

the blue line

- **FISHING**
- **INDUSTRY**
- **OFFSHORE**



BRDR. MARKUSSENS METALVAREFABRIK A/S

*- Your hardware
supplier...!*

Dear Customer

Brdr. Markussens Metalvarefabrik A/S – "THE BLUE LINE" – is the world leading supplier of iron hardware for the commercial fishing industry.

The company was founded in 1970 by the three brothers Henry, Bent and Jens Markussen. Still today the company is family owned.



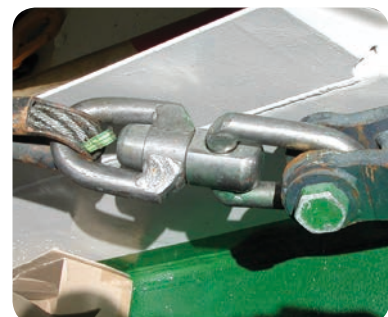
Our line of products contains both products manufactured at our own production facilities in Vildbjerg, Denmark as well as a variety of quality trade products from leading manufacturers. Our own products combined with trade products meet all needs for hardware in commercial fishing.

Brdr. Markussens Metalvarefabrik A/S Industrial department supports all sorts of lifting and lashing equipment for all industrial sectors. We design and manufacture custom designed lifting brackets and yokes or transport brackets. We produce welded brackets according to ISO3834 as subsupplier. In addition we supply the wind industry with all sorts of lifting equipment, and lashing or rigging hardware.



Production

Brdr. Markussens Metalvarefabrik A/S combines craftsmanship with state of the art machinery. Our production is highly automated. Over the years Brdr. Markussen have invested in developing niche production lines of high quality output. Today we have more than 13.000 m2 factory and warehouse under roof.





Own products

We have developed the widest range of products in close dialogue with our customers – ranging from all sorts of blocks, swivels, thimbles and other highly specialized niche products. We are never far from the end-user, enabling us to modify our products in case of special requirements.

Trade products

We represent recognized and well known companies that meet our own standards and complete our hardware program.

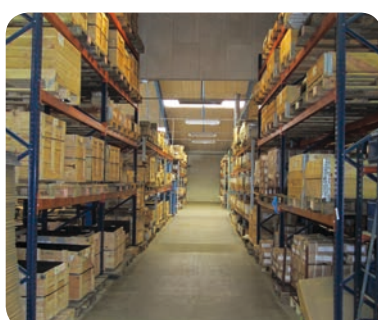


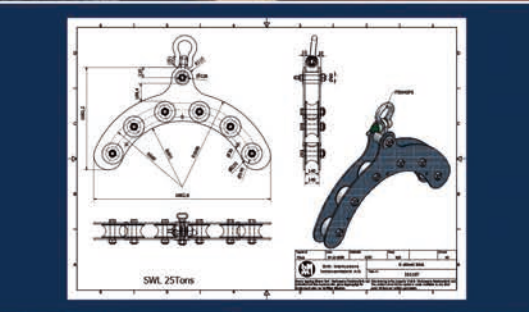
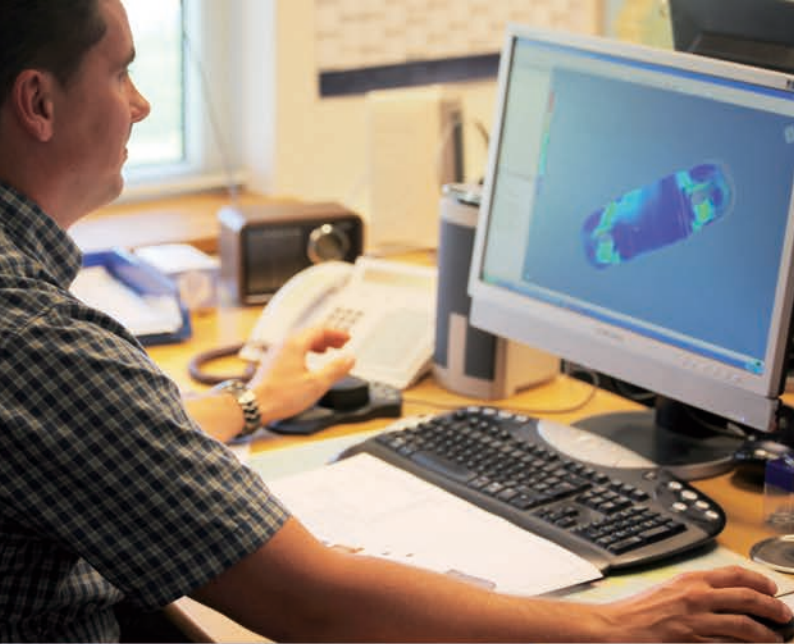
Quality control

All our products can be tested according to international standards. Test facilities including test benches up to 250 tons capacity are available in house. Our tested products are accompanied by certificates and are fully traceable. We have strict procedures for material analyzes using x-ray material analyzer.

Distribution

Both our own products and trade products are inspected and stored in our warehouse in Vildbjerg. We hold a large inventory enabling fast expedition of incoming orders. About 80% is exported to more than 40 countries worldwide.





A SWIVELS

- STAINLESS SWIVELS
- FLEX SWIVELS
- BLUE SWIVELS
- ROLLER BEARING SWIVELS
- COMPACTED SWIVELS
- GUNNEBO SWIVELS
- SWIVELS WITH RINGS

B HOOKS

- SLIP HOOKS
- CHOKER HOOKS
- PURSE RINGS
- SAFETY HOOKS
- RELEASE HOOKS
- SLING HOOKS
- YOYO HOOKS

C RINGS

- STAINLESS RINGS
- OVAL RINGS
- SPECTACLES
- PEAR RINGS
- GUNNEBO MASTERLINKS
- ROUND RINGS

D QUICK LINKS

- SPLIT LINKS
- QUICK LINKS
- VIKING LINKS
- CARABINE HOOKS
- BOSS SPLIT LINKS

E BLUE LINE VARIOUS PRODUCTS

- G-HOOKS
- RECESSED LINKS
- STEEL SPACERS
- WIRE VISE
- TRIANGLES
- BUTTERFLIES
- MARLINE SPIKES
- WIRE TURN TABLE
- STOPPERS
- KELLY'S EYES
- WASHERS
- PUNCHES

F SHACKLES

- GREEN PIN
- GALVANIZED
- BLUE PIN
- STAINLESS
- SELF COLOURED
- BOSS

G THIMBLES & RIGGINGSCREWS

- TUBE THIMBLES
- RIGGING SCREWS
- STAINLESS THIMBLES
- WIRE ROPE CLIPS
- ROUND THIMBLES

H TRADE PRODUCTS

- KNIVES
- FLOATS
- BUOYS
- FENDERS
- WIRECUTTERS
- BASKETS
- SHOWELS
- ELECTRIC CUTTERS
- NEEDLES

I LIFTING

- LIFTING COMPONENTS
- CONTAINERSTRAPS
- CHAIN BLOCKS
- LEVER HOISTS
- ROTATING LIFTING POINTS
- LIFTING CLAMPS

J CHAINS & CONNECTORS

- TRAWLEX / CROSBY
- BMM
- TRYGG / NØSTED
- STAINLESS
- GUNNEBO
- BRIGHT

K BLOCKS

- TACKLE BLOCKS
- TRAWLBLOCKS
- SUSPENSION UNITS
- LAZY LINE BLOCKS
- SNATCH BLOCKS
- OPEN TRAWLBLOCKS
- NETSOUNDER BLOCKS
- SHEAVES
- PURSE BLOCKS
- CENTER BLOCKS
- FAIRLEAD BLOCKS

L POLYESTER SLING & LOADBINDERS

- LASHING W/ RACHET
- LOADBINDERS
- WEBBING SLINGS
- ROUND SLINGS

N TERMINALS & FERRULES

- TERMINALS
- ALU-FERRULES
- SWAGGING MACHINE
- DIES FOR TERMINALS
- STEEL-FERRULES
- HAND TOOLS
- DIES FOR FERRULES
- COPPER-FERRULES

R ROCKHOPPER GEAR

- ROCKHOPPERS
- BUNT BOBBINS
- ROCKHOPPER MACHINE
- DISCS
- HALF BOBBINS
- RUBBER SPACERS
- STOP WASHERS

SWIVELS

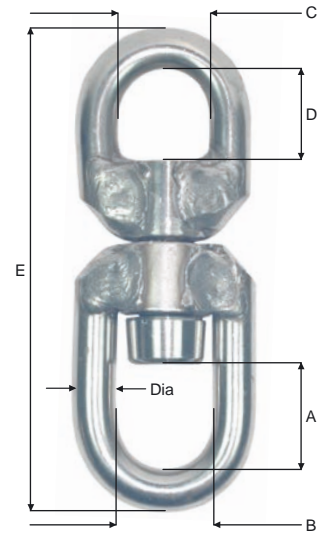
- STAINLESS SWIVELS
- FLEX SWIVELS
- BLUE SWIVELS
- ROLLER BEARING SWIVELS
- COMPACTED SWIVELS
- GUNNEBO SWIVELS
- SWIVELS WITH RINGS



Swivels

Stainless steel

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A06SS	06	0.27	14	14	14	14	64	0.05
A08SS	08	0.50	19	19	19	19	93	0.14
A10SS	10	1.10	30	28	20	20	110	0.23
A12SS	13	1.60	29	28	27	30	140	0.36
A16SS	16	3.20	43	38	35	47	180	0.89
A19SS	19	4.70	45	39	38	40	205	1.80
A19SSL	19	4.70	45	39	38	63	230	1.85
A22SS	22	6.30	45	40	40	42	222	2.25
A22SSL	22	6.30	45	40	40	65	250	2.40
A25SS	25	8.30	52	50	42	52	278	4.10
A25SSL	25	8.30	52	47	47	84	300	4.30
A32SS	32	12.00	60	50	50	98	350	8.15
A38SS	38	18.00	72	58	58	112	390	13.00

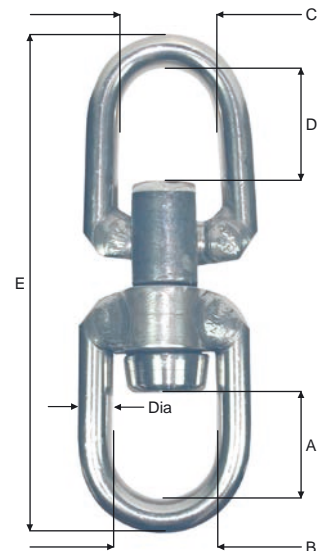


Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A06SSC

Swivels

Stainless steel · Flex

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A12SSF	13	1.6	30	28	28	34	160	0.56
A16SSF	16	3.2	41	38	37	48	200	1.20
A19SSF	19	4.7	44	40	40	54	235	2.00
A22SSF	22	6.3	44	40	40	55	255	2.90
A25SSF	25	8.3	55	50	45	70	320	4.70
A28SSF	28	10.4	55	50	50	80	330	6.14
A32SSF	32	12.0	55	55	54	93	360	9.20
A38SSF	38	18.0	62	58	60	110	410	14.60
A45SSF	45	28.0	75	70	70	115	515	24.00

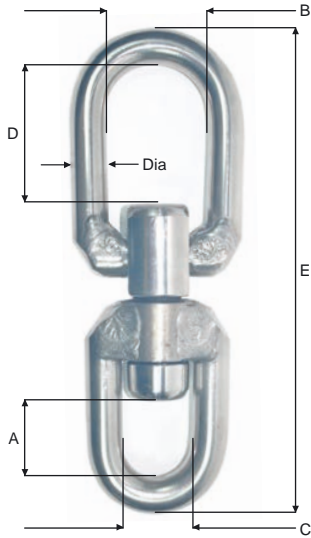


BMM can supply swivels mounted with thimbles, G-hooks, Rings etc.

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A12SSFC

Swivels

Stainless steel

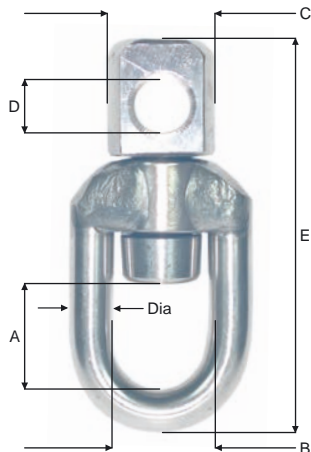


Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A16SSFL	16	3.2	41	38	55	75	225	1.6
A19SSFL	19	4.7	44	40	55	80	260	2.2
A22SSFL	22	6.3	44	40	60	83	285	3.1
A25SSFL	25	8.3	55	50	68	83	330	5.0

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A12SSSC

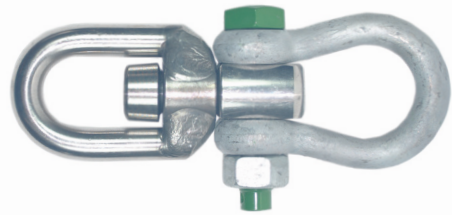
Swivels

Stainless steel · For shackle



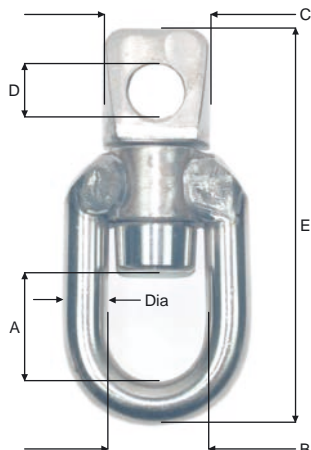
Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A12SSS	13	1.6	30	28	21	16	114	0.38
A16SSS	16	3.2	43	38	26	20	140	0.76
A19SSS	19	4.7	45	40	30	23	162	1.35
A22SSS	22	6.3	45	40	35	26	180	1.90
A25SSS	25	8.3	52	45	39	30	220	3.18
A32SSS	32	12.0	58	50	48	37	260	6.40
A38SSS	38	18.0	55	50	58	41	290	10.00

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A12SSSC



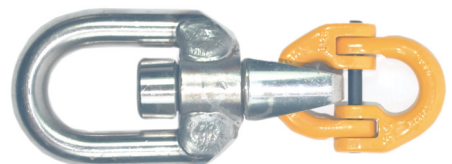
Swivels

Stainless steel · For connector



Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A12SSO	13	1.6	30	28	21	16	114	0.38
A16SSO	16	3.2	43	38	26	20	140	0.76
A19SSO	19	4.7	45	40	30	23	162	1.35
A22SSO	22	6.3	45	40	35	26	180	1.90
A25SSO	25	8.3	52	45	39	30	220	3.18
A32SSO	32	12.0	58	50	48	37	260	6.40
A38SSO	38	18.0	55	50	58	41	290	10.00

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A12SSOC

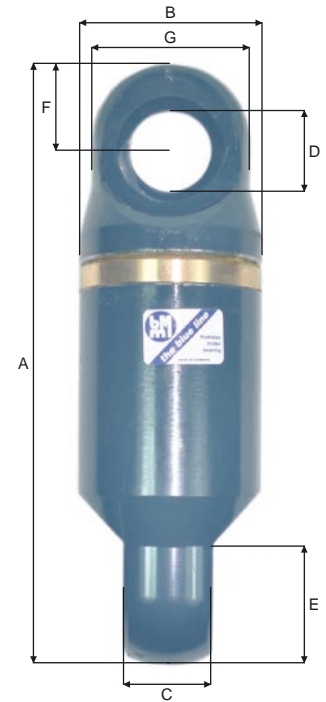


Swivels

Steel · Tapered roller thrust bearing · Greaseable

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Weight kg
A401	1.0	126	43	16	15	36	18	35	0.60
A402	2.0	157	54	20	20	45	22	45	1.50
A403	3.0	189	65	27	26	55	28	55	2.75
A405	5.0	220	70	33	30	64	33	60	3.90
A408	8.0	250	85	42	34	73	39	75	6.70
A412	12.0	295	95	50	41	86	45	86	10.60
A417	17.0	360	120	57	45	113	55	108	18.50
A422	22.0	435	131	60	52	118	63	118	29.70
A432	32.0	500	160	65	59	132	73	140	45.00
A445	45.0	700	220	102	74	190	100	200	130.00

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A401C



Swivels

Stainless steel · Tapered roller thrust bearing · Greaseable

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	Weight kg
A402SS	2.0	157	54	20	20	45	22	1.50
A403SS	3.0	189	65	27	26	55	28	2.75

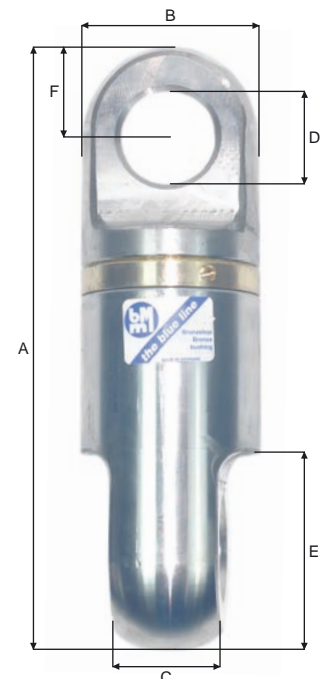
Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A401SSC

Swivels

Stainless steel · Bronze bushing

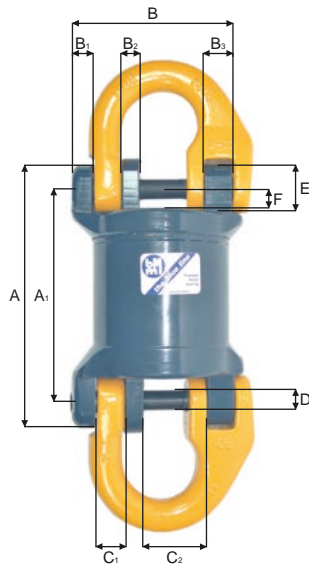
Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	Weight kg
A304	4.0	169	49	29	26	50	25	1.60
A306	6.0	197	58	34	30	60	31	2.70
A308	8.0	224	68	40	34	69	35	4.40

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A304C



Swivels

Steel · Tapered roller thrust bearing · Greaseable



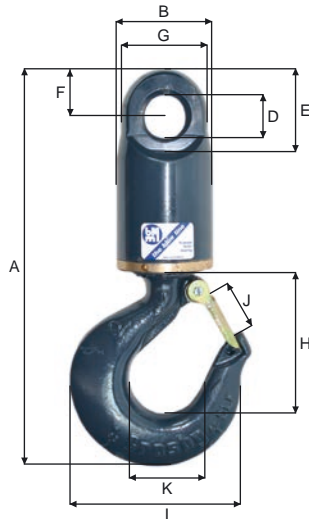
Part no.	WLL 5:1 ton	A mm	A ₁ mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C ₁ mm	C ₂ mm	D mm	E mm	F mm	Weight kg
A806-16	6.4	199	168.5	90.5	13	10	14.5	17.5	35.5	12.5	32	16.5	9.0
A810-19	10.0	193	165.0	115.0	13	11	18.0	18.0	43.0	14.0	37	20.0	8.7
A812-22	12.0	200	165.0	135.0	17	14	22.0	23.0	49.0	17.0	40	20.0	9.7
A817-26	17.0	250	208.0	150.0	21	16	25.0	27.0	57.0	20.0	53	29.0	17.3

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A812-22C

Connector not included

Swivels

Steel · Tapered roller thrust bearing · Greaseable

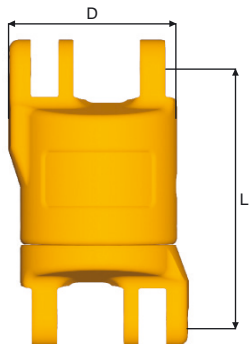


Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	Weight kg
A702-EK	2.0	218	54	20	20	45	22	45	80.0	102	29.5	41.2	2.0
A705-EK	5.0	284	70	33	30	64	33	60	97.5	123	35.8	51.0	6.3
A708-EK	8.0	377	85	42	34	73	39	75	150.0	192	56.5	76.0	10.5
A712-EK	12.0	433	95	50	41	86	45	86	162.0	212	61.0	82.5	15.7

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A702-EKC

Ball bearing swivels

Electrically insulated



Part no.	WLL 5:1 ton	L mm	D mm	Weight kg	Chain size mm
SKLI-7/8-8	1.6	75	48	0.7	7/8
SKLI-10-8	2.6	95	59	1.4	10.0
SKLI-13-8	4.3	120	75	2.9	13.0
SKLI-16-8	6.4	137	90	4.9	16.0
SKLI-18/20-8	10.0	159	104	7.2	19.0

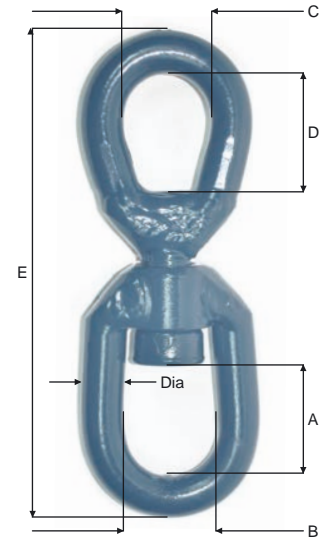
For Gunnebo connectors only.

Swivels

Steel · Blue painted

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A08STG	8	0.5	20	13	12	12	80	0.08
A10ST	10	0.6	32	28	25	31	123	0.23
A12ST	12	1.1	35	30	28	33	140	0.40
A14ST	14	1.3	40	38	33	37	168	0.65
A16ST	16	1.5	40	38	33	41	180	0.76
A19ST	19	2.4	50	38	35	47	200	1.30

Against extra charge are all swivels available tested and with certificate and/or galvanized
On order add letter **C** or **G**, e.g. A10STG

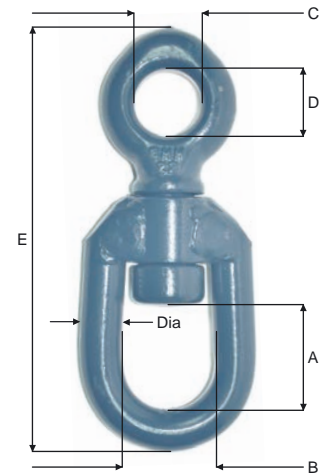


Swivels

Steel · Forged · Blue painted

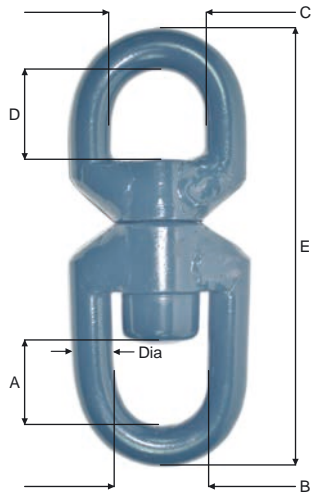
Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A16FO	16	2.4	30	28	22	22	150	0.87
A19FO	19	3.8	42	40	28	28	185	1.30
A22FO	22	5.3	57	48	34	34	230	2.20
A25FO	25	7.2	63	52	37	37	265	3.65
A28FO	28	9.0	65	52	37	37	280	4.30

Against extra charge are all swivels available tested and with certificate and/or galvanized
On order add letter **C** or **G**, e.g. A16FOG



Swivels

Steel · Blue painted

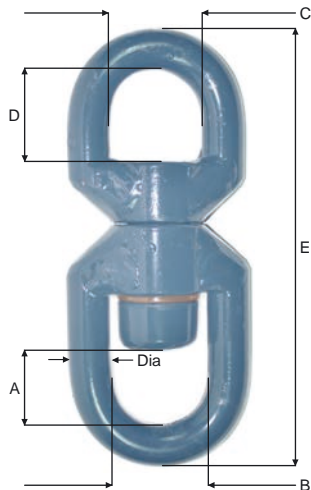


Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A28ST	28	10.0	50	50	50	50	285	5.60
A32ST	32	12.5	60	57	55	50	305	7.20
A38ST	38	15.4	72	60	55	55	340	9.90

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A28STC

Swivels

Steel · Blue painted



Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A25BO	25	6.5	45	45	45	40	245	3.80
A28BO	28	10.0	50	50	50	50	285	5.60
A32BO	32	12.5	60	57	55	50	305	7.60
A38BO	38	15.4	70	60	55	55	340	10.50

With hardened wearing ring

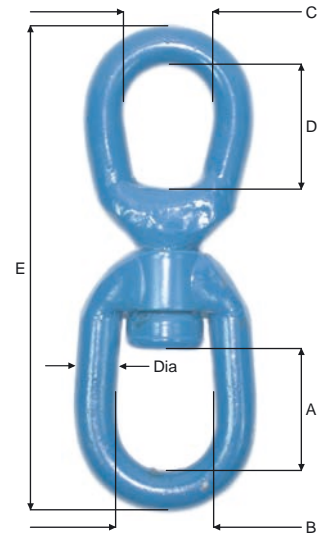
Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A25BOC

Swivels

Steel · Stainless steel center · Light blue

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A10CTD	10	1.0	29	29	25	31	135	0.29
A12CTD	12	1.6	33	30	28	36	143	0.38
A16CTD	16	2.6	40	38	35	41	178	0.83
A19CTD	19	4.0	46	38	35	51	205	1.40

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A10CTDC

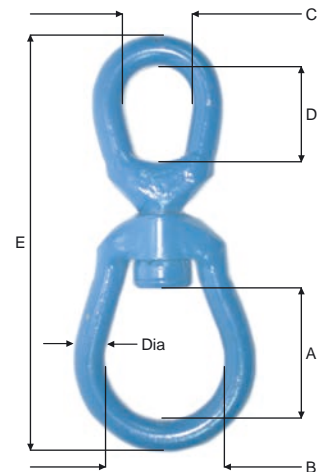


Swivels

Steel · Stainless steel center · Light blue

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
A12CTH	12	1.6	45	44	28	36	156	0.43
A16CTH	16	2.6	62	57	35	41	205	0.95
A19CTH	19	4.0	70	68	35	51	230	1.50

Against extra charge are all swivels available tested and with certificate.
On order add letter **C**, e.g. A12CTHC





Swivels

With ring · Blue painted

Part no.	Dia. mm	Description
A16FO-R	16	A16FO + C16-85STO
A19FO-R	19	A19FO + C19-110STO
A22FO-R	22	A22FO + C22-120STO
A25FO-R	25	A25FO + C25-130STO
A28FO-R	28	A28FO + C28-150STO
A25BO-R	25	A25BO + C25-130STO
A28BO-R	28	A28BO + C28-150STO
A32BO-R	32	A32BO + C32-150STO
A38BO-R	38	A38BO + C38-150STO
A32ST-R	32	A32ST + C32-150STO
A38ST-R	38	A38ST + C38-150STO

Swivels are available with rings, thimbles, recessed rings and splitlinks on inquiry.

Against extra charge are all swivels available tested and with certificate.

Swivels

With ring · Blue painted



Part no.	Dia. mm	Description
A16FO-P	16	A16FO + C19-120STP
A19FO-P	19	A19FO + C22-130STP
A22FO-P	22	A22FO + C25-160STP
A25FO-P	25	A25FO + C30-160STP

Swivels are available with rings, thimbles, recessed rings and splitlinks on inquiry.

Against extra charge are all swivels available tested and with certificate.



Blue Line participates in international exhibitions.



HOOKS

- SLIP HOOKS
- CHOKER HOOKS
- PURSE RINGS

- SAFETY HOOKS
- RELEASE HOOKS

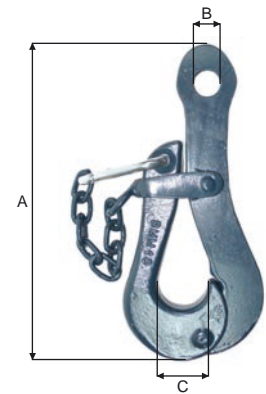
- SLING HOOKS
- YOYO HOOKS



Slip hooks

Blue painted

Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	Weight kg
BS06	6"	1.0	165	18	32	0.84
BS10	10"	1.5	254	19	48	2.05
BS12	12"	2.8	320	27	49	3.85
BS14	14"	4.8	350	27	50	5.75
BS15	15"	7.0	385	36	40	9.61
BS16	16"	11.0	385	36	64	17.80
BS16-Heavy	16"	14.0	400	42x46	65	19.50

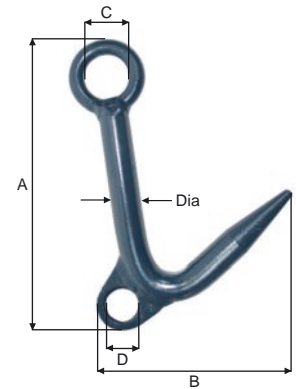


Against extra charge the hooks can be delivered galvanized.

Yo - Yo hooks

Blue painted

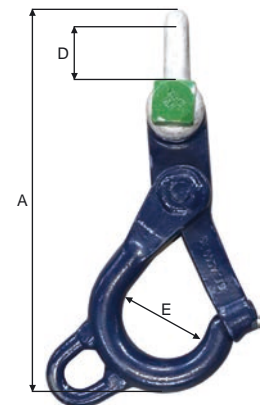
Part no.	WLL ton	A mm	B mm	C mm	D mm	Dia mm	Weight kg
BY30	3.0	280	170	40	30	30	2.2
BY40	5.0	300	185	40	30	40	3.9



Gilson hooks

Blue painted

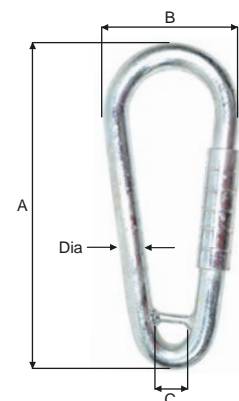
Part no.	WLL 5:1 ton	A mm	D mm	E mm	Weight kg
BS45	4.5	330	60	66	3.5
BS65	6.5	375	67	68	5.7



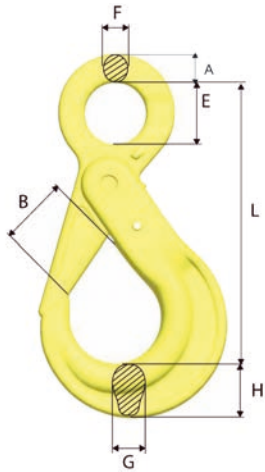
Purse rings

Galvanized · Stainless steel spring

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	Gab mm	Weight kg
BP124G	25	0.7	292	77	29	28	2.5
BP130G	30	1.0	320	85	33	30	4.0



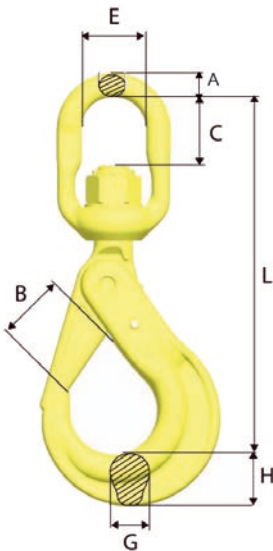
B



Gunnebo Safety hooks BK



Part no.	WLL 4:1 ton	A mm	L mm	B mm	E mm	F mm	G mm	H mm	Weight kg
BK-6-10	1.5	12	109	29	22	10	15	21	0.44
BK-7/8-10	2.5	14	138	37	28	11	17	26	0.79
BK-10-10	4.0	16	168	45	34	13	21	31	1.45
BK-13-10	6.7	20	207	55	44	16	30	40	2.70
BK-16-10	10.0	26	254	62	56	20	37	50	5.68
BK-20-10	16.0	30	289	68	60	22	44	62	9.22
BK-22-10	20.0	32	320	80	70	24	50	62	11.37
BK-26-10	27.0	35	342	100	80	25	54	68	16.10
BK-32-8	32.8	42	400	120	90	30	62	86	23.80

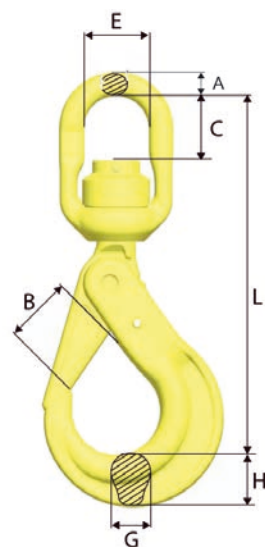


Gunnebo Safety hooks BKL



With swivel eye · Ball bearing

Part no.	WLL 4:1 ton	L mm	B mm	C mm	E mm	A mm	G mm	H mm	Weight kg
Q-BKL-6-10	1.5	149	29	23	33	11	15	21	0.704
Q-BKL-7/8-10	2.5	183	37	27	38	12	17	26	1.14
Q-BKL-10-10	4.0	218	45	37	44	15	21	31	1.96
Q-BKL-13-10	6.7	282	55	49	48	19	30	40	4.04
Q-BKL-16-10	10	341	62	65	61	25	37	50	7.368
Q-BKL-18/20-10	16	368	68	70	72	31	44	62	11.89



Gunnebo Safety hooks BKLK



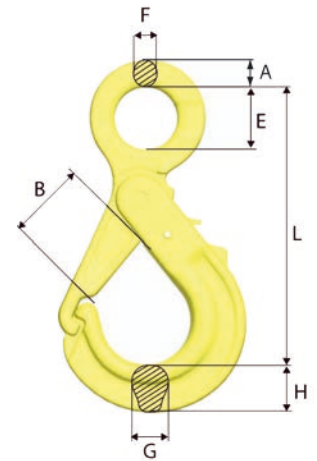
With swivel eye

Part no.	WLL 4:1 ton	L mm	B mm	C mm	E mm	A mm	G mm	H mm	Weight kg
Q-BKLK-6-10	1.5	149	29	24	33	11	15	21	0.724
Q-BKLK-7/8-10	2.5	183	37	27	38	12	17	26	1.18
Q-BKLK-10-10	4.0	218	45	35	44	15	21	30	2.053
Q-BKLK-13-10	6.7	280	55	45	48	19	30	40	4.06
Q-BKLK-16-10	10.0	339	59	61	61	25	37	50	7.714
Q-BKLK-18/20-10	16.0	368	68	80	60	31	44	62	12.429
Q-BKLK-22-10OS	20.0	436	79	80	80	35	50	62	16.8
Q-BKLK-26-10OS	27.0	486	100	110	102	45	54	68	26.5
Q-BKLK-32-8OS	32.8	533	120	110	102	45	62	86	32.3

Gunnebo Safety hooks OBK



Part no.	WLL 4:1 ton	A mm	L mm	B mm	E mm	F mm	G mm	H mm	Weight kg
OBK-6-10	1.5	12	103	26	22	9	15	17	0.365
OBK-7/8-10	2.5	14	139	37	28	10	20	22	0.764
OBK-10-10	4.0	16	170	47	34	13	22	29	1.329
OBK-13-10	6.7	21	206	53	44	15	28	38	2.534
OBK-16-10	10.0	26	251	68	56	19	29	45	4.433
OBK-18/20	16.0	28	293	74	60	22	44	56	8.25
OBK-22-8	15.5	22	335	87	70	24	40	58	10.512

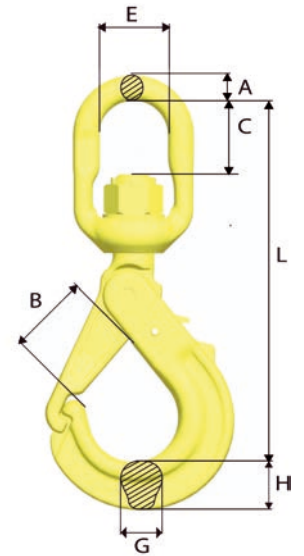


B

Gunnebo Safety hooks LBK



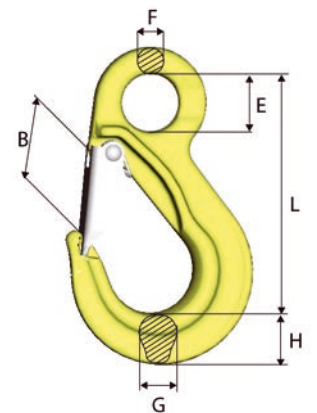
Part no.	WLL 4:1 ton	L mm	B mm	C mm	E mm	A mm	G mm	H mm	Weight kg
Q-LBK-7/8-10	2.5	177	37	27	38	12	20	22	1.062
Q-LBK-10-10	4.0	214	47	37	44	15	22	29	1.817
Q-LBK-13-10	6.7	262	53	45	48	19	29	38	3.514
Q-LBK-16-10	10.0	324	68	66	61	25	30	45	5.909



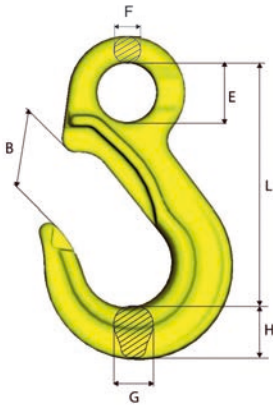
Gunnebo Sling hooks EKN



Part no.	WLL 4:1 ton	L mm	B mm	E mm	F mm	G mm	H mm	Weight kg
Q-EKN-6-10	1.5	94.0	24	22.0	10	17	20	0.371
Q-EKN-8-10	2.5	108.0	28	28.0	12	17	23	0.555
Q-EKN-10-10	4.0	134.0	37	34.0	14	23	30	1.024
Q-EKN-13-10	6.7	166.0	42	44.0	18	28	38	2.081
Q-EKN-16-10	10.0	203.0	50	56.0	22	36	47	4.048
Q-EKN-20-10	16.0	229.2	60	60.5	26	42	60	6.404
Q-EKN-22-10	20.0	267.0	73	64.0	31	43	67	8.74
Q-EKN-26-10	27.0	301.0	81	66.0	32	51	75	13.2
Q-EKN-32-8	32.0	333.0	93	76.0	38	61	80	18.927



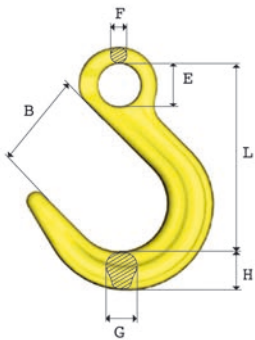
B



Gunnebo Sling hooks



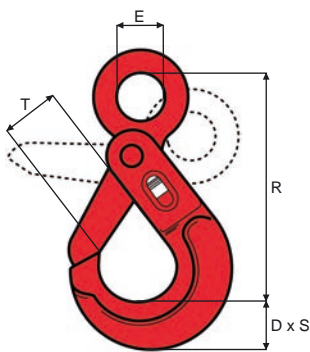
Part no.	WLL 4:1 ton	L mm	B mm	E mm	F mm	G mm	H mm	Weight kg
Q-EK-6-10	1.5	94	29	22	10	17	20	0.337
Q-EK-8-10	2.5	108	32	28	12	17	23	0.522
Q-EK-10-10	4.0	134	42	34	14	23	30	0.979
Q-EK-13-10	6.7	166	49	44	18	28	38	1.954
Q-EK-16-10	10	203	60	56	22	36	47	3.829
Q-EK-20-10	16	229.2	70	60.5	26	42	60	6.187
Q-EK-22-10	20	267	83	64	31	43	67	8.54
Q-EK-26-10	27	301	95	66	32	51	75	12.56
Q-EK-32-8	31.5	333	105	76	38	61	80	18.679



Gunnebo Eye foundry hooks



Part no.	WLL 4:1 ton	L mm	B mm	E mm	F mm	G mm	H mm	Weight kg
Q-OKE-7/8-10	2.5	124	63	28	12	21	26	0.8
Q-OKE-10-10	4.0	151	76	34	15	26	30	1.4
Q-OKE-13-10	6.7	184	90	44	19	33	39	2.8
Q-OKE-16-10	10.0	218	102	56	23	40	46	4.9
Q-OKE-20-10	16.0	247	114	60	27	46	60	7.2
Q-OKE-22-10	20.0	275	120	64	31	60	70	11.3
Q-OKE-26-10	27.0	300	113	70	35	64	77	16.0
OKE-32-8	32.0	384	145	90	42	77	94	30.0



