wire rope end connections

product information

Sockets

Open Spelter Sockets Closed Spelter Sockets Carbon Steel Sleeves
Short Bow Sockets Fast Connector Sockets Open Wedge Sockets
Closed Wedge Sockets Open Swage Sockets Closed Swage Sockets

The quality name for the lifting- and wire rope industry

Bridg industry Offshore equip ipment
Dredg stry Mooring systems C Cranes

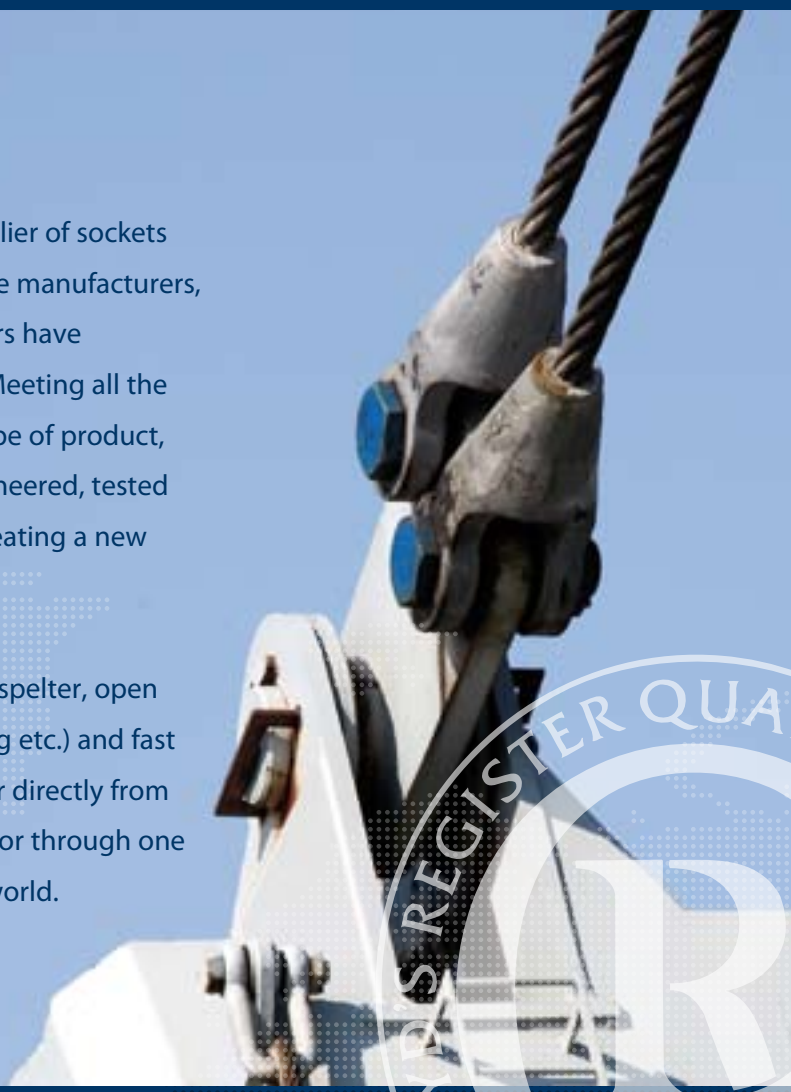
ROPEBLOCK

the quality

Ropeblock

Ropeblock is a leading manufacturer and supplier of sockets for the wire rope industry. The major wire rope manufacturers, fabricators, users and OEM crane manufacturers have Ropeblock as their preferred socket supplier. Meeting all the standard dimensional requirements for this type of product, Ropeblock sockets have been calculated, engineered, tested and discussed with our customers. In effect creating a new standard of quality by evolution.

Our range of sockets include open and closed spelter, open and closed wedge, short bow (mooring, towing etc.) and fast connector sockets, which are distributed either directly from our main plant in Oldenzaal, The Netherlands, or through one of our distributing partners in all parts of the world.



ROPEBLOCK

the quality

Ropeblock, your partner for standard and custom designed sockets

Research and design

Ropeblock's engineering department is continuously researching the limits and limitation of socket design, material usage etc. These extensive studies have led to industry leading designs, and technical publications in industry recognized and trend-setting magazines.

Material

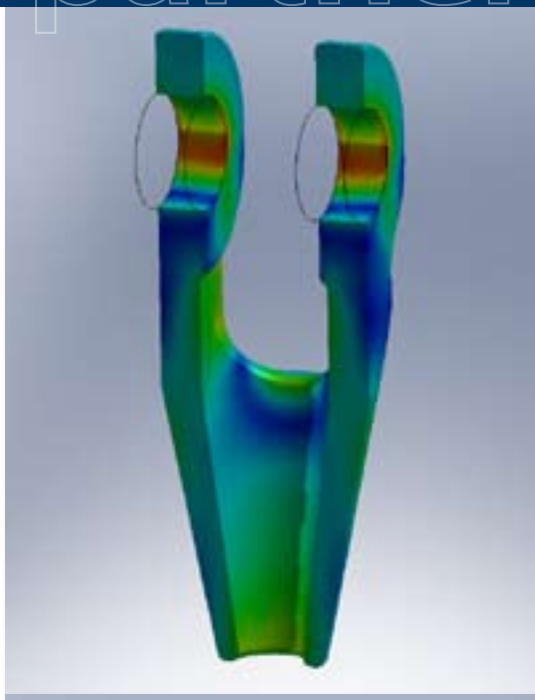
Our standard socket range is available in cast alloy steel with high mechanical properties. The shortbow range (SBS, pg 11) is made of high alloy cast steel with extremely high mechanical properties. All our sockets are suitable for usage in a sub-zero temperature environment. Materials meet or exceed the requirements of an impact value of > 42 Joule / -20°C Charpy-V.

