	7
XN1012-08	8	8	2.33	5.3	160	90	23	70	34	16.5	8
XN1012-10	10	10	3.7	8.4	180	100	27	85	40	19	11
XN1012-13	13	13	6.5	14	200	110	33	115	50	23	13
XN1012-16	16	16	10.1	21.2	260	140	36	140	65	27	17
XN1012-20	19/20	19/20	24.15	33.6	350	190	50	180	90	33	
XN1012-22	22	22	24.15	39.9	350	190	50	180	100	36	

- EN1677-4 / WLL + 25%, Higher Grade Material.
- Suitable for 3 or 4 leg Grade 10 Chain Sling.
- XN1012-06 to XN1012-22 complete with flat part.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflex Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

Grade 10 Components



1. XN1005 Eye Self Locking Hook

Part Code	Size (mm)	Weight (kg)	WLL (T)	Ø	D	E	F	R	M	L
XN1005-06	6	0.5	1.4	21	43	28	31	110	70	141
XN1005-08	8	0.9	2.5	27	51	35.5	40	137	90	175
XN1005-10	10	1.5	4	34.5	64.5	45	50	169	108	212.5
XN1005-13	13	2.7	6.7	40	80	53.5	66	209	138.5	270
XN1005-16	16	5.7	10	50	104	62	75	254	170.5	331
XN1005-20	20	7.9	16	60	120	76.5	80	277	192.5	369
XN1005-22	22	11.2	19	70	134	80	104.5	319.5	205	417

- EN1677-3 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

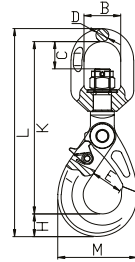
2. XN1006 Clevis Self Locking Hook

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	F	R	M	L
XN1006-06	6	0.5	1.4	8	32	28	31	96	70	131
XN1006-08	8	0.9	2.5	9.5	36	36	40	121	90	163
XN1006-10	10	1.6	4	12	46	45	50	144	109	196.5
XN1006-13	13	2.9	6.7	15	59	53.5	66	182	138.5	251
XN1006-16	16	5.8	10	18.5	70	61	75	220	170.5	303
XN1006-20	20	8.6	16	25	85	76.5	80	235	192.5	337
XN1006-22	22	12.1	19	25.5	98	80	104.6	271	205	386

- EN1677-3 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Proof Tested - 2.5 times Working Load Limit
- 100% Magnaflux Crack Detected
- Super Alloy Steel
- All Load Pins are 100% individually inspected and tested

Grade 10 Components



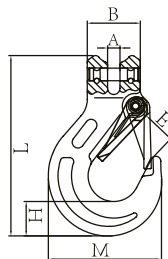
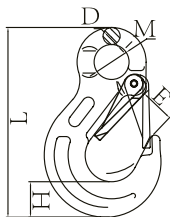
XN1007 Swivel Self Locking Hook / Brass Bushing

Part Code	Size (mm)	Weight (kg)	WLL (T)	B	C	D	E	H	M	K	L
XN1007-06	6	0.6	1.4	32.5	23	11.5	28	20	70	152	184
XN1007-08	8	1.1	2.5	36	28	13	35.9	26	90	190	229
XN1007-10	10	2	4	42	35	15.5	45	30	109	225	269
XN1007-13	13	4	6.7	50	41	17	53.5	40.5	138.5	273	330
XN1007-16	16	6.8	10	61	58	21.5	62	50.5	170.5	340	413
XN1007-20	20	12.5	16	72	62	26	76.5	62	192.5	375	463
XN1007-22	22	17.1	19	97	96	33	80	66	205	473	572

- EN1677-3 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- 100% Magnaflux Crack Detected
- Proof Tested - 2.5 times Working Load Limit
- Super Alloy Steel

Grade 10 Components



1. XN1003 Sling Eye Hook with Latch

Part Code	Size (mm)	Weight (kg)	WLL (T)	D	E	H	M	L
XN1003-06	6	0.32	1.4	10	18.5	21	20.5	111
XN1003-08	8	0.6	2.5	11	25	27.5	25	137.5
XN1003-10	10	1.2	4	16	28	33	34	171.5
XN1003-13	13	2.2	6.7	19	38	43.5	43	219
XN1003-16	16	3.5	10	24.5	46	50	50	260
XN1003-20	20	6.2	16	27	52	56	55	298
XN1003-22	22	11.5	19	29	66	62	60	330
XN1003-26	26	12.2	26.5	35	73	75	70	376
XN1003-32	32	17.5	39.3	39	87	89	81.5	458

- EN1677-2 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

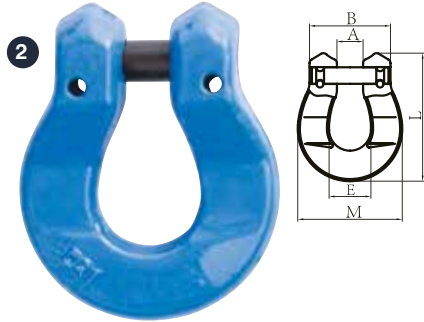
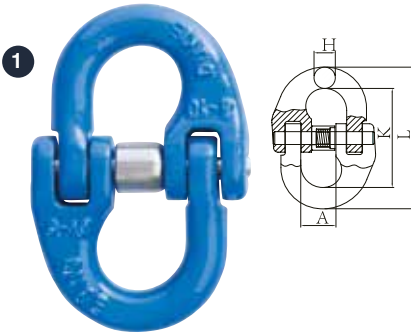
2. XN1004 Sling Clevis Hook with Latch

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	H	M	L
XN1004-06	6	0.33	1.4	7.5	32	18.5	21	68.5	109
XN1004-08	8	0.7	2.5	9.5	37	25	27.5	88	134
XN1004-10	10	1.3	4	12	48	28	33.5	105.5	161.5
XN1004-13	13	2.3	6.7	15	59	38	42	134	203
XN1004-16	16	3.6	10	17.5	70	44	50	160.5	248
XN1004-20	20	7.3	16	25	85	52	56	190.5	297
XN1004-22	22	12.1	19	27	100	66	62	214.5	326

- EN1677-2 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Proof Tested - 2.5 times Working Load Limit
- 100% Magnaflux Crack Detected
- Super Alloy Steel
- All Load Pins are 100% individually inspected and tested

Grade 10 Components



1. XN1001 Connecting Link

Part Code	Size (mm)	Weight (kg)	WLL (T)	H	A	K	L
XN1001-06	6	0.11	1.4	7	14	44.5	60
XN1001-08	8	0.22	2.5	10	18.5	61.5	82.5
XN1001-10	10	0.45	4	12.6	23	72	97.2
XN1001-13	13	1.15	6.7	16.5	28	92	125
XN1001-16	16	1.7	10	20	33.5	107	147
XN1001-20	20	2.8	16	25	42	122	172
XN1001-22	22	4	19	27	48	136	191
XN1001-26	26	5.61	26.5	32	61	164	229
XN1001-32	32	8.50	39.3	40	80	194	279

- EN1677-1 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

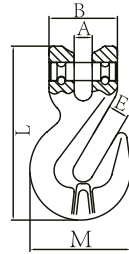
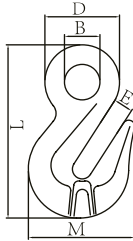
2. XN1027 Omega Link

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	M	L
XN1027-06	6	0.12	1.4	8.5	32.5	20	44	55
XN1027-08	8	0.27	2.5	10.5	42	24	60	73.5
XN1027-10	10	0.44	4	12.5	48.5	31	70	90
XN1027-13	13	0.89	6.7	16	60	38.5	90	109
XN1027-16	16	1.69	10	19	75.5	51	112	141.5

- EN1677-1 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Super Alloy Steel
- Proof Tested - 2.5 times Working Load Limit
- All Load Pins are 100% individually inspected and tested
- 100% Magnaflux Crack Detected

Grade 10 Components



1. XN1008 Eye Shortening Grab Hook

Part Code	Size (mm)	Weight (kg)	WLL (T)	E	B	D	M	L
XN1008-06	6	0.2	1.4	8	14.5	30.5	43.5	71
XN1008-08	8	0.28	2.5	10.8	18	37	53	91.5
XN1008-10	10	0.72	4	13.5	22.5	48.5	72	127.5
XN1008-13	13	1.6	6.7	16.5	28	59	96	163
XN1008-16	16	2.45	10	19.2	36	74	112.5	183
XN1008-20	20	4.72	16	24	43.5	89.5	143	227
XN1008-22	22	8.2	19	27	48.5	100.5	160.5	260.5

- EN1677-2 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

2. XN1009 Clevis Shortening Grab Hook with Safety Pin

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	E	M	L
XN1009-06	6	0.22	1.4	7.5	32	8	43.5	75
XN1009-08	8	0.34	2.5	9.5	36	10.8	53	91.5
XN1009-10	10	0.82	4	12	46	13.5	72	126
XN1009-13	13	1.75	6.7	15	59	16.5	96	163.5
XN1009-16	16	2.88	10	17.5	70	19.2	112.5	183.5
XN1009-20	20	4.84	16	24	85	24	143	224
XN1009-22	22	8.3	19	27	100	27	160.5	262

- EN1677-1 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

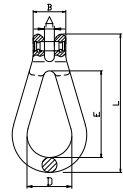
- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Proof Tested - 2.5 times Working Load Limit
- 100% Magnaflux Crack Detected
- Super Alloy Steel
- All Load Pins are 100% individually inspected and tested

Grade 10 Components

XN1062 Clevis Reeving Link

- EN1677-1 / WLL + 25%. Higher Grade Material.
- Safety Factor 4:1

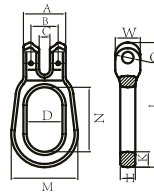
Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	D	E	L
XN1062-08	8	0.53	2.5	10	32.8	45	87	139
XN1062-10	10	0.74	4	12	42	60	108	174
XN1062-13	13	1.76	6.7	16.5	55.5	66.5	137.5	228
XN1062-16	16	2.8	10	19	68	72	165	264



XN1033 Skip Clevis Link

- Safety Factor 4:1

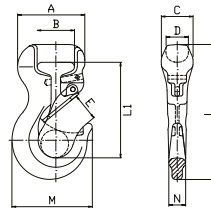
Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	C	D	M	N	H	K	L	G	W
XN1033-13	13	1.36	6.7	59	38	15	50	93	90	21	21.5	174	16	35



XN1043 Webbing Hook

- Safety Factor 4:1

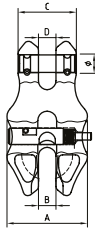
Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	C	D	E	M	N	L1	L
XN1043-01T	1T	0.45	1	57	35	28	18	24	73	17	84	117
XN1043-02T	2T	0.9	2	72	40	34	24	28	86	18	102	143
XN1043-03T	3T	1.48	3	87	47	38	29	30	108	24	120	168.5
XN1043-05T	5T	3.4	5	131	73	45	35	43	131	28	155	224