Trawlex Self-locking hooks

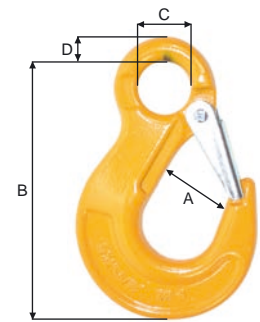


Part no.	Chain dia. mm	R mm	D mm	S mm	T mm	E mm	Weight kg
KHX07E	7	142	25	19	36	23	0.85
KHX10E	10	175	32	24	47	30	1.15
KHX13E	13	217	42	30	56	40	3.06
KHX16E	16	272	49	36	70	51	5.24
KHX19E	19	277	66	53	80	65	9.50
KHX23E	23	315	69	63	92	75	13.90

BMM Sling hooks

With latch

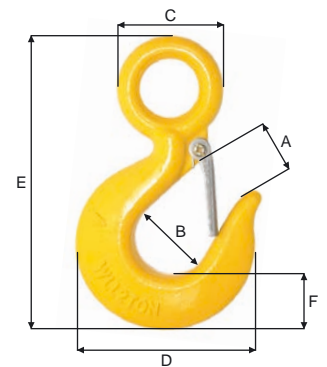
Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg
ESH07C	1.6	24	94	24	12	0.5
ESH10C	2.5	29	126	32	16	1.0
ESH13C	4.2	37	152	40	17	1.7
ESH16C	6.4	48	203	50	23	3.0
ESH19C	10.0	60	241	62	27	5.4



BMM Cargo hooks

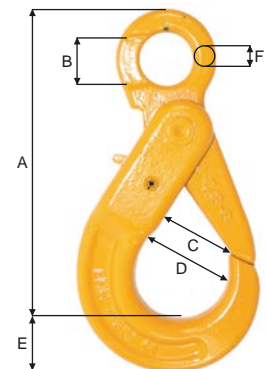
With stainless steel latch

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	Weight kg
BL10-P	1.0	21	30	19	73	110	20	0.28
BL15-P	1.5	28	32	23	82	125	22	0.40
BL20-P	2.0	30	35	28	87	141	26	0.57
BL30-P	3.0	31	42	32	102	167	30	0.91
BL45-P	4.5	38	47	39	120	205	40	1.70



BMM Safety hooks

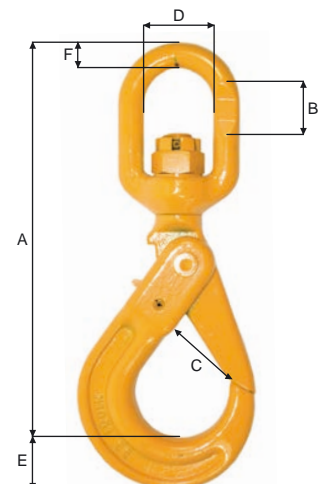
Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	Weight kg
CL06C	0.9	108	23	29	34	21	10	0.50
CL07C	1.6	134	24	37	45	25	11	0.80
CL10C	2.5	170	32	48	58	34	14	1.60
CL13C	4.2	210	40	55	68	40	18	3.00
CL16C	6.4	254	50	68	83	53	22	6.00



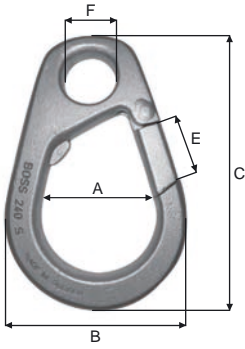
BMM Safety hooks

With swivel eye

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	Weight kg
CLE06C	0.9	148	28	28	30	22	10.0	0.70
CLE07C	1.6	185	31	33	36	25	13.0	1.10
CLE10C	2.5	229	49	45	42	35	16.0	2.00
CLE13C	4.2	290	60	54	53	40	20.0	3.80
CLE16C	6.4	335	60	66	60	52	23.0	7.10
CLE19C	10.0	380	73	88	75	63	27.0	11.10



B



Boss Purse rings

Frekhaug // Stål

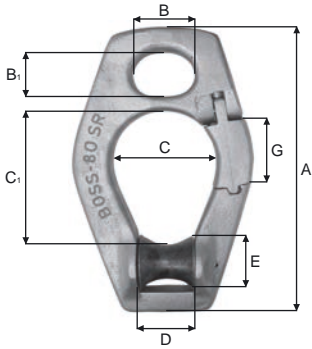
Stainless steel

Part no.	Max. working load 3:1 ton	Thickness mm	A mm	B mm	C mm	E mm	F mm	Weight kg
BOSS 220S	1.0	22	75	130	200	45	39	2.1
BOSS 230S	1.0	25	95	150	230	50	45	3.0
BOSS 240S	1.2	30	110	165	260	55	50	4.1
BOSS 250S	1.3	33	110	170	260	55	52	4.7
BOSS 260S	2.0	42	110	170	265	55	53	6.1
BOSS 285S	3.0	50	115	180	275	55	53	8.5

Boss Purse rings

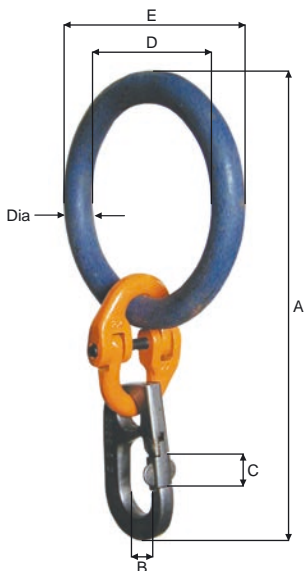
Frekhaug // Stål

Stainless steel · With roller



Part no.	Max. working load 3:1 ton	A mm	B mm	B ₁ mm	C mm	C ₁ mm	D mm	E mm	G mm	Weight kg
BOSS 40SR	1.8	252	48	48	85	95	50	49	48	3.9
BOSS 50SR	2.2	285	50		80	115	50		50	4.8
BOSS 80SR	2.8	330	48	70	120	155	66	64	75	8.4
BOSS 90SR	3.5	323	56	56	100	148	50	52	40	7.8
BOSS 100SR	2.8	365	53	53	122	190	50	52	50	8.4

Purse rings



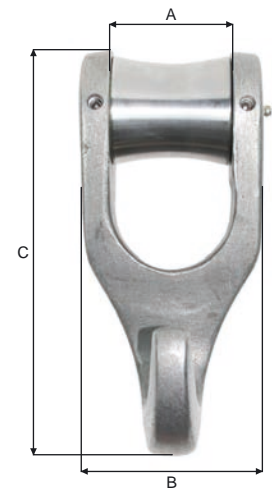
Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
BP25A	25	2.25	335	37	29	150	200	4.2

Boss Choker hooks

Frekhaug // Stål

Stainless steel

Part no.	A mm	B mm	C mm	Breaking load ton	Weight kg
BOSSCH10S	45	78	175	12	2.75
BOSSCH11S	63	100	225	18	5.50
BOSSCH12S	87	130	287	25	10.00



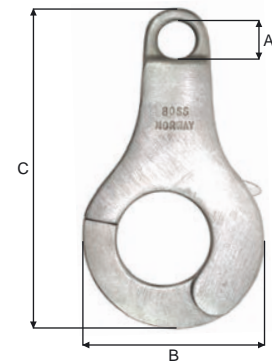
B

Boss Towing hooks

Frekhaug // Stål

Stainless steel

Part no.	WLL 5:1 ton	A mm	B mm	C mm	Weight kg
BOSSTOW10S	1.0	80	160	283	4.00
BOSSTOW15S	9.6	75	200	340	15.8



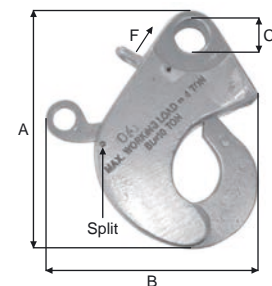
Boss Quick release hooks

Frekhaug // Stål

Stainless steel

Part no.	WLL 5:1 ton	A mm	B mm	C mm	F mm	Weight kg
BOSSRH2T	2.0	165	138	23	v. 500 kg = 10 kg v. 900 kg = 13 kg	1.6

Max working load for lifting = 2 ton + split



RINGS

- STAINLESS RINGS
- OVAL RINGS

- SPECTACLES
- PEAR RINGS

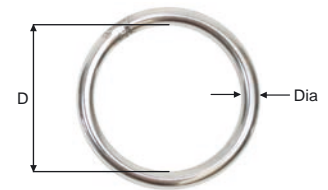
- GUNNEBO MASTERLINKS
- ROUND RINGS



Rings

Stainless steel

Part no.	Dia. mm	D mm	Weight kg/100
C06-30SSR	6	30	2.7
C06-45SSR	6	45	3.6
C06-60SSR	6	60	5.2
C08-45SSR	8	45	6.5
C08-60SSR	8	60	8.8
C08-90SSR	8	90	13.2
C10-60SSR	10	60	14.0
C10-75SSR	10	75	18.0
C10-90SSR	10	90	20.0
C12-60SSR	12	60	21.0
C12-75SSR	12	75	25.0
C12-90SSR	12	90	29.0
C12-150SSR	12	150	47.0
C14-60SSR	14	60	29.0
C14-75SSR	14	75	35.0
C14-90SSR	14	90	42.0
C14-110SSR			
C16-150SSR	16	150	84.0
C16-200SSR	16	200	110.0
C19-75SSR	19	75	67.0
C19-90SSR	19	90	78.0
C19-150SSR	19	150	119.0
C19-200SSR	19	200	156.0
C22-110SSR	22	110	120.0
C25-110SSR	25	110	167.0
C25-125SSR	25	125	200.0

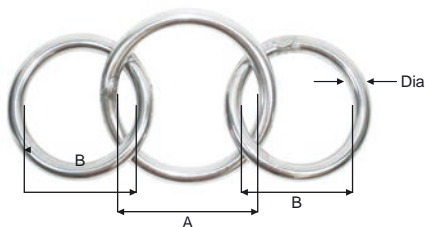


Spectacles

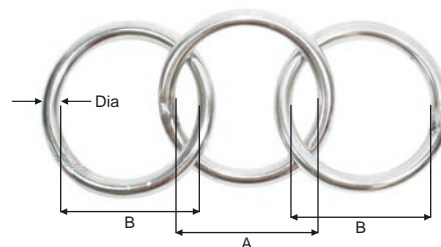
Stainless steel

Part no.	Dia. mm	A mm	B mm	Weight kg/100
CS08SS	8	60	45	21.0
CS10SS	10	75	60	44.0
CS12SS	12	75	60	63.0
CS08SS-3	8	60	60	26.4
CS10SS-3	10	75	75	54.0
CS12SS-3	12	75	75	75.0
CS14SS-3	14	75	75	105.0
CS16SS-3	16	90	90	160.0
CS19-90SSR-3	19	90	90	219.0
CS25-110SSR-3	25	110	110	501.0
CS25-150SSR-3	25	150	150	630.0

CS XX SS



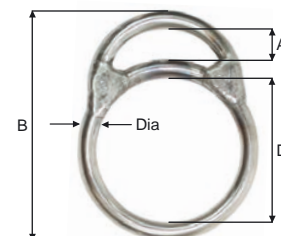
CS XX SS-3



Rings

Stainless steel

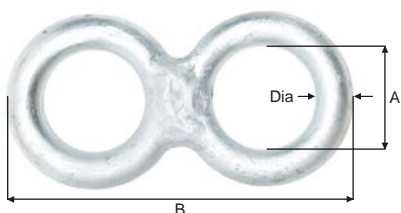
Part no.	Dia. mm	A mm	B mm	D mm	Weight kg
C10-75SSBOW	10	18	113	75	0.22
C12-75SSBOW	12	18	117	75	0.34
C14-75SSBOW	14	18	121	75	0.46



Spectacles

Galvanized

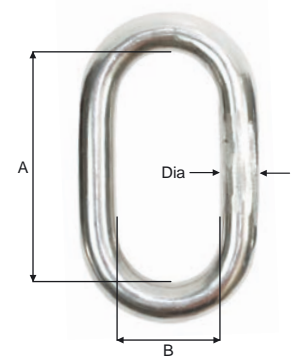
Part no.	Dia. mm	A mm	B mm	Weight kg/100
CS12GA	12	40	125	30.0
CS16GA	16	41	140	60.0



Rings · Oval

Stainless steel

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	Weight kg
C12-70SSO	12	1.0	70	30	0.20
C16-85SSO	16	1.7	85	35	0.40
C19-110SSO	19	3.2	110	45	0.70
C22-120SSO	22	4.6	120	50	1.10
C25-130SSO	25	5.8	130	50	1.50
C25-150/80SSO	25	4.0	150	80	2.5
C28-150SSO	28	7.3	150	60	2.10
C30-150SSO	30	10.0	150	60	2.50
C30-150/80SSO	30	7.5	150	80	2.76
C32-150SSO	32	12.7	150	60	2.80
C35-160SSO	35	13.5	160	75	3.20
C38-150SSO	38	15.0	150	60	4.20

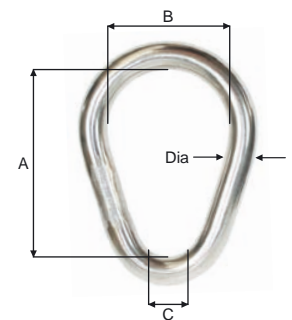


BMM can supply rings mounted with thimbles, G-hooks, swivels etc.

Rings · Pear

Stainless steel

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	Weight kg
C12-75SSP	12	1.0	70	35	15	0.22
C12-125SSP	12	0.8	125	65	24	0.33
C16-110SSP	16	1.8	110	60	28	0.50
C19-120SSP	19	3.0	120	70	36	0.80
C22-130SSP	22	4.1	130	85	45	1.40
C25-160SSP	25	5.1	160	100	45	2.20
C30-160SSP	30	7.2	160	100	45	3.00



BMM can supply rings mounted with thimbles, G-hooks, swivels etc.

Rings · Oval

Steel · Blue painted



Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	Weight kg
C12-70STO	12	1.0	70	30	0.20
C16-85STO	16	1.7	85	35	0.40
C19-110STO	19	3.2	110	45	0.70
C22-120STO	22	4.6	120	50	1.10
C25-130STO	25	5.8	130	50	1.50
C28-150STO	28	7.3	150	60	2.10
C32-150STO	32	12.7	150	60	2.80
C35-160STO	35	13.5	160	75	3.20
C38-150STO	38	15.0	150	60	4.20

Rings · Pear

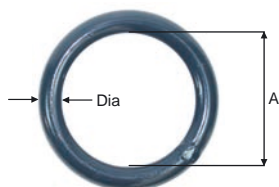
Steel · Blue painted



Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	Weight kg
C12-75STP	12	1.0	70	35	15	0.22
C12-125STP	12	0.8	125	65	24	0.33
C16-110STP	16	1.8	110	60	28	0.50
C19-120STP	19	3.0	120	70	36	0.80
C22-130STP	22	4.1	130	85	45	1.40
C25-160STP	25	5.1	160	100	45	2.20
C30-160STP	30	7.2	160	100	45	3.00

Rings

Steel or stainless steel · Blue painted



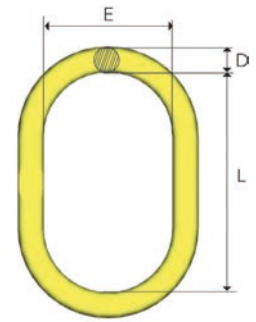
Part no.	Dia. mm	WLL 5:1 ton	A mm	Weight kg
C22-110STR	22	3.0	110	1.20
C25-125STR	25	3.5	125	1.90
C32-150STR	32	4.0	150	3.60

Masterlinks

Grade 10 · Yellowpainted



Part no.	WLL 4:1 ton	L mm	E mm	D mm	Weight kg
M-6-10	1.25	100	60	11	0.2
M-86-10	2.5	125	70	14	0.4
M-108-10	4.0	140	80	17	0.8
M-13-10	5.4	150	90	19	1.0
M-1310-10	7.5	160	95	22	1.5
M-1613-10	10.0	190	110	28	2.8
M-19-10	12.0	200	120	30	3.5
M-2016-10	17.0	240	140	34	5.2
M-2220-10	25.0	250	150	40	7.3
M-2622-10	28.0	250	150	42	7.8
M-32-10	33.0	300	180	45	11.7
M-3226-10	43.0	300	200	50	14.8
M-3632-10	56.0	350	200	55	20.7
M-4536-10	70.0	375	210	60	26.4
M-90T-10	90.0	450	250	70	42.8
M-125T-10	125.0	450	260	80	57.0



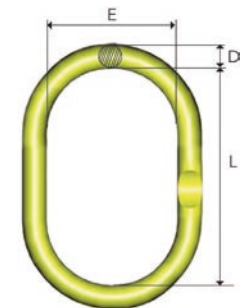
C

Masterlinks

Grade 10 · Yellowpainted



Part no.	WLL 4:1 ton	L mm	E mm	D mm	Weight kg
Q-MF-6-10	1.25	100	60	11	0.2
Q-MF-86-10	2.50	120	70	14	0.4
Q-MF-108-10	4.00	140	80	17	0.8
Q-MF-1310-10	7.50	160	95	22	1.5
Q-MF-1613-10	10.00	190	110	28	2.3
Q-MF-2016-10	17.00	240	140	34	5.3
Q-MF-2220-10	25.00	250	150	40	7.0



QUICK LINKS

- SPLIT LINKS
- QUICK LINKS

- VIKING LINKS
- CARABINE HOOKS

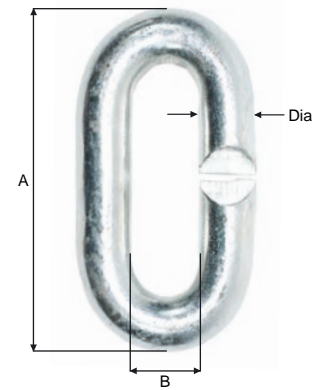
- BOSS SPLIT LINKS



Split links

Galvanized

Part no.	Size	Dia. mm	WLL 5:1 ton	A mm	B mm	Weight kg/100
DS10GAL	3/8"	10	0.1	50	16	8.5
DS12GA	1/2"	12	0.2	55	18	16.5
DS16GA	5/8"	16	0.3	72	21	33.0
DS19GA	3/4"	19	0.5	80	24	50.0
DS22GA	7/8"	22	0.6	88	27	75.0

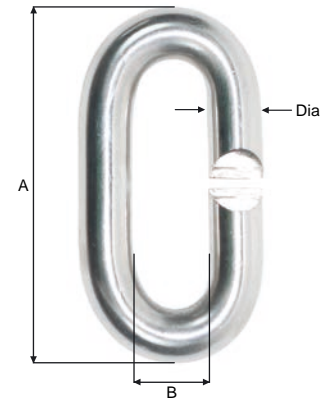


D

Split links

Stainless steel

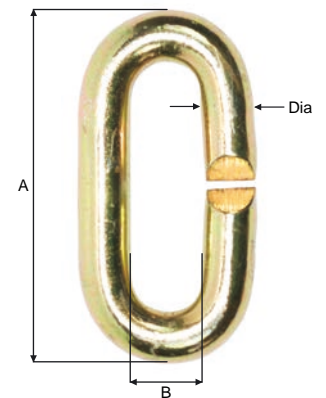
Part no.	Size	Dia. mm	WLL 5:1 ton	A mm	B mm	Weight kg/100
DS10SSL	3/8"	10	0.2	50	16	8.5
DS12SS	1/2"	13	0.3	55	18	16.5
DS16SS	5/8"	16	0.4	72	21	33.0
DS19SS	3/4"	19	0.5	80	24	50.0
DS22SS	7/8"	22	0.6	88	27	75.0



Split links

Chrome steel

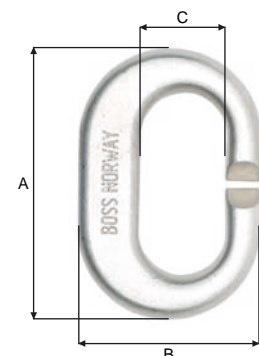
Part no.	Size	Dia. mm	WLL 5:1 ton	A mm	B mm	Weight kg/100
DS14CH	9/16"	14	0.5	60	18	20.0
DS16CH	5/8"	16	0.7	72	21	33.0
DS19CH	3/4"	19	1.4	80	23	55.0
DS22CH	7/8"	22	1.8	88	27	75.0



Boss Split links

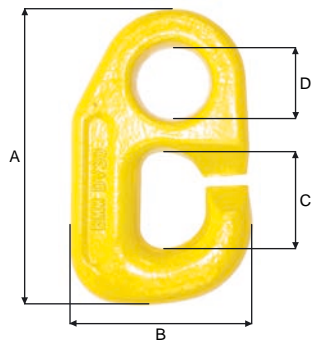
Stainless steel

Part no.	WLL 5:1 ton	A mm	B mm	C mm	Weight kg
BOSS DL18S	0.2	78	45	18	0.17
BOSS DL19S	0.4	79	50	24	0.27
BOSS DL20S	0.5	82	55	24	0.30
BOSS DL21S	1.4	108	63	25	0.70
BOSS DL22S	1.3	106	68	33	0.60



Viking links

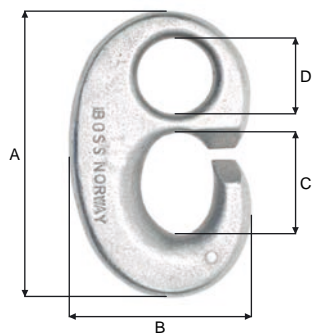
High tensile steel · Quenched and tempered · Forged



Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg	Boxes of pcs
DV15	1.5	102	61	27	27	0.39	50
DV30	3.0	115	70	29	30	0.70	30
DV50	5.0	130	80	34	36	1.10	20
DV80	8.0	145	90	41	42	1.60	10

Boss Links

Stainless steel



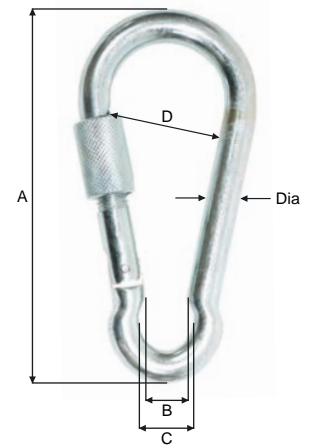
Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg
BOSS DL26S	2.4	150	95	38	28	1.65
BOSS DL27S	5.0	212	132	58	31	3.60
BOSS DL28S	12.0	260	170	60	49	9.60



Carabine hooks

Lock screw · Galvanized

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100
DC08GAS	8	0.6	81	11	12	10	7.2
DC10GAS	10	0.7	100	11	16	10	14.0
DC11GAS	11	0.8	120	12	19	15	19.8
DC12GAS	12	0.9	140	14	20	17	28.5

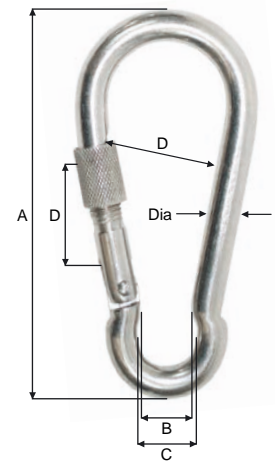


D

Carabine hooks

Lock screw · Stainless steel

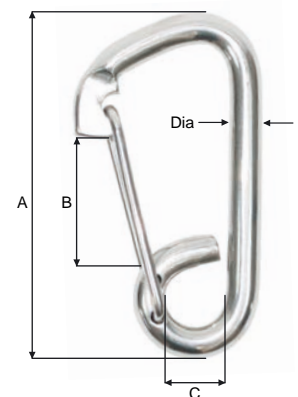
Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100
DCX06SSS	06	0.3	60	7	9	8	2.9
DCX08SSS	08	0.7	80	9	13	8	7.2
DCX10SSS	10	1.1	100	12	16	10	13.2
DCX11SSS	11	1.3	120	13	19	15	19.1



Carabine hooks

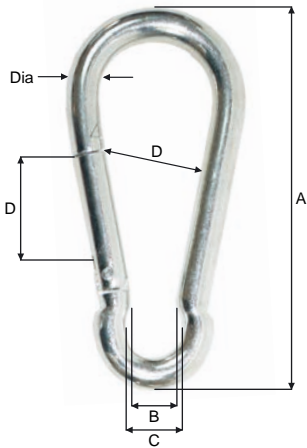
Stainless steel

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	Weight kg/100
DC06SSA	06	0.12	60	10	9	2.90
DC08SSA	08	0.32	80	15	11	7.50
DC10SSA	10	0.50	100	20	15	14.00
DC12SSA	12	0.70	120	25	19	23.40



Carabine hooks

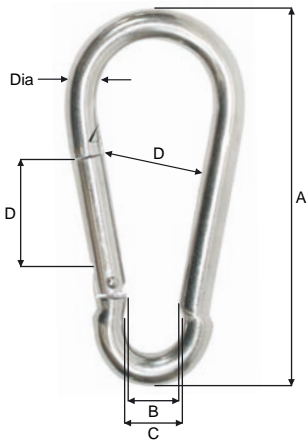
Galvanized



Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100
DC05GA	05	0.10	50	5	7	7	1.9
DC06GA	06	0.12	60	6	8	8	2.6
DC07GA	07	0.18	70	7	10	9	4.4
DC08GA	08	0.23	80	9	12	11	6.6
DC09GA	09	0.24	90	9	12	11	9.0
DC10GA	10	0.25	100	9	12	11	9.2
DC11GA	11	0.35	120	11	15	12	13.0
DC12GA	12	0.45	140	12	16	17	18.6

Carabine hooks

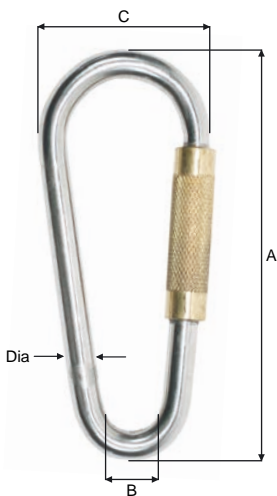
Stainless steel



Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100
DCX05SS	05	0.10	50	6	10	8	1.9
DCX06SS	06	0.12	60	8	11	9	2.8
DCX07SS	07	0.18	70	8	13	9	4.4
DCX08SS	08	0.23	80	8	13	9	6.6
DCX10SS	10	0.35	100	10	16	12	13.0
DCX11SS	11	0.45	120	11	18	16	19.0
DCX12SS	12	0.57	140	13	20	19	25.6

Carabine hooks

Stainless steel · Brass sleeve - Bow



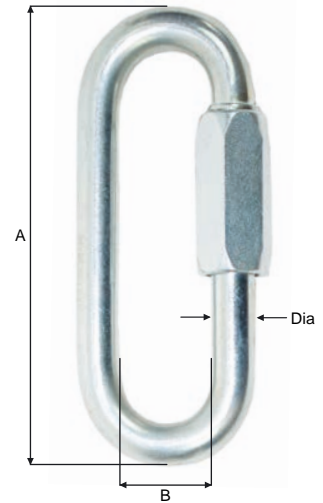
Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C mm	Opening mm	Weight kg/100
DC10SSB	10	0.100	116	16	36	22	19.0
DC12SSB	12	0.160	115	16	36	22	27.0
*DC10SSBR	10	0.100	115	16	36	22	19.5

*With ring on brass sleeve

Quick links

Galvanized

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	Opening mm	Weight kg/100	Number pr. box pcs
DQ04GAO	4	0.18	31	11	5.5	1.2	100
DQ05GAO	5	0.28	39	13	6.5	2.1	100
DQ06GAOK	6	0.40	45	14	8.0	3.5	100
DQ06GAOL	6	0.35	59	14	15.0	4.2	100
DQ08GAOK	8	0.70	58	17	13.0	7.7	100
DQ08GAOL	8	0.65	72	17	18.0	9.3	50
DQ10GAO	10	1.00	85	20	20.0	16.0	50
DQ12GAO	12	1.25	100	23	23.0	27.0	25
DQ14GAO	14	2.00	115	27	27.0	42.0	10
DQ16GAO	16	2.50	129	30	30.0	62.5	10
DQ18GAO	18	3.00	143	33	33.0	88.0	10
DQ20GAO	20	3.60	159	36	37.0	122.0	10



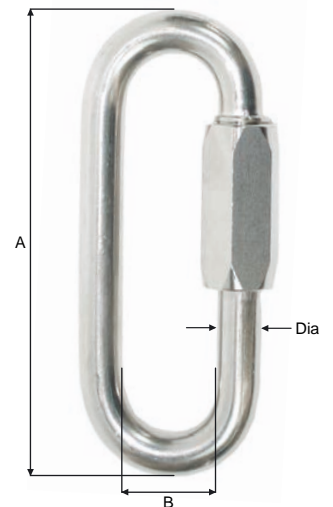
D

Can be supplied with certificate.

Quick links

Stainless steel

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	Opening mm	Weight kg/100	Number pr. box pcs
DQ04SSO	4	0.28	31	11	5.0	1.2	100
DQ05SSO	5	0.45	39	13	6.5	2.1	100
DQ06SSOK	6	0.65	45	14	7.5	3.5	100
DQ06SSOL	6	0.58	59	14	15.0	4.2	100
DQ08SSOK	8	1.10	58	17	10.0	7.7	100
DQ08SSOL	8	0.98	72	17	18.0	9.3	50
DQ10SSO	10	1.60	85	20	20.0	16.0	50
DQ12SSO	12	2.20	100	23	23.0	27.0	25
DQ14SSO	14	3.10	115	27	27.0	42.0	10
DQ16SSO	16	4.00	150	38	28.0	75.0	1
DQ19SSO	19	5.50	175	43	32.0	120.0	1
DQ22SSO	22	7.00	210	60	36.0	190.0	1



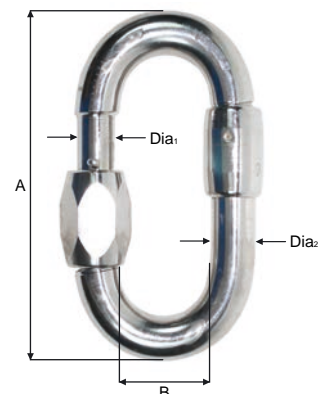
Can be supplied with certificate.

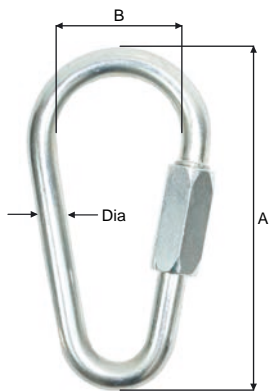
Quick links

Stainless steel

Part no.	Dia ₁ mm	Dia ₂ mm	WLL 5:1 ton	A mm	B mm	Weight kg
DQ30SSO	25	30	12.0	170	55	3.2

Split hole = dia of 5 mm



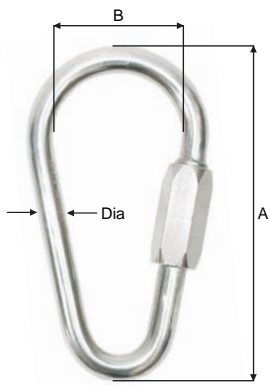


Quick links

Galvanized

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	Opening mm	Weight kg/100	Number pr. box pcs
DQ10GAP	10	0.7	97	43	22	18.3	50
DQ12GAP	12	0.9	120	52	24	32.1	25
DQ14GAP	14	1.4	129	56	27	47.9	10
DQ16GAP	16	2.0	144	63	31	71.7	10

Can be supplied with certificate.

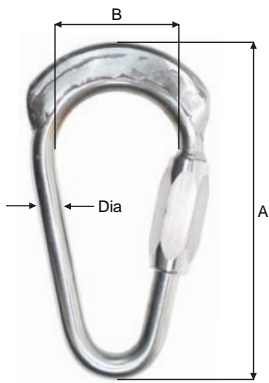


Quick links

Stainless steel

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	Opening mm	Weight kg/100	Number pr. box pcs
DQ10SSP	10	1.1	97	43	20	18.3	50
DQ12SSP	12	1.5	120	52	23	32.1	25
DQ14SSP	14	2.1	129	56	25	47.9	10
DQ16SSP	16	2.3	144	63	29	80.0	1
DQ19SSP	19	2.5	174	76	31	130.0	1
DQ22SSP	22	4.0	210	95	40	199.5	1

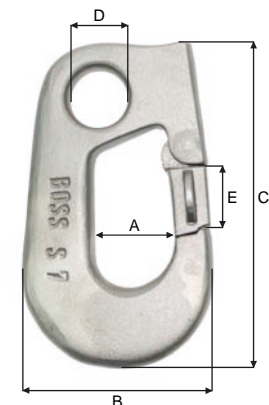
Can be supplied with certificate.



Quick links

Stainless steel - Reinforced

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	Opening mm	Weight kg/100
DQ22SSPR	22	7.0	210	95	40	240.0
DQ25SSPR	25	9.0	236	98	40	350.0



Boss hooks

Stainless steel

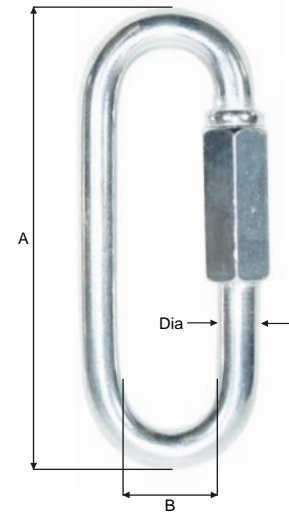
Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
BOSS S5S	1.00	27	66	111	23	19	0.5
BOSS S6S	1.25	38	77	132	27	25	0.6
BOSS S7S	2.25	37	90	153	27	29	1.2

Quick links

Galvanized

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	Opening mm	Weight kg/100	Number pr. box pcs
DQB03GAO	03	0.10	29	10	5.0	0.4	100
DQB04GAO	04	0.18	31	11	5.5	0.8	150
DQB05GAO	05	0.28	39	13	6.5	1.2	100
DQB06GAOK	06	0.40	45	14	7.5	2.1	50
DQB06GAOL	06	0.35	59	14	12.0	4.2	50
DQB08GAOK	08	0.70	58	17	10.0	5.6	50
DQB08GAOL	08	0.65	72	17	16.0	9.3	50
DQB10GAOL	10	1.00	82	22	18.0	17.0	20
DQB12GAOL	12	1.25	104	25	20.0	28.0	10
DQB14GAOL	14	1.75	112	30	25.0	41.0	8

Not for lifting applications.

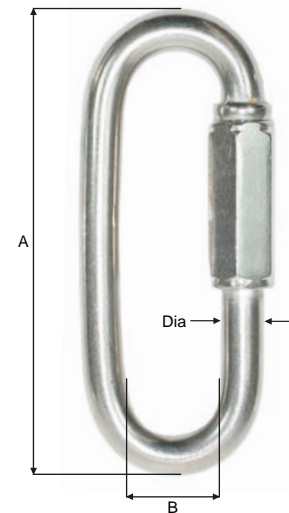


Quick links

Stainless steel

Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	Opening mm	Weight kg/100	Number pr. box pcs
DQBX06SSOL	06	0.6	59	14	15.0	4.2	100
DQBX08SSOL	08	0.8	73	19	17.5	9.3	50
DQBX10SSOL	10	1.4	80	22	17.5	16.0	50
DQBX12SSOL	12	2.0	102	25	23.5	27.0	25
DQBX14SSOL	14	2.9	114	28	23.5	42.0	10

Not for lifting applications.