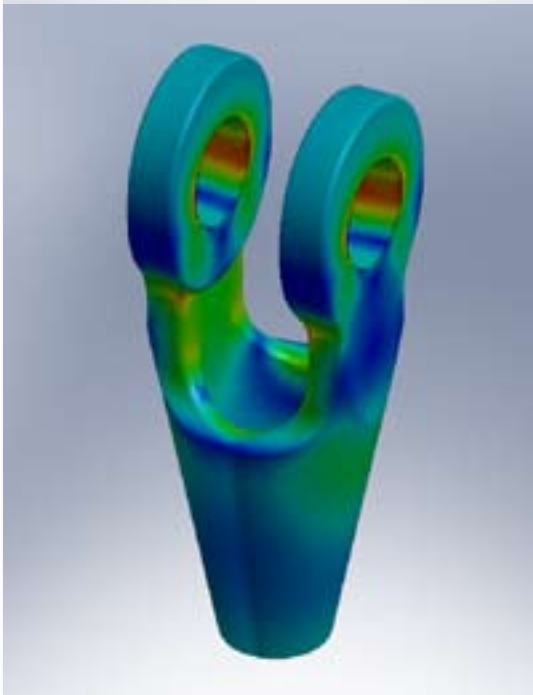
Testing

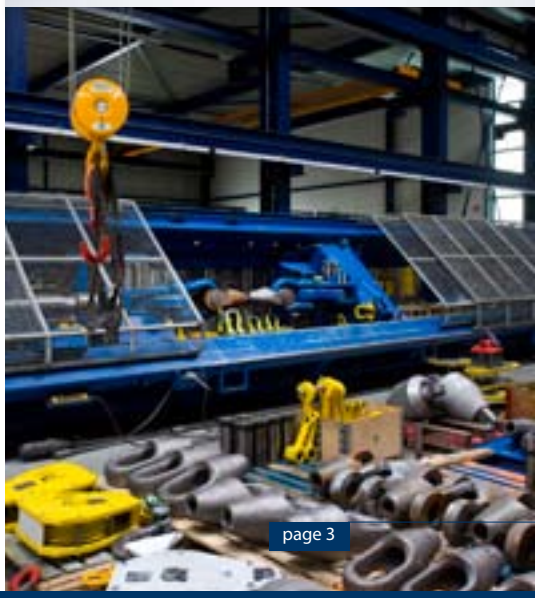
Sockets can be proof loaded in accordance with the Ropeblock testing program, this implies testing up to 30% of the MBL of the socket. Higher proof loads are available upon request. In house access to a vertical socket test bed, as well as a horizontal general-purpose test bed is available to ensure fast reaction time.

Quality

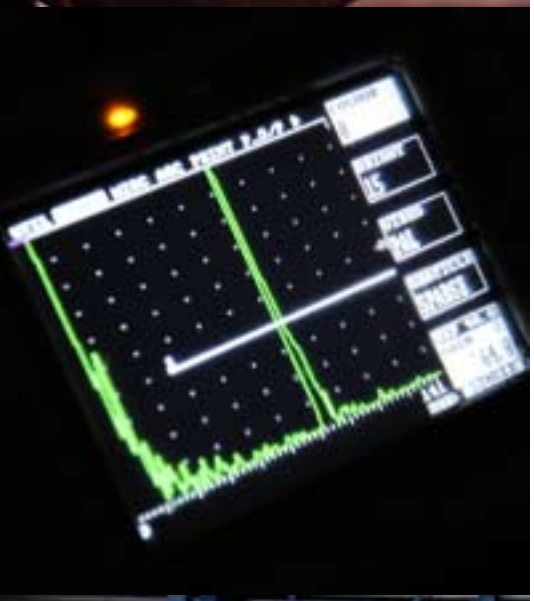
The Quality Management System of Ropeblock has been certified in accordance with ISO 9001:2008. This, together with a dedicated team of QA/QC professionals, ensures a consistent quality of product and service.







SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS



Certificates and documents

Upon request, all sockets can be supplied with any of the following documents:

- 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 test certificate according to ILO convention No. 152
- NDE inspection reports
- Inspection certificate issued by official classification or inspection agencies

ABS

and many more...

Finish / Stock

All Wedge, Spelter and Fast Connector sockets are finished with a Ropeblock-blue coating, or a hot dip galvanized finish. Swage sockets and sleeves are available in a variation of colour and finish. Sockets are available from stock to ensure fast deliveries. Our global distribution network enables customers world-wide, fast access to Ropeblock Sockets.

Special requirements

Our engineers are ready to work on any special requirements you may have. Advanced 3D CAD and FEM techniques will help to decrease the time to market of new innovative socket designs. Visit our website **www.ropeblock.com** for more details, or contact your sales representative directly.

SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS

Open and Closed Spelter Sockets

Alloy cast steel range with high mechanical values, for low temperature use. For wire rope diameter 8 - 130 mm (1/4" - 5"), socket pin locked by split or nut. Optional is a flange connection for use with a bend stiffener.

Short Bow Sockets

The "ultimate" socket for dynamic loads. Towing lines, anchor lines, chain-rope connections used by major offshore contractors. High-alloy cast steel with extremely high mechanical values.

Fast Connector Sockets

Specially designed for fast reeving in Mobile and Crawler Crane applications. Fast connector sockets have 100% efficiency. Sockets and buttons are re-usable.

Spin Resistant Connector available

Open and Closed Wedge Sockets

Quick detachable socket range for wire rope diameter 7 - 86 mm (5/16" - 3-3/8"). Basket and wedge in alloy cast steel.

Open and Closed Swage Sockets

Swage sockets are recommended for use with 6x19 or 6x37 IWRC regular lay ropes and also suffice for galvanized bridge rope. They are ***not recommended*** for use with fiber core ropes.

Carbon Steel Sleeves

These sleeves are an excellent choice for flemish eye rope terminations. Note that proper swaging practices are the sling manufacturer's responsibility.

For wire rope Ø		Approximate resin volume
mm	inch	cc
11 - 13	1/2	35
14 - 16	5/8	50
18 - 19	3/4	80
20 - 22	7/8	120
23 - 26	1	160
27 - 30	1 1/8	220
31 - 36	1 1/2 - 1 3/8	350
37 - 39	1 1/2	425
40 - 42	1 5/8	500
43 - 48	1 3/4 - 1 7/8	700
49 - 54	2 - 2 1/8	1200
55 - 60	2 1/4 - 2 3/8	1450
61 - 68	2 1/2 - 2 5/8	1850
69 - 75	2 3/4 - 2 7/8	2250
76 - 80	3 - 3 1/8	3500
81 - 86	3 1/4 - 3 3/8	4000
87 - 93	3 1/2 - 3 5/8	5000
94 - 102	3 3/4 - 4	7500
108 - 115	4 1/4 - 4 1/2	10500
120 - 130	4 3/4 - 5	14000

Required resin volume for socketing wire rope terminations

WARNINGS

- Always carry out a visual inspection before using a socket and pin.
- Never use a part showing cracks.
- Do not side-load a socket.
- Repairs are not allowed, for any repairs contact your supplier.
- Never shock-load a socket.

Warning and application instructions

General

Ropeblock sockets are the safest and best choice for your wire rope termination application. However, some safety measures should be taken into account when using our sockets. The most important measures can be found below.

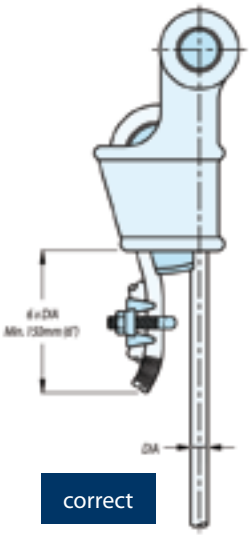
Spelter Sockets

- Proper spelter socket terminations have an efficiency equal to the breaking load of the wire. This can be limited by the minimum breaking load of the socket (MBL), as mentioned in the tables.
- Please read the instructions of the resin manufacturer carefully before use. Incorrect use of the resin or spelter material can result in an unsafe termination. More information can also be obtained from your wire rope supplier.
- Always remove any dirt and grease from the wire rope broom and socket basket.
- Ensure that the broomed wires are evenly spaced in the basket and that the wire and basket are aligned with each other.
- When using white metal or zinc, do not preheat the socket to more than 300°C (570°F).
- Make sure the base of the socket is properly sealed. This to prevent resin leakage, which may cause voids.
- Never use an assembly before the resin is fully hardened.
- Socketing should always be carried out by a qualified person.
- Due to the continuous improvements of our products, we reserve the right to change specifications accordingly.