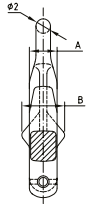
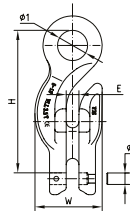
- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Super Alloy Steel
- Proof Tested - 2.5 times Working Load Limit
- All Load Pins are 100% individually inspected and tested
- 100% Magnaflux Crack Detected

Grade 10 Components

1



2



1. XN1057

Clevis Shortening Clutch with Safety Pin

Part Code	Size (mm)	Weight (kg)	WLL (T)	A	B	C	D	M	N	Ø	L
XN1057-08	8	0.30	2.5	50	9.5	33	9.5	36	23	9.2	92
XN1057-10	10	0.69	4	60	11.5	43	11.5	45.4	26	13.3	115
XN1057-13	13	1.32	6.7	79	15	55	15	54	34	16.3	149

- EN1677-1 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

2. XN1051

Eye Grab Hook with Clevis Attachment

Part Code	Size (mm)	Weight (kg)	WLL (T)	1	2	3	A	B	E	H	W
XN1051-06	6	0.30	1.4	18	9	7.6	17.5	27	8	88	42
XN1051-08	8	0.69	2.5	24	12	9.5	23	35.5	10	116	54
XN1051-10	10	1.32	4	30	15	13	28.5	44	12.5	145	67
XN1051-13	13	2.47	6.7	37	18	16	35	54	15.5	178	83
XN1051-16	16	4.5	10	45	22	19.5	42	65	19	216	102
XN1051-20	20	9.5	16	58	28	24	54	84	24.5	278	139

- EN1677-1 / WLL + 25%, Higher Grade Material.
- Safety Factor 4:1

- Fatigue Rated x 1.5 WLL for 20,000 cycles
- Proof Tested - 2.5 times Working Load Limit
- 100% Magnaflux Crack Detected
- Super Alloy Steel
- All Load Pins are 100% individually inspected and tested

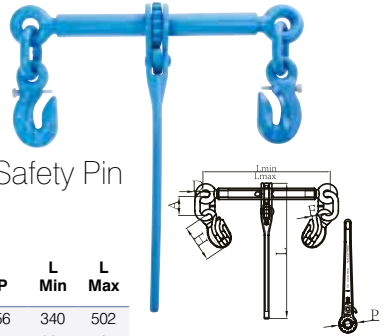
Grade 10 Components

XN1030

Ratchet Load Binder with Safety Hooks C/W Safety Pin

- Meets performance requirements of EN12195-3.

Part Code	Size (mm)	Weight (kg)	LC/ kN	BF/ kN	A	D	H	E	L	P	L Min	L Max
XN1030-08	8	3.7	50	100	50	12	98	10.5	383	56	340	502
XN1030-10	10	5.8	80	160	50	14	121.5	13	388.6	65	365	525
XN1030-13	13	9.5	134	268	72	20	159.5	15.5	392.5	69	365	525

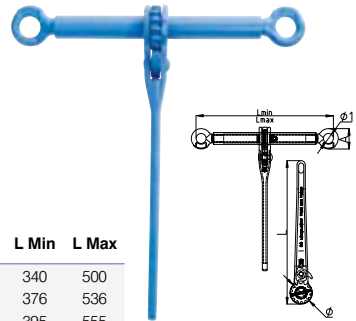


XN1031

Ratchet Load Binder without Links & Hooks

- Meets performance requirements of EN12195-3.

Part Code	Size (mm)	Weight (kg)	LC/ kN	BF/ kN	A	Ø	Ø1	L	L Min	L Max
XN1031-08	8	2.2	50	100	50.5	56	25	383	340	500
XN1031-10	10	3.5	80	160	66	65	34	388.6	376	536
XN1031-13	13	5.0	134	268	81	69	43.5	392.5	395	555

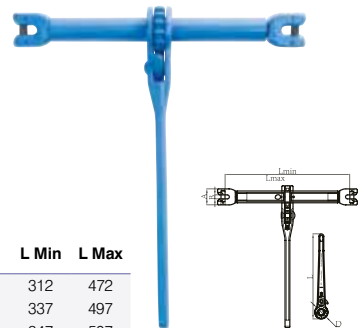


XN1032

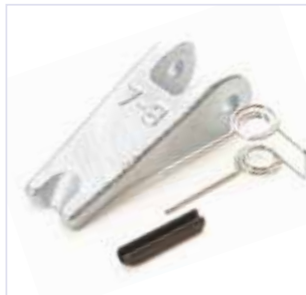
Clevis Type Ratchet Load Binder

- Meets performance requirements of EN12195-3.

Part Code	Size (mm)	Weight (kg)	LC/ kN	BF/ kN	A	B	L	D	L Min	L Max
XN1032-08	8	2.2	50	100	40	10	383	56	312	472
XN1032-10	10	3.5	80	160	49	13	388.6	65	337	497
XN1032-13	13	5.0	134	268	64	16	392.5	69	347	507



Grade 8 & 10 Spare Parts & Replacements



DUKE™

Testing

Magnaflux Crack Detection



Proof Testing



Destruction Testing (500T Test Bed)



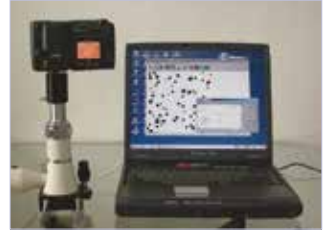
Fatigue Testing



Salt Mist Testing



Material Testing



Manufacturing

Forging



Forging Die Production



Heat Treatment



Product

Hook Production



Load Binder Production



Model 3D Printing



KWB
Safety in action

Grade 12:
Chain & Components



Grade 12

For years KWB sling chains have been synonymous for quality and a guarantee for absolute safety.

The traditional KWB brand originates from the chain forge “Kettenwerk Brückl”, an Austrian company with experience in chain production dating back centuries.

Through extension and expansion KWB’s Lifting product program today enables a streamlined Sun Alloy Grade 12 system to be introduced in 2016.

Tailored to meet the growing global demand for top-quality lifting equipment. More than suitable in use; totally reliable.

We offer quality at the highest level.

Our Sun Alloy sling chains and components fulfil maximum requirements with regards to profitability, safety, longevity and easy handling. KWB means safety in action.

Advantages

- Use of high grade steels and alloys
- Production on specially developed bending and welding machines in Europe
- Process controlled heat and surface procedures
- BG approved – H29 Number
- Continuous quality control (ISO 9001, 9002) ongoing research and development of the product
- Worldwide distribution
- The longstanding experience of our employees

Grade 12

Advantages of Sun Alloy Grade 12

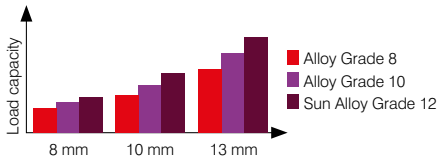
Durability: higher wear resistance due to increased hardness

Simple: smart and easy assembling of chain slings

Traceability: appropriate marking on chains & components

Reliability: Decades of experience

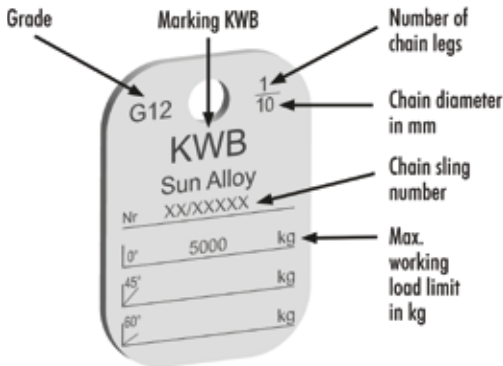
Strong: 50 % higher load capacity compared to Grade 8, 20 % higher load capacity compared to Grade 10



Working Load Limit (kg)	Previous Chain – Ø Grade 8 (mm)	Sun Alloy-Chain – Ø (mm)
4250	10	8
7100	13	10
11200	16	13

e.g. 2-leg chain slings

Clear Identification



Sample of tag for ready made chain sling

Grade 12

Advantages of Sun Alloy Grade 12

Chain Quality:	Sun Alloy Chain	SUN	Corresponds with EN 818-2 & machinery directive 2006/42/EC
Stress at Load Capacity Limit:			300 N/mm ²
Test Stress:			750 N/mm ² – corresponds to 2.5 times the load capacity
Breaking Stress:			1.200 N/mm ² – corresponds to 4 times the load capacity
Breaking Elongation:			min. 20 %
Bending acc. to EN 818-2:			0.8 x nominal diameter
Permissible Working Temperature:	Sun Alloy Chain	SUN	max. 200 °C
	Components		max. 200 °C
Grade marking:	Sun Alloy Chain	SUN	12
	Components		12
Surface:	Sun Alloy Chain	SUN	Bordeaux Violet painted
	Components		Bordeaux Violet powder coated

Working Load Tag:

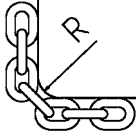
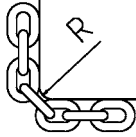
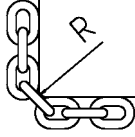


All the required data is shown on the working load tag.