BLUE LINE VARIOUS PRODUCTS

- TRIANGLES W/SWIVELS
- G-HOOKS
- RECESSED LINKS
- STEEL SPACERS
- WIRE VISE
- WASHERS
- TRIANGLES
- BUTTERFLIES
- DANLENO ARMS
- MARLINE SPIKES
- BOSS TRAWL RELEASE
- WIRE TURN TABLE
- STOPPERS
- KELLY'S EYES
- TOGGLES
- PUNCHES
- BRAILING NET LOCK

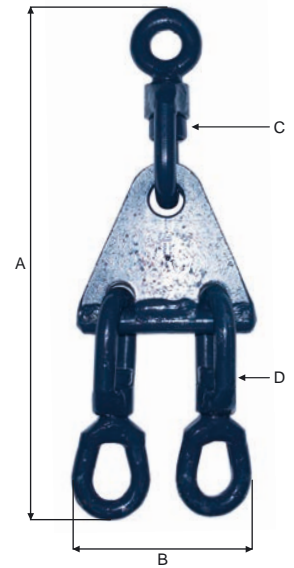


www.blueline.dk

Triangles with swivels

Part no.	WLL 5:1 ton	A mm	B mm	C	D	Plate mm	Weight kg
E4-100	2.4	340	100	A16FO	A12ST	15.0	2.90
E4-130	3.8	440	130	A19FO	A19ST	20.0	5.50

Available with variable numbers of swivels and types, on page E27

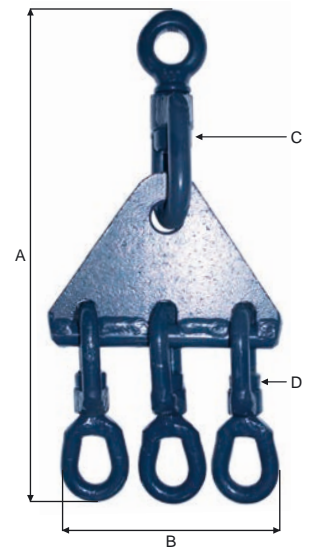


E

Triangles with swivels

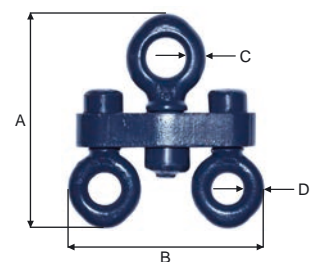
Part no.	WLL 5:1 ton	A mm	B mm	C	D	Plate mm	Weight kg
E4-250	5.3	480	250	A22FO	A19ST	20.0	9.50
E4-300	9.0	570	300	A28FO	A22FO	25.0	17.50

Available with variable numbers of swivels and types, on page E27



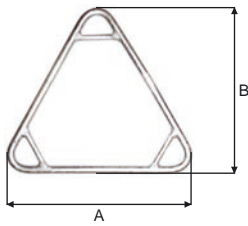
Three eye links

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg
E18	1.0	155	160	16	12	1.5
E19	3.6	160	155	19	16	2.1
E20	5.0	195	170	22	19	3.9



Triangles

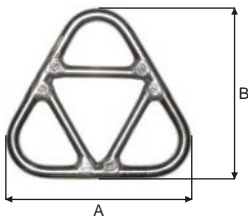
Steel · Galvanized



Part no.	Dia. mm	A mm	B mm	Weight kg
E55	16	270	240	1.5
E56	22	450	450	4.3

Triangles

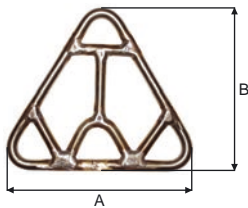
Stainless steel



Part no.	Dia. mm	A mm	B mm	Weight kg
E55SS	16	270	240	1.5
E57SS-19-200	19	200	200	1.7
E57SS-250	25	250	250	3.8

Triangles

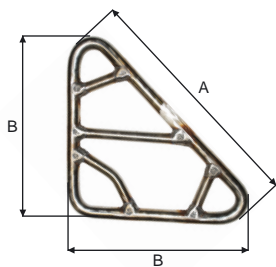
Stainless steel



Part no.	Dia. mm	A mm	B mm	Weight kg
E57SS-400	25	400	400	7.3

Triangles

Stainless steel

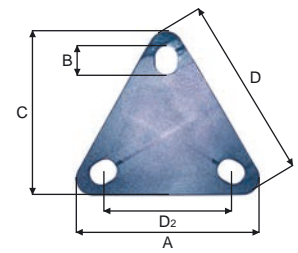


Part no.	Dia. mm	A mm	B mm	Weight kg
E59SS-333347	30	470	330	9.6
E59SS-505066	30	660	500	11.8

E

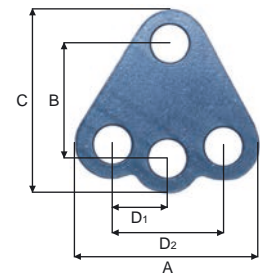
Triangles with 3 holes

Part no.	Thickness mm	A mm	B mm	C mm	D mm	D ₂ mm	Weight kg
E63-320/320/320	30	320	37 x 47	280	230	230	12.3
E63-455/340/340	30	450	37 x 47	260	250	360	15.8



Triangles with 4 holes

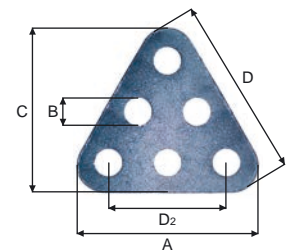
Part no.	Thickness mm	A mm	B mm	C mm	D ₁ mm	D ₂ mm	Hole dia. mm	Weight kg
EDBC20	20	165.0	89.5	165.5	44.5	89.0	35	2.307
EDBC22	22	202.0	125.5	207.5	60.0	120.0	38	3.996
EDBC25	25	254.4	162.0	264.0	76.2	152.4	38	7.784
EDBC30	30	305.0	178.0	305.0	89.0	178.0	51	12.384
EDBC40	40	351.0	178.0	331.0	99.0	198.0	64	20.222



E

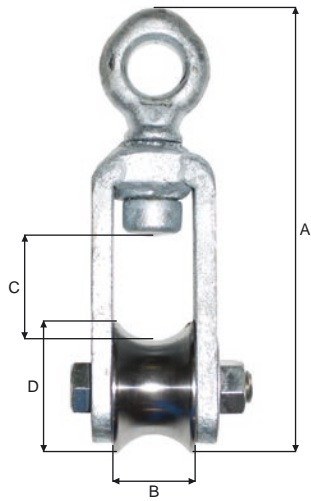
Triangles with 6 holes

Part no.	Thickness mm	A mm	B mm	C mm	D mm	D ₂ mm	Weight kg
E60	20	220	28	190	125	130	3.5
E61	25	280	35	255	185	180	9.0



Rollers

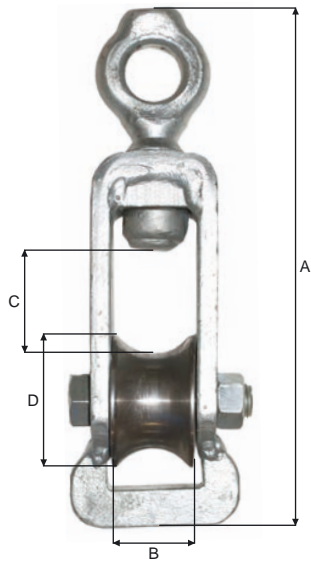
Galvanized



Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg	Spare sheave no	Spare pin no
E13G	1.0	210	40	50	60	1.8	SE13	PE13
E14G	3.6	240	50	50	80	3.9	SE14	PE14
E15G	5.0	280	50	60	80	5.2	SE15	PE15

Rollers with bow

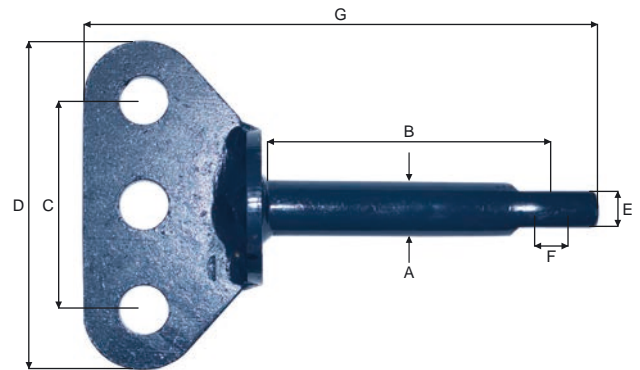
Galvanized



Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg	Spare sheave no	Spare pin no
E13BG	1.0	250	40	50	60	2.1	SE13	PE13
E14BG	3.6	275	50	50	80	4.3	SE14	PE14
E15BG	5.0	320	50	60	80	5.6	SE15	PE15
E16BG	6.8	340	70	70	90	9.2	SE16	PE16

Butterflies

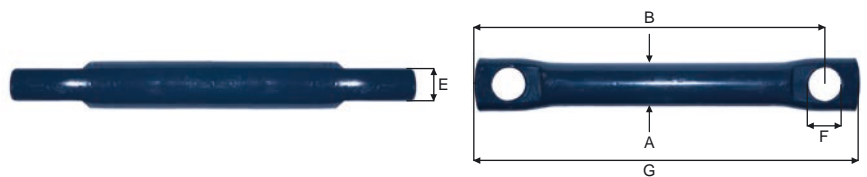
Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Weight kg	For bobbins
E24	4.2	38	210	140	220	27	24	335	4.3	9"
E25	5.0	45	255	190	270	29	28	425	7.4	12"
E26	5.0	45	275	230	310	29	28	425	7.8	14"
E27	8.5	70	470	270	355	70	34	660	34.0	16" - 18"
E29	8.5	70	620	270	370	70	34	970	40.0	21" - 24"



E

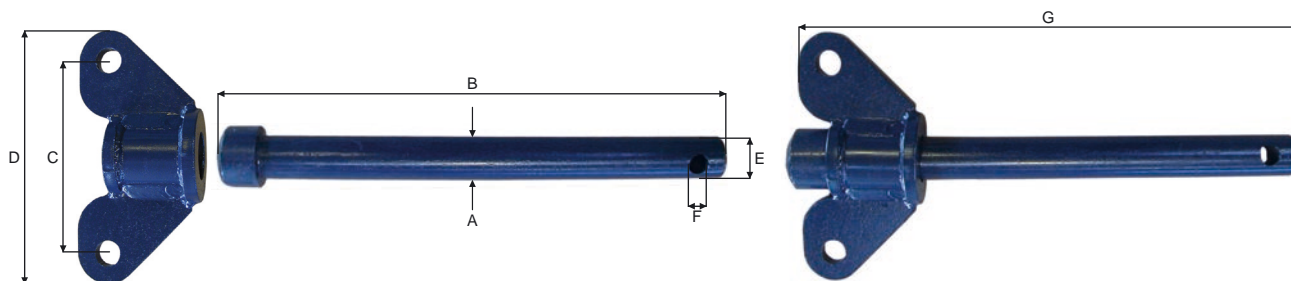
Pins

Part no.	WLL 5:1 ton	A mm	B mm	E mm	F mm	G mm	Weight kg	For bobbins
E21	4.2	38	240	27	24	300	2.3	9"
E22	4.2	38	270	27	24	330	2.6	12"
E23	5.0	45	270	29	28	335	3.6	-
E23L	8.5	70	720	70	38	820	23.0	-



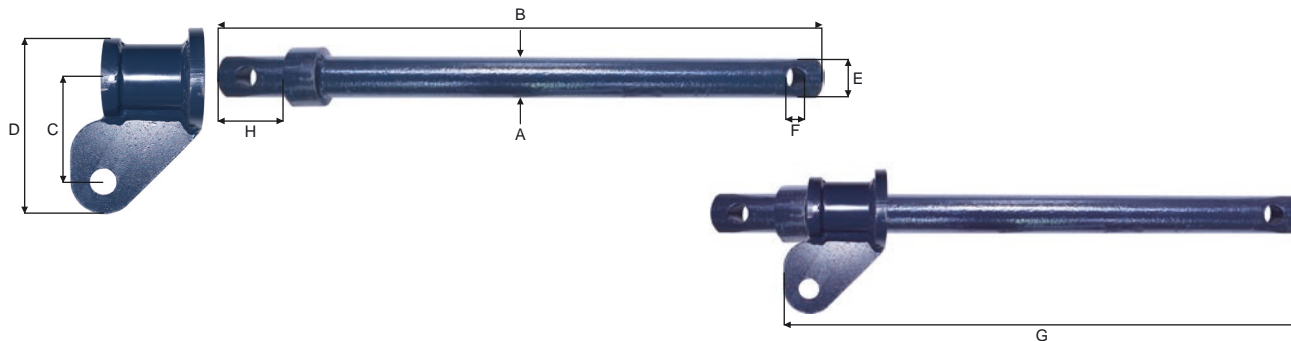
Butterflies

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Weight kg
E30-STAMME	8.5	70	820	-	-	70	35	800	29.1
E30-VINGER	8.5	-	-	310	405	-	-	-	12.9



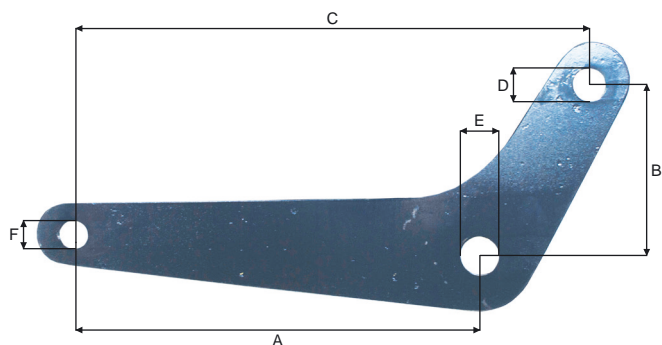
Butterflies

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Weight kg
E31-STAMME	8.5	70	1025	-	-	70	35	900	115	31.6
E31-VINGE	8.5	-	-	160	263	-	-	-	-	9.3



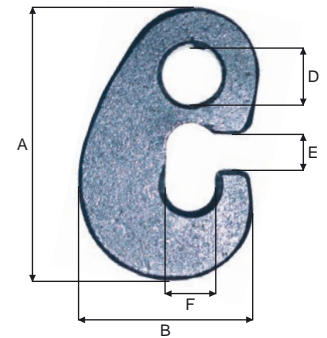
Danleno arms

Part no.	Thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	Weight kg
E50	20	375	145	470	30	30	30	6.8
E51	25	455	230	600	30	39	38	16.5



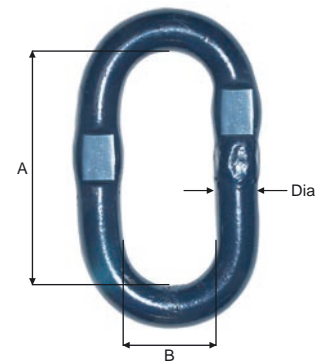
G-hooks

Part no.	WLL 5:1 ton	Thickness mm	A mm	B mm	D mm	E mm	F mm	Weight kg
EG01	1.0	12	88	55	17	10.5	14	0.36
EG02	1.5	16	107	66	20	13.0	19	0.60
EG03	3.2	20	123	77	26	15.0	22	0.90
EG04	4.4	25	150	95	32	20.0	26	1.80
EG05	5.6	30	180	115	38	23.0	31	3.10
EG06	10.0	35	195	126	41	25.0	34	4.40
EG07	12.5	40	230	140	47	28.0	38	6.60



Recessed links

Part no.	WLL 5:1 ton	Dia. mm	A mm	B mm	Recessed link mm	Weight kg
ER01	1.0	12	70	30	10	0.20
ER02	1.5	16	85	35	12	0.40
ER03	3.2	20	110	45	14	0.90
ER04	4.4	25	130	50	18	1.50
ER05	5.6	28	150	60	21	2.10
ER06	10.0	32	150	60	23	2.80
ER07	12.5	35	160	73	26	3.80



E

Part combinations

Oval rings + G-hooks



Part no.	WLL 5:1 ton	Description			Weight kg
EGR01	1.0	C12-70STO	+	EG01	0,70
EGR02	1.5	C16-85STO	+	EG02	1.00
EGR03	3.2	C19-110STO	+	EG03	1.60
EGR04	4.4	C25-130STO	+	EG04	3.20
EGR05	5.6	C28-150STO	+	EG05	5.60
EGR06	10.0	C32-150STO	+	EG06	6.80
EGR07	12.5	C35-140STO	+	EG07	9.50

Part combinations

Recessed link + Swivel + Oval ring

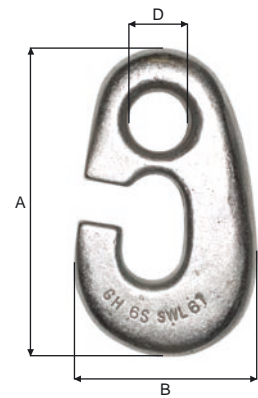


Part no.	WLL 5:1 ton	Description			Weight kg		
ETC01	1.0	ER01	+	A10CTD	+	C12-70STO	0,70
ETC02	1.5	ER02	+	A16FO	+	C16-85STO	1.70
ETC03	3.2	ER03	+	A19FO	+	C19-110STO	3.10
ETC04	4.4	ER04	+	A22FO	+	C25-130STO	5.30
ETC05	5.6	ER05	+	A25FO	+	C28-150STO	7.90
ETC06	10.0	ER06	+	A28ST	+	C32-150STO	11.20
ETC07	12.5	ER07	+	A32ST	+	C35-140STO	14.30

Boss G-hooks

Stainless steel

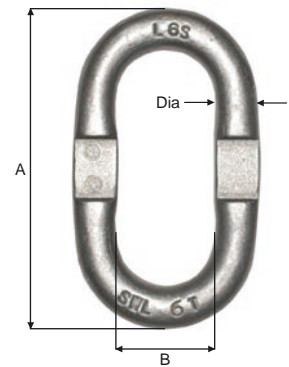
Part no.	Size	WLL 5:1 ton	Thickness mm	A mm	B mm	D mm	Weight kg
BOSS GH3S	1"	3.0	25	122	76	23	0.90
BOSS GH6S	1 1/4"	6.0	33	178	104	35	2.70



Boss Recessed links

Stainless steel

Part no.	Thickness mm	Size	Dia. mm	WLL 5:1 ton	A mm	B mm	Weight kg
BOSS L3S	16	7/8"	22	3.0	98	38	0.80
BOSS L6S	22	1"	25	6.0	125	51	1.50

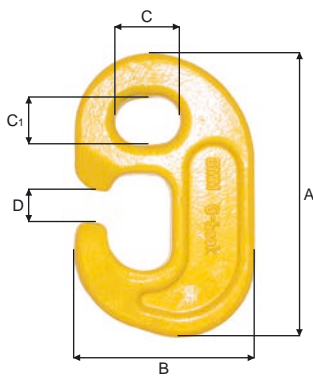


Combinations



BMM G-hooks

High tensile steel

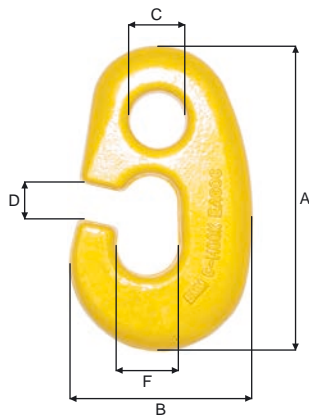


Part no.	WLL 5:1 ton	Thickness mm	A mm	B mm	C mm	C ₁ mm	D mm	Weight kg
EVG03	3.0	20	115	70	30	30	17	0.65
EVG05	5.0	26	132	82	38	38	17	1,20
EVG08	8.0	30	153	97	42	42	18	1.90
EVG10	10.0	35	180	115	40	30	18	3.30
EVG15	15.0	45	215	136	50	40	18	6.05
EVG20	20.0	50	240	155	60	50	27	8.40

E

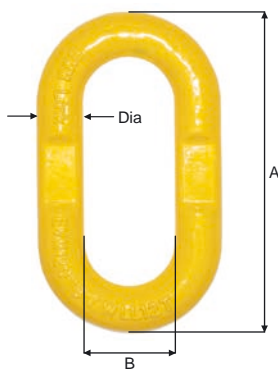
BMM G-hooks

High tensile steel



Part no.	WLL 5:1 ton	Thickness mm	A mm	B mm	C mm	D mm	F mm	Weight kg
EAG04	4.2	21	123	78	26	16	26	0.90
EAG06	6.4	32	175	103	28	21	28	2.65

BMM Master links

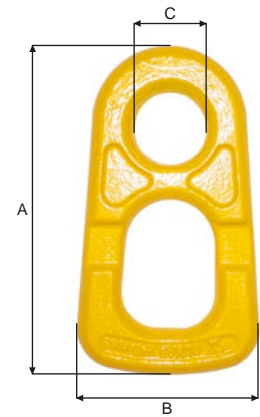


Part no.	WLL 5:1 ton	Dia. mm	A mm	B mm	Recessed link mm	Weight kg
EVM100	10.0	21	100	36	14	0.8
EVM120	12.0	25	122	48	16	1.7
EVM150	15.0	30	170	75	17	2.8
EVM200	20.0	34	185	85	25	4.2

BMM Recessed rings

High tensile steel

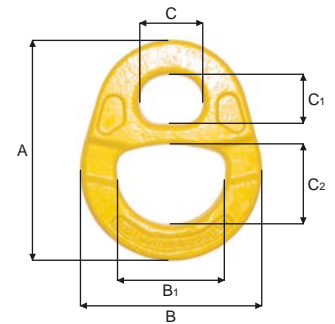
Part no.	WLL 5:1 ton	Thickness mm	A mm	B mm	C mm	Recessed link mm	Weight kg
EVR08	8.0	22	175	97	38	15	1.4
EVR10	10.0	25	205	140	40	17	2.5



BMM Kelly's eyes

High tensile steel

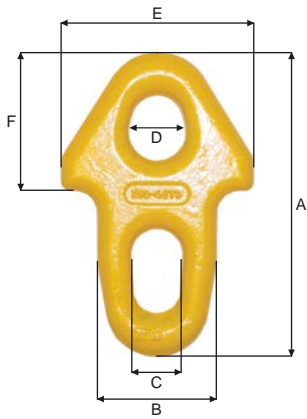
Part no.	WLL 5:1 ton	Thickness mm	A mm	B mm	B ₁ mm	C mm	C ₁ mm	C ₂ mm	Recessed link mm	Weight kg
EVR15	15.0	25	185	150	90	52	40	65	17	2.2
EVR20	20.0	41	225	185	125	80	45	106	25	5.1



Options of combinations

	EVG03	EVG05	EVG08	EVG10	EVG15	EVG20	EAG04	EAG06
EVR08	X	X	X					
EVR10			X	X				
EVR15					X			
EVR20						X		
EVM100	X	X	X				X	
EVM120				X				X
EVM150				X	X			
EVM200						X		

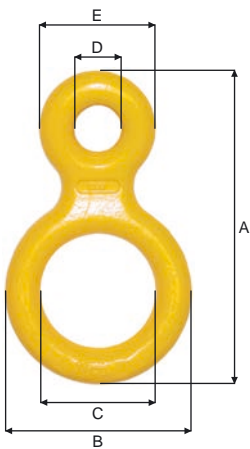
BMM Stoppers



Part no.	WLL 5:1 ton	Thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	Weight kg
E90-407S	12.0	32	220	88	36	40	140	100	3.3

E

BMM Kelly's eyes

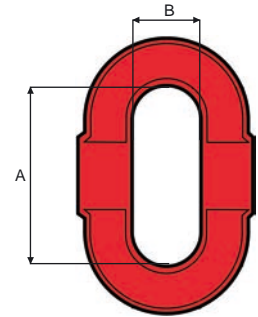


Part no.	WLL 5:1 ton	Thickness mm	A mm	B mm	C mm	D mm	E mm	Weight kg
E90-406	12.0	32	270	163	100	38	100	4.4

Trawlex Master links



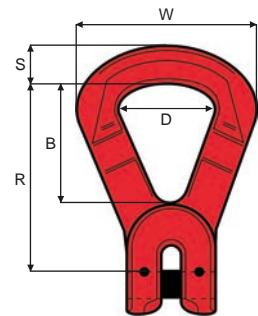
Part no.	Chain dia. mm	A pitch mm	B width mm	Weight kg
TXDR16	16	127	63	1.6



Trawlex Recessed links



Part no.	Chain dia. mm	R mm	W mm	D mm	B mm	S mm	Weight kg
TXRL16	16	156	156	89	108	27	2.72

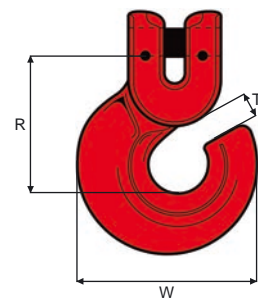


E

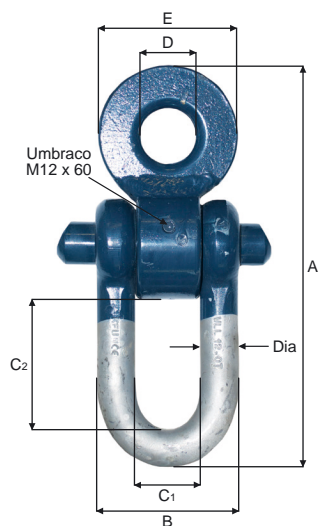
Trawlex 'G' hooks



Part no.	Chain dia. mm	R mm	T mm	W mm	Weight kg
TXG16	16	100	20	114	2.38



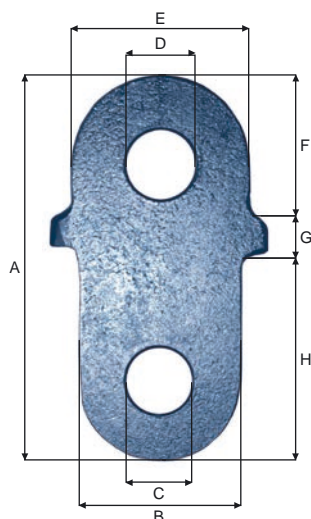
Stoppers



Part no.	Dia. mm	WLL 5:1 ton	A mm	B mm	C ₁ mm	C ₂ mm	D mm	E mm	Weight kg
E90-32S	32	12.0	285	115	52	95	43	110	8.0
E90-38S	38	19.0	365	136	60	100	50	128	12.5

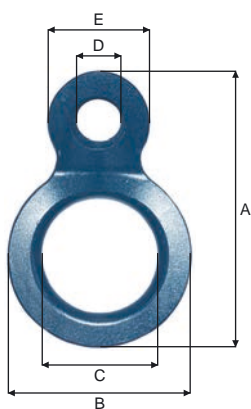
Spare parts:
 PE90-32 Pin for stopper
 SE90-32 Split for stopper

Stoppers



Part no.	WLL 5:1 ton	Thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Weight kg
E90-30S	12.0	30	267	114	45	57	154	92	34	141	6.0
E90-40S	19.0	40	267	114	45	57	154	92	34	141	8.5

Kelly's eyes

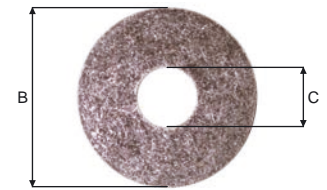


Part no.	WLL 5:1 ton	Thickness mm	A mm	B mm	C mm	D mm	E mm	Weight kg
E90-25	7.0	25	220	135	75	33	85	2.8
E90-30	12.0	30	300	200	123	43	110	6.5
E90-38	19.0	40	360	235	145	50	135	12.0
E90-40	19.0	40	310	205	123	43	120	9.8

Washers

Round hole

Part no.	Thickness	B	C	Weight	For chain
	mm				
EW8-100-40	8	100	40.0	40.0	10
EW8-100-50	8	100	50.0	37.0	13
EW8-120-40	8	120	40.0	60.0	10
EW8-120-50	8	120	50.0	55.0	13
EW8-150-40	8	150	40.0	120.0	10
EW8-150-50	8	150	40.0	110.0	13
EW8-150-60	8	150	60.0	100.0	16
EW10-120-25,5	10	120	25.5	78.0	-
EW10-120-30,5	10	120	30.5	75.0	-
EW10-120-50	10	120	50.0	70.0	13
EW10-120-60	10	120	60.0	65.0	16
EW10-150-40	10	150	40.0	150.0	10
EW10-150-50	10	150	50.0	140.0	13
EW10-150-60	10	150	60.0	130.0	16
EW10-150-75	10	150	75.0	98.0	19
EW10-200-75	10	200	75.0	201.0	19
EW12-150-75	12	150	70.0	135.0	19
EW12-200-75	12	200	75.0	247.0	19
EW14-150-75	14	150	75.0	133.0	19
EW14-200-75	14	200	75.0	275.0	19
EW20-200-75	20	200	75.0	398.0	19
EW25-200-75	25	200	75.0	508.0	19

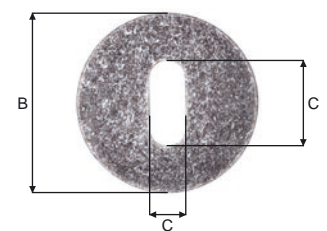


E

Washers

Oval hole

Part no.	Thickness	B	C	Weight	For chain
	mm				
EW8-120-54	8	120	21 x 54	57.0	HL-13-8
EW10-120-61	10	120	21 x 61	66.0	LL-16-8
EW10-150-48	10	150	71 x 48	160.0	HL-11-8
EW10-150-54	10	150	21 x 54	160.0	HL-13-8
EW10-150-61	10	150	21 x 61	160.0	LL-16-8
EW10-150-71	10	150	23 x 71	150.0	LL-19-8
EW12-150-71	12	150	23 x 71	137.0	LL-19-8

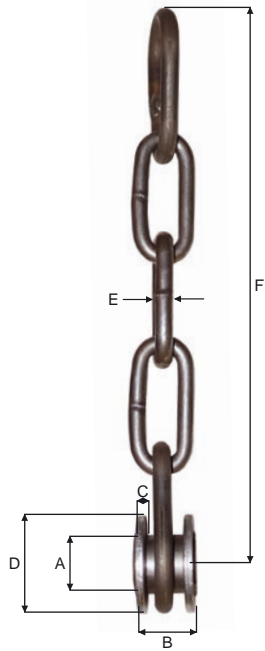


Wire toggles

For wire

Part no.	A	B	C	D	E	F	Weight	For wire dia
	mm	mm	mm	mm	mm	mm	kg/100	mm
E318-5	18	26	4	42	8	240	40.0	16
E326-5	26	28	5	57	10	300	92.0	25

Number of links on order, standard 5 links.



E

Chain toggles

For chain

Part no.	A	B	C	D	E	F	Weight	For chain dia
	mm	mm	mm	mm	mm	mm	kg/100	mm
E340N-5	40	50	4	70	8	270	80.0	10
E350N-5	50	50	5	83	10	315	180.0	13
E340L-5	40	200	4	70	8	240	150.0	10
E350L-5	50	200	5	83	10	310	290.0	13

Number of links on order, standard 5 links.

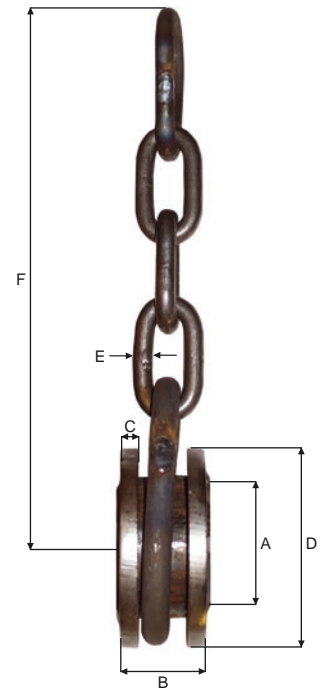


Chain toggles

Heavy type

Part no.	A	B	C	D	E	F	Weight	For chain dia
	mm	mm	mm	mm	mm	mm	kg/100	mm
E340H-5	40	50	8	80	10	300	140.0	10
E350H-5	50	50	8	120	10	320	255.0	13
E365H-5	65	50	10	120	12	320	330.0	16
E372H-5	72	50	10	150	12	390	400.0	19

Number of links on order, standard 5 links.

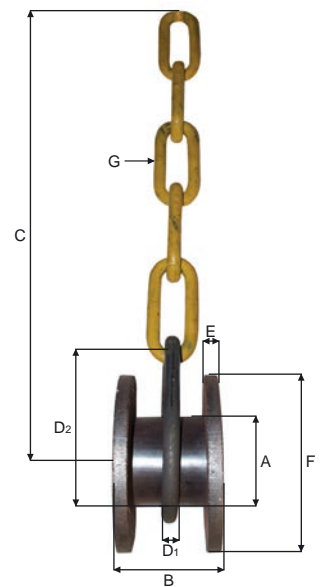


E

Spacers

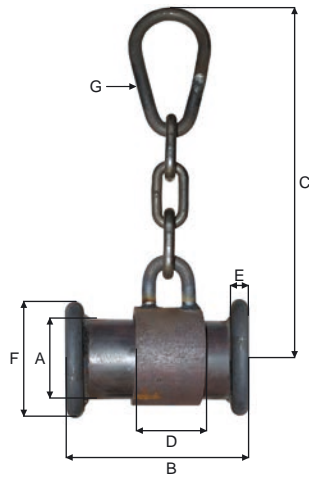
Steel · Heavy type

Part no.	A	B	C	D ₁	D ₂	E	F	G	Weight
	mm	mm	mm	mm	mm	mm	mm		kg
EDT16-075-05MLL13	63	76	428	16	165	10	134	13	3.64
EDT16-075-07MLL13	63	76	528	16	165	10	134	13	3.97
EDT16-075-10HLL11	63	76	836	16	165	10	134	11	4.15
EDT19-100-05MLL13	75	100	428	16	165	14	175	13	7.05
EDT19-100-07MLL13	75	100	528	16	165	14	175	13	7.38
EDT22-115-09MLL13	80	100	628	19	165	15	180	13	10.16
EDT22-115-10HLL13	80	100	988	19	165	15	180	13	9.50
EDT22-115-13HLL13	80	100	1231	19	165	15	180	13	10.16



Spacers

Steel · With rings · With chain

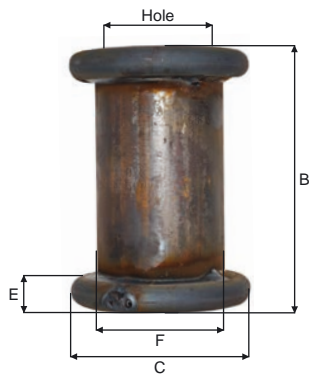


Part no.	A mm	B mm	C mm	D mm	E mm	F mm	G	Weight kg
E513-R	50	150	320	60	16	64	C12-70STP	3.1
E516-R	65	200	360	60	19	83	C12-125STP	6.1
E 519-R	80	200	380	70	22	102	C16-125STP	10.7
E516-K	65	200	335	60	19	83	C12-125STP	6.1
E519-K	80	200	335	70	22	102	C16-125STP	10.7

Part no. E513-R are fitted with chain HLB-10-2

Spacers

Steel



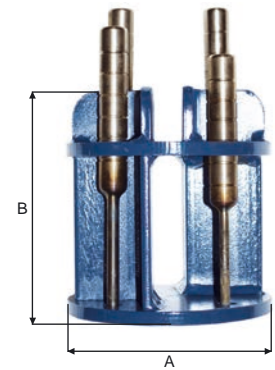
Part no.	Hole mm	B mm	C mm	E mm	F mm	Weight kg
E513	50	150	95	16	64	2.3
E516	65	200	121	19	83	4.9
E519	80	200	146	22	102	8.3



Tool with punches

For connectors

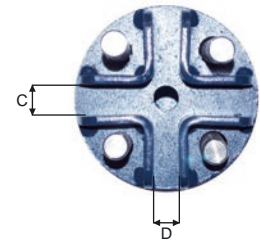
Part no.	A mm	B mm	C mm	D mm	Weight kg/100	Number of punches	For connector
E600	160	170	25	21	6.8	4	10-13-16-19
E610	160	200	35	28	7.2	2	19-22



Tool without punches

For connectors

Part no.	A mm	B mm	C mm	D mm	Weight kg/100	Number of punches	For connector
E601	160	170	25	21	5.1	0	-
E611	160	200	35	28	6.1	0	-

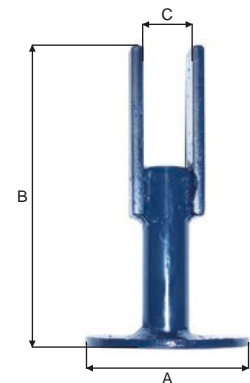


E

Tool without punches

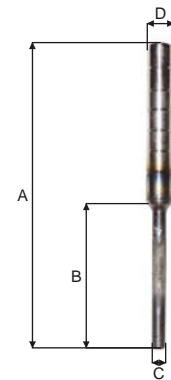
For connectors

Part no.	A mm	B mm	C mm	Weight kg/100	Number of punches	For connector
E650	120	190	32	1.7	0	13-16

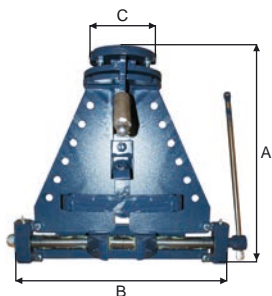


Punches

Part no.	A mm	B mm	C mm	D mm	Weight kg/100	For connector
E600-05	175	50	5	22	0.33	7
E600-07	190	70	7	22	0.36	10
E600-09	210	85	9	22	0.41	13
E600-11	220	100	11	22	0.45	16
E600-13	240	115	13	22	0.50	19
E600-15	250	125	15	22	0.55	22
E600-17	265	140	17	22	0.65	26



Wire vises



Part no.	A mm	B mm	C mm	Wire dia. mm	Weight kg	Description
E122	410	410	160	10-22	18.6	With swing
E128	510	520	160	20-28	29.8	With swing
E134	510	600	160	20-34	34.0	With swing
E134-B	510	600	160	20-34	35.5	With swing and brake

E128 and E134 are delivered with extra jaws for wire dia. 12-22 mm.

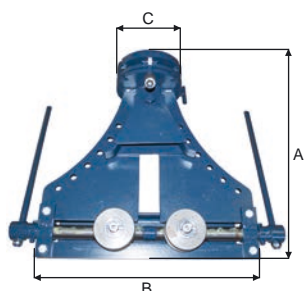
Wire vise

With motor



Part no.	A mm	B mm	C mm	Wire dia. mm	Weight kg	Description
E134-M	510	600	160	20-34	67.0	With motor for 380/220/110V (Standard 380V)

Wire vise

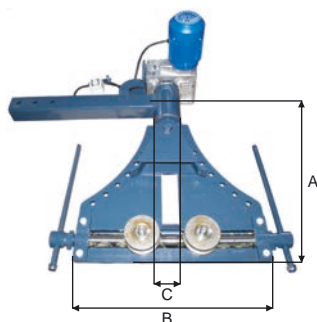


Part no.	A mm	B mm	C mm	Wire dia. mm	Weight kg	Description
E250	700	700	250	20-50	116.0	With swing and brake

Are delivered with 3 set changeable dies for wire rope dia. 20-50 mm.

Wire vise

With motor

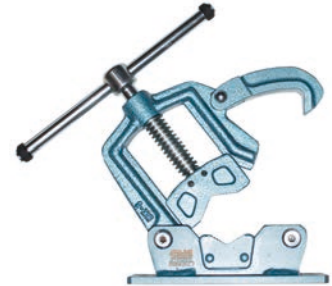
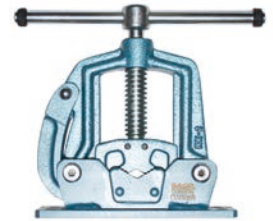


Part no.	A mm	B mm	C mm	Wire dia. mm	Weight kg	Description
E250-M	980	700	250	20-50	156.0	With motor for 380/220/110V (Standard 380V)

E250-M are delivered with 3 set changeable dies for wire rope dia. 20-50 mm.

Wire hold

Part no.	Cable dia. mm	Weight kg
E150-2	10 - 60	4.4
E150-3	10 - 89	6.5
E150-4	10 - 114	10.0

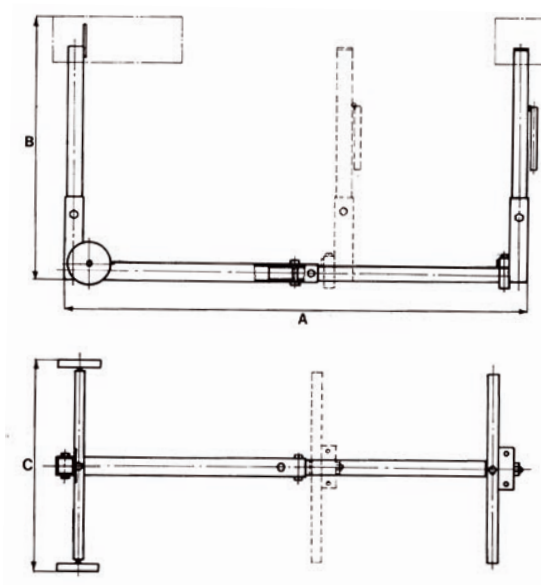


E

Splicing stands

Part no.	A max. mm	A min. mm	B max. mm	B min. mm	C mm	Weight kg	For wire vise
E160	2150	1335	1100	920	1000	70.0	E122 / E128 / E134 / E134-M / E134-B
E170	3000	2220	1290	1120	1100	120.0	E250 / E250M

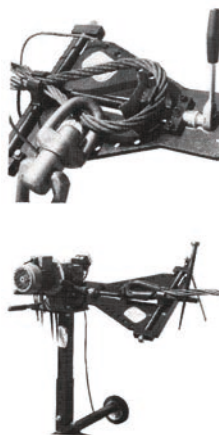
Stand without wire vise and wirehold.



Wire splicing stand with motor

Complete with wire vise · Wire hold and splicing stand

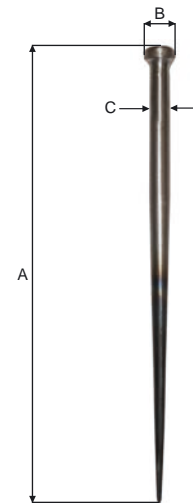
Part no.	Weight kg	Description
E200	142.0	E134-M + E150 + E160



Marline spikes for wire

Chrome steel · Hardened tip

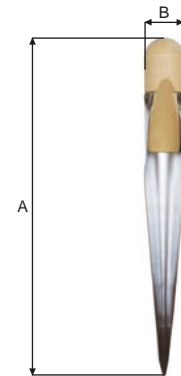
Part no.	A		B	C	Weight	Material
	mm	inch				
EM260CH	260	10"	28	16	0.24	Chrome steel · Hardened tip
EM310CH	310	12"	28	20	0.37	-
EM350CH	350	14"	38	25	0.81	-
EM450CH	450	18"	43	28	1.21	-
EM510CH	510	20"	43	28	1.39	-
EM610CH	610	24"	43	28	1.88	-
EM700CH	700	28"	43	28	2.30	-
EM900CH	900	36"	43	28	3.38	-



Marlin spikes for fiber rope

Stainless steel

Part no.	A	B	Weight	Handle
	mm			
EM170SS	170	24	0.030	Wood
EM280SS	280	32	0.125	Wood



Marlin spikes for fiber rope

Stainless steel

Part no.	A	B	Weight	Handle
	mm			
EM305SS	305	33	0.260	Nylon
EM385SS	385	43	0.460	Nylon



Selma Marlin spikes for fiber rope

Stainless steel

Part no.		Size	Weight
			kg
EM100	Set.	4.0 - 5.5 - 7.5 - 10.0 - 13.0 mm.	0.20
EM222	Stk.	22 mm.	0.25



EM100 EM222

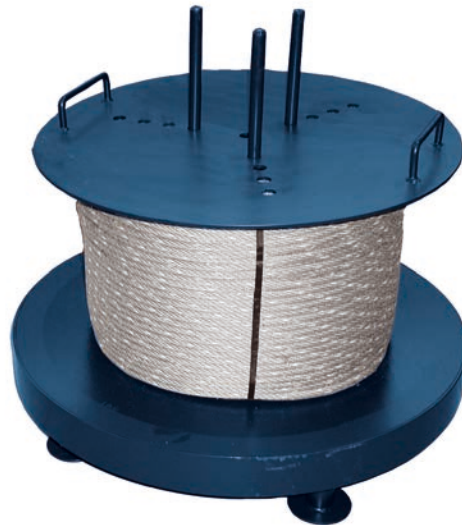
Wire turntables



Part no.	Dia. mm	Max. load kg	Weight kg
EWK0850	850	1500	87
EWK1000	1000	2500	112
EWK1500	1500	4000	153
EWK1500/6T-PROFIL	1500	6000	170

The turntable are of sturdy steel construction.