Warning and application instructions

Wedge Sockets

- Always mount the loaded part of the wire in the centre line of the pin (see figures).
- Secure the dead end with a wire rope clip.
- Do not attach the loaded wire to the dead end.
- The dead end should have a length of 6 times the wire diameter with a minimum of 150 mm.
- Inspect after the first load that the wire rope and wedge are fully seated.
- A load may slip if the connection is not properly installed.
- Inspect the connection regularly.
- The efficiency of a 6 and 8 strand wire rope/wedge socket connection is 80% of the minimum breaking load of the wire but limited to the minimum breaking load of the socket (MBL).



correct

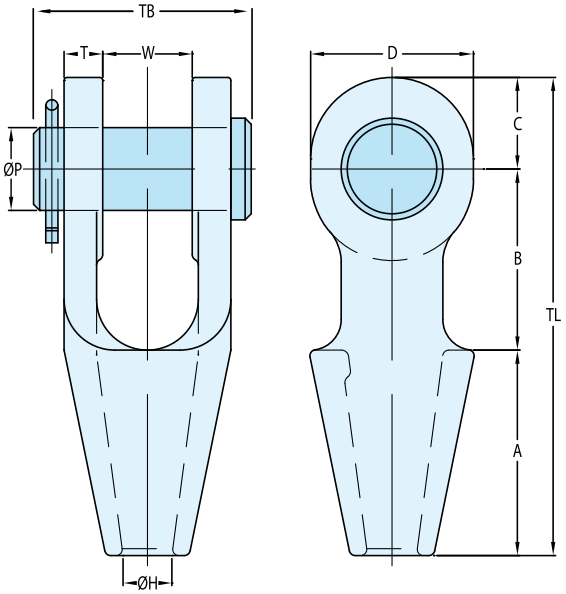
incorrect

Swage Sockets and Sleeves

- Swage sockets are recommended for use with 6x19 or 6x37 IWRC regular lay ropes.
  They also suffice for galvanized bridge rope.
  They are not recommended for use on fibre core ropes or long lay ropes.
- Proper swaging methods must be followed for all swage sockets and sleeves.
  Multiple progressive pressings are required to prevent flash, which could develop into a permanent mark or possibly a crack in the sleeve.
- A light oil lubricant should be applied to each die and wiped clean after swaging.
- For swaging practice details contact the die manufacturer.
- Properly applied swage sockets have an efficiency rating of 100%. This rating is based on the catalogue strength of wire rope.
- Caution: Proper swaging practices are the sling manufacturer's responsibility.

incorrect

Alloy cast steel **Open spelter sockets with pin**

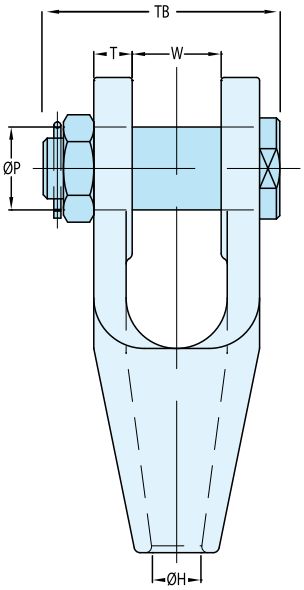


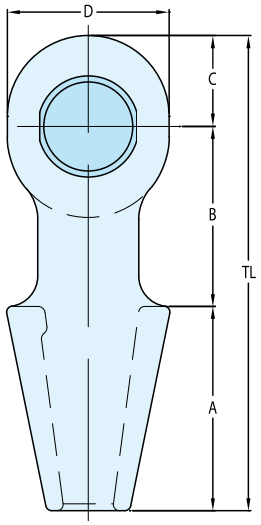
Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)										Weight (kg)
		mm	inch	A	B	C	D	Ø H	Ø P	T	TL	TB	W	
OSS 196 P	8	6 - 7	1/4	50	40	19	34	8.5	16	9	109	51	19	0.4
OSS 197 P	12	8 - 10	3/8	57	45	22	42	12	20.6	11	124	63	21	0.8
OSS 198 P	20	11 - 13	7/16 - 1/2	63.5	51	27	50	14	25	12	142	67	25	1
OSS 199 P	25	14 - 16	9/16 - 5/8	76	63	32	58	17.5	30	14	171	85	32	1.8
OSS 100 P	40	18 - 19	3/4	89	76	40	70	21	35	16	205	95	38	3.2
OSS 104 P	55	20 - 22	7/8	101	89	45	80	24	41	19	235	110	44	4.6
OSS 108 P	75	23 - 26	1	114	101	60	104	28	51	22	275	128	51	8
OSS 111 P	90	27 - 30	1 1/8	127	114	65	114	32	57	25	306	142	57	12
OSS 115 P	125	31 - 36	1 1/4 - 1 3/8	139	127	72	126	38	63	28	338	155	63	16
OSS 118 P	150	37 - 39	1 1/2	152	162	80	142	41	70	30	394	177	76	23
OSS 120 P	170	40 - 42	1 5/8	165	165	88	156	44	76	33	418	187	76	27
OSS 125 P	225	43 - 48	1 3/4 - 1 7/8	190	178	100	176	51	89	39	468	215	89	41
OSS 128 P	280	49 - 54	2 - 2 1/8	216	228	108	194	57	95	46	552	244	101	58
OSS 130 P	360	55 - 60	2 1/4 - 2 3/8	228	250	120	210	63	108	53	598	275	113	85
OSS 132 P	425	61 - 68	2 1/2 - 2 5/8	248	273	133	236	73	121	60	654	300	127	118
OSS 135 P	460	69 - 75	2 3/4 - 2 7/8	279	279	138	240	79	127	73	696	335	133	155
OSS 138 P	560	76 - 80	3 - 3 1/8	305	286	146	252	86	133	76	737	355	146	173
OSS 140 P	625	81 - 86	3 1/4 - 3 3/8	330	298	160	290	92	140	79	788	375	159	230
OSS 142 P	720	87 - 93	3 1/2 - 3 5/8	356	318	178	320	99	152	83	852	400	171	265
OSS 144 P	875	94 - 102	3 3/4 - 4	381	343	190	350	108	178	89	914	435	191	370
OSS 146 P	1200	108 - 115	4 1/4 - 4 1/2	450	480	215	400	125	195	100	1145	465	205	525
OSS 150 P	1300	120 - 130	4 3/4 - 5	500	500	250	450	143	220	110	1250	525	225	735

MBL = Minimum Breaking Load.
Our standard sockets are delivered in blue colour paint. 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.

SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS

Alloy cast steel **Open spelter sockets with bolt and nut**





Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)										Weight (kg)
		mm	inch	A	B	C	D	Ø H	Ø P	T	TL	TB	W	
OSS 196 B	8	6 - 7	1/4	50	40	19	34	8.5	16	9	109	62	19	0.4
OSS 197 B	12	8 - 10	3/8	57	45	22	42	12	20.6	11	124	75	21	0.8
OSS 198 B	20	11 - 13	7/16 - 1/2	63.5	51	27	50	14	25	12	142	80	25	1
OSS 199 B	25	14 - 16	9/16 - 5/8	76	63	32	58	17.5	30	14	171	96	32	1.8
OSS 100 B	40	18 - 19	3/4	89	76	40	70	21	35	16	205	107	38	3.2
OSS 104 B	55	20 - 22	7/8	101	89	45	80	24	41	19	235	123	44	4.6
OSS 108 B	75	23 - 26	1	114	101	60	104	28	51	22	275	138	51	8
OSS 111 B	90	27 - 30	1 1/8	127	114	65	114	32	57	25	306	160	57	12
OSS 115 B	125	31 - 36	1 1/4 - 1 3/8	139	127	72	126	38	63	28	338	165	63	16
OSS 118 B	150	37 - 39	1 1/2	152	162	80	142	41	70	30	394	201	76	23
OSS 120 B	170	40 - 42	1 5/8	165	165	88	156	44	76	33	418	209	76	27
OSS 125 B	225	43 - 48	1 3/4 - 1 7/8	190	178	100	176	51	89	39	468	237	89	41
OSS 128 B	280	49 - 54	2 - 2 1/8	216	228	108	194	57	95	46	552	263	101	58
OSS 130 B	360	55 - 60	2 1/4 - 2 3/8	228	250	120	210	63	108	53	598	298	113	85
OSS 132 B	425	61 - 68	2 1/2 - 2 5/8	248	273	133	236	73	121	60	654	330	127	118
OSS 135 B	460	69 - 75	2 3/4 - 2 7/8	279	279	138	240	79	127	73	696	359	133	155
OSS 138 B	560	76 - 80	3 - 3 1/8	305	286	146	252	86	133	76	737	380	146	173
OSS 140 B	625	81 - 86	3 1/4 - 3 3/8	330	298	160	290	92	140	79	788	397	159	230
OSS 142 B	720	87 - 93	3 1/2 - 3 5/8	356	318	178	320	99	152	83	852	417	171	265
OSS 144 B	875	94 - 102	3 3/4 - 4	381	343	190	350	108	178	89	914	450	191	370
OSS 146 B	1200	108 - 115	4 1/4 - 4 1/2	450	480	215	400	125	195	100	1145	504	205	525
OSS 150 B	1300	120 - 130	4 3/4 - 5	500	500	250	450	143	220	110	1250	525	225	735

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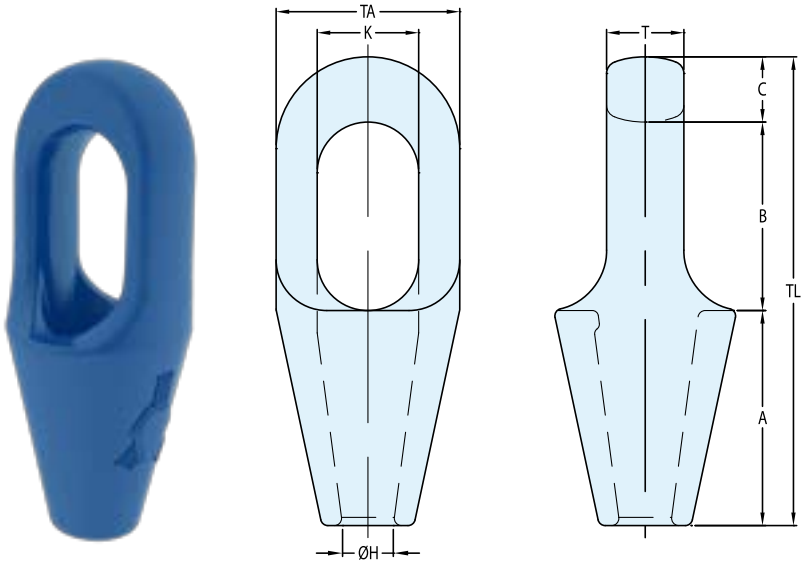
Alloy cast steel **Closed spelter sockets**



Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)								Weight (kg)
		mm	inch	A	B	C	Ø H	K	T	TA	TL	
CSS 296	8	6 - 7	1/4	50	40	11	8.5	22	13	37	101	0.3
CSS 297	12	8 - 10	3/8	57	48	14	12	25	17.5	43	119	0.5
CSS 298	20	11 - 13	7/16 - 1/2	63.5	59	17.5	14	30	22.5	51	140	0.7
CSS 299	25	14 - 16	9/16 - 5/8	76	65	21	17.5	36	26	67	162	1.3
CSS 200	40	18 - 19	3/4	89	78	27	21	42	32	76	194	2.1
CSS 201	55	20 - 22	7/8	101	90	33	24	47	38	92	224	3.6
CSS 204	75	23 - 26	1	114	103	36	28	57	44	104	253	5.3
CSS 207	90	27 - 30	1 1/8	127	116	39	32	63	51	114	282	7
CSS 212	125	31 - 36	1 1/4 - 1 3/8	139	130	43	38	70	57	127	312	9.7
CSS 215	150	37 - 39	1 1/2	152	155	51	41	79	63	136	358	13
CSS 217	170	40 - 42	1 5/8	165	171	54	44	83	70	146	390	17
CSS 219	225	43 - 48	1 3/4 - 1 7/8	190	198	55	51	93	76	171	443	26
CSS 222	280	49 - 54	2 - 2 1/8	216	224	62	57	100	82	193	502	37.5
CSS 224	360	55 - 60	2 1/4 - 2 3/8	228	247	73	63	112	92	216	548	50
CSS 226	425	61 - 68	2 1/2 - 2 5/8	248	270	79	73	140	102	241	597	65
CSS 227	460	69 - 75	2 3/4 - 2 7/8	279	286	79	79	159	124	273	644	94
CSS 228	560	76 - 80	3 - 3 1/8	305	298	83	86	171	133	292	686	110
CSS 229	625	81 - 86	3 1/4 - 3 3/8	330	311	102	92	184	146	311	743	145
CSS 230	720	87 - 93	3 1/2 - 3 5/8	356	330	102	99	197	159	330	788	182
CSS 231	875	94 - 102	3 3/4 - 4	381	356	108	108	216	178	362	845	210
CSS 233	1200	108 - 115	4 1/4 - 4 1/2	450	425	125	125	235	190	405	1000	330
CSS 240	1300	120 - 130	4 3/4 - 5	500	525	125	143	260	200	450	1150	500

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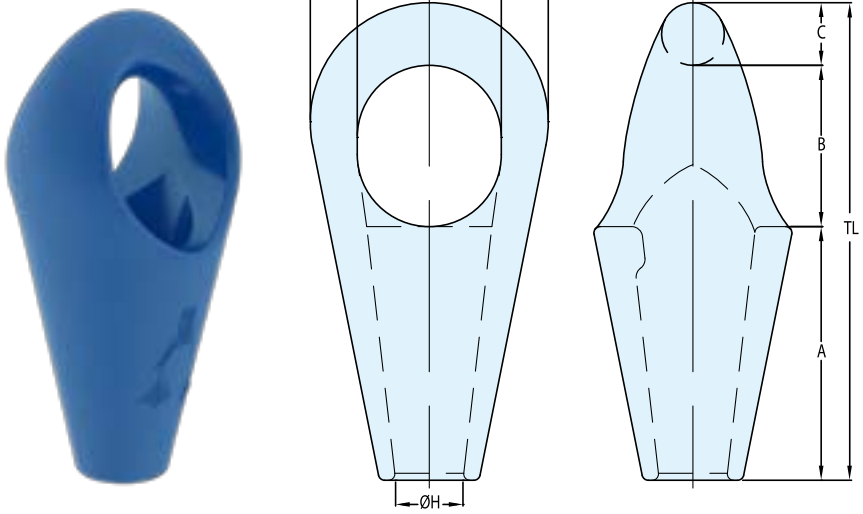
SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS

High alloy cast steel **Short bow sockets**



Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)							Weight (kg)
		mm	inch	A	B	C	Ø H	K	TA	TL	
SBS 517	160	37 - 42	1 1/2 - 1 5/8	162	103	38	44	92	147	300	11
SBS 519	200	43 - 48	1 3/4 - 1 7/8	188	120	42	51	112	178	348	15
SBS 522	250	49 - 54	2 - 2 1/8	204	132	54	57	120	200	390	22
SBS 524	320	55 - 60	2 1/4 - 2 3/8	230	148	62	63	135	220	440	27
SBS 526	400	61 - 68	2 1/2 - 2 5/8	235	165	68	73	150	250	468	40
SBS 527	500	69 - 75	2 3/4 - 2 7/8	287	175	75	79	164	274	540	54
SBS 528	600	76 - 80	3 - 3 5/8	314	195	76	86	175	295	585	75
SBS 529	700	81 - 86	3 1/4 - 3 3/8	327	216	82	92	194	320	625	81
SBS 530	800	87 - 93	3 1/2 - 3 5/8	258	220	92	99	202	350	670	115
SBS 531	900	94 - 102	3 3/4 - 4	365	235	100	105	215	375	700	130
SBS 533	1000	108 - 115	4 1/4 - 4 1/2	420	270	110	115	240	410	800	180

MBL = Minimum Breaking Load.
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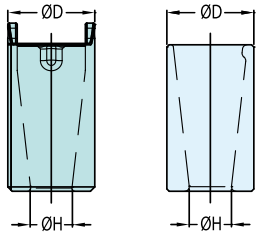
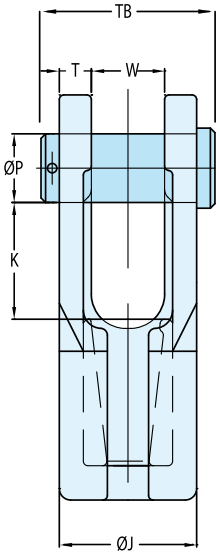
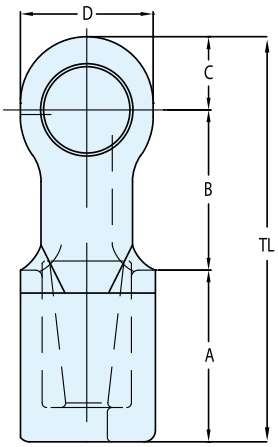
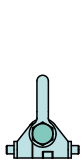
Alloy cast steel **Fast connector sockets with pin**







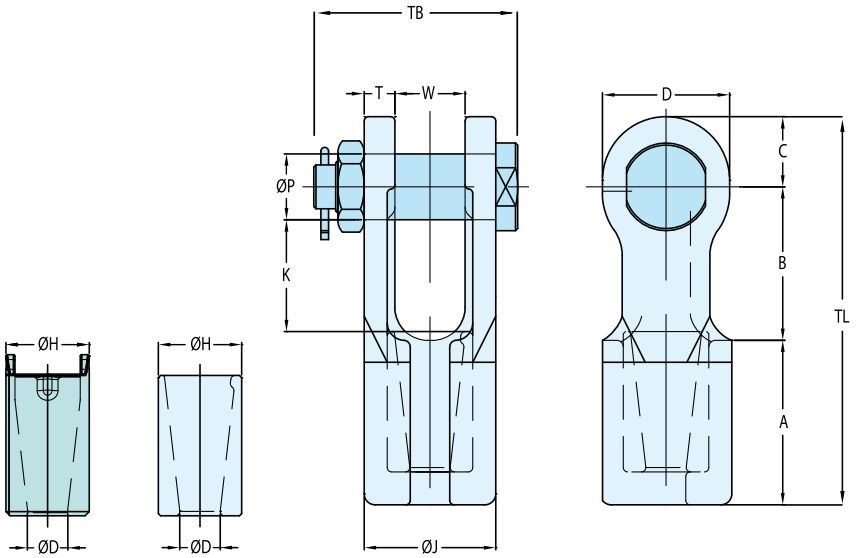
Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)													Weight (kg)
		mm	inch	A	B	C	Ø H	Ø P	T	W	D	Ø D	Ø J	K	TB	TL	
FCS 701 P	20	11 - 13	7/16 - 1/2	62	61	27	15	25	12	25	50	33	49	46	67	150	1.6
FCS 702 P	25	13 - 16	1/2 - 5/8	72	78	32	18	30	14	32	58	38	60	59	85	182	2.6
FCS 703 P	40	16 - 19	5/8 - 3/4	85	93	40	21	35	16	38	70	45	70	69	95	218	4.5
FCS 704 P	55	20 - 22	7/8	102	106	45	24	41	19	44	80	50	82	81	110	253	6.5
FCS 705 P	75	23 - 26	1	115	123	60	28	51	22	51	104	60	95	90	128	298	11
FCS 706 P	90	27 - 29	1 1/8	140	152	65	32	57	25	57	114	70	107	116	142	357	16
Spin Resistant Connector																	
FCS 705 P.SR	75	23 - 26	1	115	123	60	28	51	22	51	104	60	95	90	128	298	11
FCS 706 P.SR	90	27 - 29	1 1/8	140	152	65	32	57	25	57	114	70	107	116	142	357	16
FCS 707 P.SR	125	30 - 32	1 1/4	150	159	73	36	63	28	63	126	80	119	120	155	382	18
FCS 708 P.SR	125	33 - 36	1 3/8	160	171	73	39	64	28	69	126	85	125	130	160	404	23
FCS 709 P.SR	150	37 - 39	1 1/2	176	187	80	42	70	30	76	142	90	136	142	177	443	29
FCS 710 P.SR	170	40 - 42	1 5/8	188	198	88	45	76	33	76	156	95	142	150	187	474	36



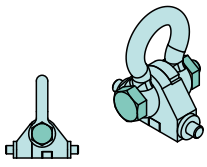
Special reeving tool available on request

MBL = Minimum Breaking Load.
Our standard sockets are delivered in blue colour paint. 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.