Note: Working load tags should only be assembled acc. EN 818-4 and by competent persons. Working load tags should be used, solely when the respective chain & KWB components are assembled in the chain sling. Should alternative Working load limits arise in the chain sling through the use of special parts, the tags are impermissible. Disregard of these instructions can lead to material damage and personal injury. KWB will not assume liability

Grade 12

Sun Alloy Grade 12 – Characteristics

Temperature	-40° to 200 °C		
Load Factor Sun Alloy	1		
Asymmetric Load Distribution	In this case the working load limit must be reduced by at least one chain leg, for example a 3-leg or 4-leg sling is to be classified as a 2-leg chain sling. In case of doubt, it must be supposed that only one of the chain legs carries the entire load.		
Edge Loads	R = larger than 2x chain Ø	R = larger than chain Ø	R = chain Ø or smaller
			
Load Factor	1	0.7	0.5
Impact Load	slight impact	medium impact	strong impact
Load Factor	1	0.7	impermissible

Sling Examples



I GTKR/SUN - HKSB/SUN



I GTVK/SUN - HKS/SUN



II GTKR/SUN - HKSB/SUN



II GTVK/SUN - HKS/SUN



IV GTKR/SUN - HKSB/SUN

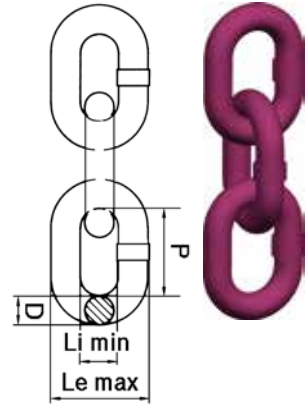


IV GTVK/SUN - HKS/SUN

Grade 12 Chain

KWB-CHAIN Sun Alloy Chain Grade 12

Part Code	Size (mm)	Pitch (mm)	Li Min (mm)	Le Max (mm)	Weight (kg/m)	WLL (kg)	Breaking Load (kN)
KWB-CHAIN07	7	21	9.8	26.0	1.33	2,360	92.6
KWB-CHAIN08	8	24	11.0	30.5	1.69	3,000	118
KWB-CHAIN10	10	30	14.3	38.0	2.66	5,000	196
KWB-CHAIN13	13	39	18.0	48.5	4.43	8,000	319
KWB-CHAIN16	16	48	21.5	59.0	6.73	12,200	479

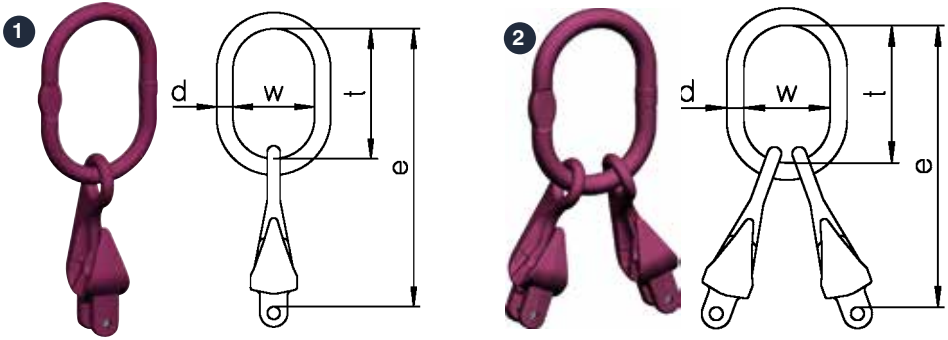


Maximum Working Load Limit for Sun Alloy Chains

Safety factor	1-leg Chains		2-leg Chains				3- and 4-leg Chains	
4								
	Angle of Inclination	-	-	up to 45°	45°-60°	up to 45°	45°-60°	up to 45°
Load Factor	1	0.8	1.4	1	1.12	0.8	2.1	1.5
∅	Load Capacity [kg]							
7	2,360	1,900	3,350	2,360	2,650	1,900	5,000	3,550
8	3,000	2,360	4,250	3,000	3,350	2,360	6,300	4,500
10	5,000	4,000	7,100	5,000	5,600	4,000	10,600	7,500
13	8,000	6,300	11,200	8,000	9,000	6,300	17,000	11,800
16	12,200	9,700	17,000	12,200	13,600	9,700	25,600	18,300

If the chain slings are used in more demanding conditions (e.g. high temperature, asymmetric load distribution, edge loads, impacts) the maximum load capacities in the table must be reduced. Please use the load factors on page 7 and refer to the specification in the user information.

Grade 12 Sub-Assemblies



1. KWB-GTVK 1

G12 1 Leg Master Link c/w Shortener KWB

Part Code	Size (mm)	Weight (kg)	WLL (kg)	d	t	w	e	Can be used to single hook acc. to DIN15401 no.
KWB-GTVK 1-07	7	1.21	2,360	14	120	70	244	4
KWB-GTVK 1-08	8	1.44	3,000	17	140	80	264	5
KWB-GTVK 1-10	10	2.72	5,000	19	160	95	318	6
KWB-GTVK 1-13	13	5.83	8,000	27	190	110	391	10
KWB-GTVK 1-16	16	9.5	12,200	30	190	110	423	12

- For 1-leg slings with shortening element.

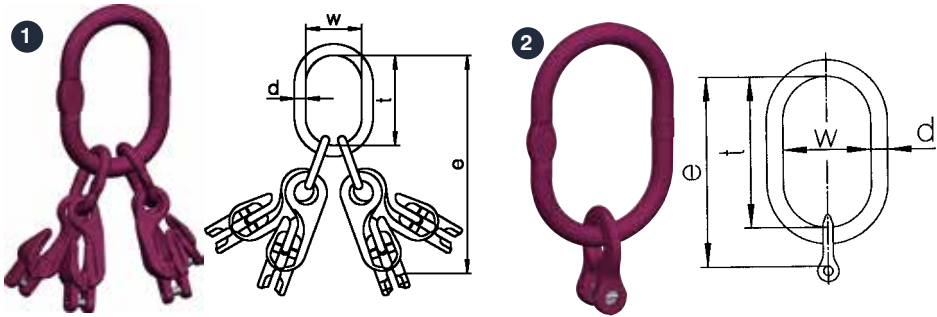
2. KWB-GTVK 2

G12 2 Leg Master Link c/w Shortener KWB

Part Code	Size (mm)	Weight (kg)	WLL up to 45° (kg)	WLL 45-60° (kg)	d	t	w	e	Can be used to single hook acc. to DIN15401 no.
KWB-GTVK 2-07	7	2.75	3,350	2,360	19	160	95	284	6
KWB-GTVK 2-08	8	2.75	4,250	3,000	19	160	95	284	6
KWB-GTVK 2-10	10	4.76	7,100	5,000	23	170	105	328	10
KWB-GTVK 2-13	13	9.56	11,200	8,000	30	190	110	391	10
KWB-GTVK 2-16	16	18.66	17,000	12,200	38	275	150	508	12

- For 2-leg slings with shortening element.

Grade 12 Sub-Assemblies



1. KWB-GTVK 4

G12 4 Leg Master Link Assembly c/w Shorteners KWB

Part Code	Size (mm)	Weight (kg)	WLL		d	t	w	e	Can be used to single hook acc. to DIN15401 no.
			up to 45° (kg)	45-60° (kg)					
KWB-GTVK 4-07	7	6.45	5,000	3,550	27	190	110	368	10
KWB-GTVK 4-08	8	6.45	6,300	4,500	27	190	110	368	10
KWB-GTVK 4-10	10	11.7	10,600	7,500	30	190	110	433	12
KWB-GTVK 4-13	13	23.84	17,000	11,800	38	275	150	616	12
KWB-GTVK 4-16	16	36.16	25,600	18,300	38	275	150	658	12

- For 3 and 4-leg slings with shortening element.

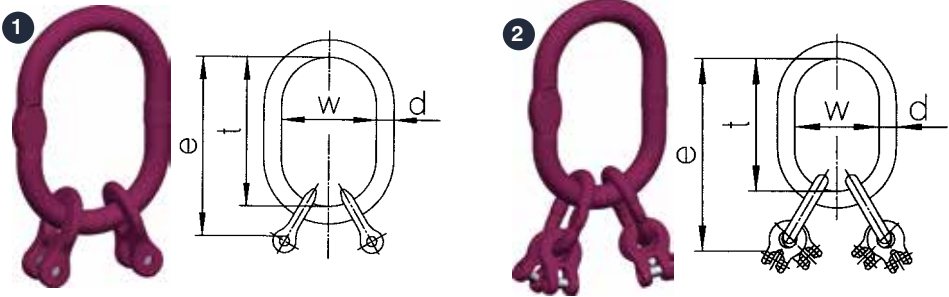
2. KWB-GTKR 1

G12 1 Leg Master Link c/w Omega Link KWB

Part Code	Size (mm)	Weight (kg)	WLL (kg)	d	t	w	e	Can be used to single hook acc. to DIN15401 no.
KWB-GTKR 1-08	8	0.89	3,000	17	140	80	183	5
KWB-GTKR 1-10	10	1.62	5,000	19	160	95	211	6
KWB-GTKR 1-13	13	3.47	8,000	27	190	110	254	10
KWB-GTKR 1-16	16	5.8	12,200	30	190	110	268	12

- For 1-leg slings.

Grade 12 Sub-Assemblies



1. KWB-GTKR 2

G12 2 Leg Master Link c/w Omega Links KWB

Part Code	Size (mm)	Weight (kg)	WLL up to 45° (kg)	WLL 45-60° (kg)	d	t	w	e	Can be used to single hook acc. to DIN15401 no.
KWB-GTKR 2-07	7	1.65	3,350	2,360	19	160	95	203	6
KWB-GTKR 2-08	8	1.65	4,250	3,000	19	160	95	203	6
KWB-GTKR 2-10	10	2.56	7,100	5,000	23	170	105	221	10
KWB-GTKR 2-13	13	4.84	11,200	8,000	30	190	110	257	10
KWB-GTKR 2-16	16	10.32	17,000	12,200	38	275	150	353	12

- For 2-leg slings.

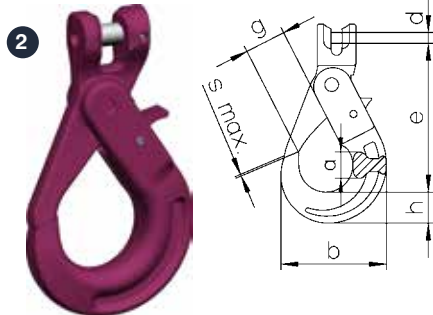
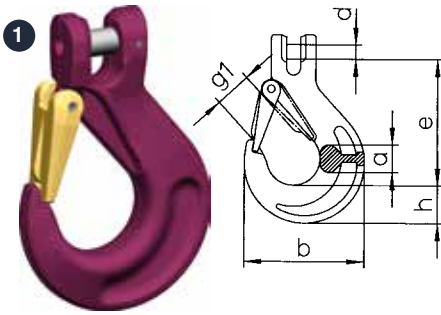
2. KWB-GTKR 4

G12 4 Leg M/Link Assembly c/w Omega Links KWB

Part Code	Size (mm)	Weight (kg)	WLL up to 45° (kg)	WLL 45-60° (kg)	d	t	w	e	Can be used to single hook acc. to DIN15401 no.
KWB-GTKR 4-07	7	4.25	5,000	3,550	27	190	110	287	10
KWB-GTKR 4-08	8	4.25	6,300	4,500	27	190	110	287	10
KWB-GTKR 4-10	10	7.34	10,600	7,500	30	190	110	326	12
KWB-GTKR 4-13	13	14.4	17,000	11,800	38	275	150	479	12
KWB-GTKR 4-16	16	19.48	25,600	18,300	38	275	150	503	12

- For 3 and 4-leg slings.

Grade 12 Sling Hooks



1. KWB-HKS G12 Clevis Sling Hook c/w Latch KWB

Part Code	Size (mm)	Weight (kg)	WLL (kg)	e	h	a	b	d	g1
KWB-HKS07	7	0.63	2,360	93	27	21	89	9,5	26
KWB-HKS08	8	0.63	3,000	92	27	21	89	11	26
KWB-HKS10	10	1.18	5,000	108	33	25	110	14	31
KWB-HKS13	13	2.35	8,000	130	41	34	132	17,5	38
KWB-HKS16	16	3.82	12,200	158	49	37	160	21	45

- General purpose hook.