The turntable is fitted with 3 adjustable location pins.
The turntable is adjustable for various coil- & reel sizes.



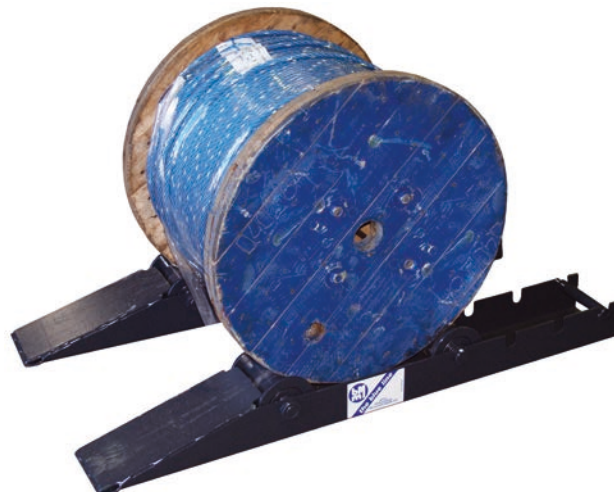
Wire rollers



Part no.	Roller dia. mm	Max. load kg	Weight kg
EWK-1140/130	130	1500	44

Set of 2 pcs.

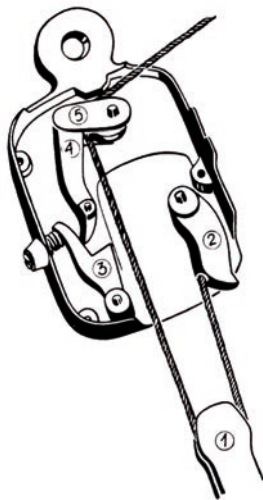
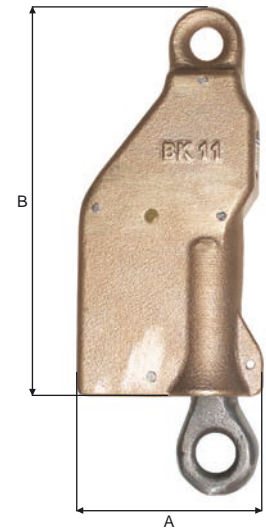
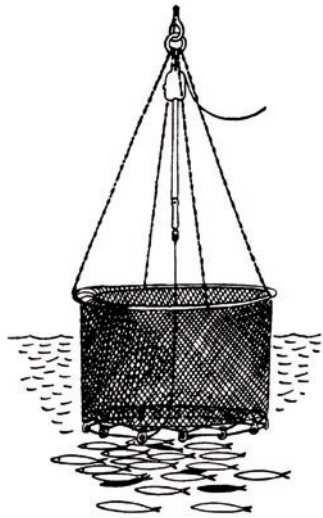
The wire roller is adjustable for various reel sizes.



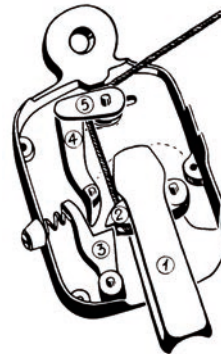
Brailing net locks

Brass and stainless steel

Part no.	A mm	B mm	Weight kg
BOSS BK11	100	220	3.90
BOSS BK12S	170	275	7.20



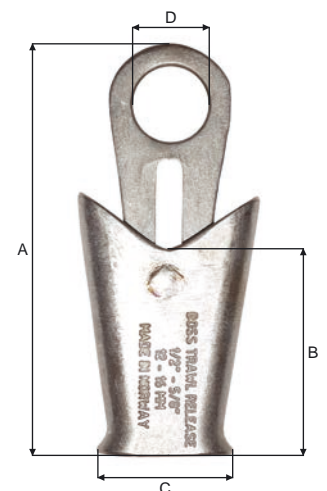
- Spare parts:
1. Sliding block
 2. Locking piece
 3. Pawl
 4. Latch
 5. Releasing arm



Boss trawl releases

Stainless steel

Part no.	Type	A mm	B mm	C mm	D mm	Weight kg
BOSS 07-12	7-12	78	59	29	15	0.4
BOSS 12-16	12-16	145	98	55	20	1.6
BOSS 16-20	16-20	167	98	65	24	1.9

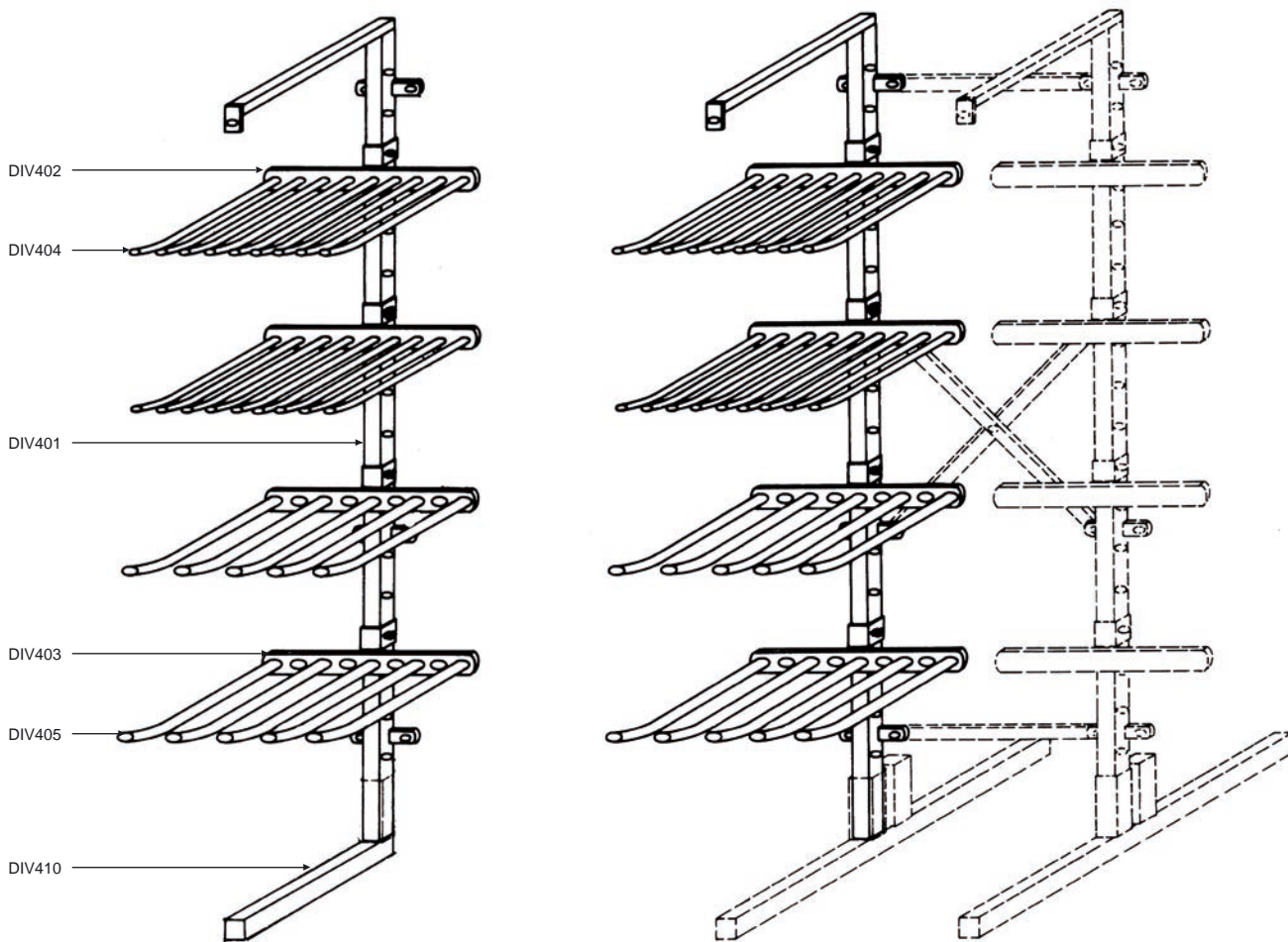


Suspension Racks

Wall-mounting or freestanding rack

Part no.

DIV401	Wallpiece 2.0 mtr
DIV402	M12 cross bar 0.5 mtr
DIV403	M16 cross bar 0.5 mtr
DIV404	M12 bar with nut
DIV405	M16 bar with nut
DIV406	M6 bar with nut M12
DIV407	M8 bar with nut M12
DIV408	Connecting piece
DIV409	Socket, double
DIV410	Socket, half



Special triangles

Part no.	Top	Bottom
E4-100	A16FO	2 x A12ST
E4-100/	Upon request	Upon request
E4-100P	Only triangle	-
E4-100/T16	A16FO	2 x A12CTD
E4-100/TU	A16FO	0
E4-130	A19FO	2 x A19ST
E4-130/	Upon request	Upon request
E4130P	Only triangle	-
E4-130/T19	A19FO	2 x A16CTD
E4-130-T22	A22FO	2 x A19FO
E4-130/TU	A19FO	0
E4-250	A22FO	3 x A19ST
E4-250/	Upon request	Upon request
E4-250P	Only triangle	-
E4-250/T22	A22FO	3 x A19FO
E4-250/2xA19ST	A22FO	2 x A19ST
E4-250/TU	A22FO	-
E4-300	A28FO	3 x A22FO
E4-300/	Upon request	Upon request
E4-300P	Only triangle	-

E

SHACKLES

- GREEN PIN
- GALVANIZED

- BLUE PIN
- STAINLESS STEEL

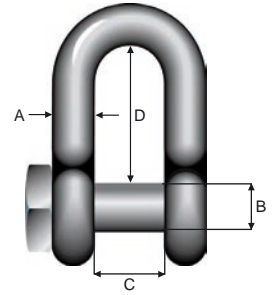
- SELFCOLOURED
- BOSS



Shackles - Selfcoloured

Bow and pin equal thickness · Square head pin · Dee type

Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
F06DS	1/4"	0.1	6	6	12	24	3.5	1000
F08DS	5/16"	0.2	8	8	16	32	7.0	500
F10DS	3/8"	0.3	10	10	20	40	13.5	300
F11DS	7/16"	0.4	11	11	22	44	17.5	200
F12DS	1/2"	0.5	12	12	25	48	25.0	150
F14DS	9/16"	0.6	14	14	28	54	38.0	100
F16DS	5/8"	0.8	16	16	32	60	55.0	70
F19DS	3/4"	1.1	19	19	38	74	92.0	40
F22DS	7/8"	1.5	22	22	44	85	138.0	30
F25DS	1"	2.0	25	25	51	97	225.0	20
F28DS	1 1/8"	2.6	28	28	56	107	316.0	10
F32DS	1 1/4"	3.2	32	32	64	122	470.0	10
F38DS	1 1/2"	4.5	38	38	76	146	700.0	6



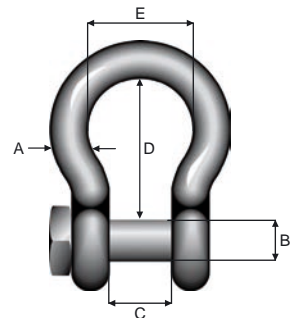
Not for lifting applications.

F

Shackles - Selfcoloured

Bow and pin equal thickness · Square head pin · Bow type

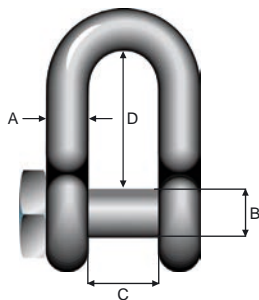
Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100	Sacks of pcs
F08HS	5/16"	0.2	8	8	16	33	24	7.0	500
F10HS	3/8"	0.3	10	10	20	42	30	14.0	300
F11HS	7/16"	0.4	11	11	22	46	35	19.0	200
F12HS	1/2"	0.5	12	12	25	52	39	26.0	150
F14HS	9/16"	0.6	14	14	28	58	46	40.0	100
F16HS	5/8"	0.8	16	16	32	67	48	55.0	70
F19HS	3/4"	1.1	19	19	38	80	57	110.0	40
F22HS	7/8"	1.5	22	22	44	92	66	150.0	30
F25HS	1"	2.0	25	25	51	107	75	225.0	20
F28HS	1 1/8"	2.6	28	28	56	117	84	330.0	10
F32HS	1 1/4"	3.2	32	32	64	134	96	470.0	10
F38HS	1 1/2"	4.5	38	38	76	154	114	798.0	6



Not for lifting applications.

Steel shackles

Blue · Dee type

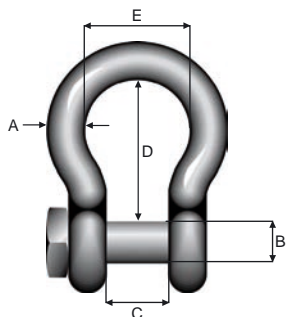


Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
FK10DB	3/8"	1.0	10	12	18	43	15.0	250
FK13DB	1/2"	1.5	12	16	27	56	30.0	250
FK16DB	5/8"	2.5	16	19	33	67	60.0	80
FK19DB	3/4"	3.0	19	22	39	80	105.0	40
FK22DB	7/8"	4.0	22	25	45	80	145.0	30
FK25DB	1"	5.0	25	28	48	92	210.0	20

Not for lifting applications.

Steel shackles

Blue · Bow type



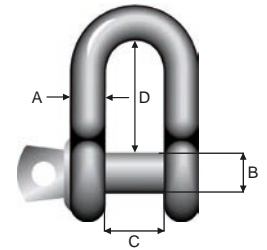
Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100	Sacks of pcs
FK13HB	1/2"	1.5	12	16	27	61	44	32.0	200
FK16HB	5/8"	2.5	16	19	33	70	54	70.0	80
FK19HB	3/4"	3.0	19	22	38	84	63	120.0	40
FK22HB	7/8"	4.0	22	25	44	90	70	165.0	30
FK25HB	1"	5.0	25	28	48	105	82	240.0	20

All blue shackles delivered stamped with WLL.
Not for lifting applications.

Shackles - Galvanized

Screw collar pin · Dee type

Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
F05DGE	3/16"	0.08	5	5	10	20	1.8	1000
F06DGE	1/4"	0.10	6	6	12	24	3.4	1000
F08DGE	5/16"	0.20	8	8	16	32	7.0	500
F10DGE	3/8"	0.30	10	10	20	40	13.5	300
F11DGE	7/16"	0.40	11	11	22	44	17.5	200
F12DGE	1/2"	0.50	12	12	25	48	25.0	150
F16DGE	5/8"	0.80	16	16	32	60	55.0	70
F19DGE	3/4"	1.10	19	19	38	74	92.0	40
F22DGE	7/8"	1.50	22	22	44	85	138.0	30
F25DGE	1"	2.00	25	25	51	97	225.0	20

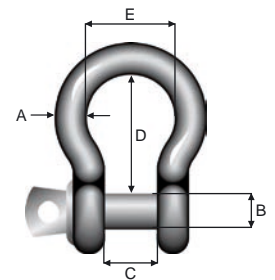


Not for lifting applications.

Shackles - Galvanized

Screw collar pin · Bow type

Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100	Sacks of pcs
F05HGE	3/16"	0.08	5	5	10	21	15	1.8	1000
F06HGE	1/4"	0.10	6	6	12	25	18	3.4	1000
F08HGE	5/16"	0.20	8	8	16	33	24	7.0	500
F10HGE	3/8"	0.30	10	10	20	42	30	14.0	300
F12HGE	1/2"	0.50	12	12	25	52	39	26.0	150
F16HGE	5/8"	0.80	16	16	32	67	48	55.0	70
F19HGE	3/4"	1.10	19	19	38	80	57	110.0	40
F22HGE	7/8"	1.50	22	22	44	92	66	150.0	30
F25HGE	1"	2.00	25	25	51	107	75	225.0	20

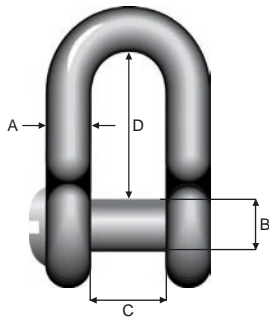


Not for lifting applications.

F

Shackles · Countersunk pin

Dee type · Galvanized

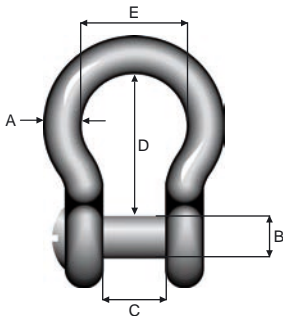


Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
F10DGC	3/8"	0.30	10	10	20	40	13.5	300
F12DGC	1/2"	0.50	12	12	25	48	25.0	150
F16DGC	5/8"	0.80	16	16	32	60	55.0	70
F19DGC	3/4"	1.10	19	19	38	74	92.0	40
F22DGC	7/8"	1.50	22	22	44	85	138.0	30
F25DGC	1"	2.00	25	25	51	97	225.0	20

Not for lifting applications.

Shackles · Countersunk pin

Bow type · Galvanized

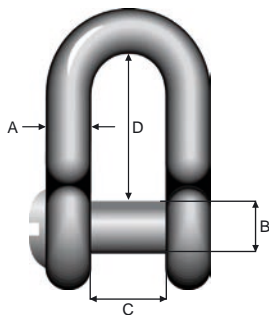


Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100	Sacks of pcs
F10HGC	3/8"	0.30	10	10	20	42	30	14.0	300
F12HGC	1/2"	0.50	12	12	25	52	39	26.0	150
F16HGC	5/8"	0.80	16	16	32	67	48	55.0	70
F19HGC	3/4"	1.10	19	19	38	80	57	110.0	40
F22HGC	7/8"	1.50	22	22	44	92	66	150.0	30
F25HGC	1"	2.00	25	25	51	107	75	225.0	20

Not for lifting applications.

Shackles · Countersunk pin

Dee type · Selfcoloured

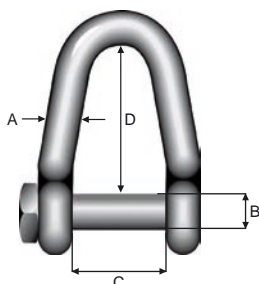


Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
F10DSC	3/8"	0.30	10	10	20	40	13.5	300
F12DSC	1/2"	0.50	12	12	25	48	25.0	150
F16DSC	5/8"	0.80	16	16	32	60	55.0	70
F19DSC	3/4"	1.10	19	19	38	74	92.0	40
F22DSC	7/8"	1.50	22	22	44	85	138.0	30
F25DSC	1"	2.00	25	25	51	97	225.0	20

Not for lifting applications.

Steel shackles

Blue · Vee type



Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
F32VB	1 1/4"	9.0	32	32	76	110	380.0	10

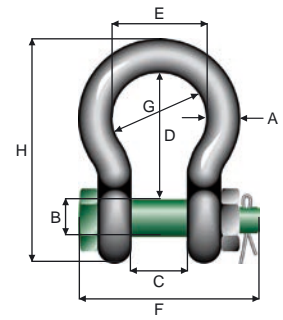
Not for lifting applications.

Green pin shackles



Safety type

Part no.	Size	WLL 6:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Weight kg/100	Sacks of pcs
F06HGPS	1/4"	0.5	6	8	12	28	20	41	16	44	5.5	25
F08HGPS	5/16"	0.75	8	10	13	31	21	50	20	52	10	25
F10HGPS	3/8"	1.0	10	11	16	36	26	57	22	60	17	25
F11HGPS	7/16"	1.5	11	13	18	43	29	67	25	70	24	25
F12HGPS	1/2"	2.0	13	16	22	51	32	80	32	84	34	25
F16HGPS	5/8"	3.25	16	19	26	64	43	95	38	104	63	20
F19HGPS	3/4"	4.75	19	22	31	76	51	112	44	123	95	10
F22HGPS	7/8"	6.5	22	25	36	83	58	127	50	136	155	5
F25HGPS	1"	8.5	25	28	43	95	68	147	56	153	230	5
F28HGPS	1 1/8"	9.5	28	32	47	108	75	165	64	176	324	4
F32HGPS	1 1/4"	12.0	32	35	51	115	83	178	70	190	440	3
F35HGPS	1 3/8"	13.5	35	38	57	133	92	194	76	216	600	1
F38HGPS	1 1/2"	17.0	38	42	60	146	99	202	84	236	750	1
F45HGPS	1 3/4"	25.0	45	50	74	178	126	243	100	286	1400	1
F50HGPS	2"	35.0	50	57	83	197	146	269	115	320	1829	1
F57HGPS	2 1/4"	42.5	57	65	95	222	160	303	130	350	2606	1
F65HGPS	2 1/2"	55.0	65	70	105	254	185	329	140	407	4200	1
F75HGPS	3"	85.0	75	80	127	330	190	373	180	505	6900	1
F89HGPS	3 1/2"	120.0	89	95	146	381	238	495	200	590	12000	1



G - 4161

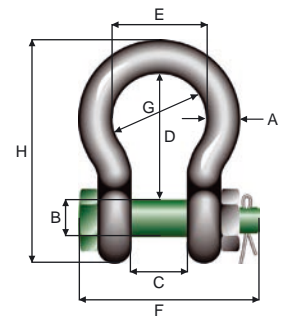
Available in D-type, e.g. F28DGPS

Green pin shackles - "Super"



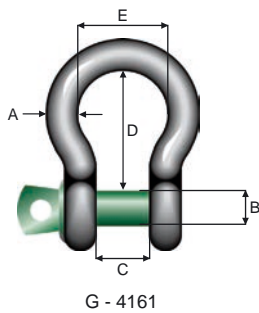
Safety type

Part no.	Size	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Weight kg/100
F38HGPSUPER	1 1/2"	30	38	42	60	146	99	202	84	236	750
F45HGPSUPER	1 3/4"	40	45	50	74	178	126	243	100	286	1400
F57HGPSUPER	2 1/4"	55	57	57	83	197	138	269	133	365	2200



G - 5263

We can supply all sizes of Green pin shackles



Green pin shackles

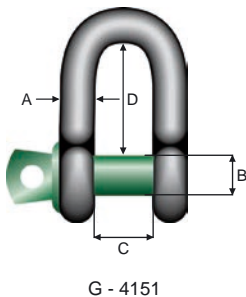
Screw collar pin

Part no.	Size	WLL 6:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100	Sacks of pcs
F06HGPE	1/4"	0.50	6	8	12	28	20	6.0	25
F08HGPE	5/16"	0.75	8	10	13	31	21	11.0	25
F10HGPE	3/8"	1.00	10	11	16	36	26	15.0	25
F11HGPE	7/16"	1.50	11	13	18	43	29	21.0	25
F12HGPE	1/2"	2.00	13	16	22	51	32	37.0	25
F16HGPE	5/8"	3.25	16	19	26	64	43	65.0	20
F19HGPE	3/4"	4.75	19	22	31	76	51	106.0	10
F22HGPE	7/8"	6.50	22	25	36	83	58	156.0	5
F25HGPE	1"	8.50	25	28	43	95	68	232.0	5
F28HGPE	1 1/8"	9.50	28	32	47	108	75	328.0	4
F32HGPE	1 1/4"	12.00	32	35	51	115	83	451.0	3
F35HGPE	1 3/8"	13.50	35	38	57	133	92	593.0	1
F38HGPE	1 1/2"	17.00	38	42	60	146	99	789.0	1
F45HGPE	1 3/4"	25.00	45	50	74	178	126	1340.0	1
F50HGPE	2"	35.00	50	57	83	197	146	1885.0	1
F57HGPE	2 1/4"	42.50	57	65	95	222	160	2606.0	1
F65HGPE	2 1/2"	55.00	65	70	105	254	185	3786.0	1
F75HGPE	3"	85.00	75	80	127	330	190	5868.0	1

F

Green pin shackles

Screw collar pin · Dee type



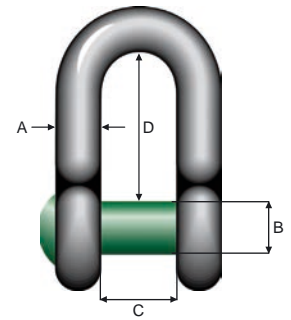
Part no.	Size	WLL 6:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
F06DGPE	1/4"	0.33	5.0	6	9.5	19	2	25
F08DGPE	5/16"	0.50	7.0	8	12.0	22	5	25
F10DGPE	3/8"	0.75	9.0	10	13.5	26	9	25
F11DGPE	7/16"	1.00	10.0	11	17.0	32	14	25
F12DGPE	1/2"	1.50	11.0	13	19.0	37	19	25
F16DGPE	5/8"	2.00	13.5	16	22.0	43	32	20
F19DGPE	3/4"	3.25	16.0	19	27.0	51	54	10
F22DGPE	7/8"	4.75	19.0	22	31.0	59	87	5
F25DGPE	1"	6.50	22.0	25	36.0	73	134	5
F28DGPE	1 1/8"	8.50	25.0	28	43.0	85	208	4
F32DGPE	1 1/4"	9.50	28.0	32	47.0	90	277	3
F35DGPE	1 3/8"	12.00	32.0	35	51.0	94	372	1
F38DGPE	1 1/2"	13.50	35.0	38	57.0	115	514	1
F45DGPE	1 3/4"	17.00	38.0	42	60.0	127	685	1
F50DGPE	2"	25.00	45.0	50	74.0	149	1145	1
F57DGPE	2 1/4"	35.00	50.0	57	83.0	171	1686	1
F65DGPE	2 1/2"	42.50	57.0	65	95.0	190	2461	1
F75DGPE	3"	55.00	65.0	70	105.0	203	3265	1

Green pin shackles



Square sunken hole · Dee type

Part no.	Size	WLL 6:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
F13DGPH	1/2"	2.00	13	16	22	51	32.0	25
F16DGPH	5/8"	3.25	16	19	26	64	55.0	20
F19DGPH	3/4"	4.75	19	22	31	76	88.0	10
F22DGPH	7/8"	6.50	22	25	36	83	137.0	5
F25DGPH	1"	8.50	25	28	43	95	205.0	5
F28DGPH	1 1/8"	9.50	28	32	47	108	284.0	4
F32DGPH	1 1/4"	12.00	32	35	51	115	386.0	3
F35DGPH	1 3/8"	13.50	35	38	57	133	517.0	1



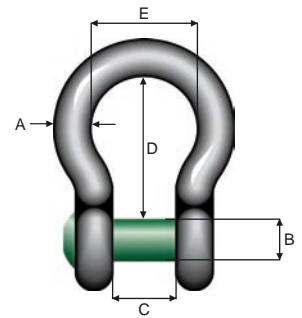
G - 4159

Green pin shackles



Square sunken hole · Bow type

Part no.	Size	WLL 6:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100	Sacks of pcs
F13HGPH	1/2"	2.00	13	16	22	51	32	34.0	25
F16HGPH	5/8"	3.25	16	19	26	64	43	61.0	20
F19HGPH	3/4"	4.75	19	22	31	76	51	98.0	10
F22HGPH	7/8"	6.50	22	25	36	83	58	146.0	5
F25HGPH	1"	8.50	25	28	43	95	68	218.0	5
F28HGPH	1 1/8"	9.50	28	32	47	108	75	309.0	4
F32HGPH	1 1/4"	12.00	32	35	51	115	83	424.0	3
F35HGPH	1 3/8"	13.50	35	38	57	133	92	559.0	1



G - 4169

F

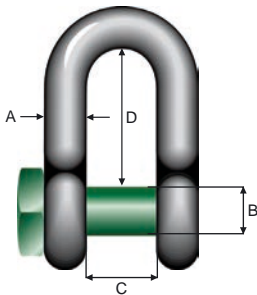
Part no.	Description	For shackle
F13KEY	key for pin size	F13 / F16 / F19
F22KEY	key for pin size	F22 / F25
F28KEY	key for pin size	F28 / F32 / F35



Green pin shackles



Square head pin · Dee type



G - 4154

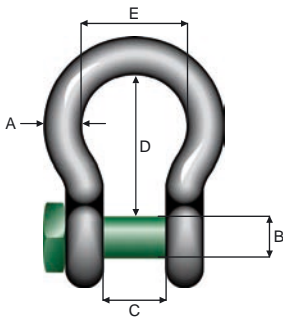
Part no.	WLL 6:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sackes of pcs
F12DGPSQ	2.00	13	16	22	43	34.0	25
F16DGPSQ	3.25	16	19	26	51	63.0	20
F19DGPSQ	4.75	19	22	31	59	95.0	10
F22DGPSQ	6.50	22	25	36	73	155.0	5
F25DGPSQ	8.50	25	28	43	85	230.0	5
F28DGPSQ	9.50	28	32	47	90	324.0	4
F32DGPSQ	12.00	32	35	51	94	440.0	3
F35DGPSQ	13.50	32	38	57	115	600.0	1
F38DGPSQ	17.00	38	42	60	127	750.0	1
F45DGPSQ	25.00	45	50	74	149	1400.0	1

F

Green pin shackles



Square head pin · Bow type



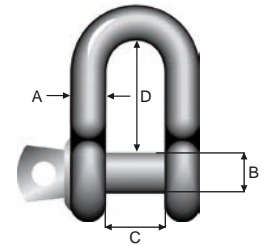
G - 4164

Part no.	WLL 6:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100	Sackes of pcs
F12HGPSQ	2.00	13	16	22	51	32	34.0	25
F16HGPSQ	3.25	16	19	26	64	43	63.0	20
F19HGPSQ	4.75	19	22	31	76	51	95.0	10
F22HGPSQ	6.50	22	25	36	83	58	155.0	5
F25HGPSQ	8.50	25	28	43	95	68	230.0	5
F28HGPSQ	9.50	28	32	47	108	75	324.0	4
F32HGPSQ	12.00	32	35	51	115	83	440.0	3
F35HGPSQ	13.50	32	38	57	133	92	600.0	1
F38HGPSQ	17.00	38	42	60	146	99	750.0	1
F45HGPSQ	25.00	45	50	74	178	126	1400.0	1

Shackles

Stainless steel · Dee type

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	Weight kg/100
F04DSS	0.06	4.0	4	8	14	1.0
F05DSS	0.12	5.0	5	10	18	2.0
F06DSS	0.15	6.0	6	12	21	4.0
F08DSS	0.3	8.0	8	16	28	7.0
F10DSS	0.4	9.5	10	20	35	11.0
F12DSS	0.6	12.0	12	24	42	25.0
F16DSS	1	16.0	16	32	58	40.0
F19DSS	1.5	20.0	20	38	66	60.0
F22DSS	2	22.0	22	44	77	90.0
F25DSS	3	25.0	25	50	88	110.0
F32DSS	3.5	32.0	32	64	112	240.0



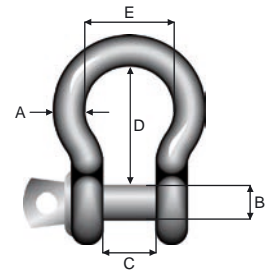
Not for lifting applications.

F

Shackles

Stainless steel · Bow type

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100
F04HSS	0.06	4.0	4	8	16	14	1.0
F05HSS	0.12	5.0	5	10	20	17	2.0
F06HSS	0.15	6.0	6	12	24	21	4.0
F08HSS	0.3	8.0	8	16	32	28	7.0
F10HSS	0.4	9.5	10	20	40	34	7.0
F12HSS	0.6	12.0	12	24	48	42	25.0
F16HSS	1.0	16.0	16	32	58	56	40.0
F19HSS	1.5	20.0	20	38	66	65	60.0
F22HSS	2.0	22.0	22	44	77	77	90.0
F25HSS	3.0	25.0	25	50	88	87	110.0
F32HSS	3.5	32.0	32	64	112	112	240.0



Not for lifting applications.

Boss Shackles

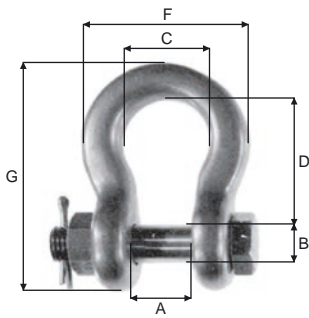
Stainless steel



Part no.	WLL 5:1 ton	Breaking load ton	A mm	B mm	C mm	D mm	E mm	Weight kg
BOSS SL10SP	3.0	17	106	53	26	16	69	0.5
BOSS SL11S	3.0	15	120	61	27	20	69	0.8
BOSS SL12S	6.0	30	134	74	34	24	73	1.5
BOSS SL14S	10.0	50	161	88	40	33	88	2.6

Boss Shackles

Stainless steel

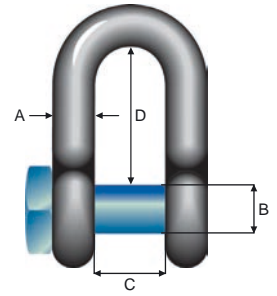


Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	F mm	G mm	Weight kg
BOSS B3S	3.0	29	19	40	70	70	100	0.6
BOSS B6S	6.0	38	25	58	84	111	150	2.4
BOSS B8S	8.0	50	33	74	114	138	195	3.8
BOSS B10S	10.0	50	37	84	119	150	210	5.5
BOSS B15S	15.0	64	44	101	141	185	256	9.5
BOSS B25S	25.0	79	51	131	180	225	319	16.0

High tensile shackles

Square head pin · Blue pin · Dee type

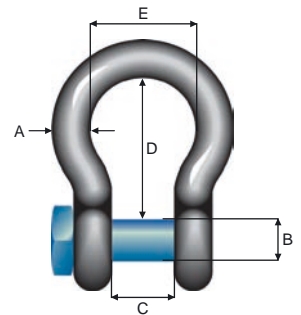
Part no.	WLL 6:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
F12DBPSQ	2.00	13	16	22	43	34.0	100
F16DBPSQ	3.25	16	19	26	51	63.0	50
F19DBPSQ	4.75	19	22	31	59	95.0	40
F22DBPSQ	6.50	22	25	36	73	155.0	20
F25DBPSQ	8.50	25	28	43	85	230.0	10
F28DBPSQ	9.50	28	32	47	90	324.0	10
F32DBPSQ	12.00	32	35	51	94	440.0	5
F35DBPSQ	13.50	35	38	57	115	600.0	5
F38DBPSQ	17.00	38	42	60	127	750.0	4
F45DBPSQ	25.00	45	50	68	149	1400.0	2



High tensile shackles

Square head pin · Blue pin · Bow type

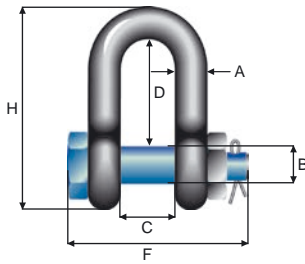
Part no.	WLL 6:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100	Sacks of pcs
F12HBPSQ	2.00	13	16	22	51	32	34.0	100
F16HBPSQ	3.25	16	19	26	64	43	63.0	50
F19HBPSQ	4.75	19	22	31	76	51	95.0	40
F22HBPSQ	6.50	22	25	36	83	58	155.0	20
F25HBPSQ	8.50	25	28	43	95	68	230.0	10
F28HBPSQ	9.50	28	32	47	108	75	324.0	10
F32HBPSQ	12.00	32	35	51	115	83	440.0	5
F35HBPSQ	13.50	35	38	57	133	92	600.0	5
F38HBPSQ	17.00	38	42	60	146	99	750.0	4
F45HBPSQ	25.00	45	50	68	178	126	1400.0	2



F

High tensile shackles

Safety type · Blue pin · Dee type

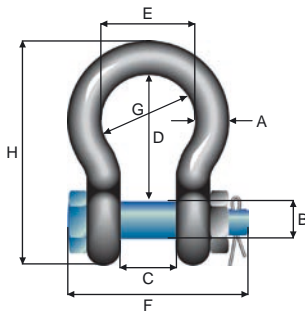


Part no.	Size	WLL 6:1 ton	A mm	B mm	C mm	D mm	F mm	H mm	Weight kg/100	Sacks of pcs
F12DBPS	1/2"	2.00	13.5	16	22	43	82	81	39	100
F16DBPS	5/8"	3.25	16.0	19	27	51	98	97	67	50
F19DBPS	3/4"	4.75	19.0	22	31	59	114	112	108	40
F22DBPS	7/8"	6.50	22.0	25	36	73	130	134	166	20
F25DBPS	1"	8.50	25.0	28	43	85	150	154	246	10
F28DBPS	1 1/8"	9.50	28.0	32	57	90	166	167	340	10
F32DBPS	1 1/4"	12.00	32.0	35	51	94	178	180	451	5
F35DBPS	1 3/8"	13.50	35.0	38	57	115	197	209	610	5
F38DBPS	1 1/2"	17.00	38.0	42	60	127	202	230	763	4
F45DBPS	1 3/4"	25.00	45.0	50	74	149	249	271	1325	2
F50DBPS	2"	35.00	50.0	57	83	171	269	305	1853	1

F

High tensile shackles

Safety type · Blue pin

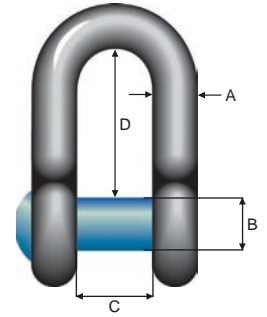


Part no.	Size	WLL 6:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Weight kg/100	Sacks of pcs
F12HBPS	1/2"	2.0	13	16	22	51	32	80	32	84	34.0	100
F16HBPS	5/8"	3.25	16	19	26	64	43	95	28	104	63.0	50
F19HBPS	3/4"	4.75	19	22	31	76	51	112	44	123	95.0	40
F22HBPS	7/8"	6.5	22	25	36	83	58	127	50	136	155.0	20
F25HBPS	1"	8.5	25	28	43	95	68	147	56	153	230.0	10
F28HBPS	1 1/8"	9.5	28	32	47	108	75	165	64	176	324.0	10
F32HBPS	1 1/4"	12.0	32	35	51	115	83	178	70	190	440.0	5
F35HBPS	1 3/8"	13.5	35	38	57	133	92	194	76	216	600.0	5
F38HBPS	1 1/2"	17.0	38	42	60	146	99	202	84	236	750.0	4
F45HBPS	1 3/4"	25.0	45	50	74	178	126	243	100	286	1400.0	2
F50HBPS	2"	35.0	50	57	83	197	146	269	115	320	1892.0	1

High tensile shackles

Square sunken hole · Dee type · Blue pin

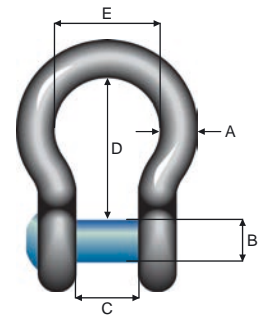
Part no.	Size	WLL 6:1 ton	A mm	B mm	C mm	D mm	Weight kg/100	Sacks of pcs
F13DBPH	1/2"	2.00	13	16	22	51	32.0	25
F16DBPH	5/8"	3.25	16	19	26	64	55.0	20
F19DBPH	3/4"	4.75	19	22	31	76	88.0	10
F22DBPH	7/8"	6.50	22	25	36	83	137.0	5
F25DBPH	1"	8.50	25	28	43	95	205.0	5
F28DBPH	1 1/8"	9.50	28	32	47	108	284.0	4
F32DBPH	1 1/4"	12.00	32	35	51	115	386.0	3
F35DBPH	1 3/8"	13.50	35	38	57	133	517.0	1