Alloy cast steel **Fast connector sockets with bolt and nut**



Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)													Weight (kg)
		mm	inch	A	B	C	Ø H	Ø P	T	W	D	Ø D	Ø J	K	TB	TL	
FCS 701 B	20	11 - 13	7/16 - 1/2	62	61	27	15	25	12	25	50	33	49	46	80	150	1.6
FCS 702 B	25	13 - 16	1/2 - 5/8	72	78	32	18	30	14	32	58	38	60	59	96	182	2.6
FCS 703 B	40	16 - 19	5/8 - 3/4	85	93	40	21	35	16	38	70	45	70	69	107	218	4.5
FCS 704 B	55	20 - 22	7/8	102	106	45	24	41	19	44	80	50	82	81	123	253	6.5
FCS 705 B	75	23 - 26	1	115	123	60	28	51	22	51	104	60	95	90	138	298	11
FCS 706 B	90	27 - 29	1 1/8	140	152	65	32	57	25	57	114	70	107	116	160	357	16
Spin Resistant Connector																	
FCS 705 B.SR	75	23 - 26	1	115	123	60	28	51	22	51	104	60	95	90	138	298	11
FCS 706 B.SR	90	27 - 29	1 1/8	140	152	65	32	57	25	57	114	70	107	116	160	357	16
FCS 707 B.SR	125	30 - 32	1 1/4	150	159	73	36	63	28	63	126	80	119	120	165	382	18
FCS 708 B.SR	125	33 - 36	1 3/8	160	171	73	39	64	28	69	126	85	125	130	185	404	23
FCS 709 B.SR	150	37 - 39	1 1/2	176	187	80	42	70	30	76	142	90	136	142	201	443	29
FCS 710 B.SR	170	40 - 42	1 5/8	188	198	88	45	76	33	76	156	95	142	150	209	474	36



Special reeving tool available on request

MBL = Minimum Breaking Load.
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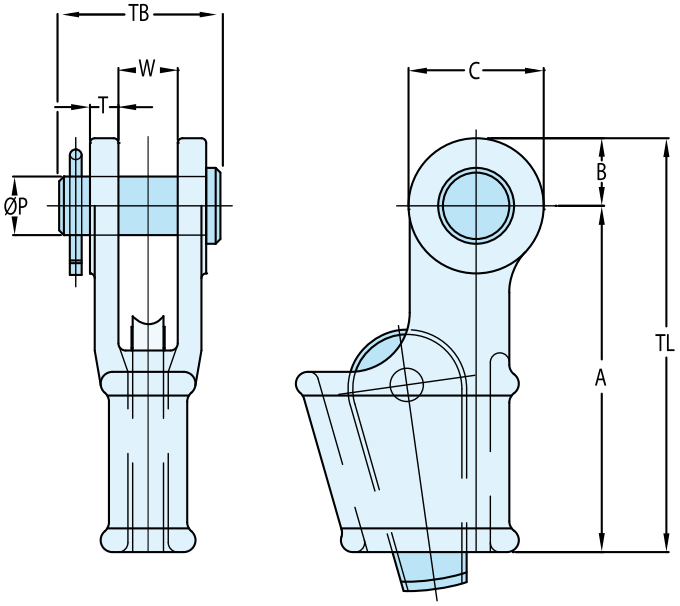
Alloy cast steel **Open wedge sockets with pin**



Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)								Weight (kg)
		mm	inch	A	B	C	Ø P	T	TB	TL	W	
OWS 0.25 P	8	7 - 8	5/16	110	19	36	16	9	51	129	18	0.8
OWS 0.5 P	12	9 - 10	3/8	142	23	46	20.6	11	63	165	20.5	1.7
OWS 1 P	20	11 - 13	1/2	146	29	57	25	12	67	175	25	2.1
OWS 2 P	25	14 - 16	5/8	176	35	70	30	15	85	211	31	4
OWS 3 P	40	18 - 19	3/4	212	40	80	35	16	95	252	38	7
OWS 4 P	55	20 - 22	7/8	240	48	95	41	19	110	288	44	10
OWS 5 P	75	24 - 26	1	274	55	110	51	22	128	329	51	15
OWS 6 P	90	27 - 29	1 1/8	310	65	130	57	25	142	375	57	21
OWS 7 P	110	30 - 32	1 1/4	350	73	146	64	28	155	423	63	31
OWS 8 P	125	34 - 36	1 3/8	400	74	148	64	28	160	474	69	37
OWS 9 P	150	37 - 39	1 1/2	450	80	142	70	30	177	530	76	51
OWS 10 P	170	40 - 42	1 5/8	500	87	160	76	33	187	587	76	64
OWS 11 P	225	43 - 48	1 3/4 - 1 7/8	550	100	186	89	39	215	650	89	96
OWS 12 P	280	49 - 52	2	640	105	194	95	46	244	745	101	130
OWS 13 P	360	54 - 58	2 1/4	660	125	230	108	54	275	785	114	180
OWS 14 P	425	60 - 68	2 1/2	835	135	250	121	60	300	970	127	275
OWS 15 P	460	72 - 76	3	1000	150	270	133	76	355	1150	146	440
OWS 16 P	625	81 - 86	3 1/4 - 3 3/8	1100	152	300	140	79	375	1252	159	510

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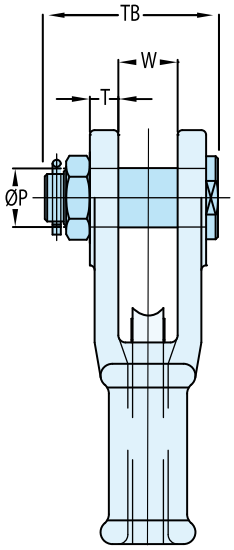
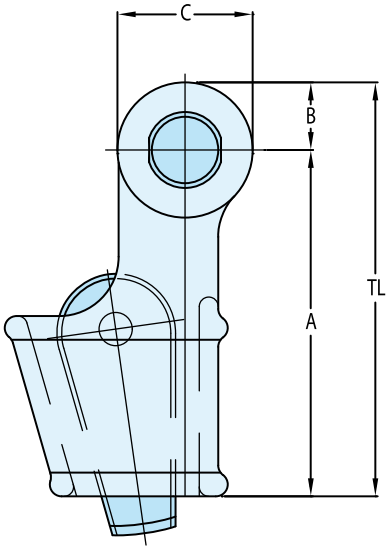
SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS

Alloy cast steel **Open wedge sockets with bolt and nut**

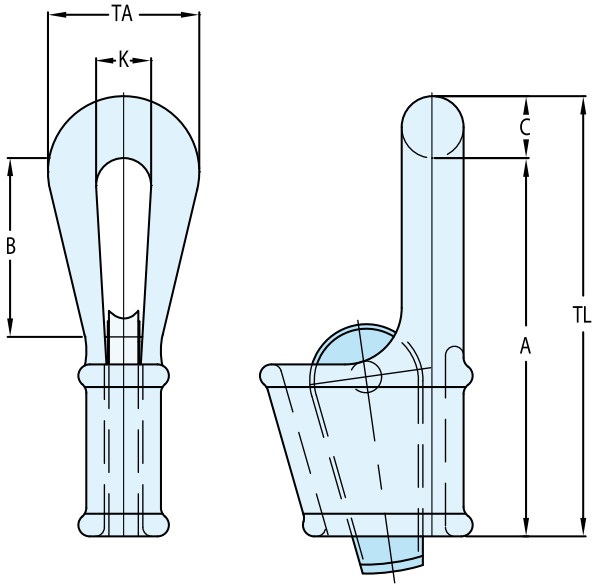




Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)								Weight (kg)
		mm	inch	A	B	C	Ø P	T	TB	TL	W	
OWS 0.25 B	8	7 - 8	5/16	110	19	36	16	9	62	129	18	0.8
OWS 0.5 B	12	9 - 10	3/8	142	23	46	20.6	11	75	165	20.5	1.7
OWS 1 B	20	11 - 13	1/2	146	29	57	25	12	80	175	25	2.1
OWS 2 B	25	14 - 16	5/8	176	35	70	30	15	96	211	31	4
OWS 3 B	40	18 - 19	3/4	212	40	80	35	16	107	252	38	7
OWS 4 B	55	20 - 22	7/8	240	48	95	41	19	123	288	44	10
OWS 5 B	75	24 - 26	1	274	55	110	51	22	138	329	51	15
OWS 6 B	90	27 - 29	1 1/8	310	65	130	57	25	160	375	57	21
OWS 7 B	110	30 - 32	1 1/4	350	73	146	64	28	165	423	63	31
OWS 8 B	125	34 - 36	1 3/8	400	74	148	64	28	185	474	69	37
OWS 9 B	150	37 - 39	1 1/2	450	80	142	70	30	201	530	76	51
OWS 10 B	170	40 - 42	1 5/8	500	87	160	76	33	209	587	76	64
OWS 11 B	225	43 - 48	1 3/4 - 1 7/8	550	100	186	89	39	237	650	89	96
OWS 12 B	280	49 - 52	2	640	105	194	95	46	263	745	101	130
OWS 13 B	360	54 - 58	2 1/4	660	125	230	108	54	298	785	114	180
OWS 14 B	425	60 - 68	2 1/2	835	135	250	121	60	330	970	127	275
OWS 15 B	460	72 - 76	3	1000	150	270	133	76	380	1150	146	440
OWS 16 B	625	81 - 86	3 1/4 - 3 3/8	1100	152	300	140	79	397	1252	159	510

MBL = Minimum Breaking Load.
Our standard sockets are delivered in blue colour paint. 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.

Alloy cast steel **Closed wedge sockets**



Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)						Weight (kg)
		mm	inch	A	B	C	K	TA	TL	
CWS 303	40	18 - 19	3/4	220	100	34	40	90	254	7
CWS 304	55	20 - 22	7/8	225	125	42	47	110	267	9
CWS 305	75	24 - 26	1	290	130	50	55	125	340	14
CWS 306	90	27 - 29	1 1/8	325	145	60	70	152	385	22
CWS 307	110	30 - 32	1 1/4	360	160	68	75	165	428	30
CWS 308	125	34 - 36	1 3/8	400	180	68	75	165	468	38
CWS 309	150	37 - 39	1 1/2	500	240	72	80	185	572	49
CWS 310	170	40 - 42	1 5/8	600	310	80	90	210	680	65
CWS 311	225	43 - 48	1 3/4 - 1 7/8	640	325	90	100	225	730	100
CWS 312	280	49 - 52	2	720	375	100	110	245	820	150
CWS 313	360	54 - 58	2 1/4	775	400	110	120	265	885	175
CWS 314	425	61 - 64	2 1/2	900	470	120	130	290	1020	230
CWS 315	460	72 - 76	3	1000	500	130	150	330	1130	300
CWS 316	625	81 - 86	3 1/8 - 3 1/4	1125	550	135	165	360	1260	425

MBL = Minimum Breaking Load.
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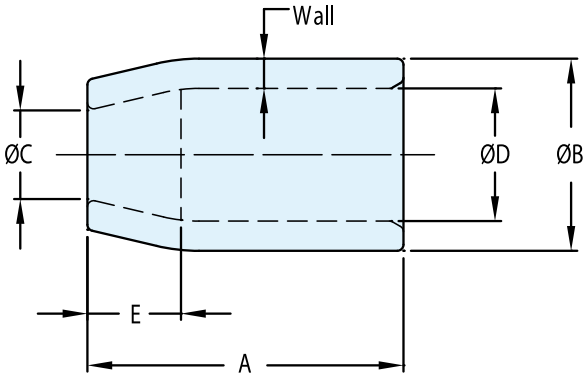
SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS

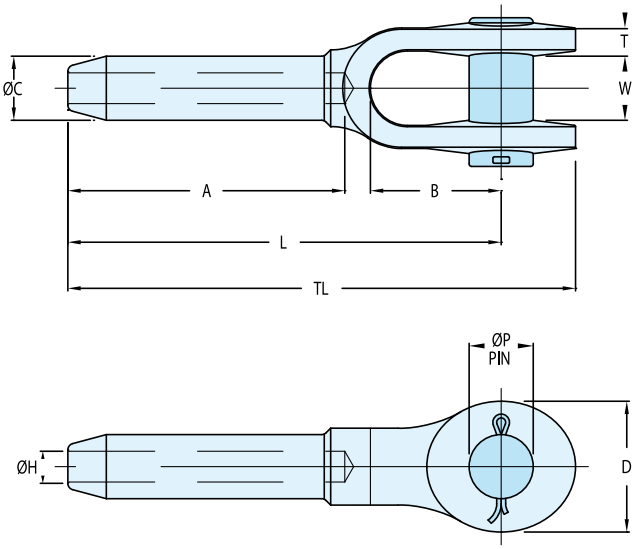
Forged **Carbon steel sleeves**



Model nr.	for wire Ø		Dimensions (mm)							Weight (kg)
	mm	inch	A	Ø B	Ø C	Ø D	E	Wall thickness	After Swage	
SSL 06	6	1/4	25.4	16.7	8.3	11.9	7.1	2.4	12.7	0.02
SSL 08	8	5/16	38.1	23	11.1	15.5	11.1	3.8	18.5	0.06
SSL 10	10	3/8	38.1	23	11.9	16.7	11.1	3.2	18.5	0.05
SSL 11	11	7/16	51	31	14.3	21.4	15.1	4.8	24.9	0.15
SSL 13	13	1/2	51	31	15.9	23	15.1	4	24.9	0.13
SSL 14	14	9/16	70	37	17.5	26.2	17.9	5.4	30.5	0.3
SSL 16	16	5/8	70	37	19.1	27.8	17.9	4.6	30.5	0.25
SSL 19	18 - 19	3/4	81	43.7	23.4	32.5	21.8	5.6	35.8	0.4
SSL 22	22	7/8	90	51.6	26.2	38.9	25.4	6.4	41.4	0.6
SSL 25	25 - 26	1	102	58	29.4	43.7	28.6	7.2	47.8	0.9
SSL 29	28 - 29	1 1/8	122	64	32.5	49.2	31.8	7.4	52.8	1.2
SSL 32	31 - 32	1 1/4	132	70.6	36.5	54.8	35.7	7.9	57.7	1.5
SSL 35	34 - 35	1 3/8	148	76	39.7	60.3	39.7	7.9	62.5	1.9
SSL 38	37 - 38	1 1/2	159	82.6	42.9	66.7	42.9	7.9	67.3	2.4
SSL 44	44 - 45	1 3/4	184	98	49.2	79.4	50	9.3	77.2	3.8
SSL 51	50 - 52	2	216	111	57.2	92.1	57.2	9.5	88.9	5.1
SSL 57	56 - 57	2 1/4	243	128	63.5	102.4	64.3	12.8	103.1	8.7
SSL 63	62 - 64	2 1/2	267	140	69.9	114.3	71.4	12.8	112.8	10.5
SSL 70	68 - 70	2 3/4	298	146	76.2	120.7	78.6	12.8	117.6	12.5
SSL 76	73 - 76	3	305	152	82.6	127	85.7	12.8	124.2	13.1
SSL 89	86 - 89	3 1/2	356	178	98.4	148	101.6	12.8	144.5	21.6

Proper swaging methods must be followed. Proper swaging practices are the sling manufactures responsibility. A color change will not indicate proper swaging.