2. KWB-HKSB G12 Clevis Self Locking Hook KWB

Part Code	Size (mm)	Weight (kg)	WLL (kg)	e	h	a	b	d	g	s max
KWB-HKSB07	7	0.93	2,360	125	26	21	92	9,5	32	1
KWB-HKSB08	8	0.93	3,000	124	26	21	92	11	32	1
KWB-HKSB10	10	1.60	5,000	143	31	26	115	14	45	1
KWB-HKSB13	13	3.50	8,000	183	42	35	145	17,5	54	2
KWB-HKSB16	16	6.50	12,200	218	51	41	169	21	60	2

- Closes and locks automatically.

Grade 12 Spare Parts

KWB-ID-SET

Sun Alloy Working Load Tag & Fastener

Part Code	Description
KWB-ID-SET	G12 Sun Alloy Working Load Tag & Fastner



KWB-KBG

G12 Spare Roll Pin - HKSB Hook KWB

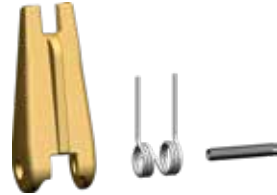
Part Code	Size (mm)	Description
KWB-KBG07	7	G12 Spare Roll Pin - 7mm HKSB Hook KWB
KWB-KBG08	8	G12 Spare Roll Pin - 8mm HKSB Hook KWB
KWB-KBG10	10	G12 Spare Roll Pin - 10mm HKSB Hook KWB
KWB-KBG13	13	G12 Spare Roll Pin - 13mm HKSB Hook KWB
KWB-KBG16	16	G12 Spare Roll Pin - 16mm HKSB Hook KWB



KWB-FG

G12 Spare Latch for HKS Hook KWB

Part Code	Size (mm)	Description
KWB-FG08	7+8	G12 Spare Latch for 7/8mm HKS Hook KWB
KWB-FG10	10	G12 Spare Latch for 10mm HKS Hook KWB
KWB-FG13	13	G12 Spare Latch for 13mm HKS Hook KWB
KWB-FG16	16	G12 Spare Latch for 16mm HKS Hook KWB



KWB-HBG

G12 Spare Trigger Kit - HKSB Hk KWB

Part Code	Size (mm)	Description
KWB-HBG08	7+8	G12 Spare Trigger Kit - 7/8mm HKSB Hk KWB
KWB-HBG10	10	G12 Spare Trigger Kit - 10mm HKSB Hk KWB
KWB-HBG13	13	G12 Spare Trigger Kit - 13mm HKSB Hk KWB
KWB-HBG16	16	G12 Spare Trigger Kit - 16mm HKSB Hk KWB



XONA™

- Lever Hoists
- Chain Blocks
- Beam Clamps
- Trolleys



Lever Hoists

Manufactured and Tested according to EN13157

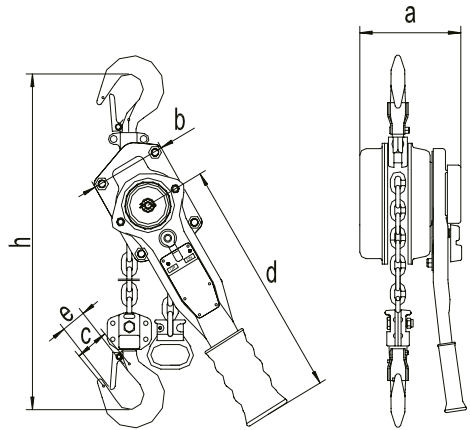
Colours Available: Black 0.75T to 3T - Blue 0.75T to 9T

Larger sizes available on request.

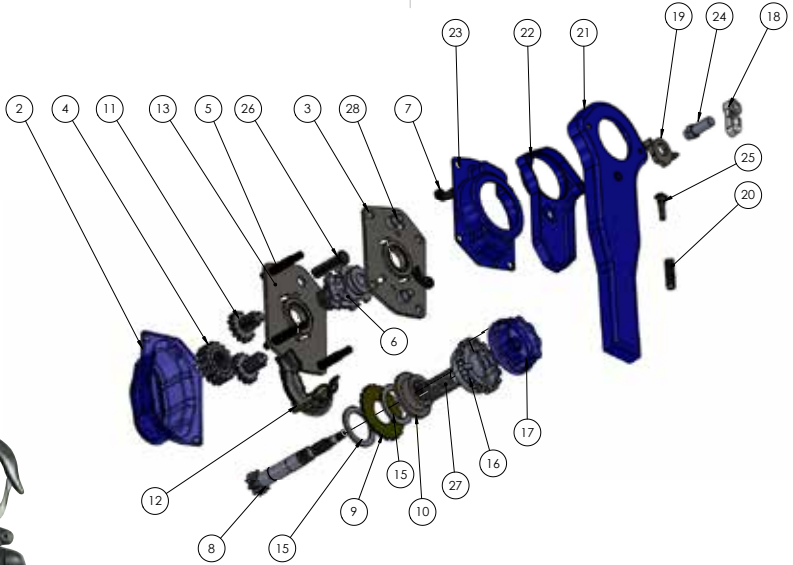
- High quality manufacture for rugged industrial performance.
- High strength, light weight cold formed steel construction giving impact resistance for longer life.
- 360° handle rotation with short stroke to quickly ratchet loads.
- Compact design for minimal effort.
- Chain guides provide smooth chain operation.
- Single hand “free chaining” is simple and convenient allowing smooth trouble free operation in the vertical or horizontal position.
- Twin pawl as standard.
- For fleeting/cross hauling. Please contact our technical department for information.
- Caged needle roller bearing on load sprocket as standard.
- Durable corrosion protection.
- Specially designed rubber grip for added operator comfort.
- Top and bottom hook housing. Bolts and nylon nuts for easy inspection.

- Forged upper and lower hooks with heavy duty cast safety latch.
- Hook overload indicator marks. For easy checking if any distortion has occurred due to misuse or overloading.
- Cast enlarged end ring.
- Overload protection limiter available on request.

EE Manufactured EN818-7 Grade - T Hoist Chain. Available in Black and Electro Galvanised.



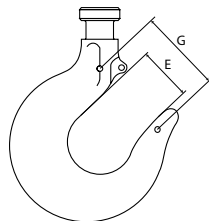
Capacity (tonnes)	0.75	1	1.5	3	6	9
Proof Load (tonnes)	1.13	1.5	2.25	4.5	9	13.5
Load Chain (mm)	6x18	6x18	8x24	10x30	10x30	10x30
No. of Falls	1	1	1	1	2	3
Pull to Rated Load (N)	150	204	193	409	420	430
A	148	128	128	5	191	191
B	144	128	148	181	244	314
C	37	45	47	62	78	78
D	256	256	268	268	268	268
G	28	33	33.5	43.5	51	64
H	295	310	335	405	550	680
Net Weight (kg)	6.9	7.1	9.7	16.3	26.7	38.5
Weight of Load Chain (kg/M)	0.75	0.75	1.42	2.075	2.075	2.075



No.	Description	QTY.	No.	Description	QTY.
1	Chain Guide	1	20	Changeover Spring	1
2	Gear Cover	1	21	Handle	1
3	Inner plate	1	22	Handle Back	1
4	Gear	1	23	Lever hoist front plate	1
5	Inner Pin	4	24	Hex Pin	1
6	Load Sheave	1	25	Changeover Stand	1
7	Pawl	2	26	Top Hook Shaft	1
8	Pinion Shaft	1	27	main spring1	1
9	Ratchet Disc	1	28	Pawl Pin	2
10	Spined flange	1			
11	Star Gear	2			
12	Stripper	1			
13	Inner plate2	1			
14	Roller Bearing	2			
15	brake pad	2			
16	Brake Hub	1			
17	Grip Ring	1			
18	Changeover Lever	1			
19	Changeover pawl	1			



Lever Hoist Hook Opening



Capacity (T)	Mouth Opening "E" (mm)	2 Points "G" (mm)
0.75	27.9±1	35.6±1
1.5	33.6±1	47.1±1
3	43.1±1.5	62.3±1.5
6	51±2	77.8±2
9	64±2	90±2

Chain Blocks

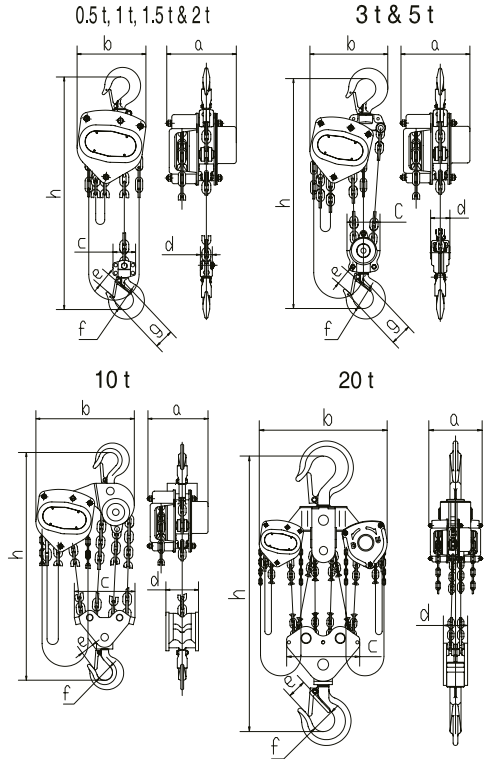
Manufactured and Tested according to EN13157

Colours Available.

Black 0.5T to 3T - Blue 0.5T to 20T

Larger sizes available on request.

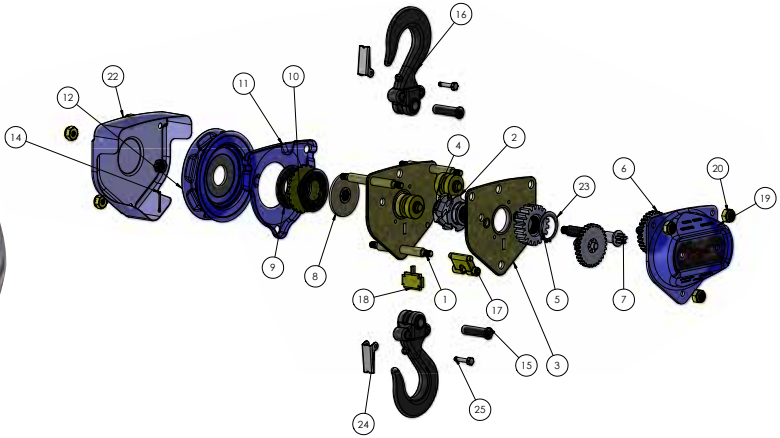
- High quality, high strength manufacture for rugged industrial performance.
- Spur gear efficiency reduces operator effort.
- Double pawl / double guide rollers enhance performance, safety and reliability.
- Caged needle roller bearing as standard.
- Durable corrosion protection.
- Top and bottom hook housing. Bolts and nylon nuts for easy inspection.
- Forged upper and lower hooks with heavy duty cast safety latch.
- Hook overload indicator marks. For easy checking if any distortion has occurred due to misuse or overloading.
- For fleeting/cross hauling. Please contact our technical department for information.
- Overload protection limiter available on request.