High tensile shackles

Square sunken hole · Bow type · Blue pin

Part no.	Size	WLL 6:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg/100	Sacks of pcs
F13HBPH	1/2"	2.00	13	16	22	51	32	34.0	25
F16HBPH	5/8"	3.25	16	19	26	64	43	61.0	20
F19HBPH	3/4"	4.75	19	22	31	76	51	98.0	10
F22HBPH	7/8"	6.50	22	25	36	83	58	146.0	5
F25HBPH	1"	8.50	25	28	43	95	68	218.0	5
F28HBPH	1 1/8"	9.50	28	32	47	108	75	309.0	4
F32HBPH	1 1/4"	12.00	32	35	51	115	83	424.0	3
F35HBPH	1 3/8"	13.50	35	38	57	133	92	559.0	1



F

Part no.	Description	For shackle
F13KEY	Key for pin size	F13 / F16 / F19
F22KEY	Key for pin size	F22 / F25
F28KEY	Key for pin size	F28 / F32 / F35



THIMBLES & RIGGINGSCREWS

- TUBE THIMBLES
- RIGGING SCREWS

- STAINLESS THIMBLES
- WIRE ROPE CLIPS

- ROUND THIMBLES



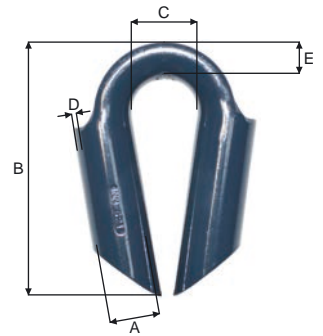
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Wire thimbles

Blue painted

Part no.	A	B	C	D	E	Weight	For wire max.
	mm	mm	mm	mm	mm	kg	mm
G215	15	109	27	5.0	10	0,42	12
G217	17	115	27	5.0	10	0.50	14
G219	19	125	32	5.0	12	0.60	16
G222	22	140	35	5.0	15	0.75	18
G225	25	158	45	6.3	16	1.23	22
G228	28	176	45	7.0	16	1.54	24
G230	30	195	47	7.0	18	1.82	26
G235	35	210	60	7.0	22	2.40	32

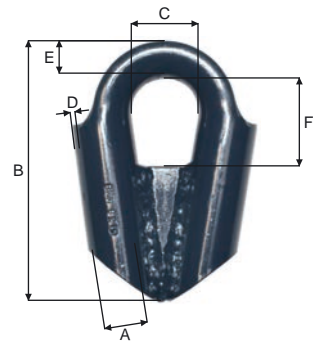


Against extra charge wire thimbles are available with galvanization.
On order add letter **G**, e.g. G215G

Wire thimbles

Blue painted · With gusset

Part no.	A	B	C	D	E	F	Weight	For wire max.
	mm	mm	mm	mm	mm	mm	kg	mm
G215K	15	109	27	5.0	10	49	0.46	12
G217K	17	115	27	5.0	10	40	0.54	14
G219K	19	125	32	5.0	12	43	0.67	16
G222K	22	140	35	5.0	15	58	0.80	18
G225K	25	158	45	6.3	16	59	1.36	22
G228K	28	176	45	7.0	16	61	1.65	24
G230K	30	195	47	7.0	18	78	2.00	26
G235K	35	210	60	7.0	22	93	2.73	32

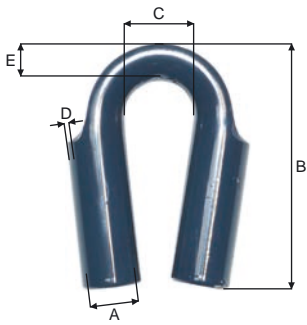


G

Against extra charge wire thimbles are available with galvanization.
On order add letter **G**, e.g. G215KG

Wire thimbles

Blue painted



Part no.	A mm	B mm	C mm	D mm	E mm	Weight kg	For wire max. mm
G712	12	84	23	4.0	8	0.21	10
G715	15	95	27	5.0	10	0.40	12
G717	17	100	27	5.0	10	0.48	14
G719	20	112	32	5.0	12	0.60	16
G722	22	125	35	5.0	15	0.71	18
G725	25	150	45	6.3	16	1.21	22
G728	28	157	45	7.0	16	1.60	24
G730	30	170	47	7.0	18	1.91	25
G735	35	190	60	7.0	22	2.36	32
G740	40	212	70	9.0	36	3.46	36
G745	45	228	70	7.0	27	3.54	38
G750	50	255	75	7.0	35	4.20	42
G755	55	268	80	7.0	31	4.80	48
G760	60	270	100	7.0	37	6.10	54

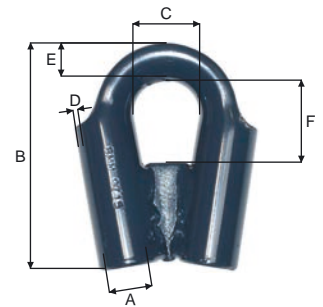
Against extra charge wire thimbles are available with galvanization.
On order add letter **G**, e.g. G712G

G

Wire thimbles

Blue painted · With gusset

Part no.	A	B	C	D	E	F	Weight	For wire max.
	mm	mm	mm	mm	mm	mm	kg	mm
G712K	12	84	23	4.0	8	24	0.36	10
G715K	15	95	27	5.0	10	31	0.52	12
G717K	17	100	27	5.0	10	38	0.55	14
G719K	20	112	32	5.0	12	46	0.65	16
G722K	22	125	35	5.0	15	47	0.90	18
G725K	25	150	45	6.3	16	61	1.26	22
G728K	28	157	45	7.0	16	56	1.64	24
G730K	30	170	47	7.0	18	68	2.02	25
G735K	35	190	60	7.0	22	73	2.50	32
G740K	40	212	70	9.0	36	80	3.70	36
G745K	45	228	70	7.0	27	94	3.71	38
G750K	50	255	75	7.0	35	97	4.65	42
G755K	55	268	80	7.0	31	99	4.90	48
G760K	60	270	100	7.0	37	120	6.10	54



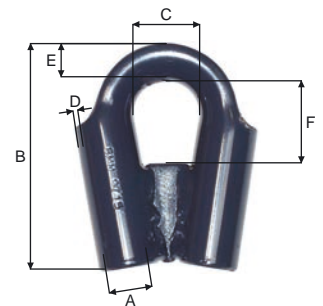
Against extra charge wire thimbles are available with galvanization.
On order add letter **G**, e.g. G712G

G

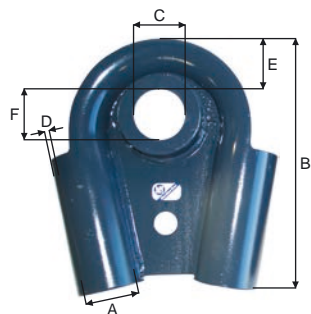
Wire thimbles heavy

Blue painted

Part no.	A	B	C	D	E	F	Weight	For wire max.
	mm	mm	mm	mm	mm	mm	kg	mm
G939H-K	39	235	75	10	27	120	5.67	36
G939H	39	235	75	10	27	-	5.20	36



Against extra charge wire thimbles are available with gusset.
On order add letter **K**, e.g. G939H-K

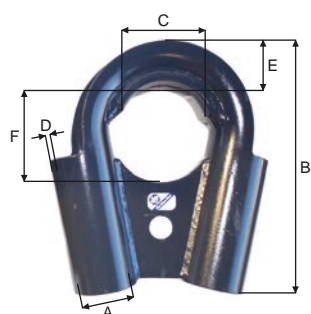


Wire thimbles

For shackle pin · Blue painted

Part no.	A mm	B mm	C mm	D +1.5 -0 mm	E mm	F mm	Weight kg	For wire max. mm
G760-PIN	60	260	61	7.0	65	61	7.9	54
G780-PIN	80	370	81	7.0	87	81	16.2	70
G798-PIN	98	435	85	7.0	93	85	31.4	88

Against extra charge wire thimbles are available in galvanized.
On order add letter **G**, G760-PING



Wire thimbles

For shackle body · Blue painted

Part no.	A mm	B mm	C mm	D +1.5 -0 mm	E mm	F mm	Weight kg	For wire max. mm
G760K-REINF	60	260	85	7.0	60	115	6.9	54
G780K-REINF	80	370	85	7.0	75	125	13.7	70
G798K-REINF	98	435	150	7.0	85	160	21.1	88

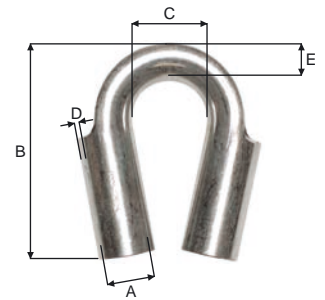
Against extra charge wire thimbles are available in galvanized.
On order add letter **G**, G760K-REINFG

G

Wire thimbles

Stainless steel

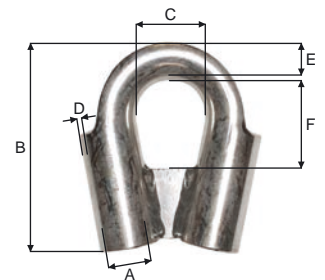
Part no.	A	B	C	D	E	Weight	For wire max.
	mm	mm	mm	mm	mm	kg	mm
G812	12	84	21	2.2	7	0.33	10
G815	15	91	27	5.0	9	0.39	12
G819	19	113	31	5.0	11	0.79	16
G824	24	136	46	5.0	15	1.04	21
G827	27	142	45	5.0	15	1.29	24
G831	31	163	48	7.0	19	1.84	28
G839	39	179	60	5.5	20	1.68	35
G848	48	220	74	5.5	32	2.71	44
G860	60	260	100	8.5	38	5.75	54



Wire thimbles

Stainless steel · With gusset

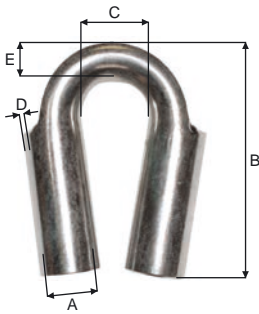
Part no.	A	B	C	D	E	F	Weight	For wire max.
	mm	mm	mm	mm	mm	mm	kg	mm
G812K	12	84	21	2.2	7	34	0.35	10
G815K	15	91	27	5.0	9	32	0.41	12
G819K	19	113	31	5.0	11	46	0.62	16
G824K	24	136	46	5.0	15	57	1.11	21
G827K	27	142	45	5.0	15	62	1.36	24
G831K	31	163	48	7.0	19	66	1.92	28
G839K	39	179	60	5.5	20	83	1.79	35
G848K	48	220	74	5.5	32	82	2.90	44
G860K	60	260	100	8.5	38	90	5.90	54



G

Wire thimbles

Stainless steel



Part no.	A mm	B mm	C mm	D mm	E mm	Weight kg
G512	12	80	21	2.4	11	0.12
G515	15	93	23	2.8	14	0.19
G521	21	116	27	2.7	16	0.28
G527	27	130	36	3.3	20	0.51

Thimbles

Round · Blue painted



Part no.	Wire dia. mm	L ₁ mm	L ₂ mm	Material mm	Weight kg/100	Description
G317-48	17	86	48	4.0	33.0	Blue painted
G319-55	19	95	55	5.0	47.0	Blue painted
G317-48G	17	86	48	4.0	33.0	Galvanized
G319-55G	19	95	55	5.0	47.0	Galvanized

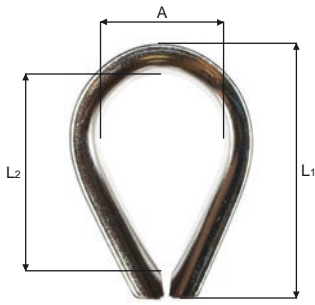
G

Thimbles

Hot dip galvanized

Part no.	Groove mm	Wire dia mm	L mm	L ₁ mm	Weight kg/100
GK210004	4	3	21	1 1/4"	1.0
GK210006	6	5	26	1 3/4"	2.0
GK210008	8	7	33	2"	3.0
GK210010	10	9.0	38	2 1/4"	6.0
GK210012	12	10/11.0	45	2 1/2"	9.0
GK210014	14	12/13.0	51	3"	12.0
GK210016	16	15.0	58	3 1/4"	18.0
GK210018	18	16.0	64	3 3/4"	31.0
GK210020	20	18.0	72	4"	35.0
GK210022	22	20.0	80	4 1/2"	42.0
GK210024	24	22.0	90	5"	68.0
GK210026	26	24.0	99	5 1/2"	74.0
GK210028	28	26.0	112	6"	95.0
GK210030	30	28.0	120	6 1/2"	107.0
GK210032	32	30.0	128	7"	150.0
GK210034	34	32.0	152	8"	195.0
GK210036	36	34.0	160	8 1/2"	213.0
GK210038	38	36.0	176	9"	240.0





Thimbles

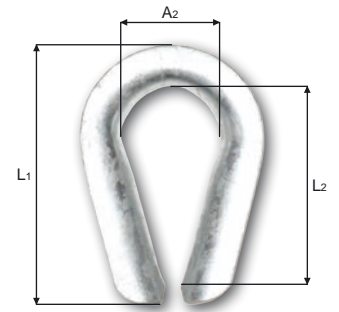
Stainless steel

Part no.	Size	L ₁ mm	L ₂ mm	A mm	Wire dia. mm	Material mm	Weight kg/100
G110002	7/8"	22	15	9	3	0.8	0.2
G110003	1"	22	16	10	4	0.8	0.3
G110004	1 1/8"	24	17	11	5	1.0	0.5
G110005	1 1/4"	32	21	13	6	1.0	0.7
G110006	1 1/2"	35	25	15	7	1.2	1.2
G110007	1 3/4"	45	33	19	8	1.5	1.5
G110008	2"	50	38	22	9	2.0	2.7
G110009	2 1/4"	58	41	24	10	2.0	2.9
G110010	2 1/2"	65	48	27	11	2.0	5.2
G110012	2 3/4"	74	56	34	14	2.0	5.5
G110014	3"	77	57	38	16	3.0	11.0
G110016	3 1/2"	87	65	40	18	3.0	12.0
G110018	4"	100	77	44	20	3.5	21.5
G110020	4 1/2"	110	86	52	22	3.5	27.0
G110022	5"	137	89	56	24	4.5	37.5
G110026	6"	147	117	65	28	5.0	62.0
G110028	7"	187	135	76	30	5.0	76.0
G110032	8"	215	160	88	34	5.0	100.0

Heavy duty thimbles

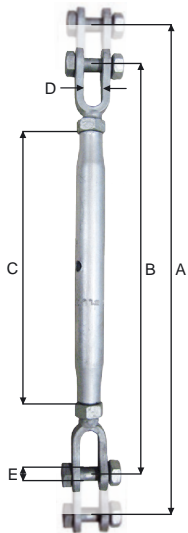
Hot dip galvanized

Part no.	Size	Groove mm	A ₂ ton	L ₁ mm	L ₂ mm	Material mm	Weight kg/100
GK414G-12	1/2"	13.5	38	92	70	3.6	23
GK414G-16	5/7"	16.8	44	108	83	4.1	34
GK414G-19	3/4"	19.8	51	127	95	5.6	67
GK414G-22	7/8"	23.9	57	140	108	5.6	79
GK414G-25	1"	26.9	63	156	114	6.4	125
GK414G-28	1 1/8-1 1/4"	33.3	73	178	130	6.4	182
GK414G-32	1 3/8"	36.6	89	230	165	9.7	371
GK414G-35	1 1/2"	39.6	89	230	165	12.7	533
GK414G-40	1 5/8"	43.7	102	286	203	12.7	772
GK414G-44	1 3/4"	46.7	114	310	229	12.7	806
GK414G-48	1 7/8"	53.1	152	384	305	12.7	1135
GK414G-56	2"	60.5	178	435	355	16.0	1793



Rigging screws

Galvanized

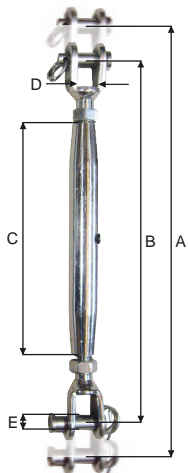


Part no.	Dia.	WLL 5:1 kg	A mm	B mm	C mm	D mm	E mm	Weight kg/100
G220006	M06	200	225	160	100	7	5	10
G220008	M08	320	260	182	110	9	6	18
G220010	M10	500	295	205	125	10	8	28
G220012	M12	700	465	315	195	13	10	66
G220016	M16	1200	550	380	230	17	12	126
G220020	M20	1500	670	460	270	20	16	220
G220022	M22	2200	745	515	295	25	20	308
G220025	M24	3200	820	565	325	28	22	470
G220032	1 1/4"	4800	975	685	370	38	28	830
G220038	1 1/2"	6000	1070	750	400	45	32	1504
G220044	1 3/4"	8500	1070	750	400	48	38	2000
G220050	2"	11000	1145	825	400	56	45	2664

Against extra charge galvanized rigging screws can be supplied with certificate.

Rigging screws

Stainless steel



Part no.	Dia.	WLL 5:1 kg	A mm	B mm	C mm	D mm	E mm	Weight kg/100
G120005	5	180	180	126	80	8	5	5.1
G120006	6	250	200	138	92	8	5	9.0
G120008	8	350	234	158	112	10	6	14.0
G120010	10	700	272	188	120	11	8	24.0
G120012	12	1020	350	244	150	14	12	52.5
G120014	14	1180	387	267	170	14	12	63.5
G120016	16	1600	446	313	190	18	14	100.0
G120020	20	2600	550	390	220	22	19	197.0
G120022	22	3400	653	472	270	30	22	430.0

Wire rope clips

DIN 741 TYPE · Galvanized

Part no.	Size	For wire	Weight	Numbers pr. box
		mm	kg/100	pcs
H50-03	1/8"	3.0	0.72	100
H50-05	3/16"	5.0	1.14	100
H50-06	1/4"	6.5	1.40	100
H50-08	5/16"	8.0	2.35	100
H50-10	3/8"	10.0	4.85	20
H50-11	7/16"	11.0	6.15	20
H50-13	1/2"	13.0	10.64	20
H50-14	9/16"	14.0	11.94	20
H50-16	5/8"	16.0	18.27	20
H50-19	3/4"	19.0	22.74	10
H50-22	7/8"	22.0	28.07	10
H50-25	1"	26.0	38.90	10
H50-28	1 1/8"	30.0	62.00	10
H50-32	1 1/4"	34.0	72.00	10
H50-38	1 1/2"	40.0	89.00	10



Wire rope clips

DIN 741 TYPE · Stainless steel

Part no.	Size	For wire	Weight	Numbers in box
		mm	kg/100	pcs
H50-02SS	1/12"	2.0	0.50	100
H50-03SS	1/8"	3.0	0.70	100
H50-04SS	5/32"	4.5	0.90	100
H50-05SS	3/16"	5.0	1.15	100
H50-06SS	1/4"	6.0	1.40	100
H50-08SS	5/16"	8.0	2.35	100
H50-10SS	3/8"	10.0	4.85	50
H50-12SS	1/2"	12.0	9.70	50
H5016SS	5/8"	16.0	18.30	20
H50-20SS	3/4"	20.0	37.00	20



G

TRADE PRODUCTS

- KNIVES
- FLOATS
- BUOYS

- FENDERS
- WIRECUTTERS
- BASKETS

- SHOWELS
- ELECTRIC CUTTERS
- NEEDLES



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Knives

Part no.	Blade length mm	Blade
HK39050-RED	63	Stainless steel
HK51233	100	Stainless steel
HK67433-BLACK	85	Stainless steel
HK67433-ORANGE	85	Stainless steel

VICTORINOX

Part no.	Blade length mm	Blade
HK50433	83	Stainless steel
HK51333	102	Stainless steel
HK67433-GREEN	85	Stainless steel
HK67433-YELLOW	85	Stainless steel

Knives

Part no.	Blade length mm	Blade
HK029	104	Stainless steel
HK546	100	Stainless steel
HK746	100	Stainless steel
HK731	148	Carbon steel
HK018	104	Stainless steel

MORAKNIV®

Part no.	Blade length mm	Blade
HK511	100	Carbon steel
HK711	100	Carbon steel
HK2000	115	Stainless steel
HK748	148	Stainless steel

All are incl. sheath.

Knives




Foldable

Part no.	Handel	Pr. box pcs
HK1050	Wood	12
		
HK1047	Wood	12
		
HK1038	Wood	12
		

Knives

Part no.	Handel	Pr. box pcs
HK822	Wood	12
		

Loewen Messer

Part no.	Handel	Pr. box pcs
HK1155	Plastic	12
		
HK1145	Plastic	12
		
HK1040	Wood	12
		

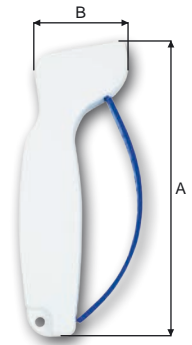
Loewen Messer

Part no.	Handel	Pr. box pcs
HK825	Plastic	12
		

H

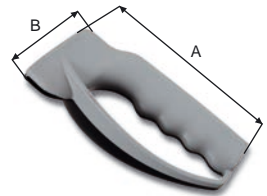
Knife sharpener

Part no.	A mm	B mm	Weight kg
HK-ACCU	145	60	0.06



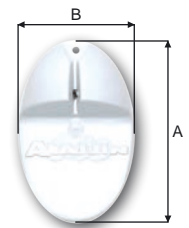
Knife sharpener

Part no.	A mm	B mm	Weight kg
HK-VICTORINOX	145	65	0.08



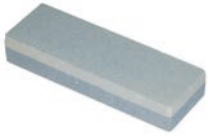
Knife sharpener

Part no.	A mm	B mm	Weight kg
HK-ALLADIN	90	55	0.04



H

Whetstone



Part no.	Dimension mm	Decription
DIV715	150 x 50 x 25	To be used with oil/water

Sharpening steel



Part no.	Length inch
HKS12	12

Sharpening steel



VICTORINOX

Part no.	Length mm	Weight kg
HK43323	144	0.03



Crocodilespanners



Part no.	Length inch	Type
HW150	27	Single ended
HW153	12	Double-ended



Tapes

Part no.	Width	Meters pr. roll	Weight pr. pack	Numbers pr. pack	Colour
	mm	m	gr	pcs	
TAP15BL	15	10	0.35	10	Blue
TAP15RØ	15	10	0.35	10	Red
TAP15GU	15	10	0.35	10	Yellow
TAP15SO	15	10	0.35	10	Black
TAP19BL	19	20	0.75	10	Blue
TAP19RØ	19	20	0.75	10	Red
TAP19GU	19	20	0.75	10	Yellow
TAP19SO	19	20	0.75	10	Black



Needles

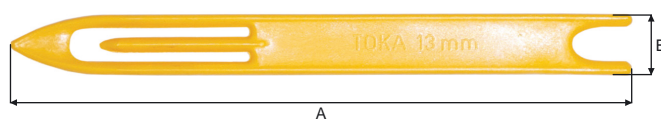
Part no.	A	B	Thickness	Numbers pr. bag	Weight pr. bag
	mm	mm	mm	pcs	kg
NÅLF1040	130	12.0	3.5	100	0.55
NÅLF1092	150	7.5	3.0	100	0.35
NÅLF1431	170	12.0	3.5	100	0,75
NÅLF908	150	15.0	4.0	100	0.85
NÅLF1041	170	20.0	4.0	100	1.25
NÅLF987	200	23.0	5.0	100	2.00
NÅLF1796	250	34.0	6.0	50	3.30



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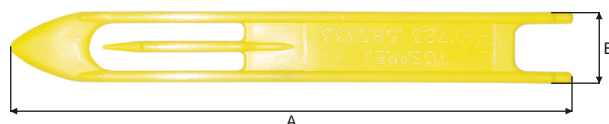
Needles

Part no.	A	B	Thickness	Numbers pr. bag	Weight pr. bag
	mm	mm	mm	pcs	kg
NÅL451/TOKA08	141	8	3.0	50	0.14
NÅL452/TOKA10	172	10	5.0	50	0.27
NÅL453/TOKA12	172	12	5.5	50	0.34
NÅL454/TOKA13	128	13	3.6	50	0.24
NÅL455/TOKA14	188	14	7.7	50	0.57
NÅL456/TOKA15	150	15	3.8	50	0.35
NÅL457/TOKA21	168	21	4.0	50	0.55
NÅL458/TOKA25	204	25	4.2	50	0.80
NÅL459/TOKA27	240	27	5.0	50	1.46



Needles

Part no.		A	B	Thickness	Numbers pr. bag	Weight pr. bag
	inch.	mm	mm	mm	pcs	kg
NÅL10	10"	250	35	7.7	100	0,035
NÅL12	12"	300	38	8.4	50	0.055
NÅL14	14"	355	38	8.5	50	0.065
NÅL16	16"	405	44	8.7	50	0.065
NÅL20	20"	505	52	9.2	10	0.140



Crowbar

Part no.	Length	Weight
	mm	kg
HB1500	1500	6.3



Needles



Part no.	A mm	B mm	Numbers pr. bag pcs	Weight pr. bag kg	Code
NFF6-110	110	6.5	50	0.18	US#1
NFF06-130	130	6.5	50	0.21	US#105
NFF08-110	110	8.5	50	0.20	US#2
NFF08-130	130	8.5	50	0.25	US#205
NFF08-160	160	8.5	50	0.29	US#209
NFF08-180	180	8.5	50	0.33	-

Needles



Part no.	A mm	B mm	Numbers pr. bag pcs	Weight pr. bag kg	Code
NFF10-110	110	10	50	0.24	US#3
NFF10-120	120	10	50	0.25	US#4
NFF10-130	130	10	50	0.26	US#5
NFF10-170	170	10	50	0.46	US#512
NFF10-200	200	10	50	0.55	US#514

Needles

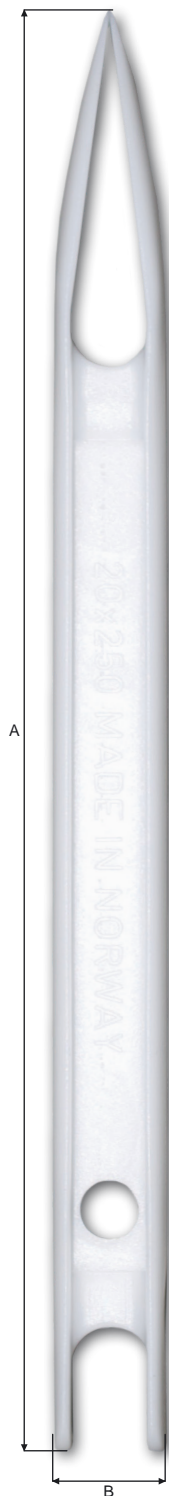


Part no.	A mm	B mm	Numbers pr. bag pcs	Weight pr. bag kg	Code
NFF12-120	120	12	50	0.31	US#55
NFF12-130	130	12	50	0.41	US#56
NFF12-170	170	12	50	0.54	US#57
NFF12-200	200	12	50	0.61	US#58

Needles



Part no.	A mm	B mm	Numbers pr. bag pcs	Weight pr. bag kg	Code
NFF14-130	130	14	50	0.47	US#6
NFF14-145	145	14	50	0.49	US#7
NFF14-180	180	14	50	0.64	US#612
NFF14-200	200	14	50	0.74	US#614
NFF16-130	130	16	50	0.54	-
NFF16-150	150	16	50	0.66	US#9
NFF16-180	180	16	50	0.78	US#812
NFF16-200	200	16	50	1.00	US#814
NFF16-240	240	16	50	1.16	US#816



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Needles I



Part no.	A	B	Numbers pr. bag	Weight pr. bag	Code
	mm	mm			
NFF18-160	160	18	50	0.75	-
NFF18-200	200	18	50	0.93	-
NFF18-250	250	18	50	1.20	-
NFF20-155	155	20	50	1.18	US#11
NFF20-175	175	20	50	1.32	US#12
NFF20-200	200	20	50	1.52	US#1014
NFF20-250	250	20	50	1.95	US#13
NFF27-200	200	27	50	2.46	US#14
NFF27-250	250	27	50	2.81	US#15
NFF27-280	280	27	50	3.10	US#16
NFF27-310	310	27	50	3.76	US#17
NFF32-250	250	32	50	2.91	US#22
NFF32-280	280	32	50	3.32	US#23
NFF32-310	310	32	50	3.59	US#24
NFF32-400	400	32	50	3.88	US#25
NFF32-500	500	32	50	4.25	US#26



Needles I



Part no.	A	B	Numbers pr. bag	Weight pr. bag	Code
	mm	mm			
NFF33-250	250	33	50	2.17	US#18
NFF33-280	280	33	50	2.89	US#19
NFF33-310	310	33	50	2.74	US#20

Wire cutters



Part no.	Wire dia.	Length	Weight	Spare parts		
	max . mm			mm	kg	Blades
HC07	7	190	0.27	-	-	-
HC09	9	335	0.71	-	HC09P	-
HC12	12	520	1.65	HC12B	HC12P	HC12H
HC16	16	650	2.50	HC16B	HC16P	HC16H



Chain cutters

Part no.	Soft steel max.	Length	Weight	Spare parts
	mm			mm
HC930	14.3	760	4.80	HC930J
HC936	15.9	915	6.80	HC936J
HC942	19.0	1070	9.80	HC942J



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Mauls



Part no.	Length	Weight without handle
	mm	kg
HMK1	260	1.0
HMK2	300	1.5
HMK5	800	5.0

Maul with nylon handle



Part no.	Length	Weight	Description
	mm	kg	
HMK15F	285	1.5	With nylon handle

Fiberglass tapes



Part no.	Length
HM30	30 m / 100 ft.
HM50	50 m / 165 ft.

Measure tapes

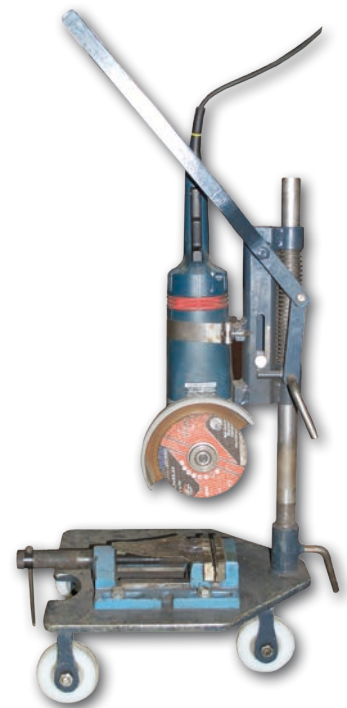


Part no.	Length
HM03	3.0 m
HM05	5.0 m

Cutting benches

With cutter

Part no.	Max. chain	Max. wire	Description
	dia = mm	dia = mm	
HS800	22	36	On wheels
HS802	22	36	Firm legs
HS810	-	-	Bench alone w/ wheels
HS812	-	-	Bench alone w/ legs.
HS820	-	-	Cutter
HSK178	-	-	Cutting disc.
HSK230	-	-	Cutting disc.



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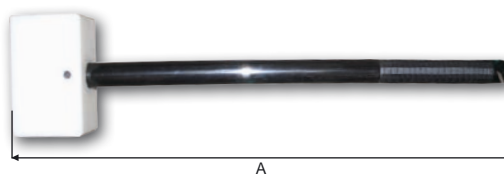
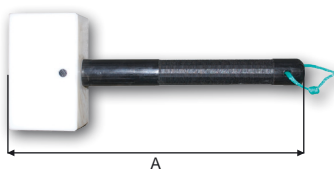
Ice-shovels

Part no.	Length mm	Description
HS4200	1100	Aluminium
HS4207	900	Aluminium
HS10	1020	Plastic



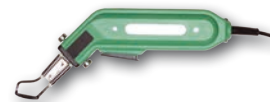
Ice mallet

Part no.	A mm	Weight kg	Description
HMK-ICE-18	380	1.5	Plast w. handgrip
HMK-ICE-20	725	2.0	Plast w. handgrip



Electric cutter

Part no.	Power	Weight kg	Electric plug
HSG-0-220	220 V / 60 W	1	European plug



Electric cutter

Part no.	Power	Weight kg	Electric plug
HSG-0/120W-ELEC	220 V / 120 W	1	European plug



Blades

Part no.	For electric knife
HSG-O/R	HSG-0/220
HSG-O/R-50	HSG-0/220
HSG-O/F-2	HSG-0/220

Electric knife for quick and efficient syntetic rope cutting.
The rope ends are simultaneously heat sealed in cutting process.



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Stationary electric cutter

Part no.	Power	Weight kg	Electric plug
HSG-4-VW/220	230 V / 50 Hz	14	European plug



Blades

Part no.	For electric knife
HSG-4-VW/G-90	HSG-4-VW/220
HSG-4-VW/G-1	HSG-4-VW/220

Electric knife for quick and efficient syntetic rope cutting.
The rope ends are simultaneously heat sealed in cutting process.



Trawlfloats with centerhole



Part no.	Dia. inch	Working depth	Color	Old part no.	Hole size mm	Volume liter	Weight gr	Buoyancy gr	Number pr. carton pcs
NP08-0450-CO	8.0	450	Orange	PP551	22.0	4	875	3320	18
NP08-0400-CB	8.0	400	Blue	PP551-BLUE	22.0	4	875	3320	18
NP08-0300-CR	8.0	300	Red	PPA7S	20.0	4	621	3380	18
NP08-1050-CO	8.0	1050	Orange	PP1085	23.0	4	1300	2685	18
NP08-1200-CY	8.0	1200	Yellow	PP577	21.0	4	1500	2490	18
NP08-1200-CR	8.0	1200	Red	PP508	21.0	4	1500	2490	18
NP08-1200-CB	8.0	1200	Blue	PP508-BLUE	21.0	4	1500	2490	18
NP08-2000-CW	8.0	2000	White	PP908	21.0	4	1760	2110	18
NP08-3200-CW	8.0	3200	White	PP8070	23.0	4	1956	1800	18
NP95-2000-CG	9.5	2000	Green	-	26.0	7	2822	3900	9
NP95-1200-CO	9.5	1200	Orange	-	26.0	7	2423	4280	9
NP11-0600-CB	11.0	600	Blue	PP446-BLUE	21.0	11	2518	8480	6
NP11-0600-CO	11.0	600	Orange	PP446	24.5	11	2490	8610	6
NP11-0950-CR	11.0	950	red	PP511	24.5	11	3210	7580	6
NP11-0950-CY	11.0	950	Yellow	PP611	24.5	11	3210	7580	6
NP11-1500-CW	11.0	1500	White	-	24.5	11	3730	6950	6
NP14-0800-CW	14.0	800	White	PP714	30.0	25	7145	17600	2



Trawlfloats with sideholes



Part no.	Dia. inch	Working depth	Color	Old part no.	Hole size mm	Volume liter	Weight gr	Buoyancy gr	Number pr. carton pcs
NP05-0600-SO	5	600	Orange	PP364	12	1	275	630	72
NP06-0400-SO	6	400	Orange	PP357	17	2	390	1575	38
NP08-0400-SO	8	400	Orange	PP356	16	4	840	3480	18



Trawlfloats without holes



Part no.	Dia. inch	Working depth	Color	Old part no.	Volume liter	Weight gr	Buoyancy gr	Number pr. carton pcs
NP09-1800-NG	9	1800	Green	PP609	6.5	2200	4030	6
NP10-2100-NG	10	2100	Green	PP600	8.0	3460	5070	6



Trawlfloats with lugs



Part no.	Dia. inch	Working depth	Color	Old part no.	Hole size mm	Volume liter	Weight gr	Buoyancy gr	Number pr. carton pcs
NP08-1700-LY	8	1700	Yellow	PP2080	20	4.0	1500	2720	10
NP09-1800-LG	9	1800	Green	PP629	21	6.5	2310	4000	6
NP10-1800-LG	10	1800	Green	PP620	22	8.0	3630	4925	6
NP14-1500-LG	14	1500	Green	PP624	24	25.0	8500	16610	2



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Oval trawlfloats



Part no.	Dia. inch	Working depth	Color	Old part no.	Hole size mm	Volume liter	Weight gr	Buoyancy gr	Number pr. carton pcs
NP56-0550-CY	5/6 oval	550	Yellow	PP1060	14	1	400	800	30
NP56-0900-CW	5/6 oval	900	White	-	14	1	-	-	30



Plastic Bobbins



Part no.	Dia. inch	Hole	Color	Old part no.	Hole size mm	Volume liter	Weight gr	Number pr. carton pcs
NP08-PATENT-CB	8	Center	Black	PPB200	21	4	1420	18
NP11-PATENT-CB	11	Center	Black	PPB300	23	11	3740	6
NP14-PATENT-CB	14	Center	Black	PPB400	30	25	7050	2

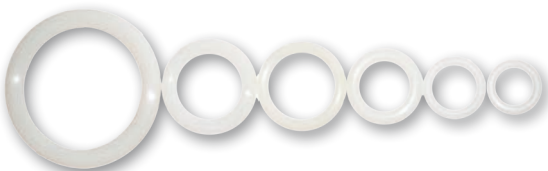


Codend rings

Nylon · White



Part no.	Inside dia. mm	Outside dia. mm	Lifting capacity kg	Per carton pcs	Weight per carton kg
PP419	30.5	43	300	1000	5
PP420	31.2	48	450	1000	8
PP421	38	55	400	1000	10
PP422	44	69	800	1000	24
PP423	60	80	500	1000	20
PP490	60	89	1100	500	20
PP492	114	151	2000	100	12



Plastic baskets



Part no.	Color	Size liter	Dia. top mm	Dia. bottom mm	Height mm	Per pallet pcs
BAS44-O	Orange	44	480	365	375	100
BAS44-S	Black	44	480	365	375	100
BAS58	Orange	58	530	360	440	-

- The basket is designed for hard use and is produced in PELD which makes it very soft, high-impact and withstands all weather.
- The handles are being produced in nylon which make them strong and comfortable to grasp.
- PELD is resistant to most acids and bases.
- The baskets are being manufactured in material approved for food contact.
- Standard colours are blue, black, grey and orange.