Forged carbon steel **Swage sockets open**

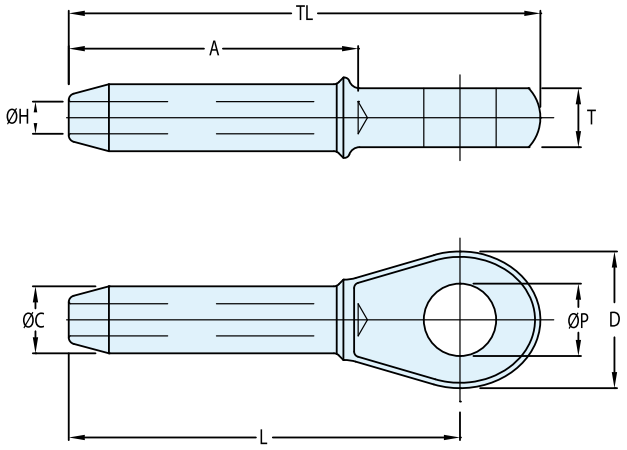


Model nr.	for wire Ø		Dimensions (mm)										Weight (kg)
	mm	inch	Ø C	Ø H	Ø P	B	TL	A	L	T	W	D	
SSO 06	6	1/4	12.7	6.85	17.5	38	121	54	102	8	17	35	0.25
SSO 08	8	5/16	19.6	8.65	20.6	44	159	81	135	10	21	41	0.50
SSO 10	10	3/8	19.6	10.4	20.6	44	159	81	135	10	21	41	0.50
SSO 11	11	7/16	24.9	12.2	25.4	51	198	108	169	13	25	51	1.10
SSO 13	13	1/2	24.9	14	25.4	51	198	108	169	13	25	51	1.10
SSO 14	14	9/16	31.8	15.5	30.2	57	243	135	206	16	32	63	2.10
SSO 16	16	5/8	31.8	17	30.2	57	243	135	206	16	32	63	2.10
SSO 19	19	3/4	39.4	20.3	35.1	70	297	162	254	19	38	76	3.60
SSO 22	22	7/8	43.2	23.9	41.1	83	346	189	295	23	44	86	5.30
SSO 25	25	1	50.5	26.9	51	95	397	216	340	26	51	102	8.10
SSO 29	29	1 1/8	57	30.2	57	108	444	243	381	30	57	114	13.50
SSO 32	32	1 1/4	64.5	33.8	63.5	121	494	270	419	30	63	127	16.40
SSO 35	35	1 3/8	71	36.8	63.5	133	540	297	460	33	63	133	21.40
SSO 38	38	1 1/2	78	40.1	70	146	591	324	502	37	76	146	29.50
SSO 44	44	1 3/4	86	47.2	89	171	689	378	584	43	89	178	42.20
SSO 51	51	2	100	53.5	95.5	203	798	432	679	46	102	203	65.80
SSO 57	57	2 1/4	113	59.9	108	171	835	486	705	65	114	222	93.50
SSO 63	63	2 1/2	125.2	67.5	108	171	879	498	749	65	114	222	103.00
SSO 76	76	3	150.6	80.4	133.4	219	1045	603	905	76	146	241	181.50

Swage sockets are recommended for use on 6x19 or 6x37 IWRC regular lay ropes and also satisfactory on galvanized bridge rope.
They are not recommended for use on fiber core ropes.
Before using swage sockets with other type lay, construction or grade of wire rope, it is recommended that the termination be proofloaded to prove the adequacy of the assembly.
Sockets properly applied have an efficiency rating of 100% based on the catalog strenght of the used wire rope. Forged from special steel for cold swaging.

SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS

Forged carbon steel **Swage sockets closed**



Model nr.	for wire Ø		Dimensions (mm)								Weight (kg)
	mm	inch	Ø C	Ø H	D	Ø P	T	A	TL	L	
SSC 06	6	1/4	12.7	6.85	37	19.1	13	54	111	89	0.15
SSC 08	8	5/16	19.6	8.65	43	22.4	17	81	140	114	0.36
SSC 10	10	3/8	19.6	10.4	43	22.4	17	81	140	114	0.35
SSC 11	11	7/16	24.9	12.2	51	26.9	22	108	176	146	0.70
SSC 13	13	1/2	24.9	14	51	26.9	22	108	176	146	0.70
SSC 14	14	9/16	31.8	15.5	63	31.8	29	135	222	184	1.30
SSC 16	16	5/8	31.8	17	63	31.8	29	135	222	184	1.30
SSC 19	19	3/4	39.4	20.3	76	36.6	33	162	264	219	2.30
SSC 22	22	7/8	43.2	23.9	89	42.9	38	189	308	257	3.40
SSC 25	25	1	50.5	26.9	102	52.5	44	216	349	292	5.10
SSC 29	29	1 1/8	57	30.2	114	58.5	51	243	387	324	7.20
SSC 32	32	1 1/4	64.5	33.8	127	65	57	270	438	365	10.50
SSC 35	35	1 3/8	71	36.8	133	65	57	297	479	400	14.10
SSC 38	38	1 1/2	78	40.1	140	71.5	63	324	518	432	17.70
SSC 44	44	1 3/4	86	47.2	171	90.5	76	378	610	508	23.60
SSC 51	51	2	100	53.5	197	96.5	83	432	698	584	40.80
SSC 57	57	2 1/4	113	59.9	219	109.5	102	486	756	632	55.40
SSC 63	63	2 1/2	125.2	67.5	219	109.5	102	498	791	667	64.40
SSC 76	76	3	150.6	80.4	235	134.9	137	603	959	816	114.30

Swage sockets are recommended for use on 6x19 or 6x37 IWRC regular lay ropes and also satisfactory on galvanized bridge rope.
They are not recommended for use on fiber core ropes.
Before using swage sockets with other type lay, construction or grade of wire rope, it is recommended that the termination be proof-loaded to prove the adequacy of the assembly.
Sockets properly applied have an efficiency rating of 100% based on the catalog strenght of the used wire rope. Forged from special steel for cold swaging.

Wire rope end connections

Open spelter sockets with bolt or pin

Closed spelter sockets

Short bow sockets

Fast connector sockets with bolt or pin

SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS

Wire rope end connections

Open wedge sockets with bolt or pin

Closed wedge sockets

Swage sockets and sleeves

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