EE Manufactured EN818-7 Grade - T Hoist Chain.

Available in Black and Electro Galvanised.

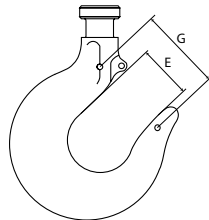
Capacity (tonnes)	0.5	1	1.5	2	3	5	10	20
Proof Load (tonnes)	0.75	1.5	2.25	3	4.5	7.5	15	30
Load Chain (mm)	5x15	6x18	8x24	8x24	8x24	10x30	10x30	10x30
No. of Falls	1	1	1	1	2	2	4	8
Pull to Rated Load (N)	250	330	340	340	350	390	410	410x2
Hand Chain	5x25x17	5x25x17	5x25x17	5x25x17	5x25x17	5x25x17	5x25x17	5x25x17
A	127	147	147	179	147	179	179	207
B	144	157	174	204	206	263	367	873
C	285	315	340	380	475	600	740	870
D	25	30	34	34	56	74	96	123
F	27	33	33.5	37	43.5	51	64	82
G	35	45	47	52	62.5	78	78	78
Net Weight (kg)	9.0	12.2	14.5	21.0	22	40.0	89.4	214.7
Weight of Load Chain (kg)M	0.54	0.75	1.42	1.42	1.42	2.075	2.075	2.075



No.	Description	QTY.	No.	Description	QTY.
1	Wheel Side Plate Assembly	1	20	M8 Nut	6
2	Load Sheave	1	21	Nylock insert	6
3	Gear Side Plate	1	22	Hand Wheel Cover	1
4	Guide Roller	2	23	circlip	1
5	Load Gear	1	24	SAFETY LATCH	2
6	Pinion Gear	2	25	Latch Pin	2
7	Overload Limiter Shaft	1			
8	Disc Hub	1			
9	Brake 2	2			
10	Ratchet Disc	1			
11	Brake Cover	1			
12	Hand Chain Wheel	1			
13	Castle Nut	1			
14	SPLIT PIN	1			
15	Top Hook Shaft	2			
16	Bottom Hook Assembly	2			
17	Chain Anchor Plate	1			
18	Stripper	1			
19	Gear Cover Assembly	1			



Chain Block Hook Opening



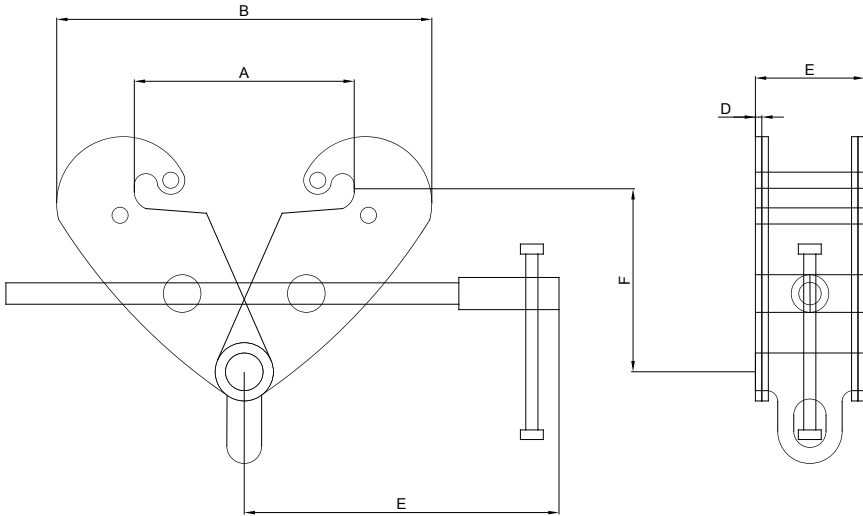
Capacity (T)	Mouth Opening "E" (mm)	2 Points "G" (mm)
0.5	26.8±1	34.6±1
1	32.7±1	45±1
2	37±1.5	52±1.5
3	43.5±1.5	62.3±1.5
5	51±2	77.8±2
10	64±2	90±2
20	82±3	Nil

Beam Clamp

Manufactured and Tested according to EN13155

Available in Black 1T to 10T.

- Complete with small shackle as standard.
- Quick and easy installation.
- Creates lifting point for use with manual hoists etc.



Capacity (tonnes)	1	2	3	5	10
Proof Load (tonnes)	1.5	3	4.5	7.5	15
I-Beam Width (mm)	76-230	75-220	73-345	72-355	86-360
A (max)	265	260	370	380	390
B (min)	184	185	220	222	234
B (max)	367	360	510	522	536
C	80	74	120	127	134
D	5	6	8	10	12
E	230	215	274	276	274
F (max)	173	155	227	222	245
F (min)	102	102	132	98	150
G	24	25	46	45	69
H	21	22	24	23.2	32.6
Weight (kg)	4	4.6	9.1	11	14.6
Weight with shackle (kg)	4.7	5.1	10.2	11.94	15.14



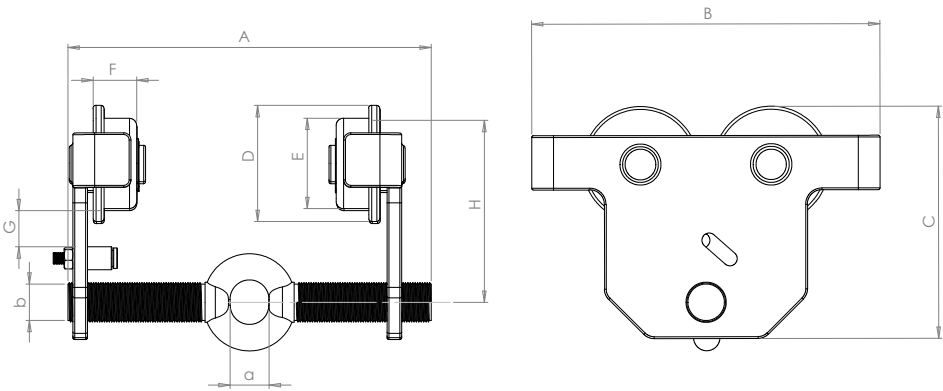
No.	Description	QTY.
1	Adjusting Screw	1
2	Long Bush	1
3	Long Pin	1
4	Long Spacer SLDPRT	2
5	Part4	4
6	Shackle	1
7	Short Pin	1
8	Sort Bush	1
9	T Bar	1
10	Short Spacer SLDPRT	2

Quick Install Push Trolley

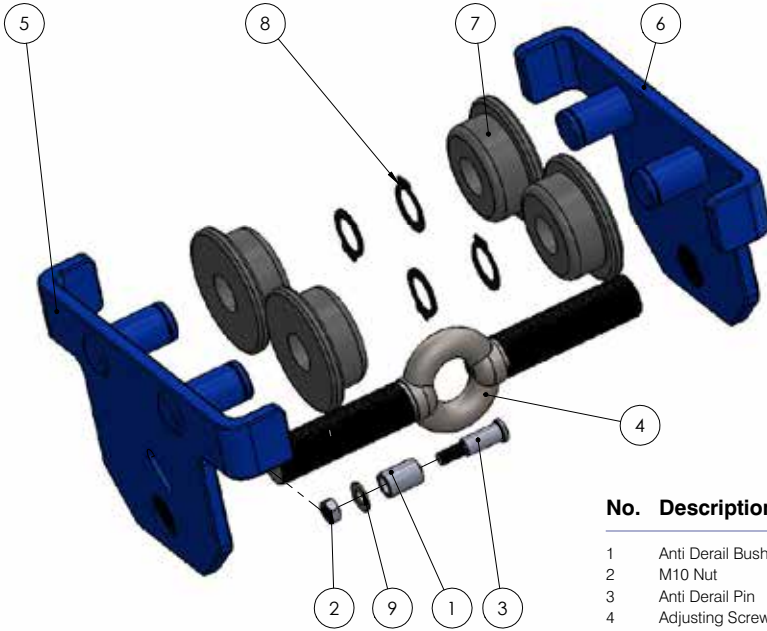
Manufactured and Tested according to EN13157

Available in Blue 0.5T to 5T.

- Easy positioning and movement of loads manually.
- Designed for quick and easy adjustment for different beam widths.
- Anti-de-rail bars fitted as standard.
- Trolley bearings are of a maintenance free type.



Capacity (tonnes)	0.5	1	2	3	5
Proof Load (tonnes)	0.75	1.5	3	4.5	7.5
I-Beam Width (mm)	52-240	60-250	68-240	75-235	90-250
A	292	306	310	332	360
B	200	240	280	335	375
C	158	185	208	248	295
D	79	93	108	129	144
E	57	68	80	100	110
F	27	30	35	39	50
G	7	8.5	10	11.5	12.5
H	65	70	75	98	100
a	24	30	35	46	50
b	27	34	46	57	62
Min. Radius Curve	1	1	1.1	1.3	1.4
Weight (kg)	4.8	8.38	13.4	22.4	36.6



No.	Description	QTY.
1	Anti Derrail Bush	1
2	M10 Nut	1
3	Anti Derrail Pin	1
4	Adjusting Screw	1
5	Trolley Side	1
6	Trolley Side2	1
7	Trolley Steel Wheel	4
8	Snap Ring	4
9	M10 Washer	1

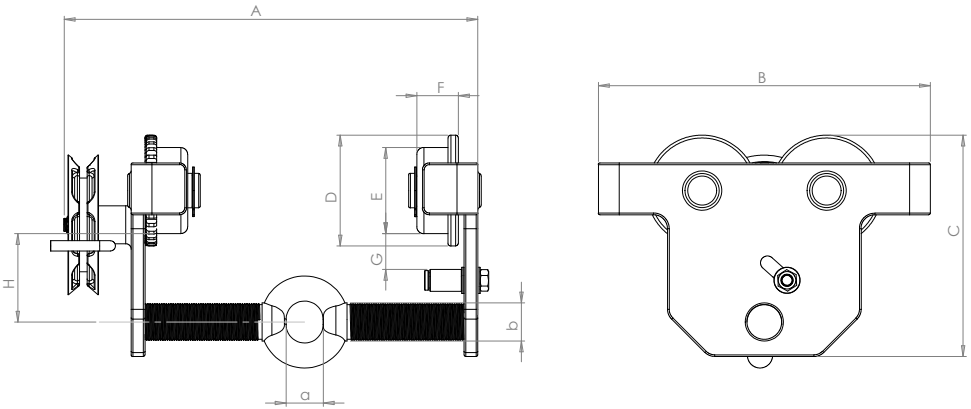


Quick Install Geared Trolley

Manufactured and Tested according to EN13157.