Sheat for knives

Part no.	Color	Length mm	Weight kg
HK-SHEAT	Black	220	0.20



Rubber strap

For scan mar

Part no.	Color	Length mm	Dia mm	Weight kg
DIV 820	Black	390	8	0.20



Blowmoulded fenders with valve



White



Part no.	Dia. mm	Lenght mm	Buoyancy kg	Quant./crt.	m ³ /crt.	Kilo/crt.
JF312	90	320	1.4	50	0.079	15
JF416	102	430	2.3	40	0.079	17
JF518	127	460	4.4	24	0.079	19
JF621	152	560	6.0	15	0.079	15

Inflatable fenders with valves



White

Part no.	Dia. mm	Lenght mm	Buoyancy kg	Eye dia. mm	Quant./crt.	m ³ /crt.	Kilo/crt.
JF0520	125	540	5.0	18	20	0.079	16
JF0623	150	645	6.5	18	15	1.079	16
JF0822	200	635	14.0	28	10	0.079	18
JF0827	200	765	23.0	28	8	0.079	19
JF0839	200	1055	34.0	28	6	0.079	20
JF1025	250	700	29.0	28	7	0.079	17
JF1035	250	940	39.0	28	5	0.094	18
JF1232	300	880	43.0	28	4	0.075	15
JF1242	300	1130	55.0	28	4	0.094	19
JF1550	380	1370	116.0	32	1	0.065	8
JF2255	550	1465	215.0	32	1	0.040	12
JF3282	800	2050	720.0	32	1		





Marker buoys

Orange / White

Part no.	Dia. mm	Circ. mm	Buoyancy kg	Quant./crt.	M3/crt.	Kilo/crt.	Eye dia. mm
JB020	160	510	2.0	35	0.079	16	18
JB030	240	760	8.5	20	0.079	16	18
JB040	320	1015	23.0	10	0.079	15	28
JB050	405	1270	46.0	7	0.079	18	28
JB060	480	1525	72.0	3	0.075	15	28
JB075	610	1905	118.0	3	0.094	19	28
JB100	810	2540	280.0	1	0.100	10	32
JB120	965	3028	540.0	1	0.100	14	32
JB135	1100	3429	675.0	1	0.100	18	32



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Throwing ball

Orange

Part no.	Dia. mm	Holesize mm	Weight gr
DIV224-3.5	90	11	335

Wirestockings with 1 eye

Part no.	For wirerope dia. mm	Length mm	Working load kg
HWS-50106	6-10	300	80
HWS-50110	10-15	350	120
HWS-50115	15-24	400	200
HWS-50122	22-32	600	325
HWS-50132	32-45	900	750
HWS-50145	45-55	1100	1250
HWS-50155	55-70	1350	1250
HWS-50170	70-90	1450	1600
HWS-50190	90-110	1900	1800



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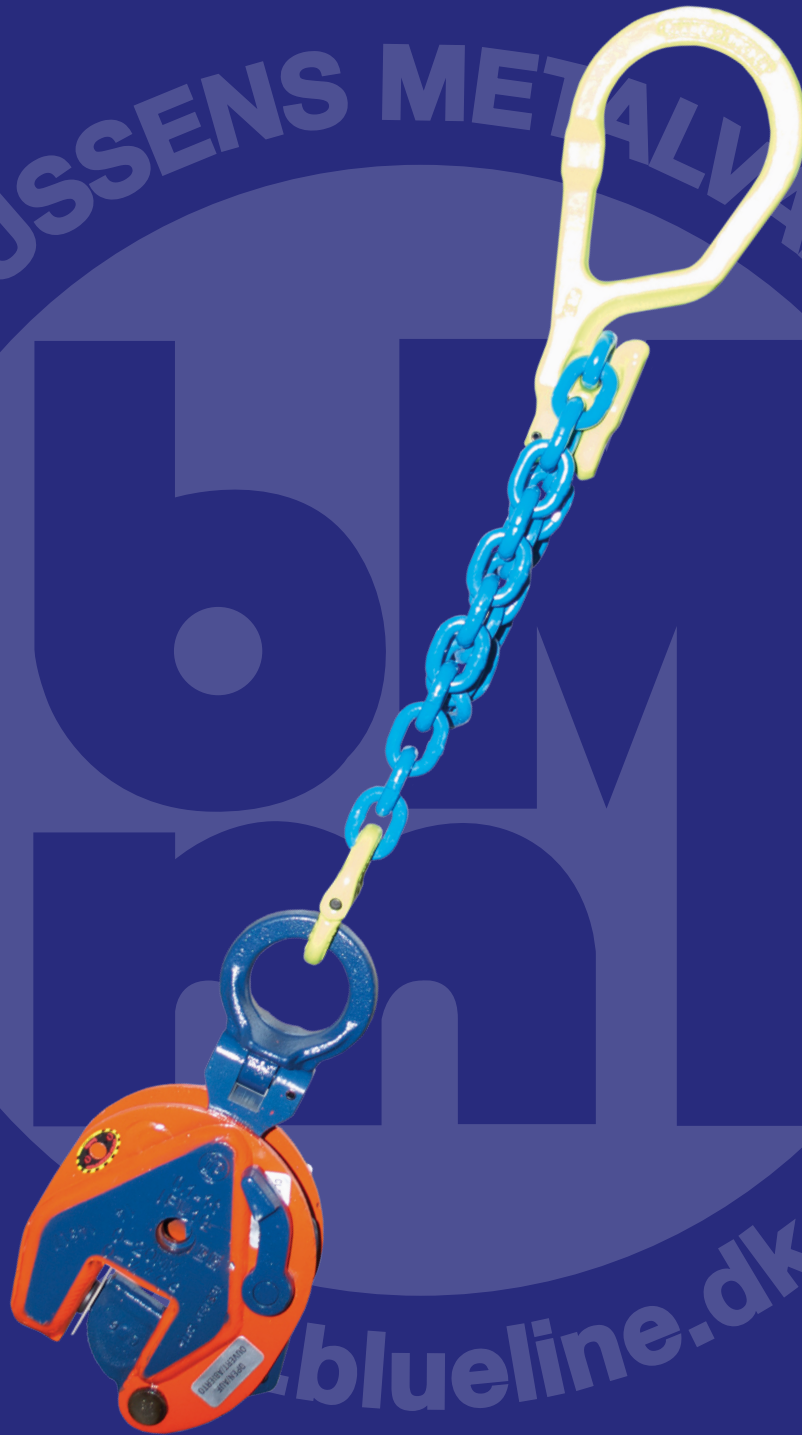
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LIFTING

- LIFTING COMPONENTS
- CONTAINERSTRAPS

- CHAIN BLOCKS
- LEVER HOISTS

- ROTATING LIFTING POINTS
- LIFTING CLAMPS



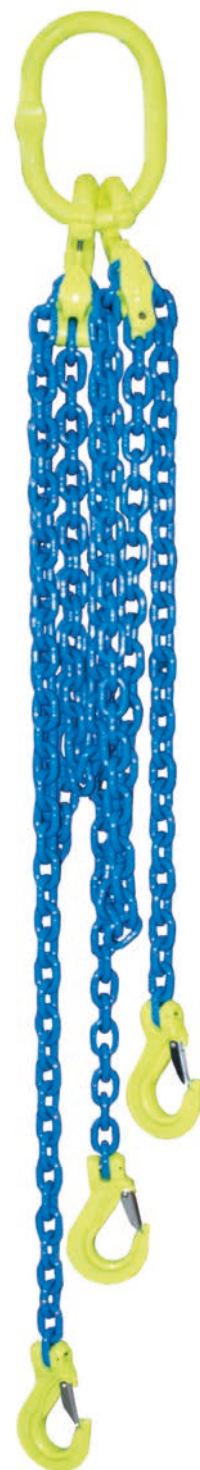
Chain slings

1,2,3 and 4 leg chain slings can be assembled in house both in grade 8 and grade 10.
 All grade 8 slings are assembled according to EN 818-4+A1:2008 / 818-6+A1:2008
 and both grades can be supplied with certificate in compliance with DS/EN10204

Working Load Limit table for Grade 8 Chain Slings to EN 818-4 and Grade 10

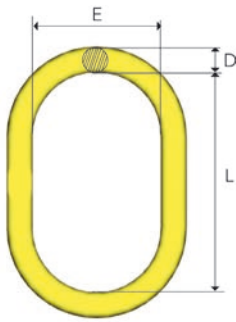
Grade	Chain dia. mm	1-leg sling	2-leg sling		3- & 4-leg sling		Choke hitch sling	
		ton	β 0-45° α 0-90° ton	β 45-60° α 90-120° ton	β 0-45° α 0-90° ton	β 45-60° α 90-120° ton	β 0-45° α 0-90° ton	β 45-60° α 90-120° ton
8	6	1.12	1.60	1.12	2.36	1.70	1.20	0.9
10	6	1.50	2.12	1.50	3.15	2.24	1.60	1.2
8	7	1.50	2.12	1.50	3.15	2.24	1.60	1.2
8	8	2.00	2.80	2.00	4.25	3.00	2.20	1.6
10	8	2.50	3.50	2.50	5.20	3.70	2.70	2.0
8	10	3.15	4.25	3.15	6.70	4.75	3.40	2.5
10	10	4.0	5.60	4.00	8.40	6.00	4.40	3.2
8	13	5.30	7.50	5.30	11.20	8.00	5.80	4.2
10	13	6.70	9.50	6.70	14.00	10.00	7.40	5.3
8	16	8.00	11.20	8.00	17.00	11.80	8.80	6.4
10	16	10.00	14.00	10.00	21.00	15.00	11.00	8.0
8	20	12.50	17.00	12.50	26.50	19.00	13.75	10.0
10	20	16.00	22.40	16.00	33.60	24.00	17.60	12.8
8	22	15.00	21.20	15.00	31.50	22.40	16.50	12.0
10	22	19.00	26.90	19.00	40.30	28.50	20.90	15.2
8	26	21.20	30.00	21.20	45.00	31.50	23.30	16.9
10	26	27.00	38.20	27.00	57.30	40.50	29.70	21.6
8	32	31.50	45.00	31.50	67.00	47.50	34.60	25.2

Safety factor 4:1. Working load limits are based upon equally loaded and disposed sling legs.



Master links

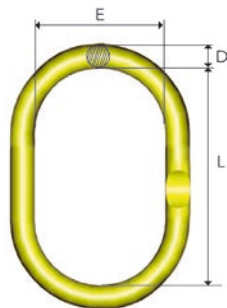
Grade 10 · Yellowpainted



Part no.	WLL 4:1 ton	L mm	E mm	D mm	Weight kg
M-6-10	1.25	100	60	11	0.2
M-86-10	2.5	125	70	14	0.4
M-108-10	4.0	140	80	17	0.8
M-13-10	5.4	150	90	19	1.0
M-1310-10	7.5	160	95	22	1.5
M-1613-10	10.0	190	110	28	2.8
M-19-10	12.0	200	120	30	3.5
M-2016-10	17.0	240	140	34	5.2
M-2220-10	25.0	250	150	40	7.3
M-2622-10	28.0	250	150	42	7.8
M-32-10	33.0	300	180	45	11.7
M-3226-10	43.0	300	200	50	14.8
M-3632-10	56.0	350	200	55	20.7
M-4536-10	70.0	375	210	60	26.4
M-90T-10	90.0	450	250	70	42.8
M-125T-10	125.0	450	260	80	57.0

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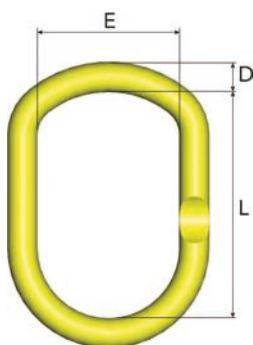
Grade 10 · Yellowpainted



Part no.	WLL 4:1 ton	L mm	E mm	D mm	Recessed mm	Weight kg
Q-MF-06-10	1.2	100	60	11	6	0.2
Q-MF-86-10	2.5	120	70	14	6	0.4
Q-MF-108-10	4.0	140	80	17	8	0.8
Q-MF-1310-10	7.5	160	95	22	10	1.5
Q-MF-1613-10	10.0	190	110	25	13	2.3
Q-MF-2016-10	17.0	240	140	34	16	5.3
Q-MF-2220-10	25.0	250	150	38	20	7.0

Master links MFH

Designed for crane hooks, DIN 15401 MAX



Part no.	WLL 4:1 ton	For chain size			L mm	E mm	D mm	DIN 15401	DIN 15402	Weight kg
		1-leg mm	2-leg mm	3-leg mm						
Q-MFH-1310-10	7.5	13	10	8	230	125	22	≤ 12	≤ 16	1.9
Q-MFH-1613-10	10.0	16	13	10	250	135	28	≤ 12	≤ 16	3.2
Q-MFH-2016-10	17.0	20	16	13	280	135	32	≤ 16	≤ 20	4.6
Q-MFH-2220-10	28.0	22	20	16	320	175	40	≤ 25	≤ 32	8.6
Q-MFHW-2220-10	25.0	22	20	16	355	225	40	≤ 50	≤ 63	9.9

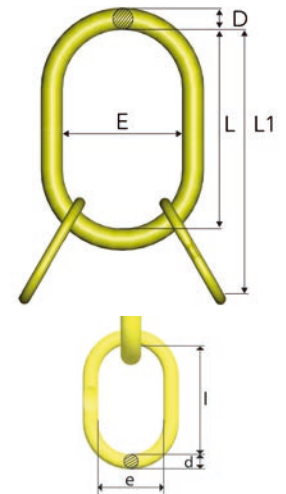
3- and 4 leg chain slings require CLD / CGD

Master links with Sublinks MT



Designed for use with chain or wire rope · For 3- and 4-leg slings.

Part no.	WLL 4:1 ton	L1 mm	L mm	E mm	D mm	I mm	e mm	d mm	Weight kg
Q-MT-06-10	3.5	270	150	90	19	120	70	14	1.8
Q-MT-08-10	5.2	300	160	95	22	140	80	17	3.0
Q-MT-09-10	6.9	340	190	110	28	150	90	19	4.9
Q-MT-10-10	11.5	360	200	120	30	160	95	22	6.4
Q-MT-13-10	17.0	450	250	150	40	200	120	30	14.2
Q-MT-16-10	28.0	500	300	200	50	200	120	32	23.0
Q-MT-20-10	35.0	550	300	200	55	250	150	40	31.5
Q-MT-22-10	53.0	610	350	200	60	260	140	45	46.0
Q-MT-26-10	70.0	730	450	250	70	280	160	50	71.0
Q-MT-32-10	90.0	750	450	260	80	280	160	55	91.0



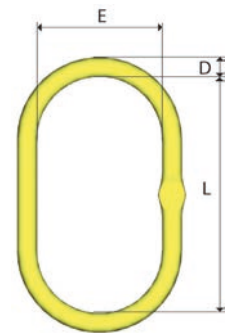
Master links MFX



Oversized · For 1- and 2-leg slings.

Part no.	WLL 4:1 ton	For chain 1-leg mm	For chain 2-leg mm	L mm	E mm	D mm	Weight kg
Q-MFX-108-10	4.0	8.10	8.0	340	180	25	3.7
Q-MFX-1310-10	6.7	13.0	10.0	340	180	28	4.7
Q-MFX-1613-10	10.0	16.0	13.0	340	180	34	7.1
Q-MFX-2016-10	16.0	20.0	16.0	340	180	40	8.5

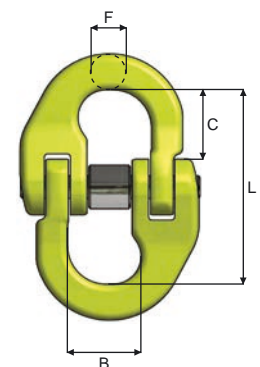
Designed for use with CL, CLD and CGD.

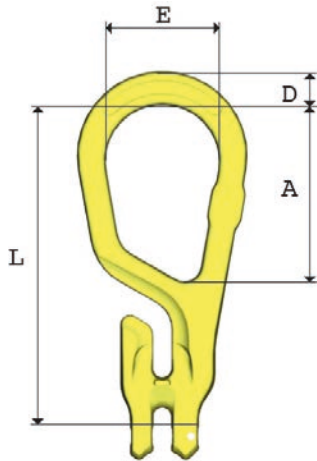


Coupling links G



Part no.	WLL 4:1 ton	L mm	B mm	F mm	C mm	Weight kg
Q-G-06-10	1.5	45	15	8	16	0.1
Q-G-07-10	2.0	56	18	9	22	0.1
Q-G-08-10	2.5	56	18	9	22	0.1
Q-G-10-10	4.0	68	25	12	26	0.3
Q-G-13-10	6.7	89	29	15	33	0.7
Q-G-16-10	10.0	106	36	19	40	1.4
Q-G-20-10	16.0	125	43	23	44	2.2
Q-G-22-10	20.0	152	50	26	59	3.5
Q-G-26-10	27.0	161	58	33	61	5.7
G-32-8	32.0	200	70	38	77	9.5



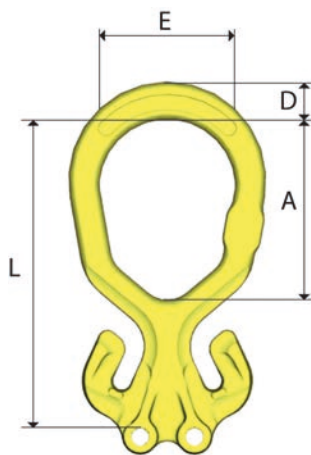


Master grabs MG

"All-in-one" compact top link



Part no.	WLL 4:1 ton	L mm	A mm	E mm	D mm	Weight kg
Q-MG-06-10	1.5	145	88	60	15	0.5
Q-MG-08-10	2.5	171	92	60	18	0.9
Q-MG-10-10	4.0	211	113	75	22	1.8
Q-MG-13-10	6.7	261	138	90	26	3.5
Q-MG-16-10	10.0	157	157	105	31	6.1

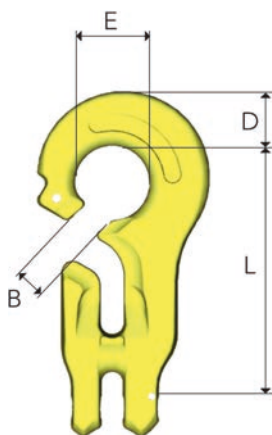


Master grabs duo MGD

"All-in-one" compact top link for 2-leg slings



Part no.	WLL 4:1 ton	L mm	A mm	E mm	D mm	Weight kg
Q-MGD-06-10	2.1	144	90	60	17	0.7
Q-MGD-08-10	3.5	171	100	75	21	1.3
Q-MGD-10-10	5.6	211	124	90	24	2.3
Q-MGD-13-10	9.5	262	149	105	31	5.2
Q-MGD-16-10	14.0	310	175	120	35	7.9



C-Grabs CG

For use with master link, eye hooks and choke



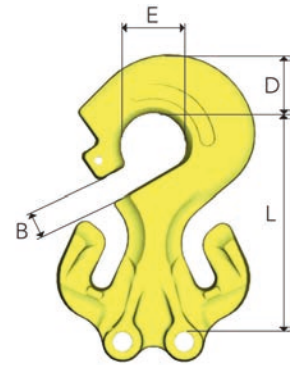
Part no.	WLL 4:1 ton	L mm	B mm	E mm	D mm	Weight kg
Q-CG-06-10	1.5	80	11	24	19	0.3
Q-CG-08-10	2.5	107	12	32	24	0.7
Q-CG-10-10	4.0	134	15	40	29	1.5
Q-CG-13-10	6.7	172	18	52	38	3.2
Q-CG-16-10	10.0	215	22	64	47	6.1

C-Grabs CGD



For use with master links

Part no.	WLL 4:1 ton	L mm	B mm	E mm	D mm	Weight kg
Q-CGD-06-10	2.1	79	11	24	20	0.6
Q-CGD-08-10	3.5	107	12	32	29	1.1
Q-CGD-10-10	5.6	134	15	40	37	2.2
Q-CGD-13-10	9.5	173	19	48	48	5.4
Q-CGD-16-10	14.0	215	22	64	57	9.1

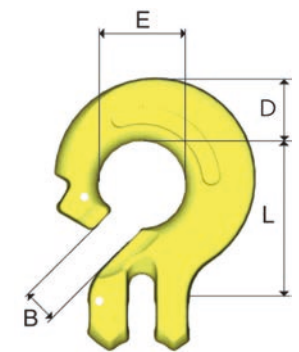


C-Grabs CL



For use with master links, eye hooks and choke

Part no.	WLL 4:1 ton	L mm	B mm	E mm	D mm	Weight kg
Q-CL-06-10	1.5	43	11	24	18	0.2
Q-CL-08-10	2.5	58	12	32	24	0.5
Q-CL-10-10	4.0	74	15	40	29	1.0
Q-CL-13-10	6.7	94	18	52	38	2.0
Q-CL-16-10	10.0	119	22	64	48	3.8

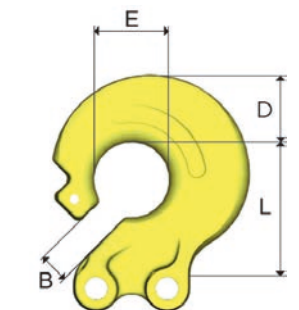


C-Loks CLD



For use with master links

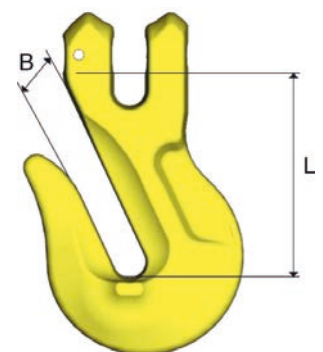
Part no.	WLL 4:1 ton	L mm	B mm	E mm	D mm	Weight kg
Q-CLD-06-10	2.1	43	11	24	22	0.4
Q-CLD-08-10	3.5	58	12	32	29	0.6
Q-CLD-10-10	5.6	74	15	40	37	1.2
Q-CLD-13-10	9.5	94	18	42	46	3.1
Q-CLD-16-10	14.0	119	119	64	57	5.5



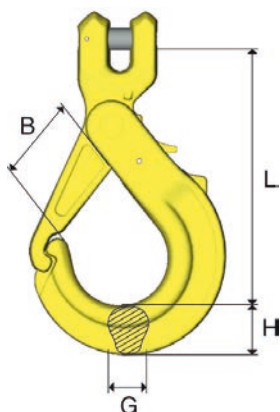
Grab hooks GG



Part no.	WLL 4:1 ton	L mm	B mm	Weight kg
Q-GG-08-10	2.5	57	10.5	0.4
Q-GG-10-10	4.0	76	12.0	0.9
Q-GG-13-10	6.7	97	16.0	1.8
Q-GG-16-10	10.0	124	20.0	3.1
Q-GG-20-10	16.0	147	26.0	7.0

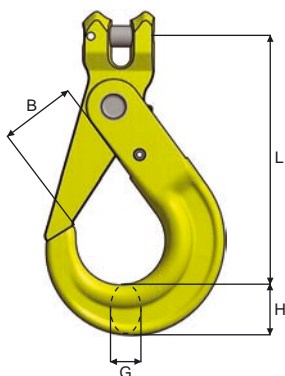


Safety hooks GBK



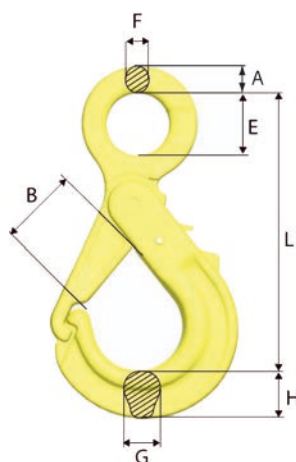
Part no.	WLL 4:1 ton	L mm	B mm	G mm	H mm	Weight kg
Q-GBK-06-10	1.5	87	26	15	17	0.4
Q-GBK-08-10	2.5	119	36	20	22	0.8
Q-GBK-10-10	4.0	150	47	22	29	1.4
Q-GBK-13-10	6.7	172	53	29	38	2.7
Q-GBK-16-10	10.0	208	68	30	45	4.4

Safety hooks BKG



Part no.	WLL 4:1 ton	L mm	B mm	G mm	H mm	Weight kg
Q-BKG-06-10	1.5	91	29	15	21	0.5
Q-BKG-08-10	2.5	121	37	17	26	0.9
Q-BKG-10-10	4.0	144	45	21	31	1.5
Q-BKG-13-10	6.7	180	55	30	40	3.0
Q-BKG-16-10	10.0	219	62	37	50	5.5
Q-BKG-20-10	16.0	240	68	44	62	9.6

Safety hooks OBK

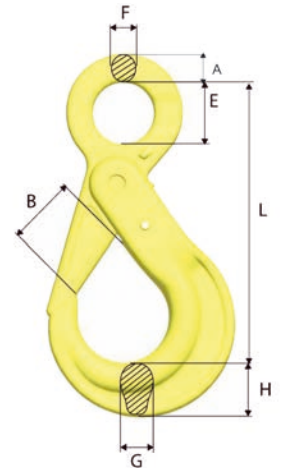


Part no.	WLL 4:1 ton	A mm	L mm	B mm	E mm	F mm	G mm	H mm	Weight kg
OBK-06-10	1.5	12	103	26	22	9	15	17	0.365
OBK-7/8-10	2.5	14	139	37	28	10	20	22	0.764
OBK-10-10	4.0	16	170	47	34	13	22	29	1.329
OBK-13-10	6.7	21	206	53	44	15	28	38	2.534
OBK-16-10	10.0	26	251	68	56	19	29	45	4.433
OBK-18/20-10	16.0	28	293	74	60	22	44	56	8.25
OBK-22-8	15.5	22	335	87	70	24	40	58	10.512

Safety hooks BK



Part no.	WLL 4:1 ton	A mm	L mm	B mm	E mm	F mm	G mm	H mm	Weight kg
BK-06-10	1.5	12	109	29	22	10	15	21	0.44
BK-7/8-10	2.5	14	138	37	28	11	17	26	0.79
BK-10-10	4.0	16	168	45	34	13	21	31	1.45
BK-13-10	6.7	20	207	55	44	16	30	40	2.70
BK-16-10	10.0	26	254	62	56	20	37	50	5.68
BK-20-10	16.0	30	289	68	60	22	44	62	9.22
BK-22-10	20.0	32	320	80	70	24	50	62	11.37
BK-26-10	27.0	35	342	100	80	25	54	68	16.10
BK-32-8	32.8	40	400	120	90	30	62	86	23.80

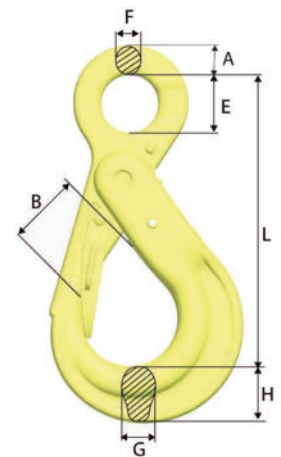


Safety hooks BKD

The double latch BK-hook with recessed trigger



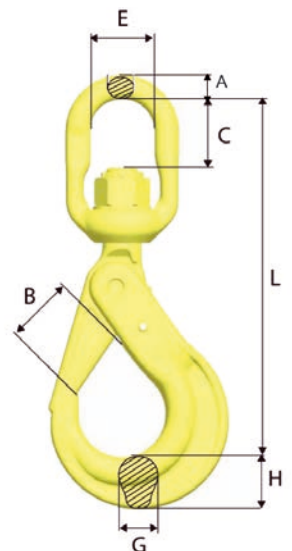
Part no.	WLL 4:1 ton	A mm	L mm	B mm	E mm	F mm	G mm	H mm	Weight kg
Q-BKD-13-10	6.7	20	207	44	45	16	30	40	3.2
Q-BKD-16-10	10.0	26	254	48	56	20	37	50	5.8
Q-BKD-18/20-10	16.0	30	290	57	60	22	44	62	9.1
Q-BKD-26-10OS	27.0	35	345	72	80	25	50	69	14.5



Swivel safety hooks BKL

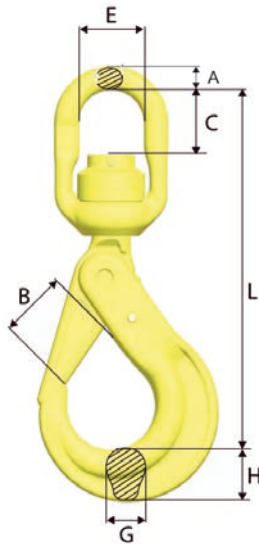


Part no.	WLL 4:1 ton	L mm	B mm	C mm	E mm	A mm	G mm	H mm	Weight kg
Q-BKL-06-10	1.5	149	29	23	33	11	15	21	0.704
Q-BKL-7/8-10	2.5	183	37	27	38	12	17	26	1.14
Q-BKL-10-10	4.0	218	45	37	44	15	21	31	1.96
Q-BKL-13-10	6.7	282	55	49	48	19	30	40	4.04
Q-BKL-16-10	10	341	62	65	61	25	37	50	7.368
Q-BKL-18/20-10	16	368	68	70	72	31	44	62	11.89



Swivel safety hooks BKLK

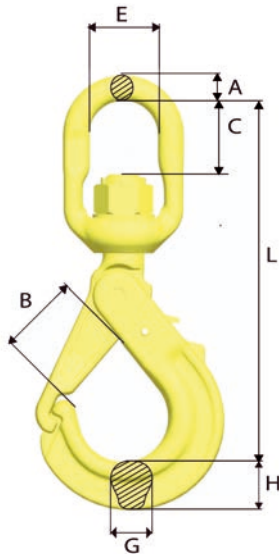
With ball-bearing



Part no.	WLL 4:1 ton	L mm	B mm	C mm	E mm	A mm	G mm	H mm	Weight kg
Q-BKLK-6-10	1.5	149	29	24	33	11	15	21	0.724
Q-BKLK-7/8-10	2.5	183	37	27	38	12	17	26	1.18
Q-BKLK-10-10	4.0	218	45	35	44	15	21	30	2.053
Q-BKLK-13-10	6.7	280	55	45	48	19	30	40	4.06
Q-BKLK-16-10	10.0	339	59	61	61	25	37	50	7.714
Q-BKLK-18/20-10	16.0	368	68	80	60	31	44	62	12.429
Q-BKLK-22-10OS	20.0	436	79	80	80	35	50	62	16.8
Q-BKLK-26-10OS	27.0	486	100	110	102	45	54	68	26.5
Q-BKLK-32-8OS	32.8	533	120	110	102	45	62	86	32.3

Swivel safety hooks LBK

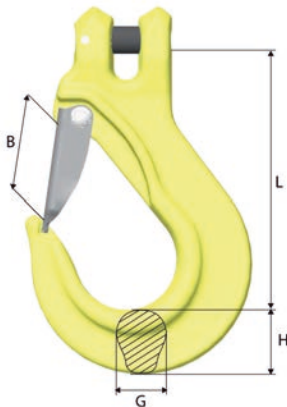
With griplatch



Part no.	WLL 4:1 ton	L mm	B mm	C mm	E mm	A mm	G mm	H mm	Weight kg
Q-LBK-08-10	2.5	177	37	27	38	12	20	22	1.062
Q-LBK-10-10	4.0	214	47	37	44	15	22	29	1.817
Q-LBK-13-10	6.7	262	53	45	48	19	29	38	3.514
Q-LBK-16-10	10.0	324	68	66	61	25	30	45	5.909

Sling hooks EGKN

With latch



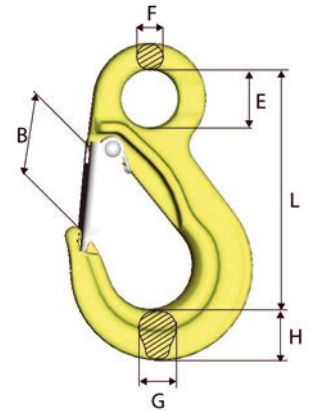
Part no.	WLL 4:1 ton	L mm	B mm	G mm	H mm	Weight kg
Q-EGKN-06-10	1.5	86	24.5	17	20	0.4
Q-EGKN-08-10	2.5	95	28.0	17	23	0.5
Q-EGKN-10-10	4.0	121	35.0	23	31	1.1
Q-EGKN-13-10	6.7	145	42.0	28	38	2.2
Q-EGKN-16-10	10.0	170	52.0	36	46	4.0
Q-EGKN-20-10	16.0	209	61.0	42	60	7.6

Sling hooks EKN



With latch

Part no.	WLL 4:1 ton	L mm	B mm	E mm	F mm	G mm	H mm	Weight kg
Q-EKN-06-10	1.5	94.0	24	22.0	10	17	20	0.371
Q-EKN-08-10	2.5	108.0	28	28.0	12	17	23	0.555
Q-EKN-10-10	4.0	134.0	37	34.0	14	23	30	1.024
Q-EKN-13-10	6.7	166.0	42	44.0	18	28	38	2.081
Q-EKN-16-10	10.0	203.0	50	56.0	22	36	47	4.048
Q-EKN-20-10	16.0	229.2	60	60.5	26	42	60	6.404
Q-EKN-22-10	20.0	267.0	73	64.0	31	43	67	8.74
Q-EKN-26-10	27.0	301.0	81	66.0	32	51	75	13.2
Q-EKN-32-8	32.0	333.0	93	76.0	38	61	80	18.927

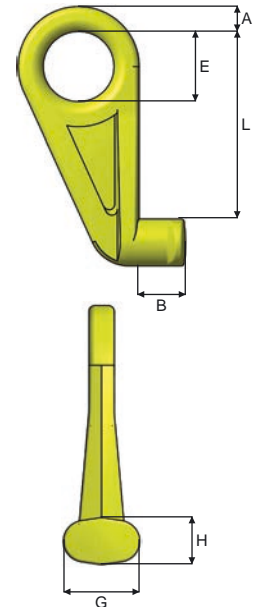


Container hooks CH



Made for lifting containers in their lower fittings

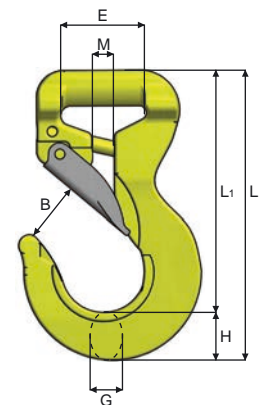
Part no.	WLL 4:1 ton	A mm	L mm	E mm	B mm	H mm	G mm	Weight kg
CH3-STRAIGHT	12.5	25	187	70	46	47	75	3.8
CH3-LEFT	12.5	25	187	70	46	47	75	3.8
CH3-RIGHT	12.5	25	187	70	46	47	75	3.8



Roundsling hooks RH



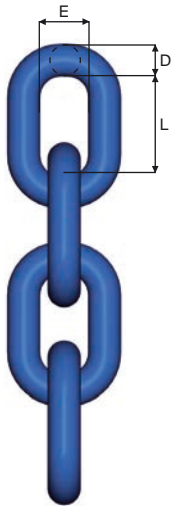
Part no.	WLL 4:1 ton	B mm	E mm	G mm	L mm	H mm	M mm	Weight kg
Q-RH-1-10	1	24	35	17	84	19	8.0	0.5
Q-RH-2-10	2	28	40	17	96	22	10.0	0.7
Q-RH-3-10	3	33	47	24	117	30	12.0	1.3
Q-RH-5-10	5	43	73	27	155	36	16.5	3.2



The RH-hook is the perfect load connection solution, combining the advantages of both soft lifting slings and grade 100 components. It can be inserted in any softslings and is quicker and safer to use than the commonly used shackle. The RH-hook is a connector as well as a hook, which gives the user increased flexibility, safer use and increased durability of the soft slings.

The RH-hook comes with a blocking pin, but thanks to the narrow opening it may be used without blocking pin.

The roundsling hooks are colour coded in order to match the corresponding size of the roundsling:
Red = 5T / Yellow = 3T / Green = 2T / Violet = 1T



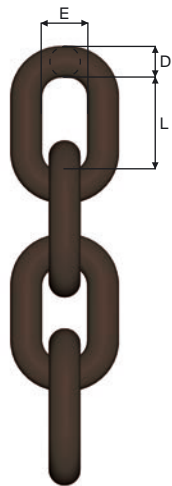
Chains GrabiQ



Grade 10 · Short link

Part no.	WLL 4:1 ton	D mm	L mm	E mm	Weight kg/m
Q-KLA-06-10	1.5	6	18	8	0.8
Q-KLA-08-10	2.5	8	24	11	1.4
Q-KLA-10-10	4.0	10	30	14	2.3
Q-KLA-13-10	6.7	13	39	18	3.8
Q-KLA-16-10	10.0	16	48	22	5.6
Q-KLA-20-10	16.0	20	60	29	9.4
Q-KLA-22-10	19.0	22	66	31	11.8
Q-KLA-26-10	27.0	26	78	37	14.6

Material: Alloy steel, grade 10, quenched and tempered
 Safety factor: MBL equals 4 x WLL
 Finish: Painted blue



Lifting chains



Grade 8 · Short link

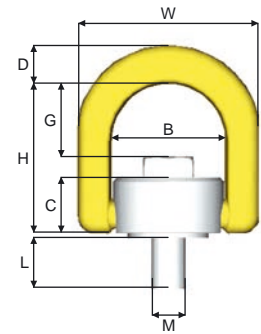
Part no.	WLL ton	D mm	L mm	E mm	Weight kg/m
KLC-06-8	1.12	6	18	10	0.78
KLC-07-8	1.50	7	21	12	1.14
KLC-08-8	2.00	8	24	14	1.50
KLC-10-8	3.15	10	30	16	2.27
KLC-13-8	5.30	13	39	21	3.74
KLC-16-8	8.00	16	48	26	5.54
KLC-20-8	12.50	20	60	32	8.94
KLC-22-8	15.00	22	66	35	11.57
KLC-26-8	21.20	26	78	41	15.26
KLC-32-8	31.50	32	96	48	22.61

Material: Alloy steel, grade 8, quenched and tempered
 Safety factor: MBL equals 4 x WLL
 Standard: EN 818-2
 Finish: Painted black

RLP - Rotating Lifting Points



Part no.	WLL 4:1 ton	B mm	C mm	D mm	G mm	H mm	L mm	M mm	W mm	Weight kg
RLP-M8-10	0.30	42	17.5	12.0	35.0	60	15.0	M8	64	0.3
RLP-M10-10	0.50	42	17.5	12.0	34.0	60	20.0	M10	64	0.3
RLP-M12-10	0.75	57	28.0	19.0	46.5	85	19.0	M12	91	0.9
RLP-M16-10	1.50	57	28.0	19.0	44.0	85	24.0	M16	91	0.9
RLP-M20-10	2.50	83	39.3	28.0	56.0	111	32.0	M20	133	2.8
RLP-M24-10	3.50	83	39.3	28.0	53.0	111	37.0	M24	133	3.0
RLP-M30-10	6.00	114	56.0	34.0	69.5	144	49.5	M30	182	7.0
RLP-M36-10	8.00	114	56.0	34.0	65.5	144	61.0	M36	182	7.3
RLP-M42-10	14.00	149	70.0	40.4	90.0	185	65.5	M42	229	14.0
RLP-M48-10	16.00	149	70.0	40.4	86.0	185	75.5	M48	229	14.5



Approved for lifting.

The patented design of the RLP makes it suitable also in applications where a conventional lifting point not be fully adequate. Intended to be used as a Lifting point, Lashing point or Towing attachment.

- Dismountable open D-ring.
Enables assembly of roundsling, master link, link or hook directly onto the RLP.
- For lifting with single or multi-leg slings.
- Hexagon-headed screw for easy assembly/disassembly by means of an ordinary wrench.
- RLP can rotate 360° and articulate 180°.
- Forged in Grade 8+ material permits higher WLL than Grade 8 and DIN 580 eyebolts.
- Test loaded.
- The screw is Magnaflux crack tested and marked with H32.
- Open D-ring powder painted in fluorescent yellow.
- Low positioned open D-ring on centre line for optimal load distribution.
- Delivered with thread caps to avoid damage during transportation and storage.

Working load limits for RLP

Ton

No. of legs	1 leg		2 legs		2 symmetric		3 & 4 symmetric	
	0°	90°	0°	90°	0-45°	45-60°	0-45°	45-60°
Load factor	*)		*)		1.4	1	2.1	1.5
RLP-M8-10	0.60	0.30	1.20	0.60	0.42	0.30	0.63	0.45
RLP-M10-10	1.00	0.50	2.00	1.00	0.70	0.50	1.05	0.75
RLP-M12-10	1.50	0.75	3.00	1.50	1.00	0.75	1.60	1.13
RLP-M16-10	3.00	1.50	6.00	3.00	2.10	1.50	3.15	2.25
RLP-M20-10	5.00	2.50	10.00	5.00	3.50	2.50	5.25	3.75
RLP-M24-10	7.00	3.50	14.00	7.00	4.90	3.50	7.35	5.25
RLP-M30-10	12.00	6.00	24.00	12.00	8.40	6.00	12.60	9.00
RLP-M36-10	14.00	8.00	28.00	16.00	11.20	8.00	16.80	12.00
RLP-M42-10	16.00	14.00	32.00	28.00	19.60	14.00	29.40	21.00
RLP-M48-10	20.00	16.00	40.00	32.00	22.40	16.00	33.60	24.00

*) Provided only axial loading takes place, i.e. no bending force applied in the direction of the thread.