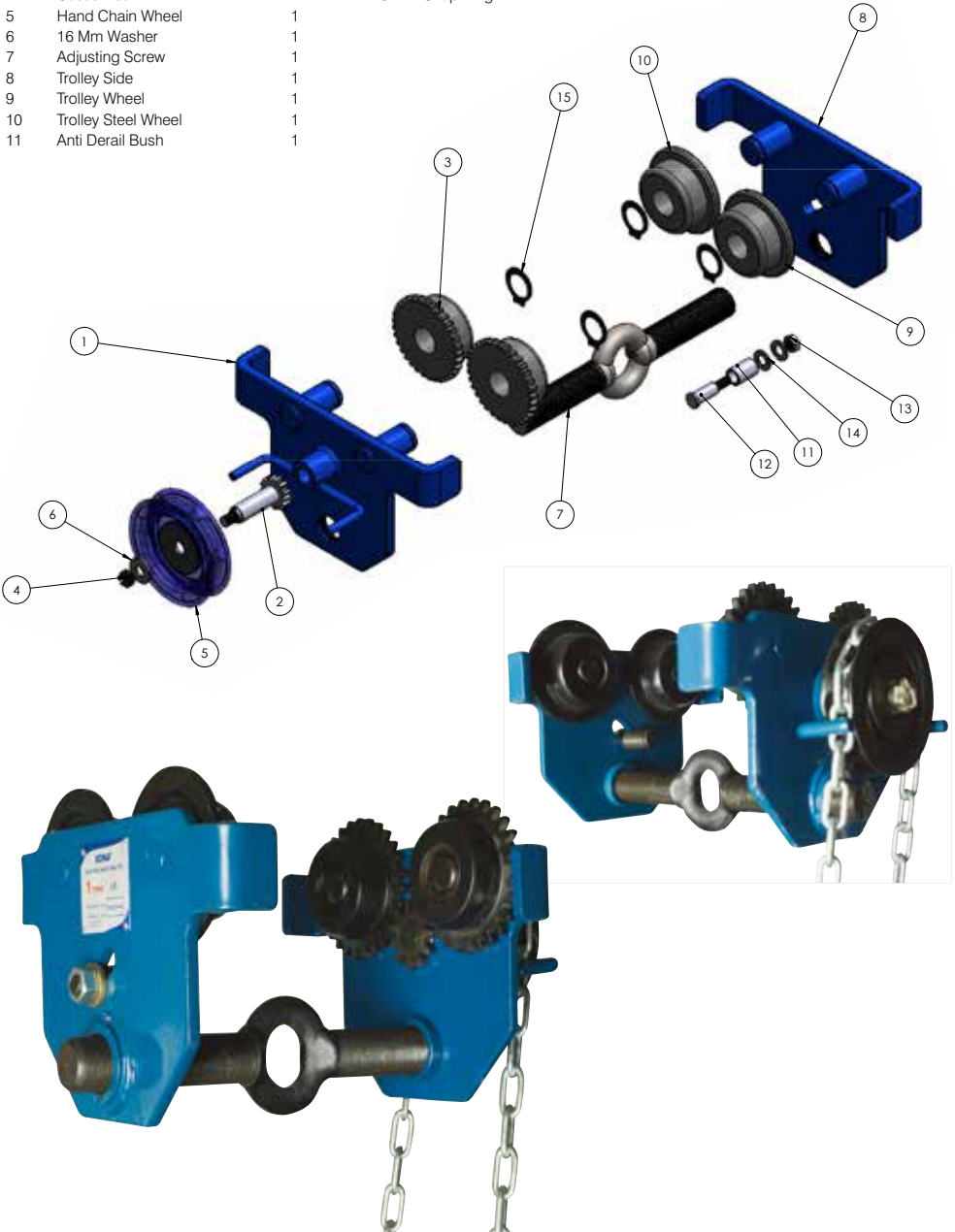
Available in Blue 1T to 5T.

- Easy positioning and movement of loads by use of hand chain operating the gear.
- Designed for quick and easy adjustment for different beam widths.
- Anti-de-rail bars fitted as standard.
- Trolley bearings are of a maintenance free type.
- Fitted with 3m of hand chain as standard.
- Longer lengths on request.



Capacity (tonnes)	1	2	3	5
Proof Load (tonnes)	1.5	3	4.5	7.5
I-Beam Width (mm)	60-240	68-240	75-235	90-250
A	362	366	380	415
B	237	279	326	375
C	181	208	248	295
D	93	108	129	144
E	67	80	100	110
F	30	35	39	50
G	8.5	10	11.5	12.5
H	70	75	98	100
a	30	35	46	50
b	34	46	55	62
Min. Radius Curve	1	1.1	1.3	1.4
Weight (kg)	12	17.2	26.7	40.4

No.	Description	QTY.	No.	Description	QTY.
1	Trolley Side Geared2	1	12	Anti Derail Pin	1
2	Gear Pawl	1	13	M10 Nut	1
3	Trolley Geared Steel Wheel	2	14	M10 Washer	2
4	Castle Nut	1	15	Snap Ring	4
5	Hand Chain Wheel	1			
6	16 Mm Washer	1			
7	Adjusting Screw	1			
8	Trolley Side	1			
9	Trolley Wheel	1			
10	Trolley Steel Wheel	1			
11	Anti Derail Bush	1			



Lever Hoists & Chain Blocks

1. XNHBLH

Lever Hoists, EN13157

- Available in Black 0.75T to 3T, Blue all sizes available, please specify.
- Load chain is available in either black or electro galvanised, please specify.

Part Code	Colour	Size (T)	Load Chain Size (mm)	Col	Spare Latches Part Code
XNHBLH00.75T	Blue	0.75	6x18	1	XNHLHSLK00.75T
XNHNHLH00.75T	Black	0.75	6x18	1	XNHLHSLK00.75T
XNHBLH01T	Blue	1	6x18	1	XNHLHSLK01T
XNHNHLH01T	Black	1	6x18	1	XNHLHSLK01T
XNHBLH01.5T	Blue	1.5	8x24	1	XNHLHSLK01.5T
XNHNHLH01.5T	Black	1.5	8x24	1	XNHLHSLK01.5T
XNHBLH03T	Blue	3	10x30	1	XNHLHSLK03T
XNHNHLH03T	Black	3	10x30	1	XNHLHSLK03T
XNHBLH06T	Blue	6	10x30	2	XNHLHSLK06T
XNHBLH09T	Blue	9	10x30	3	XNHLHSLK09T



2. XNHNCBH

Chain Block, EN13157

- Available in Black 0.5T to 3T, Blue 0.5T to 20T, please specify.
- Load chain is available in either black or electro galvanised, please specify.

Part Code	Colour	Size (T)	Load Chain Size (mm)	Col	Spare Latches Part Code
XNHBCB00.5T	Blue	0.5	5x15	1	XNHCBSLK00.5T
XNHNHCB00.5T	Black	0.5	5x15	1	XNHCBSLK00.5T
XNHBCB01T	Blue	1	6x18	1	XNHCBSLK01T
XNHNHCB01T	Black	1	6x18	1	XNHCBSLK01T
XNHBCB01.5T	Blue	1.5	8x24	1	XNHCBSLK01.5T
XNHNHCB01.5T	Black	1.5	8x24	1	XNHCBSLK01.5T
XNHBCB02T	Blue	2	8x24	1	XNHCBSLK02T
XNHNHCB02T	Black	2	8x24	1	XNHCBSLK02T
XNHBCB03T	Blue	3	8x24	2	XNHCBSLK03T
XNHNHCB03T	Black	3	8x24	2	XNHCBSLK03T
XNHBCB05T	Blue	5	10x30	2	XNHCBSLK05T
XNHBCB10T	Blue	10	10x30	4	XNHCBSLK10T
XNHBCB20T	Blue	20	10x30	8	XNHCBSLK20T

Manual Hoist Chain & Beam Clamps

XNHNMHC

Manual Hoist Chain, EN818-7 Grade T

- We would appreciate orders for a minimum of 50m.
- Load chain can be supplied in either black or electro galvanised.

Part Code	Chain
XNHNMHC05X15MM	Black, 5x15mm
XNHGMHC05x15MM	Galv., 5x15mm
XNHNMHC06X18MM	Black, 6x18mm
XNHGMHC06x18MM	Galv., 6x18mm
XNHNMHC08X24MM	Black, 8x24mm
XNHGMHC08x24MM	Galv., 8x24mm
XNHNMHC10X30M	Black, 10x30mm
XNHGMHC10x30MM	Galv., 10x30mm
XNHHANDCHAIN	Galv. Hand Chain 5x25 x 17mm
XNHCC	Galv. Hand Chain Connector



XNHBCLAMP

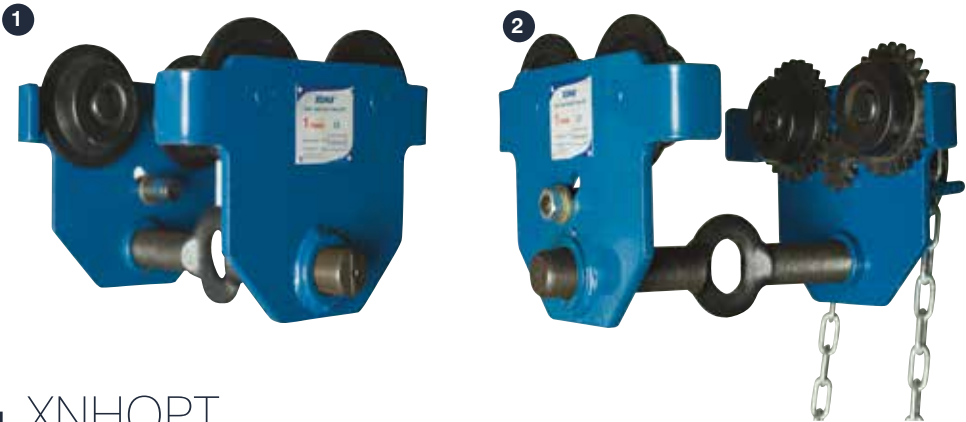
Beam Clamps with Eye, EN13155

- Available in Black

Part Code	Size (T)	Beam Width
XNHBCLAMP01T	1	76-230mm
XNHBCLAMP02T	2	75-220mm
XNHBCLAMP03T	3	73-345mm
XNHBCLAMP05T	5	72-355mm
XNHBCLAMP10T	10	86-360mm



Trollys



1. XNHQPT

Quick Install Push Trolley, EN13157

Part Code	Size (T)	Beam Width
XNHQPT00.5T	0.5	52-240mm
XNHQPT001T	1	60-250mm
XNHQPT002T	2	68-240mm
XNHQPT003T	3	75-235mm
XNHQPT005T	5	90-250mm

- Available in Blue, comes complete with Anti Drop Bars

2. XNHQPT

Quick Install Geared Trolley, EN13157

Part Code	Size (T)	Beam Width
XNHQPT01T	1	60-250mm
XNHQPT02T	2	68-240mm
XNHQPT03T	3	75-235mm
XNHQPT05T	5	90-250mm

- Available in Blue, comes complete with Anti Drop Bars.
- Comes as standard with 3m Galvanised Hand Chain, different lengths are available.