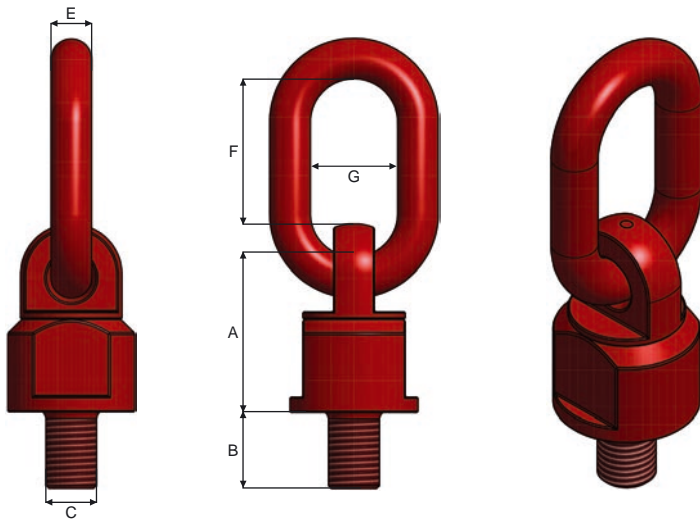
In case of asymmetric loading we recommend following loading:

- 2-leg as corresponding 1-leg.
- 3- or 4-leg as corresponding 2-leg.

Rotating Lifting Points

Part no.	WLL 4:1 ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Weight kg
LSS-0950-0015	0.150	50	18	M8	38	13	46	30	0.30
LSS-0950-0030	0.300	50	18	M10	38	13	46	30	0.30
LSS-0950-0050	0.500	50	18	M12	38	13	46	30	0.30
LSS-0950-0112	1.120	50	20	M16	38	13	46	30	0.34
LSS-0950-0200	2.000	61	30	M20	50	16	57	34	0.70
LSS-0950-0320	3.150	68	30	M24	58	19	70	40	1.40
LSS-0950-0500	5.300	80	35	M30	75	20	65	40	2.20
LSS-0950-0800	8.000	95	35	M30	85	22	90	50	3.50
LSS-0950-1000	10.000	130	50	M36	120	22	90	50	3.70
LSS-0950-1500	15.000	130	60	M45	120	30	120	70	6.80

Approved for lifting.

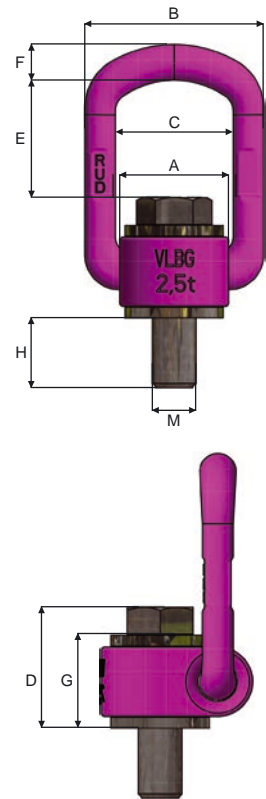


Max. load weight >L< for different lift combinations

Method of lift											
Number of legs	1	1	2	2	2	2	2	3 and 4	3 and 4	3 and 4	
Angle of inclination β	0°	90°	0°	90°	0-45°	45-60°	asymm.	0-45°	45-60°	asymm.	
Type	Thread	WLL in ton, bolted and adjusted to the direction of pull									
LSS-0950-0015	M8	0.3	0.15	0.6	0.3	0.21	0.15	0.15	0.315	0.225	0.15
LSS-0950-0030	M10	0.6	0.30	1.2	0.6	0.42	0.30	0.30	0.63	0.45	0.30
LSS-0950-0050	M12	1.0	0.50	2.0	1.0	0.75	0.50	0.50	1.10	0.75	0.50
LSS-0950-0112	M16	2.0	1.12	4.0	2.0	1.50	1.12	1.12	2.36	1.60	1.12
LSS-0950-0200	M20	4.0	2.00	8.0	4.0	2.80	2.00	2.00	4.00	3.00	2.00
LSS-0950-0320	M24	6.3	3.15	12.5	6.3	4.25	3.15	3.15	6.30	4.75	3.15
LSS-0950-0500	M30	10.6	5.00	21.2	10.6	7.10	5.30	5.30	11.20	8.00	5.30
LSS-0950-0800	M30	12.5	8.00	25.0	16.0	11.20	8.00	8.00	16.80	12.00	8.00
LSS-0950-1000	M36	15.0	10.00	30.0	20.0	14.00	10.00	10.00	21.20	15.00	10.00
LSS-0950-1500	M45	25.0	15.00	50.0	30.0	21.00	15.00	15.00	31.50	22.50	15.00

Rotating Lifting Points

Part no.	WLL	A	B	C	D	E	F	G	H	M	Torque	Weight
	ton	mm	mm	mm	mm	mm	mm	mm	mm	mm	nm	kg
LBG-M08	0.3	30	54	34	35	40	10.0	29	11	8	30	0.30
LBG-M10	0.63	30	54	34	36	39	10.0	29	16	10	60	0.32
LBG-M12	1.0	32	54	34	37	38	10.0	29	21	12	100	0.33
LBG-M16	1.5	33	56	36	46	39	13.5	36	24	16	150	0.55
LBG-M20	2.5	50	82	54	55	55	16.5	43	32	20	250	1.30
LBG-M24	4.0	50	82	54	58	66	18.0	43	37	24	350	1.50
LBG-M27	4.0	60	103	65	78	69	22.5	61	39	27	400	3.10
LBG-M30	5.0	60	103	65	80	67	22.5	61	49	30	500	3.10
LBG-M36-07	7.0	60	103	65	72	74	22.5	55	52	36	700	3.30
LBG-M36-08	8.0	77	122	82	100	97	26.5	77	63	36	800	5.80
LBG-M42-10	10.0	75	145	80	103	64	30x20	77	73	42	1000	6.40
LBG-M42-15	15.0	95	156	100	113	110	36.0	87	63	42	1500	11.20
LBG-M48	20.0	95	156	100	117	105	36.0	87	73	48	2000	11.20

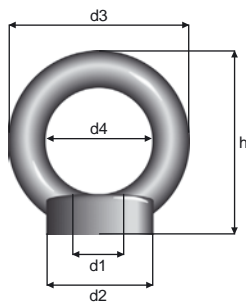


The material construction to which the lifting point will be attached, should be of adequate strength to withstand forces during lifting without deformation. RUD, with reference to the German testing authority BG, recommends the following minimum for bolt lengths:

- 1.5 x M in steel (minimum quality S235JR)
- 1.5 x M in cast iron (for example GG 25)
- 2 x M in aluminium alloys
- 2.5 x M in aluminium-magnesium alloys
- (M = diameter of RUD lifting point bolt, e.g. M 20)

Max. load weight >L< for different lift combinations

Method of lift	Thread	WLL in ton, bolted and adjusted to the direction of pull									
		L1	L	2 x L1	L	β	L	L	β	L	L
Number of legs		1	1	2	2	2	2	2	3 and 4	3 and 4	3 and 4
Angle of inclination < β		0°	90°	0°	90°	0-45°	45-60°	asymm.	0-45°	45-60°	asymm.
Factor		1.0	1.0	2.0	2.0	1.4	1.0	1.0	2.1	1.5	1.0
Type	Thread										
LBG-M08	M8	0.3	0.3	0.6	0.6	0.42	0.3	0.3	0.63	0.45	0.3
LBG-M10	M10	0.63	0.63	1.26	1.26	0.88	0.63	0.63	1.32	0.95	0.63
LBG-M12	M12	1.0	1.0	2.0	2.0	1.4	1.0	1.0	2.1	1.5	1.0
LBG-M16	M16	1.5	1.5	3.0	3.0	2.1	1.5	1.5	3.15	2.25	1.5
LBG-M20	M20	2.5	2.5	5.0	5.0	3.5	2.5	2.5	5.25	3.75	2.5
LBG-M24	M24	4.0	4.0	8.0	8.0	5.6	4.0	4.0	8.4	6.0	4.0
LBG-M27	M27	4.0	4.0	8.0	8.0	5.6	4.0	4.0	8.4	6.0	4.0
LBG-M30	M30	5.0	5.0	10.0	10.0	7.0	5.0	5.0	10.5	7.5	5.0
LBG-M36-07	M36	7.0	7.0	14.0	14.0	9.8	7.0	7.0	14.7	10.5	7.0
LBG-M36-08	M36	8.0	8.0	16.0	16.0	11.2	8.0	8.0	16.8	12.0	8.0
LBG-M42-10	M42	10.0	10.0	20.0	20.0	14.0	10.0	10.0	21.0	15.0	10.0
LBG-M42-15	M42	15.0	15.0	30.0	30.0	21.0	15.0	15.0	31.5	22.5	15.0
LBG-M48	M48	20.0	20.0	40.0	40.0	28.0	20.0	20.0	42.0	30.0	20.0

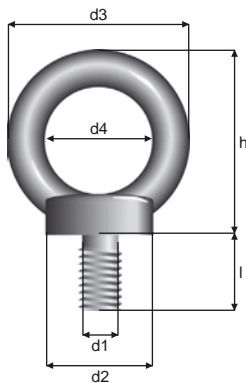


Eye nuts

Din 582

Part no.	WLL kg	Thread d1	Pitch mm	Body dia d2 mm	Eye dia. outside d3 mm	Eye dia. inside d4 mm	Height h mm
LØM-M06	70	M6	1.00	20	36	20	36
LØM-M08	140	M8	1.25	20	36	20	36
LØM-M10	230	M10	1.50	25	45	25	45
LØM-M12	340	M12	1.75	30	54	30	53
LØM-M16	700	M16	2.00	35	63	35	62
LØM-M20	1200	M20	2.50	40	72	40	71
LØM-M24	1800	M24	3.00	50	90	50	90
LØM-M30	3200	M30	3.50	65	108	60	109
LØM-M36	4600	M36	4.00	75	126	70	128

Approved for lifting.



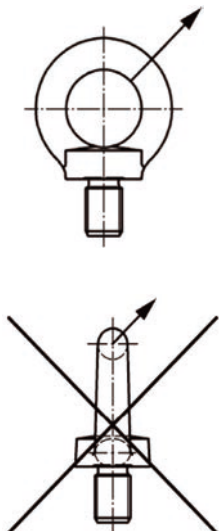
Eye bolts

Din 580

Part no.	WLL kg	Thread d1	Pitch mm	Pin l mm	Body dia d2 mm	Eye dia. outside d3 mm	Eye dia. inside d4 mm	Height h mm
LØB-M06	70	M6	1.00	13.0	20	36	20	36
LØB-M08	140	M8	1.25	13.0	20	36	20	36
LØB-M10	230	M10	1.50	17.0	25	45	25	45
LØB-M12	340	M12	1.75	20.5	30	54	30	53
LØB-M16	700	M16	2.00	27.0	35	63	35	62
LØB-M20	1200	M20	2.50	30.0	40	72	40	71
LØB-M24	1800	M24	3.00	36.0	50	90	50	90
LØB-M30	3200	M30	3.50	45.0	65	108	60	109
LØB-M36	4600	M36	4.00	54.0	75	126	70	128

Approved for lifting.

Instructions for use of lifting eye bolts



Thread

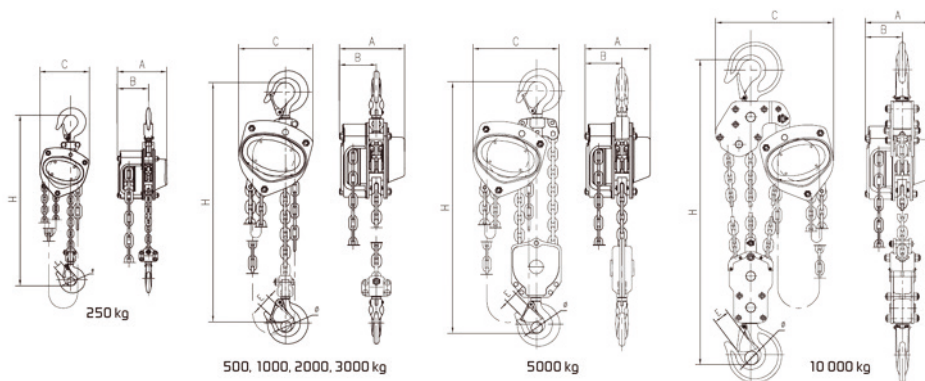
Lifting capacity in kg. per eye bolt

Thread	F1	Lifting capacity in kg. per eye bolt	
		F2	F3
M06	70	50	35
M08	140	100	70
M10	230	170	115
M12	340	240	170
M16	700	500	350
M20	1200	860	600
M24	1800	1290	900
M30	3200	2300	1600
M36	4600	3300	2300

The capacity specified in the table (F2 and F3) applies up to an inclination angle of 45°.

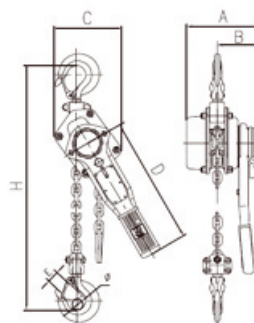
Chain blocks

Part no.	Type	WLL 4:1 kg	Lift mtr	Load chain	A mm	B mm	C mm	D mm	E mm	Fall	Weight kg
HKN-0500-30	1412	500	3.0	5.0 x 15.0	128	75	130	20	22	1	9.5
HKN-0500-50	1412	500	5.0	5.0 x 15.0	128	75	130	20	22	1	11.9
HKN-1000-30	1414	1000	3.0	6.3 x 19.0	142	76	150	25	26	1	12.5
HKN-2000-30	1416	2000	3.0	8.0 x 24.0	175	88	185	33	35	1	20.5
HKN-3000-30	1417	3000	3.0	10.0 x 30.0	195	95	226	36	37	1	32.6
HKN-3000-50	1417	3000	5.0	10.0 x 30.0	195	95	226	36	37	1	39.5
HKN-5000-30	1419	5000	3.0	9.0 x 27.0	183	90	255	43	44	2	44.0



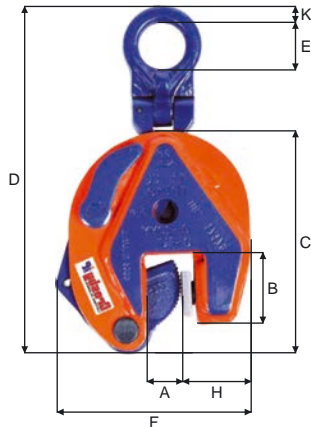
Lever Hoists

Part no.	Type	WLL 4:1 kg	Lift mtr	Load chain	A mm	B mm	C mm	D mm	E mm	Weight kg
HSN-0250-10	1511	250	1.0	4.0 x 12.0	100	70	86	18	20	2.5
HSN-0500-15	1512	500	1.5	5.0 x 15.0	150	90	118	20	22	5.3
HSN-0500-30	1512	500	3.0	5.0 x 15.0	150	90	118	20	22	6.7
HSN-1000-30	1514	1000	3.0	6.0 x 18.0	156	95	138	25	26	8.6
HSN-1500-15	1515	1500	1.5	7.1 x 21.0	186	112	145	30	29	11.1
HSN-1500-30	1515	1500	3.0	7.1 x 21.0	186	112	145	30	29	12.9
HSN-3000-15	1517	3000	1.5	10.0 x 28.0	208	120	198	36	37	20.5
HSN-3000-30	1517	3000	3.0	10.0 x 28.0	208	120	198	36	37	24.5
HSN-6000-15	1520	6000	1.5	10.0 x 28.0	208	120	230	43	43	35.5
HSN-6000-30	1520	6000	3.0	10.0 x 28.0	208	120	230	43	43	38.5
HSN-6000-425	1520	6000	4.25	10.0 x 28.0	208	120	230	43	43	41.5



Crosby lifting clamps

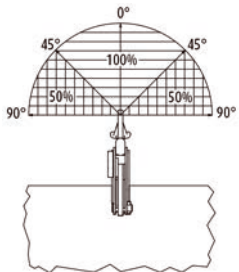
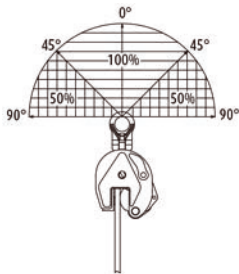
For lifting in any direction



Part no.	WLL ton	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	K mm	Weight kg
IPU10-0500	0.5	0-16	44	128	228	40	115	41	28	11	1.9
IPU10-1000	1.0	0-20	45	139	222	40	126	41	38	11	2.4
IPU10-2000	2.0	0-35	78	201	372	70	190	61	55	16	8.5

Other IP Crosby items on request.
Ask for separate catalog.

- Available in capacities of 0,5 thru 30 metric tonnes
Higher WLL and jaw openings are available upon request).
- Wide variety of jaw openings available: 0 to 155mm | 0" - 6.13".
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (CrosbyIP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body.
Serial number is included on the test certificate with maintenance and warranty logbook.
- Full 180° turning range for material transfer, turning or moving.
- Lock open, lock closed ability with latch for pretension on material and then release of material.
- Optional IP-5000 Stinger assembly available.
Allows for easy connection between the clamp and hoist hook.
- Minimum WLL of 10% of Maximum WLL.
- Maintenance replacement kits are available.
- Manufactured by a ISO 9001 facility.
- All sizes are RFID EQUIPPED.



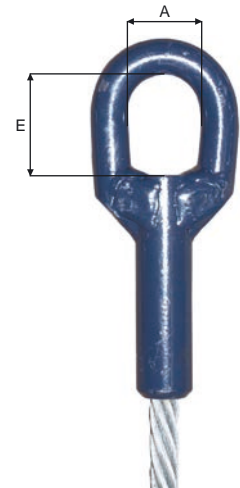
The IPU10 vertical lifting clamp is used for the lifting, turning, moving or vertical transfer of sheet, plates, or fabrications from horizontal to vertical and down to horizontal (180°) as needed. The hinged hoisting eye allows for the clamp to place and lift the load from any direction, or with a multiple leg sling without side loading the clamp. The IPU10 lifting clamps with a WLL of 12t and up are fitted with special hook-up facilities to enable easy placement of the clamp in horizontal position.



BMM Containerstraps

Blue Painted

Part no.	Wire dimension	A	E
	mm		
LC1-T6-14-xxxx	14	36	55
LC1-T6-16-xxxx	16	36	55
LC1-F6-16-xxxx	16	36	55
LC2-T6-14-xxxx	14	43	60
LC2-T6-16-xxxx	16	43	60
LC2-F6-16-xxxx	16	43	60



Wire rope: Galvanized 6x36 WA/SE with steel core (IWRC)

T = Dry wire rope

F = Greased wire rope

xxxx indicates the length wire rope , example: 0950 = 9,5mtr and 1200 = 12mtr

Special developed endfitting, which can not loose shape and therefore it can always be disengaged from the hook on the hoist platform.

The steelwire end is tapered so the mounting on the hoist platform will be without any problems.

Can be delivered upon request

Ask for separate catalogues

Grade 8 eye nuts/bolts and stainless steel lifting products from Excel



EXCEL[®]

Lifting products from Gunnebo



GUNNEBO
Industries

Lifting products from Crosby



Crosby[®]

Wire grommets and eye grommets in custom length from Reichardt



REICHARDT
Seile - Hebertechnik GmbH

Lifting products from Svero



SVERO



CHAINS & CONNECTORS

- TRAWLEX / CROSBY
- BMM

- TRYGG / NØSTED
- STAINLESS

- GUNNEBO
- BRIGHT

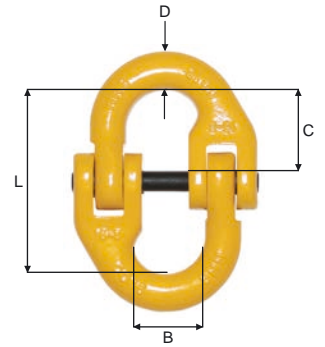


www.blueline.dk

CO-Connectors

Yellow painted

Part no.	Breaking load ton	L mm	B mm	D mm	C mm	Weight kg	Number pr. box pcs
CO07	8.0	52	19	9	22	0.11	80
CO10	12.8	64	24	12	26	0.26	40
CO13	21.6	86	32	16	36	0.62	20
CO16	32.0	100	40	20	40	1.05	10
CO19	50.0	122	47	23	46	1.58	5
CO22	60.0	150	49	24	59	3.00	5
CO26	85.0	160	58	29	61	4.60	1



Spareparts for connectors

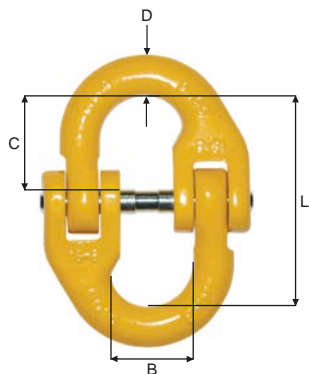
Part no.	Weight kg/100	For
CO07B	0.20	CO07
CO10B	0.50	CO10
CO13B	1.20	CO13
CO16B	2.30	CO16
CO19B	4.00	CO19
CO22B	6.00	CO22
CO26B	8.00	CO26



Part no.	Weight kg/100	For
CO07P	0.20	CO07
CO10P	1.90	CO10
CO13P	4.70	CO13
CO16P	7.70	CO16
CO19P	12.00	CO19
CO22P	24.00	CO22
CO26P	40.00	CO26



Also available with spiralspring and galvanized collar.



COG-Connectors

Yellow painted

Part no.	Breaking load ton	L mm	B mm	D mm	C mm	Weight kg	Number pr. box pcs
COG07C	8.0	52	19	9	22	0.11	80
COG10C	12.8	64	24	12	26	0.26	40
COG13C	21.6	86	32	16	36	0.62	20
COG16C	32.0	100	40	20	40	1.05	10
COG19C	50.0	122	47	23	46	1.58	5
COG22C	60.0	150	49	24	59	3.00	5
COG26C	85.0	160	58	29	61	4.60	2
COG32C	125.0	172	73	40	66	8.30	2

Individually tested - with certificate.

Spareparts for connectors



Part no.	Weight kg	For
COG07CB	0.02	COG07C
COG10CB	0.10	COG10C
COG13CB	0.15	COG13C
COG16CB	0.20	COG16C
COG19CB	0.25	COG19B
COG22CB	0.35	COG22C
COG26CB	0.55	COG26C
COG32CB	0.80	COG32C



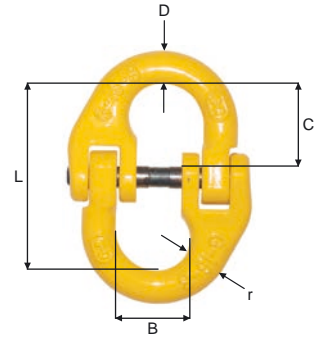
Part no.	Weight kg	For
COG07CP	0.02	COG07C
COG10CP	0.10	COG10C
COG13CP	0.15	COG13C
COG16CP	0.20	COG16C
COG19CP	0.25	COG19C
COG22CP	0.35	COG22C
COG26CP	0.55	COG26C
COG32CP	0.80	COG32C

J

Connectors



Part no.	WLL 4:1 ton	L mm	B mm	D mm	C mm	r mm	Min. hole for mounting mm	Number pr. box pcs	Weight kg
G-7/8-8	1.6	56	18	8	22	9	14	40	0.16
G-10-8	2.5	68	25	12	26	13	19	20	0.30
G-13-8	4.2	88	29	15	33	15	24	20	0.69
G-16-8	6.4	104	36	19	40	20	26	15	1.10
G-19-8	10.0	125	43	22	48	23	32	10	1.80
G-22-8	12.0	150	49	24	59	26	35	1	3.00
G-26-8	17.0	160	58	29	61	30	38	1	4.60
G-32-8	25.0	200	70	36	78	36	42	1	8.60



Connectors



Fishing type

Part no.	WLL 4:1 ton	L mm	B mm	D mm	I mm	r mm	Min. hole for mounting mm	Number pr. box pcs	Weight kg
GF-10-8	2.5	68	25	12	26	13	19	20	0.30
GF-13-8	4.2	88	29	15	33	15	24	20	0.69
GF-16-8	6.4	104	36	19	40	20	26	15	1.10
GF-19-8	10.0	125	43	22	48	23	32	10	1.80
GF-22-8	12.0	150	49	24	59	26	35	1	3.00

Spareparts for connectors

G

Part no.	Weight kg	For
SKA-7/8	0.02	G-7/8-8
SKA-10	0.10	G-10-8
SKA-13	0.15	G-13-8
SKA-16	0.20	G-16-8
SKA-19	0.25	G-19-8
SKA-22	0.35	G-22-8
SKA-26	0.55	G-26-8
SKA-32	0.80	G-32-8



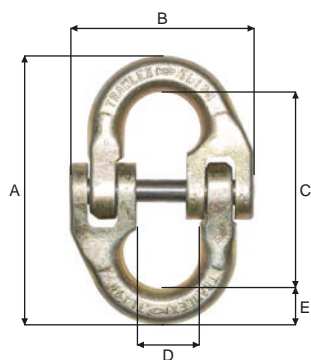
GF

Part no.	Weight kg	For
SKAF-10	0.10	GF-10-8
SKAF-13	0.15	GF-13-8
SKAF-16	0.20	GF-16-8
SKAF-19	0.25	GF-19-8
SKAF-22	0.35	GF-22-8



J

Connectors



Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	E mm	Weight kg
TL07	1.5	67	47	48	14.3	09	0.11
TL10	2.5	89	63	64	19.2	13	0.36
TL13	4.2	118	84	85	26.5	17	0.66
TL16	6.4	144	95	106	32.0	19	1.08
TL19	10.0	168	114	122	38.5	23	1.77
TL23	12.0	206	140	150	49.0	28	2.80
TL26	17.0	230	160	166	57.0	32	4.40
TL32	25.0	278	209	200	63.0	39	8.40

Spareparts for connectors



Part no.	Weight kg/100	For
TL07B	0.20	TL07
TL10B	0.50	TL10
TL13B	1.20	TL13
TL16B	2.30	TL16
TL19B	4.00	TL19
TL23B	5.00	TL23
TL26B	6.50	TL26
TL32B	9.00	TL32

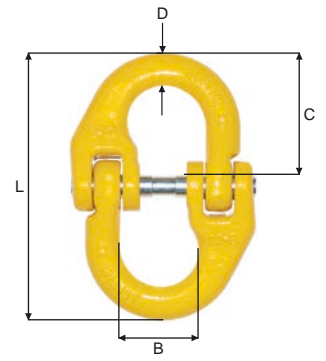


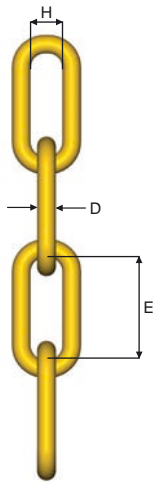
Part no.	Weight kg/100	For
TL07P	0.20	TL07
TL10P	1.90	TL10
TL13P	4.70	TL13
TL16P	7.70	TL16
TL19P	12.00	TL19
TL23P	24.00	TL23
TL26P	39.50	TL26
TL32P	73.00	TL32

COX-Connectors

Yellow painted

Part no.	Breaking load ton	L mm	B mm	D mm	C mm	Weight kg	Number pr. box pcs
COX07	8.0	52	19	9	22	0.11	150
COX10	12.8	64	24	12	26	0.26	60
COX13	21.6	86	32	16	36	0.62	30
COX16	32.0	100	40	20	40	1.05	25
COX19	50.0	122	47	23	46	1.58	10
COX22	60.0	150	49	24	59	3.00	10





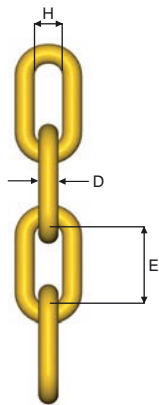
Alloy steel chains

Grade 8 · Long link



Part no.	WLL 5:1 ton	D mm	E mm	H mm	Meter pr. barrel mtr	Weight kg/mtr
HLL-9-8	2.0	9	57	16	280	1.4
HLL-11-8	3.0	11	66	18	200	2.1
HLL-13-8	4.2	13	81	22	150	2.7
HLL-16-8	6.4	16	81	26	100	4.8
LL-16-8	6.4	16	100	26	100	4.3
LL-19-8	9.0	19	100	28	75	6.5
LL-22-8	12.1	22	120	32	55	8.5
LL-28-8	19.7	28	150	39	50	14.0
LL-32-8	25.7	32	170	44	50	19.0

Available yellow or blackpainted.



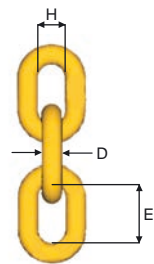
Alloy steel chains

Grade 8 · Mid link



Part no.	WLL 5:1 ton	D mm	E mm	H mm	Meter pr. barrel mtr	Weight kg/mtr
MLL-13-8	4.2	13	50	18	150	3.3
MLL-16-8	6.4	16	65	29	100	5.1
MLL-19-8	9.0	19	75	29	75	7.1
MLL-22-8	12.1	22	88	30	55	9.4

Available yellow or blackpainted.



Alloy steel chains

Grade 8 · Short link



Part no.	WLL 5:1 ton	D mm	E mm	H mm	Meter pr. barrel mtr	Weight kg/mtr
KLL-13-8	4.2	13	39	17	150	3.4
KLL-16-8	6.4	16	48	22	100	5.3
KLL-19-8	9.0	19	57	26	75	8.0
KLL-22-8	12.1	22	66	30	50	11.0

Available blackpainted.

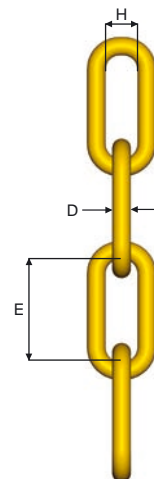
J

Alloy steel chains

Grade 95 · Long link · Selfcolored



Part no.	WLL 4:1 ton	D mm	E mm	H mm	Meter pr. barrel mtr	Weight kg/mtr
LL-16-95	9.7	16	100	26	100	4.3
LL-19-95	13.7	19	100	28	75	6.5
LL-22-95	18.4	22	120	32	55	8.5
LL-28-95	29.8	28	150	39	50	14.0
LL-32-95	38.9	32	170	44	50	19.0

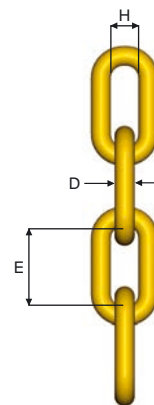


Alloy steel chains

Grade 95 · Mid link · Selfcolored

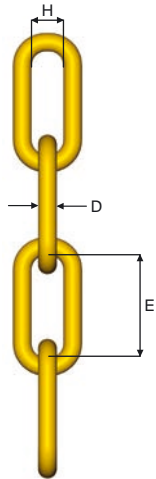


Part no.	WLL 4:1 ton	D mm	E mm	H mm	Meter pr. barrel mtr	Weight kg/mtr
MLL-13-95	6.4	13	50	18	150	3.3
MLL-16-95	9.7	16	65	29	100	5.1
MLL-19-95	13.7	19	75	29	75	7.1
MLL-22-95	18.4	22	88	30	55	9.4



Alloy steel chains

Grade 8 · Long link

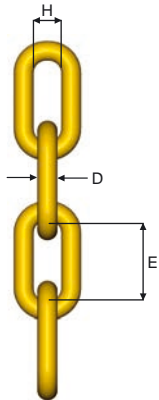


Part no.	WLL 5:1 ton	D mm	E mm	H mm	Meter pr. barrel mtr	Weight kg/mtr
HLC-9-8	2.0	9	53	15	150	1.4
HLC-11-8	3.0	11	64	19	150	2.1
HLC-13-8	4.2	13	80	22	150	2.9
LLU-16-8	6.4	16	100	28	50-100	4.4
LLU-19-8	9.0	19	100	28	50-100	6.5
LLU-22-8	12.1	22	120	36	50-100	8.7

Available yellow or blackpainted.

Alloy steel chains

Grade 8 · Mid link

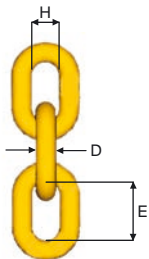


Part no.	WLL 5:1 ton	D mm	E mm	H mm	Meter pr. barrel mtr	Weight kg/mtr
MLF-10-8	2.5	10	45	15	200	2.0
MLF-13-8	4.2	13	50	15	100	3.3
MLF-16-8	6.4	16	65	23	100	5.0
MLF-19-8	9.0	19	75	30	50	7.2
MLF-22-8	12.1	22	88	31	50	9.5
MLF-26-8	17.2	26	91	35	50	13.9

Available yellow or blackpainted.

Alloy steel chains

Grade 8 · Short link



Part no.	WLL 5:1 ton	D mm	E mm	H mm	Meter pr. barrel mtr	Weight kg/mtr
KLF-7-8	1.2	7	21	10	200	1.1
KLF-10-8	2.5	10	30	15	200	2.2
KLF-13-8	4.2	13	39	18	125	3.4
KLF-16-8	6.4	16	48	22	92	5.3
KLF-19-8	9.0	19	57	26	50	8.0
KLF-22-8	12.1	22	66	30	50	11.0

Available blackpainted.

J

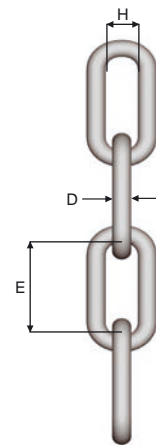
Alloy steel chains



Grade 95 · Long link

Part no.	Breaking load	D	E	H	Meter pr. barrel	Weight
	ton					
PLL-16-95/100	40.0	16	100	26	100	4.34
PLL-19-95/108	57.0	19	100	27	108	6.31
PLL-22-95/70	75.0	22	120	37	70	8.74
PLL-28-95/50	105.0	28	150	46	50	14.41

Super Hardened chain with 25% extra strength.



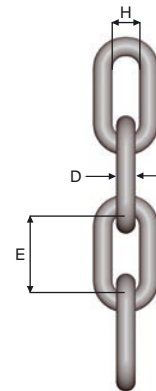
Alloy steel chains



Grade 95 · Mid link

Part no.	Breaking load	D	E	H	Meter pr. barrel	Weight
	ton					
PMLP-16-95/110	41.0	16	64	24.0	110	4.85
PMLP-19-95/75	57.0	19	76	28.5	75	6.92
PML-22-95/60	75.0	22	86	27.0	60	9.24
PML-26-95/50	85.0	26	92	31.0	50	13.66

Super Hardened chain with 25% extra strength.



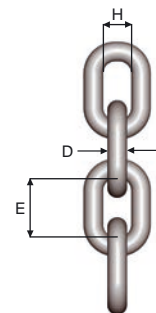
Alloy steel chains



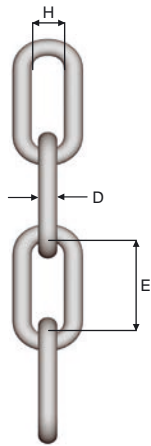
Grade 95 · Short link

Part no.	Breaking load	D	E	H	Meter pr. barrel	Weight
	ton					
PKL-16-95/110	41.0	16	48	22.4	110	5.41
PKL-19-95/75	57.0	19	57	27.8	75	7.81

Super Hardened chain with 25% extra strength.



J



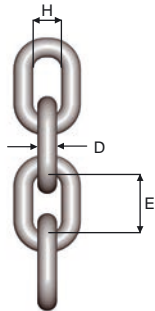
Chains

Stainless steel · Long link · AISI 316 · DIN 763

Part no.	WLL 6:1 kg	D mm	E mm	H mm	Weight kg/mtr
LL-02-316	50	2	22	4	0.06
LL-04-316	210	4	32	8	0.27
LL-06-316	470	6	42	12	0.63
LL-08-316	840	8	52	16	1.10
LL-10-316	1310	10	56	20	1.75
LL-13-316	2250	13	82	26	2.95
LL-16-316	3350	16	82	32	4.45

Chains

Stainless steel · Short link · AISI 316 · DIN 766



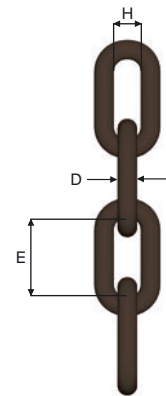
Part no.	WLL 4:1 kg	D mm	E mm	H mm	Weight kg/mtr
KL-03-316	100	3	16.0	5	0.16
KL-04-316	315	4	16.0	6	0.32
KL-05-316	490	5	18.5	7	0.50
KL-06-316	700	6	18.5	8	0.75
KL-07-316	960	7	22.0	9	1.00
KL-08-316	1260	8	24.0	10	1.35
KL-10-316	1960	10	28.0	14	2.25
KL-13-316	3320	13	36.0	18	3.80

J

Chains

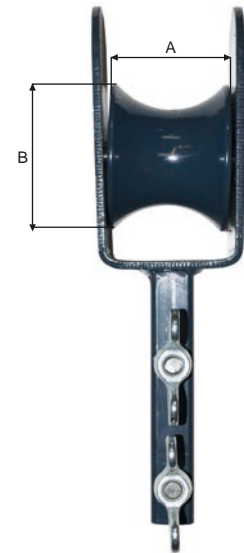
Grade 2 · Bright · Mid link

Part no.	D mm	E mm	H mm	Weight kg/mtr
HLB-8-2	8.0	47	13	1.1
HLB-10-2	10.0	59	16	1.7
HLB-13-2	12.5	55	17	2.9



Roller for chain barrel

Part no.	A mm	B mm	Weight kg
H90	70	88	4.00





J



J

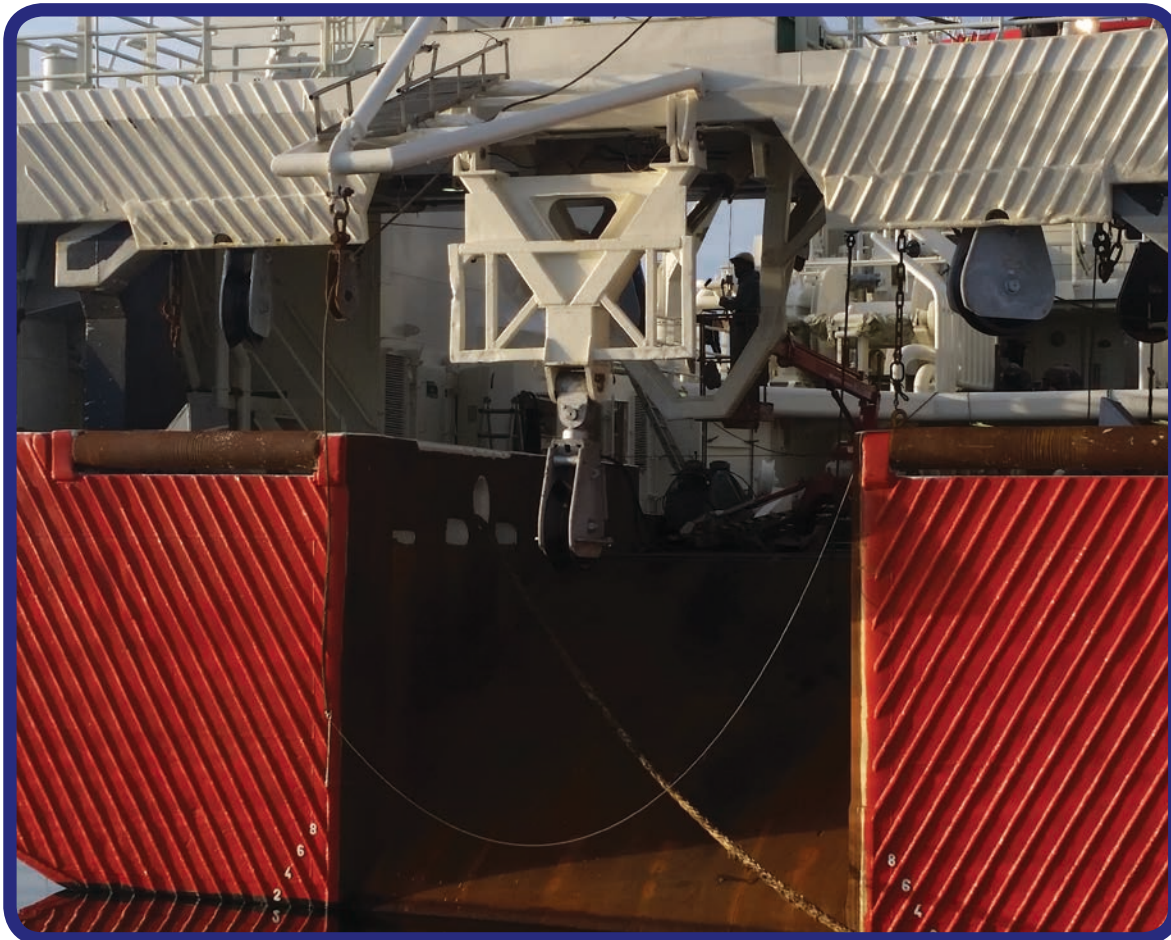
BLOCKS

- TACKLE BLOCKS
- TRAWLBLOCKS
- SUSPENSION UNITS
- LAZY LINE BLOCKS

- SNATCH BLOCKS
- OPEN TRAWLBLOCKS
- NETSOUNDER BLOCKS
- SHEAVES

- PURSE BLOCKS
- CENTER BLOCKS
- FAIRLEAD BLOCKS





K

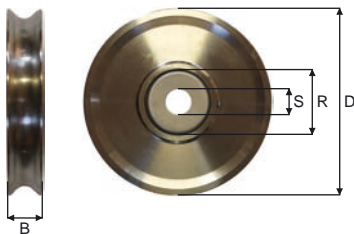
Top fittings

Part no.	Swivel eye				Swivel hook			Swivel shackle eye				Swivel fork						
	M mm	N mm	O mm	P mm	O mm	P mm	Q mm	L mm	M mm	R mm	P mm	K mm	L mm	M mm	N mm	R mm	P mm	
KT1	25	38	13	65	20	82	25	-	-	-	-	-	-	-	-	-	-	-
KT2	23	55	16	94	25	94	28	-	-	-	-	-	-	-	-	-	-	-
KT3	26	66	20	110	30	105	30	-	-	-	-	-	-	-	-	-	-	-
KT4	35	68	23	134	38	132	38	29	42	35	93	104	23	40	65	30	134	
KT6	40	90	26	153	46	170	46	33	46	42	104	104	23	40	65	30	134	

Sheaves

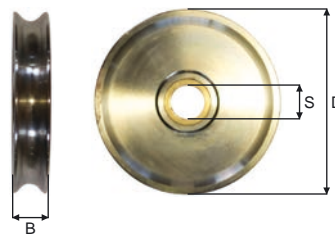
Ball bearing

Part no.	B mm	D mm	R mm	S mm	Weight kg
SKT1-1	22	80	47	17	0.60
SKT2-1	24	110	52	20	1.25
SKT3-1	28	150	47	20	2.65
SKT4-1	35	185	62	30	5.10
SKT6-1	42	210	76	30	7.70



Bronze Bushing

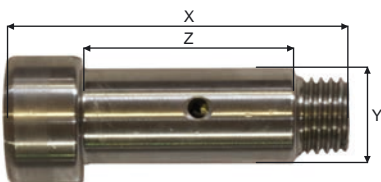
Part no.	B mm	D mm	S mm	Weight kg
SKT1-0	22	80	20	0.75
SKT2-0	24	110	25	1.30
SKT3-0	28	150	25	2.60
SKT4-0	35	185	30	5.20
SKT6-0	42	210	30	7.60



Pins

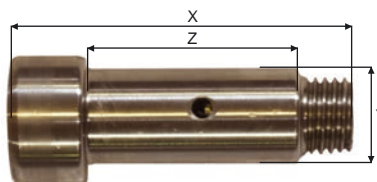
Ball bearing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT1-1	50	17	28	0.10
PKT2-1	52	20	30	0.15
PKT3-1	67	20	41	0.20
PKT4-1	75	30	43	0.40
PKT6-1	85	30	51	0.45



Bronze Bushing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT1-0	57	20	28	0.10
PKT2-0	61	25	30	0.15
PKT3-0	67	25	35	0.20
PKT4-0	75	30	43	0.40
PKT6-0	85	30	51	0.45



BMM Blocks · Single

Galvanized

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	Becket dia. (extra charge) mm	Max wire mm	Weight kg
KT1	1.0	2.0	4.0	163	22	80	16	16	1.7
KT2	2.0	4.0	8.0	195	24	110	22	18	3.1
KT3	3.0	6.0	12.0	257	28	150	31	20	6.4
KT4	4.0	8.0	16.0	330	35	185	40	22	11.1
KT6	6.0	12.0	24.0	365	42	210	40	24	17.0

BMM-Blocks must be ordered with one of the following:

- 1 Ball bearing; KT1, KT2 sealed ball bearings; KT3 KT4, KT6 greaseable ball bearings.
- 0 Bronze bushing; All bronze bushing are greaseable.