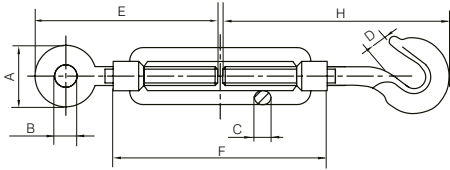
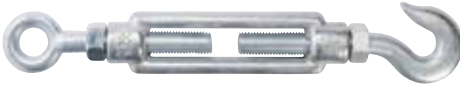
XONA™

Commercial Products

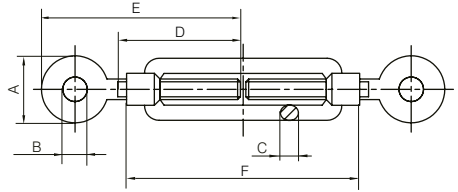
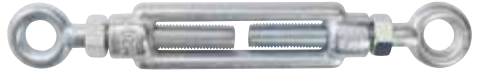


Commercial Products

1



2



1. XN1480H/E

DIN1480 Hook/Eye Turnbuckles c/w Lock Nut

- Galvanised, Complete with Fitted Lock Nuts

Part Code	Size (inch)	Weight (kg each)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
XN1480H/EM05	M5	0.05	15	8	5	7	58	70
XN1480H/EM06	M6	0.09	19	9	6	8.5	80	110
XN1480H/EM08	M8	0.17	2	11	8	11	84	110
XN1480H/EM10	M10	0.29	31	15	9	13.5	105	125
XN1480H/EM12	M12	0.43	35	17	11	15.5	115	125
XN1480H/EM16	M16	0.92	48	22	14	20	150	10
XN1480H/EM20	M20	1.69	52	24	17	21.5	163	200
XN1480H/EM22	M22	2.17	60	27	19	26	185	220
XN1480H/EM24	M24	2.83	66	27	21	26	205	255
XN1480H/EM30	M30	4.80	71	31	23	29	230	255

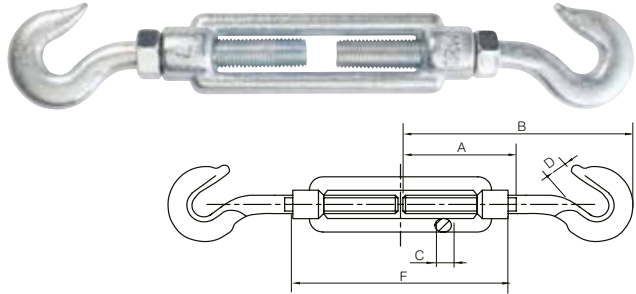
2. XN1480E/E

DIN1480 Eye/Eye Turnbuckles c/w Lock Nut

- Galvanised, Complete with Fitted Lock Nuts

Part Code	Size (inch)	Weight (kg each)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
XN1480E/EM05	M5	0.05	15	8	5	35	58	70
XN1480E/EM06	M6	0.09	19	9	6	55	80	110
XN1480E/EM08	M8	0.17	2	11	8	55	84	110
XN1480E/EM10	M10	0.29	31	15	9	63	105	125
XN1480E/EM12	M12	0.43	35	17	11	68	115	125
XN1480E/EM16	M16	0.92	48	22	14	85	150	170
XN1480E/EM20	M20	1.69	52	24	17	100	163	200
XN1480E/EM22	M22	2.17	60	27	19	110	185	220
XN1480E/EM24	M24	2.83	66	27	21	128	205	255
XN1480E/EM30	M30	4.80	71	31	23	128	230	255

Commercial Products



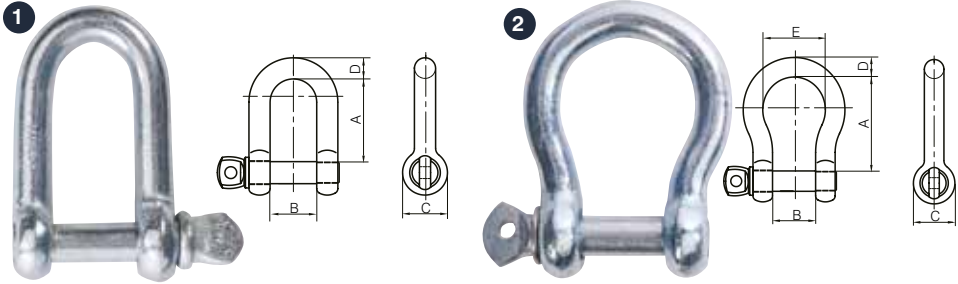
XN1480H/H

DIN1480 Hook/Hook Turnbuckles c/w Lock Nut

- Galvanised, Complete with Fitted Lock Nuts

Part Code	Size (inch)	Weight (kg each)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)
XN1480H/HM05	M5	0.05	35	62	5	7	70
XN1480H/HM06	M6	0.09	55	87	6	8.5	110
XN1480H/HM08	M8	0.17	55	95	8	11	110
XN1480H/HM10	M10	0.29	63	118	9	13.5	125
XN1480H/HM12	M12	0.43	68	125	11	15.5	125
XN1480H/HM16	M16	0.92	85	164	14	20	10
XN1480H/HM20	M20	1.69	100	196	17	21.5	200
XN1480H/HM22	M22	2.17	110	214	19	26	220
XN1480H/HM24	M24	2.83	128	236	21	26	255
XN1480H/HM30	M30	4.80	12	264	23	29	255

Commercial Products



1. XNCDS

Commercial 'D' Shackles

Part Code	Size (mm)	Weight (kg each)	A (mm)	B (mm)	C (mm)
XNCDS05MM	5	0.01	20	10	10
XNCDS06MM	6	0.02	24	12	12
XNCDS08MM	8	0.05	32	16	16
XNCDS10MM	10	0.09	40	20	20
XNCDS11MM	11	0.14	44	22	22
XNCDS12MM	12	0.18	48	24	24
XNCDS14MM	14	0.29	56	28	28
XNCDS16MM	16	0.43	64	32	32
XNCDS20MM	20	0.78	76	40	40
XNCDS22MM	22	1.15	88	44	44
XNCDS25MM	25	1.80	100	50	50
XNCDS28MM	28	2.36	112	56	56
XNCDS32MM	32	3.60	128	64	64
XNCDS38MM	38	6.20	152	76	76

- Galvanised

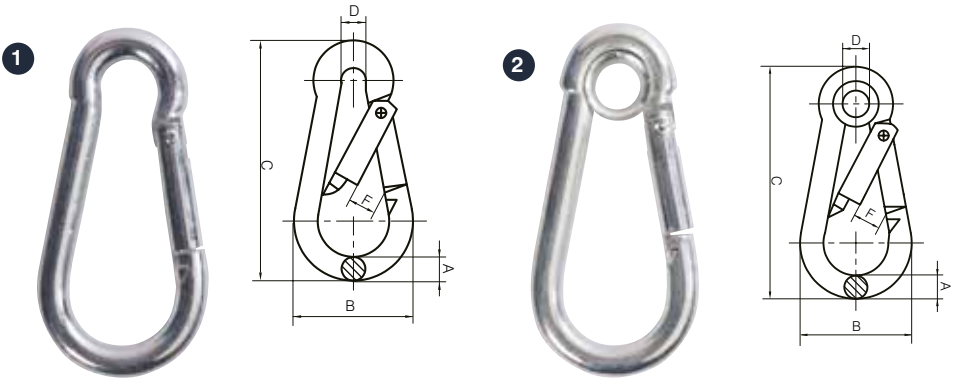
2. XNCBS

Commercial Bow Shackles

Part Code	Size (mm)	Weight (kg each)	A (mm)	B (mm)	C (mm)	E (mm)
XNCBS05MM	5	0.02	20	10	10	15
XNCBS06MM	6	0.03	24	12	12	18
XNCBS08MM	8	0.05	32	16	16	24
XNCBS10MM	10	0.10	40	20	20	30
XNCBS11MM	11	0.15	44	22	22	34
XNCBS12MM	12	0.19	48	24	24	36
XNCBS14MM	14	0.30	56	28	28	42
XNCBS16MM	16	0.47	64	32	32	48
XNCBS20MM	20	0.85	76	40	40	60
XNCBS22MM	22	1.20	88	44	44	66
XNCBS25MM	25	1.90	100	50	50	75
XNCBS28MM	28	2.50	112	56	56	84
XNCBS32MM	32	3.70	128	64	64	96
XNCBS38MM	38	6.60	152	76	76	118

- Galvanised

Commercial Products



1. XNGSH Snap Hooks

Part Code	Size (mm)	Weight (kg per 100)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)
XNGSH04x40	4x40	0.80	4	20	40	7	7
XNGSH05x50	5x50	1.50	5	25	50	8	7
XNGSH06x60	6x60	2.60	6	30	60	9	8
XNGSH07x70	7x70	4.10	7	35	70	10	8
XNGSH08x80	8x80	6.00	8	40	80	12	9
XNGSH09x90	9x90	9.00	9	45	90	12	10
XNGSH10x100	10x100	12.00	10	50	100	15	11
XNGSH11x120	11x120	18.40	11	57	120	18	16
XNGSH12x140	12x140	25.00	12	67	140	20	19
XNGSH13x160	13x160	34.00	13	74	160	22	25
XNGSH14x180	14x180	44.50	14	86	180	22	35

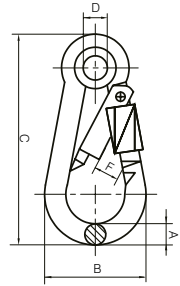
- Galvanised

2. XNGSHE Snap Hooks with Eyelet

Part Code	Size (mm)	Weight (kg per 100)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)
XNGSHE04x40	4x40	0.90	4	20	40	5	7
XNGSHE05x50	5x50	2.00	5	25	50	5	7
XNGSHE06x60	6x60	3.00	6	30	60	5	8
XNGSHE07x70	7x70	5.00	7	35	70	7	8
XNGSHE08x80	8x80	7.50	8	40	80	10	9
XNGSHE09x90	9x90	9.80	9	45	90	10	10
XNGSHE10x100	10x100	13.50	10	50	100	13	11
XNGSHE11x120	11x120	21.00	11	57	120	13	16
XNGSHE12x140	12x140	27.50	12	67	140	15	19
XNGSHE13x160	13x160	40.00	13	74	160	17	25
XNGSHE14x180	14x180	48.50	14	86	180	17	35

- Galvanised

Commercial Products



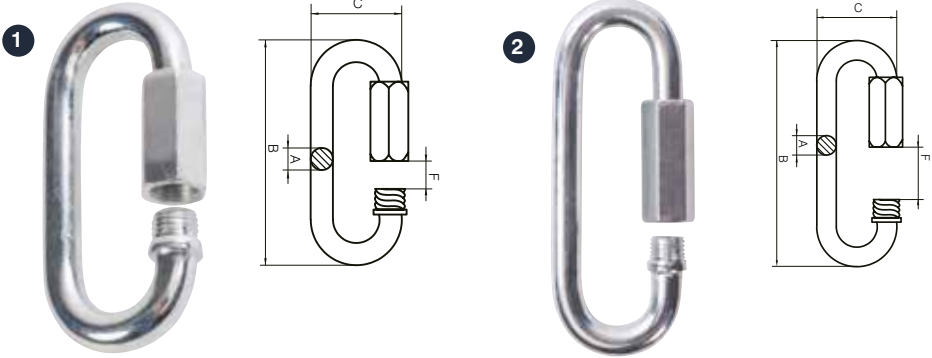
XNGSGE

Snap Hooks with Eyelet & Screw Gate

Part Code	Size (mm)	Weight (kg per 100)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)
XNGSGE05x50	5x50	2.10	5	25	50	5	7
XNGSGE06x60	6x60	3.20	6	30	60	5	8
XNGSGE07x70	7x70	5.00	7	35	70	7	8
XNGSGE08x80	8x80	7.70	8	40	80	10	9
XNGSGE09x90	9x90	9.90	9	45	90	10	10
XNGSGE10x100	10x100	16.20	10	50	100	13	11
XNGSGE11x120	11x120	22.00	11	57	120	13	16
XNGSGE12x140	12x140	28.50	12	67	140	15	19
XNGSGE13x160	13x160	42.00	13	74	160	17	25

- Galvanised

Commercial Products



1. XNGQL Standard Quick Links

Part Code	Size A (mm)	Weight (kg per 100)	B (mm)	C (mm)	F (mm)
XNGQL03.5MM	3.5	0.80	36.5	17	5
XNGQL05MM	5	2.00	49	23	6.5
XNGQL06MM	6	3.10	58	26.5	7.5
XNGQL08MM	8	7.30	75	33.5	10.5
XNGQL09MM	9	10.00	82	35	11.5
XNGQL10MM	10	12.40	90	40.5	12.5
XNGQL12MM	12	25.00	107	47.5	14.5
XNGQL16MM	16	53.00	125	54.5	17

- Galvanised

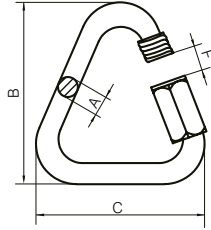
2. XNGWQL Wide Jaw Quick Links

Part Code	Size A (mm)	Weight (kg per 100)	B (mm)	C (mm)	F (mm)
XNGWQL03.5MM	3.5	1.02	47	17	10
XNGWQL05MM	5	2.44	62	23	14
XNGWQL06MM	6	3.79	72	26.5	16
XNGWQL08MM	8	8.50	90	33.5	18

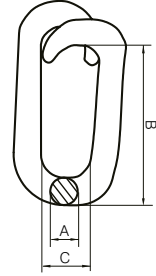
- Galvanised

Commercial Products

1



2



1. XNGDL Delta Links

Part Code	Size A (mm)	Weight (kg per 100)	B (mm)	C (mm)	F (mm)
XNGDL03.5MM	3.5	0.95	37	31	5
XNGDL05MM	5	2.28	47	40	6
XNGDL06MM	6	3.65	56	47	7.5
XNGDL08MM	8	8.38	73	56	10
XNGDL10MM	10	14.75	87	66	12
XNGDL12MM	12	23.40	104	75	15

- Galvanised

2. XNGRLL Repair Lap Link

Part Code	Size A (mm)	Weight (kg per 100)	B (mm)	C (mm)
XNGRLL04MM	4	0.70	20	8
XNGRLL05MM	5	1.30	23	10
XNGRLL06MM	6	2.20	29	11
XNGRLL08MM	8	4.70	37	15
XNGRLL10MM	10	9.50	38	17

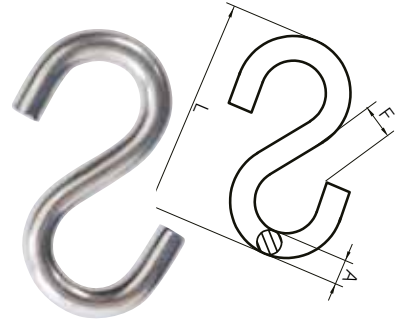
- Galvanised

Commercial Products

XNGHS S Hooks

- Galvanised

Part Code	Size A (mm)	Weight (kg per 100)	L (mm)	F (mm)
XNGHS03MM	3	0.29	25	3
XNGHS04MM	4	0.73	35	4.5
XNGHS05MM	5	1.06	45	6.5
XNGHS06MM	6	2.27	55	7
XNGHS07MM	7	4.66	65	8
XNGHS08MM	8	6.75	75	10
XNGHS10MM	10	12.60	105	11
XNGHS12MM	12	15.00	120	13.5



XNGSH Simplex Hooks

- Galvanised

Part Code	Size (mm)	Weight (kg per 100)
XNGSH025MM	25	0.14
XNGSH030MM	30	0.16
XNGSH040MM	40	0.33
XNGSH050MM	50	0.55
XNGSH060MM	60	0.81
XNGSH070MM	70	1.42
XNGSH080MM	80	1.85
XNGSH12MM	12	15.00



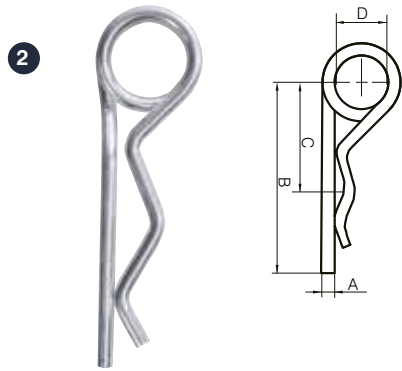
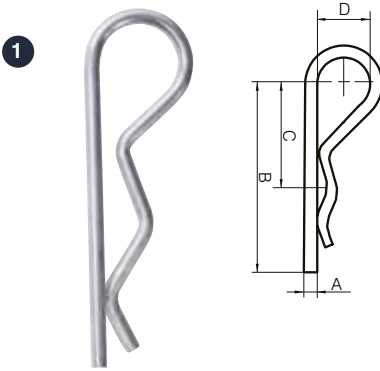
XNGSSH Simplex Swivel Hooks

- Galvanised

Part Code	Size (mm)	Weight (kg per 100)
XNGSSH025MM	25	0.38
XNGSSH030MM	30	0.38
XNGSSH040MM	40	0.59
XNGSSH050MM	50	0.93
XNGSSH060MM	60	1.25
XNGSSH070MM	70	2.13
XNGSSH080MM	80	2.95
XNGSSH090MM	90	4.24



Commercial Products



1. XNGHP Hair Spring Pin

Part Code	Size A (mm)	Weight (kg per 100)	B (mm)	C (mm)	F (mm)
XNGHP02MM	2	0.22	50	25	10
XNGHP03MM	3	0.70	60	28	18
XNGHP04MM	4	1.65	60	30	20
XNGHP05MM	5	2.70	85	40	24
XNGHP06MM	6	4.80	105	50	30
XNGHP07MM	7	7.10	105	50	30
XNGHP08MM	8	8.30	110	55	30
XNGQL16MM	16	53.00	125	54.5	17

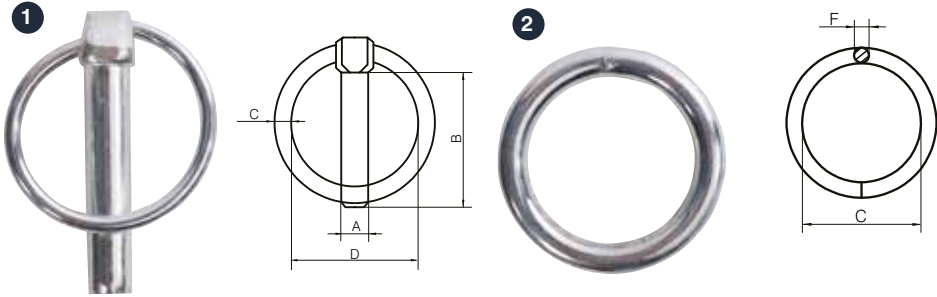
- Galvanised

2. XNGHPE Hair Spring Pin with Eyelet

Part Code	Size A (mm)	Weight (kg per 100)	B (mm)	C (mm)	F (mm)
XNGHPE02MM	2	0.33	50	25	10
XNGHPE03MM	3	1.24	62	32	18
XNGHPE04MM	4	2.44	78	44	20
XNGHPE05MM	5	4.88	92	50	24
XNGHPE06MM	6	8.82	120	70	30
XNGHPE07MM	7	10.34	130	72	30
XNGHPE08MM	8	16.00	130	76	30
XNGQL16MM	16	53.00	125	54.5	17

- Galvanised

Commercial Products



1. XNGHLP Lynch Pins

Part Code	Size A (mm)	Weight (kg per 100)	B (mm)	C (mm)	D (mm)
XNGLP04.5MM	4.5	1.20	30	2	22
XNGLP05MM	5	1.50	40	2.5	24
XNGLP06MM	6	2.40	45	3	25
XNGLP08MM	8	2.90	45	3.5	34
XNGLP09MM	9	4.00	46	3.5	34
XNGLP10MM	10	4.50	46	3.5	34
XNGLP11MM	11	5.00	46	3.5	34
XNGQL16MM	16	53.00	125	54.5	17

- Galvanised

2. XNGRRW Welded Round Ring

Part Code	Size (mm)	Weight (kg per 100)	F (mm)	C (mm)
XNGRRW04MM	4x25	0.85	4	25
XNGRRW05MM	5x50	2.50	5	50
XNGRRW06MM	6x40	3.10	6	40
XNGRRW07MM	7x35	3.70	7	35
XNGRRW08MM	8x50	6.80	8	50
XNGRRW10MM	10x50	11.10	10	50

- Galvanised

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