And one of the following:

- E Swivel eye.
- K Swivel hook. If the block is used with hook as suspension, the WLL is reduced with 50%.
- F Swivel fork, KT4, KT6.
- S Swivel shackle eye, KT4, KT6

On order add letter, e.g. KT2-1EG

Against extra charge all blocks are available with:

- B Becket.
- C Tested with certificate.
- H Flame hardend sheave.

On order add letter, e.g. KT2-1EGC



K

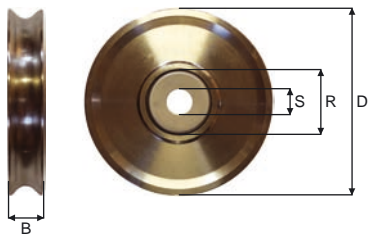
Top fittings

Part no.	Swivel eye				Swivel hook			Swivel shackle eye				Swivel fork						
	M mm	N mm	O mm	P mm	O mm	P mm	Q mm	L mm	M mm	R mm	P mm	K mm	L mm	M mm	N mm	R mm	P mm	
KT1	25	38	13	65	20	82	25	-	-	-	-	-	-	-	-	-	-	-
KT2	23	55	16	94	25	94	28	-	-	-	-	-	-	-	-	-	-	-
KT3	26	66	20	110	30	105	30	-	-	-	-	-	-	-	-	-	-	-
KT4	35	68	23	134	38	132	38	26	35	35	93	104	23	40	65	30	134	
KT6	40	90	26	153	46	170	46	29	42	40	100	104	23	40	65	30	134	

Sheaves

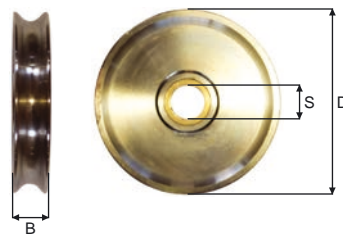
Ball bearing

Part no.	B mm	D mm	R mm	S mm	Weight kg
SKT1-1	22	80	40	17	0.60
SKT2-1	24	110	52	20	1.25
SKT3-1	28	150	47	20	2.65
SKT4-1	35	185	62	30	5.10
SKT6-1	42	210	76	30	7.70



Bronze bushing

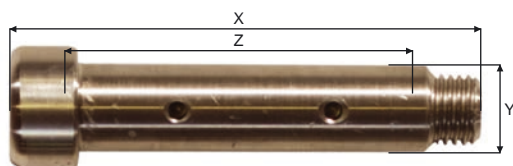
Part no.	B mm	D mm	S mm	Weight kg
SKT1-0	22	80	20	0.75
SKT2-0	24	110	25	1.30
SKT3-0	28	150	25	2.60
SKT4-0	35	185	30	5.20
SKT6-0	42	210	30	7.60



Pins

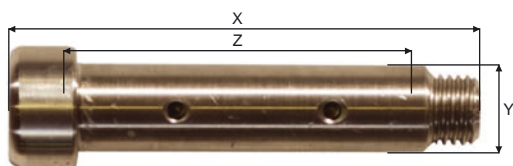
Ball bearing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT1D-1	85	17	55	0.15
PKT2D-1	92	20	60	0.25
PKT3D-1	100	20	76	0.30
PKT4D-1	115	30	86	0.65
PKT6D-1	132	30	100	0.75



Bronze bushing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT1D-0	85	20	56	0.20
PKT2D-0	92	25	61	0.36
PKT3D-0	102	25	70	0.38
PKT4D-0	118	30	86	0.66
PKT6D-0	133	30	100	0.76



BMM Blocks · Double

Galvanized

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	C mm	D mm	Max wire mm	Weight kg
KT1D	1.0	2.0	4.0	187	22	16	80	16	3.1
KT2D	2.0	4.0	8.0	224	24	22	110	18	5.2
KT3D	3.0	6.0	12.0	296	28	31	150	20	11.0
KT4D	4.0	8.0	16.0	385	35	40	185	22	19.0
KT6D	6.0	12.0	24.0	425	42	40	210	24	27.8

BMM-Blocks must be ordered with one of the following:

- 1 Ball bearing; KT1, KT2 sealed ball bearings; KT3 KT4, KT6 greaseable ball bearings.
- 0 Bronze bushing; All bronze bushing are greaseable.

And one of the following:

- E Swivel eye.
- K Swivel hook. If the block is used with hook as suspension, the WLL is reduced with 50%.
- F Swivel fork, KT4, KT6.
- S Swivel shackle eye, KT4, KT6

On order add letter, e.g. K1D-1EG

Against extra charge are all blocks available:

- C Tested with certificate.
- H Flame hardend sheave.

On order add letter, e.g. KT1D-1EGC



K

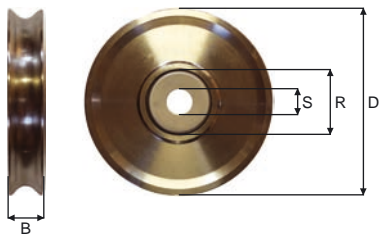
Top fittings

Part no.	Swivel eye				Swivel hook			Swivel shackle eye				Swivel fork						
	M mm	N mm	O mm	P mm	O mm	P mm	Q mm	L mm	M mm	R mm	P mm	K mm	L mm	M mm	N mm	R mm	P mm	
KT1	25	38	13	65	20	82	25	-	-	-	-	-	-	-	-	-	-	-
KT2	23	55	16	94	25	94	28	-	-	-	-	-	-	-	-	-	-	-
KT3	26	66	20	110	30	105	30	-	-	-	-	-	-	-	-	-	-	-
KT4	35	68	23	134	38	132	38	26	35	35	93	104	23	40	65	30	134	
KT6	40	90	26	153	46	170	46	29	42	40	100	104	23	40	65	30	134	

Sheaves

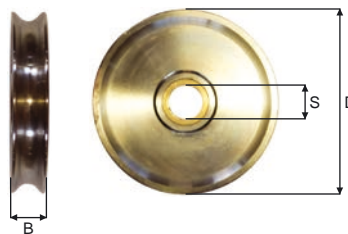
Ball bearing

Part no.	B mm	D mm	R mm	S mm	Weight kg
SKT1-1	22	80	40	17	0.60
SKT2-1	24	110	52	20	1.25
SKT3-1	28	150	47	20	2.65
SKT4-1	35	185	62	30	5.10
SKT6-1	42	210	76	30	7.70



Bronze bushing

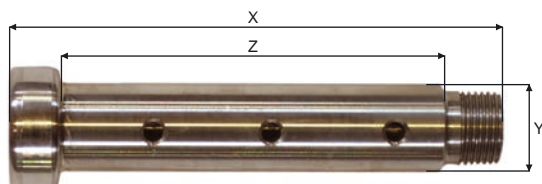
Part no.	B mm	D mm	S mm	Weight kg
SKT1-0	22	80	20	0.75
SKT2-0	24	110	25	1.30
SKT3-0	28	150	25	2.60
SKT4-0	35	185	30	5.20
SKT6-0	42	210	30	7.60



Pins

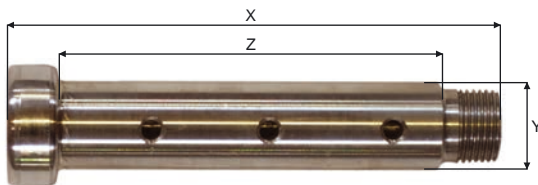
Ball bearing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT1T-1	106	17	88	0.22
PKT2T-1	115	20	92	0.32
PKT3T-1	125	20	110	0.55
PKT4T-1	174	30	159	0.88
PKT6T-1	192	30	177	1.20



Bronze bushing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT1T-0	106	20	88	0.28
PKT2T-0	115	25	92	0.41
PKT3T-0	125	25	110	0.66
PKT4T-0	174	30	159	0.88
PKT6T-0	192	30	177	1.20



BMM Blocks · Triple

Galvanized

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	C mm	D mm	Max wire mm	Weight kg
KT1T	1.0	2.0	4.0	187	22	16	80	16	4.5
KT2T	2.0	4.0	8.0	224	24	22	110	18	7.5
KT3T	3.0	6.0	12.0	296	28	31	150	20	15.8
KT4T	4.0	8.0	16.0	385	35	40	185	22	27.4
KT6T	6.0	12.0	24.0	425	42	40	210	24	40.0

BMM-Blocks must be ordered with one of the following:

- 1 Ball bearing; KT1, KT2 sealed ball bearings; KT3 KT4, KT6 greaseable ball bearings.
- 0 Bronze bushing; All bronze bushing are greaseable.

And one of the following:

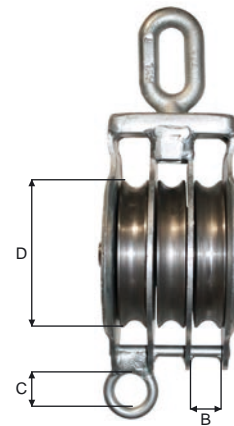
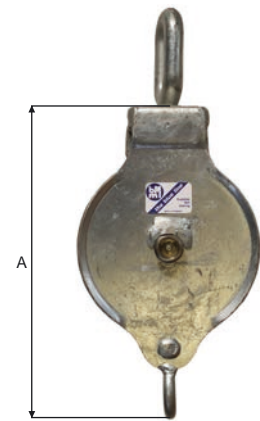
- E Swivel eye.
- K Swivel hook. If the block is used with hook as suspension, the WLL is reduced with 50%.
- F Swivel fork, KT4, KT6.
- S Swivel shackle eye, KT4, KT6

On order add letter, e.g. KT6T-1EG

Against extra charge all blocks are available with:

- C Tested with certificate.
- H Flame hardend sheave.

On order add letter, e.g. KT6T-1EGC



K

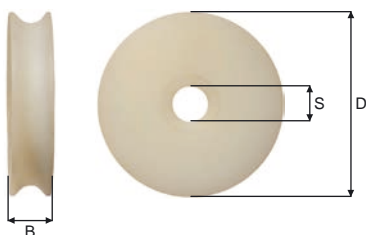
Top fittings

Part no.	Swivel eye				Swivel hook		
	M mm	N mm	O mm	P mm	O mm	P mm	Q mm
KT1-N	25	38	13	65	20	82	25
KT2-N	23	55	16	94	25	94	28
KT3-N	26	66	20	110	30	105	30

Sheaves

Nylon

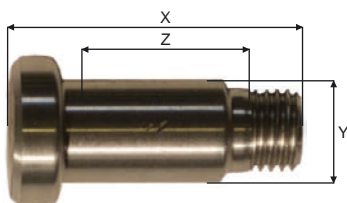
Part no.	B mm	D mm	S mm	Weight kg
SKT1N	22	80	17	0.15
SKT2N	24	110	20	0.25
SKT3N	28	150	20	0.55



Pins

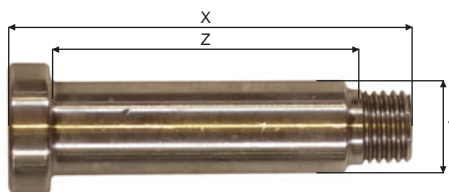
Single

Part no.	X mm	Y mm	Z mm	Weight kg
PKT1N	50	17	28	0.10
PKT2N	52	20	30	0.15
PKT3N	67	20	41	0.20



Double

Part no.	X mm	Y mm	Z mm	Weight kg
PKT1DN	77	17	55	0.15
PKT2DN	82	20	60	0.25
PKT3DN	100	20	76	0.30



K

BMM Blocks · Single

Nylon sheave · Galvanized

Part no.	WLL 5:1 ton	A mm	B mm	D mm	Becket dia. mm	Max wire mm	Weight kg
KT1-N	1.0	163	22	80	16	16	1.3
KT2-N	2.0	195	24	110	22	18	2.1
KT3-N	3.0	257	28	150	31	20	4.1

BMM-Blocks must be ordered with one of the following:

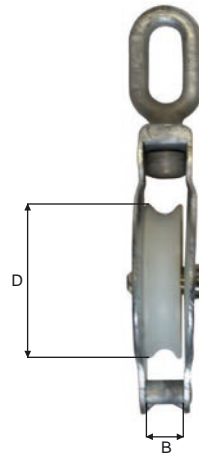
- E** Swivel eye.
- K** Swivel hook.

On order add letter, e.g. KT1D-NEG

Against extra charge are all blocks available:

- B** Becket.
- C** Tested with certificate.

On order add letter, e.g. KT1D-NEGC



BMM Blocks · Double

Nylon sheave · Galvanized

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	Max wire mm	Weight kg
KT1D-N	1.0	187	22	16	80	16	1.9
KT2D-N	2.0	224	24	22	110	18	3.3
KT3D-N	3.0	296	28	31	150	20	6.6

BMM-Blocks must be ordered with one of the following:

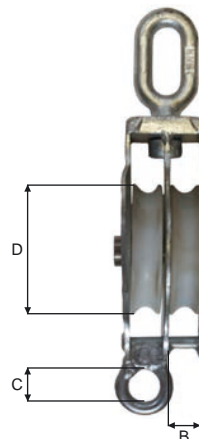
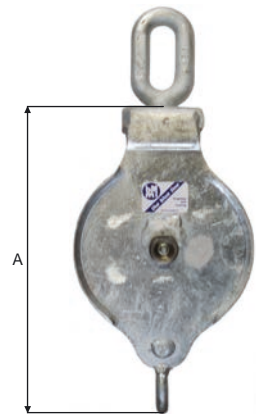
- E** Swivel eye.
- K** Swivel hook.

On order add letter, e.g. KT1D-NEG

Against extra charge are all blocks available:

- C** Tested with certificate.

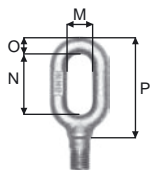
On order add letter, e.g. KT1D-NEGC



K

Top fittings

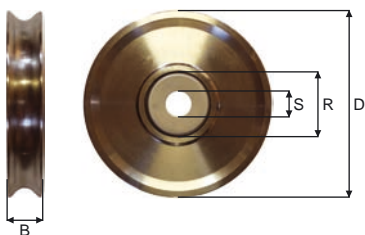
Swivel eye



Part no.	M ton	N mm	O mm	P mm
KT1-1ESS	23	34	13	65
KT2-1ESS	22	54	16	94

Sheaves

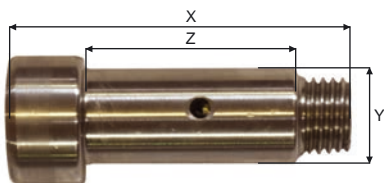
Part no.	B ton	D mm	R mm	S mm	Weight kg
SKT1-1SS	22	80	40	17	0.60
SKT2-1SS	24	110	47	20	1.25



Pins

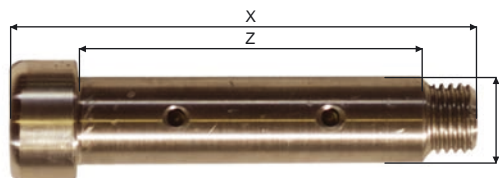
Ball bearing - Single

Part no.	X ton	Y mm	Z mm	Weight kg
PKT1-1SS	50	17	28	0.10
PKT2-1SS	52	20	30	0.15



Ball bearing - Double

Part no.	X ton	Y mm	Z mm	Weight kg
PKT1D-1SS	77	17	55	0.15
PKT2D-1SS	82	20	60	0.25



K

BMM Blocks

Ball bearing · Stainless steel

Part no.	WLL 5:1 ton	A mm	B mm	D mm	Becket dia. mm	Max wire mm	Weight kg
KT1-1ESS	1.0	163	22	80	16	16	1.7
KT2-1ESS	2.0	195	24	110	22	18	3.2

Against extra charge all blocks are available with:

- B** Becket.
- C** Tested with certificate.

On order add letter, e.g.KT1D-1ESSB



BMM Blocks · Double

Ball bearing · Stainless steel

Part no.	WLL 5:1 ton	A mm	B mm	C mm	D mm	Max wire mm	Weight kg
KT1D-1ESS	1.0	187	22	16	80	16	2.8
KT2D-1ESS	2.0	224	24	22	110	18	5.2

Against extra charge all are blocks available with:

- C** Tested with certificate.

On order add letter, e.g.KT1D-1ESSB



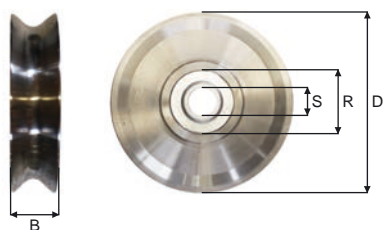
K

Top fittings

Part no.	Swivel eye				Swivel fork					
	M mm	N mm	O mm	P mm	K mm	L mm	M mm	N mm	R mm	P mm
KTV320-2	45	90	32	155	125	62	70	95	51	180
KTV380-2	45	90	32	155	125	62	70	95	51	180

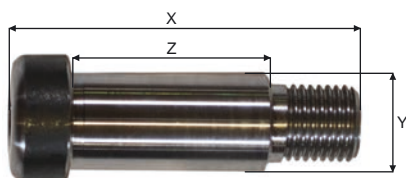
Sheaves

Part no.	B mm	D mm	R mm	S mm	Weight kg
SKTV320-2	50	320	80	35	12
SKTV380-2	50	380	80	35	15



Pins

Part no.	X mm	Y mm	Z mm	Weight kg
PKTV320-2	120	35	68	1.10
PKTV380-2	120	35	68	1.90



K

BMM Tackle blocks

Galvanized

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	E mm	F mm	F ₁ mm	G mm	J mm	Max wire mm	Weight kg
KTV320-2	6.5	13.0	26.0	522	50	320	105	58	132	280	6	28	29.0
KTV380-2	5.5	11.0	22.0	539	50	380	100	54	130	336	6	28	55.0

2: Roller bearing

For synthetic rope all blocks can be supplied with stainless sheave.

BMM-Blocks must be ordered with one of the following:

E Swivel eye.

F Swivel fork.

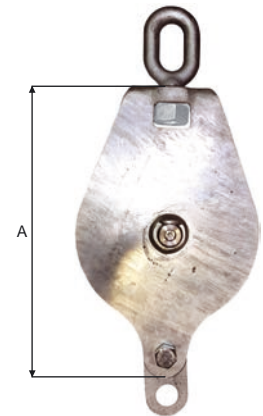
On order add letter, e.g. KTV320-2E

Against extra charge all blocks are available with:

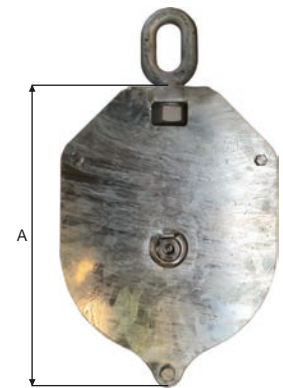
B Becket.

C Tested with certificate.

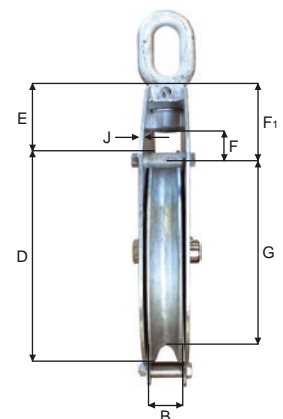
On order add letter, e.g. KTV320-2EG



KTV320-2



KTV380-2



K

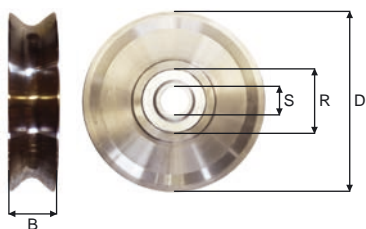
Top fittings

Part no.	Swivel eye				Swivel fork						Swivel shackle eye			
	M mm	N mm	O mm	P mm	K mm	L mm	M mm	N mm	R mm	P mm	L mm	M mm	R mm	P mm
KT230D-2	48	90	32	180	140	29	52	84	35	175	39	50	45	115
KT300D-2	48	90	38	210	140	29	52	84	35	175	43	58	50	125
KT400D-2	58	110	50	235	195	51	85	115	65	260	51	73	60	150
KT500D-2	75	140	55	280	195	51	85	115	65	260	51	73	60	150

Sheaves

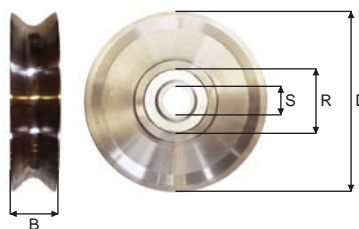
Ball bearing

Part no.	B mm	D mm	R mm	S mm	Weight kg
SKT230-2	57	230	80	35	12.80
SKT300-2	66	300	100	45	18.20



Roller bearing

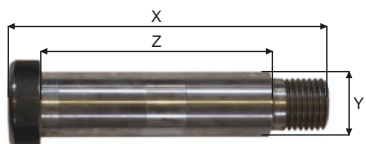
Part no.	B mm	D mm	R mm	S mm	Weight kg
SKT400-2	70	400	128	60	35.00
SKT500-2	76	515	140	65	42.50



Pins

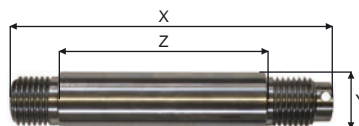
Ball bearing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT230D-2	188	35	140	1.60
PKT300D-2	205	45	162	2.00



Roller bearing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT400D-2	305	60	183	10.00
PKT500D-2	340	65	210	12.00



K

BMM Tackle blocks · Double

Galvanized

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	E mm	F mm	F ₁ mm	G mm	J mm	Max wire mm	Weight kg
KT230D-2	9.0	18.0	36.0	405	57	230	150	110	168	195	8	28	54.0
KT300D-2	11.0	22.0	44.0	480	66	300	155	100	175	260	10	28	86.0
KT400D-2	15.0	30.0	60.0	645	74	400	215	150	240	345	12	28	166.0
KT500D-2	20.0	40.0	80.0	770	82	515	250	160	285	445	15	30	251.0

2: Roller bearing

BMM-Blocks must be ordered with one of the following:

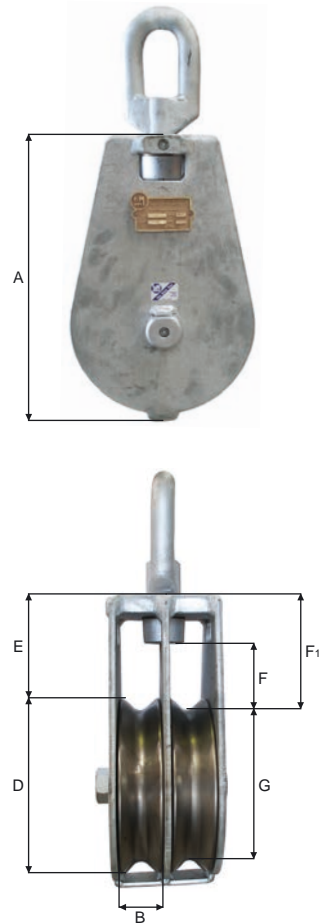
- E** Swivel eye.
- F** Swivel fork.
- S** Swivel shackle eye.

On order add letter, e.g. KT230D-2E

Against extra charge all are blocks available with:

- B** Becket.
- C** Tested with certificate.
- H** Flame hardend sheave.

On order add letter, e.g. KT230D-2EG



K

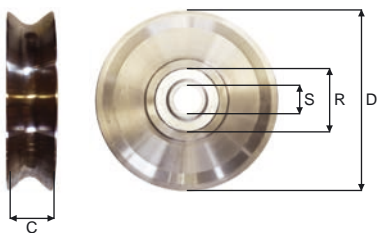
Top fittings

Part no.	Swivel eye				Swivel fork						Swivel shackle eye			
	M mm	N mm	O mm	P mm	K mm	L mm	M mm	N mm	R mm	P mm	L mm	M mm	R mm	P mm
KT230T-2	48	90	32	180	140	29	52	84	35	175	39	50	45	115
KT300T-2	48	105	38	210	140	29	52	84	35	175	43	58	50	125

Sheaves

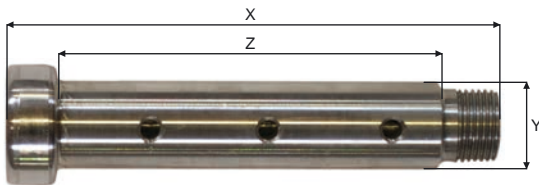
Ball bearing

Part no.	B mm	D mm	R mm	S mm	Weight kg
SKT230-2	57	230	80	35	12.80
SKT300-2	66	300	100	45	18.20



Pins

Part no.	X mm	Y mm	Z mm	Weight kg
PKT230T-2	256	35	208	2.30
PKT300T-2	385	45	242	2.90



K

BMM Tackle blocks · Triple

Galvanized

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	E mm	F mm	F ₁ mm	G mm	J mm	Max wire mm	Weight kg
KT230T-2	9.0	18.0	36.0	405	57	230	150	110	168	195	8	28	75.0
KT300T-2	11.0	22.0	44.0	480	66	300	155	100	175	260	10	28	122.0

For synthetic rope all blocks can be supplied with stainless sheave.

BMM-Blocks must be ordered with one of the following:

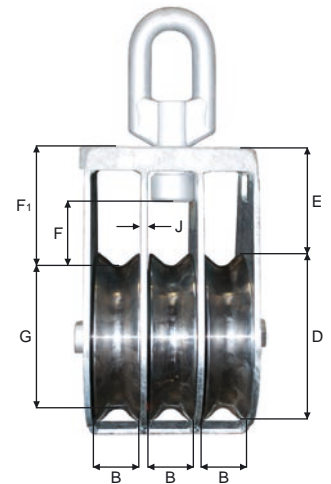
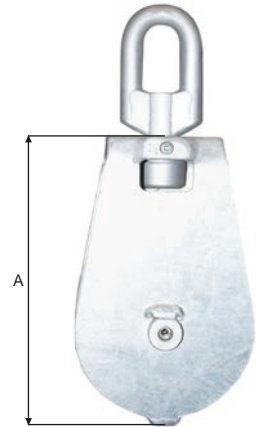
- E** Swivel eye.
- F** Swivel fork.
- S** Swivel shackle eye.

On order add letter, e.g. KT230T-2E

Against extra charge all blocks are available with:

- B** Becket.
- C** Tested with certificate.
- H** Flame hardend sheave.
- 2** Rollerbearing.

On order add letter, e.g. KT230T-2EG



K

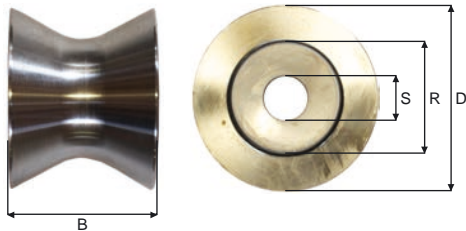
Top fittings

Part no.	Swivel eye				Swivel fork						Swivel shackle eye			
	M mm	N mm	O mm	P mm	K mm	L mm	M mm	N mm	R mm	P mm	L mm	M mm	R mm	P mm
KT110	33	82	24	134	104	23	40	65	30	134	26	35	35	93
KT150	40	95	28	153	104	23	40	65	30	134	29	42	40	100
KT215	45	86	32	181	140	29	52	84	35	175	36	50	45	115
KT150/180	40	95	28	153										

Sheaves

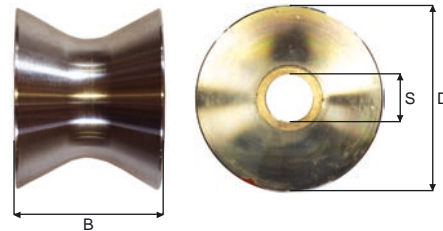
Ball bearing

Part no.	B mm	D mm	R mm	S mm	Weight kg
SKT110-1	85	110	62	25	3.60
SKT150-1	85	150	62	25	8.10
SKT215-1	100	215	80	35	18.30
SKT150/180-1	180	150	62	30	17.50



Bronze bushing

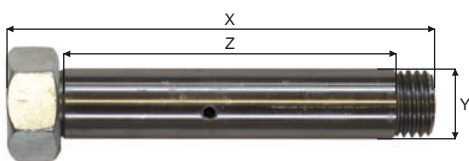
Part no.	B mm	D mm	S mm	Weight kg
SKT110-0	85	110	25	3.80
SKT150-0	85	150	25	8.20
SKT215-0	100	215	35	18.50



Pins

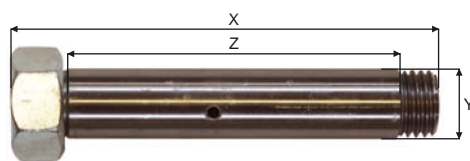
Ball bearing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT110-1	144	25	115	0.60
PKT150-1	154	25	122	0.70
PKT215-1	158	35	117	1.30
PKT150/180-1	250	30	217	1.55



Bronze bushing

Part no.	X mm	Y mm	Z mm	Weight kg
PKT110-0	144	25	115	0.60
PKT150-0	154	25	122	0.70
PKT215-0	158	35	117	1.30



BMM Tackle blocks

Galvanized

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	E mm	F mm	F ₁ mm	G mm	Max wire mm	Weight kg
KT110	3.0	6.0	12.0	270	85	110	150	85	128	70	28	9.0
KT150	5.0	10.0	20.0	320	85	150	155	85	130	110	28	17.0
KT215	8.0	16.0	32.0	415	100	215	215	100	145	170	28	36.0
KT150/180	5.0	10.0	20.0	515	180	150	150	90	140	110	30	32.0

BMM-Blocks must be ordered with one of the following:

- 1 Ball bearing, greaseable.
- 0 Bronze bushing, greaseable

And one of the following:

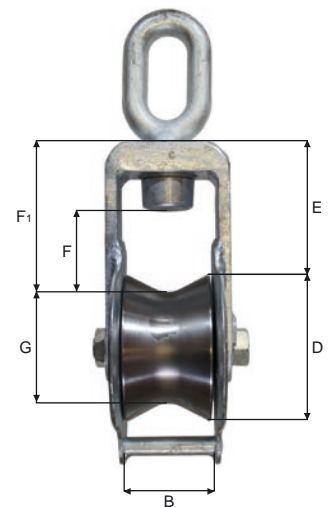
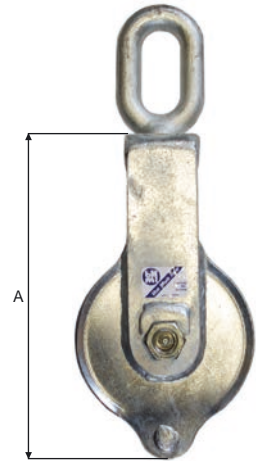
- E Swivel eye.
- F Swivel fork.
- S Swivel shackle eye.

On order add letter, e.g. KT110-1EG

Against extra charge all blocks are available with:

- C Tested with certificate.
- H Flame hardend sheave.

On order add letter, e.g. KT110-1EGC



K

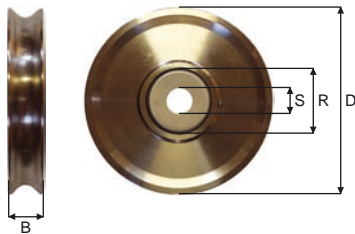
Top fittings

Part no.	Swivel eye				Swivel hook		
	M mm	N mm	O mm	P mm	O mm	P mm	Q mm
KS2	23	55	16	94	25	94	28
KS3	26	66	20	110	30	105	30
KS4	35	68	23	134	38	132	38
KS6	40	90	26	153	46	170	46

Sheaves

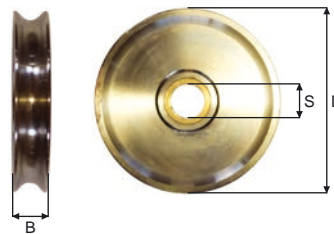
Ball bearing

Part no.	B	D	R	S	Weight
	mm	mm	mm	mm	kg
SKS2-1	24	110	52	20	1.25
SKS3-1	28	150	47	20	2.65
SKS4-1	35	185	62	30	5.10
SKS6-1	42	210	76	30	7.70



Bronze bushing

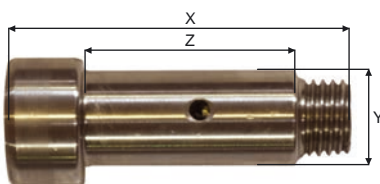
Part no.	B	D	S	Weight
	mm	mm	mm	kg
SKS2-0	24	110	25	1.30
SKS3-0	28	150	25	2.60
SKS4-0	35	185	30	5.20
SKS6-0	42	210	30	7.60



Pins

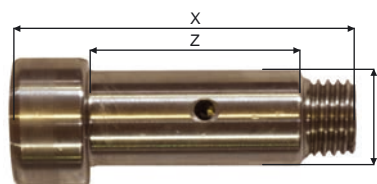
Ball bearing

Part no.	X	Y	Z	Weight
	mm	mm	mm	kg
PKS2-1	52	20	30	0.15
PKS3-1	67	20	41	0.20
PKS4-1	75	30	43	0.40
PKS6-1	85	30	51	0.45



Bronze bushing

Part no.	X	Y	Z	Weight
	mm	mm	mm	kg
PKS2-0	61	25	30	0.25
PKS3-0	67	25	35	0.30
PKS4-0	75	30	43	0.40
PKS6-0	85	30	51	0.45



BMM Snatch blocks

Galvanized

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	I mm	Max wire mm	Weight kg
KS2	2.0	4.0	8.0	225	24	110	23	18	3.7
KS3	3.0	6.0	12.0	300	28	150	30	18	7.5
KS4	4.0	8.0	16.0	330	35	185	33	22	13.5
KS6	6.0	12.0	24.0	378	41	210	35	24	19.4

All snatch blocks must be closed during operation.

BMM-Blocks must be ordered with one of the following:

- 1 Ball bearing, greaseable; KS1, KS2 sealed ball bearings; KS3, KS4, KS6 greaseable ball bearings.
- 0 Bronze bushing. All bronze bushings are greaseable.

And one of the following.

- E Swivel eye.
- K Swivel hook.

On order add letter, e.g. KS2-1EG

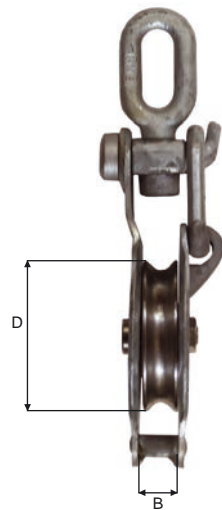
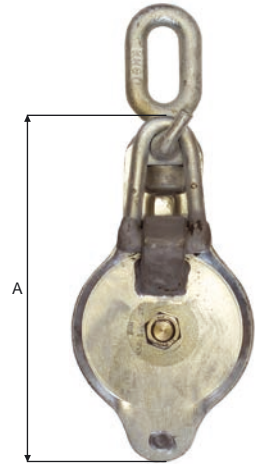
Against extra charge all blocks are available with:

- C Tested with certificate.
- P Split pin at locking device.
- H Flame hardend sheave.

On order add letter, e.g. KS2-1EGP



Split pin in locking device.



K

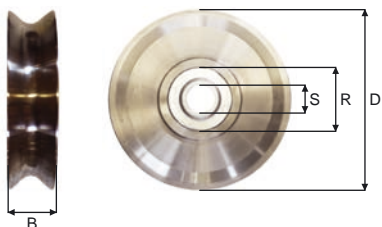
Top fittings

Part no.	Swivel eye				Swivel shackle eye			
	M mm	N mm	O mm	P mm	L mm	M mm	R mm	P mm
KS230-2	40	90	32	153	29	42	40	100
KS300-2	48	105	38	203	43	58	50	125
KS400-2	58	110	50	225	51	72	60	150
KS500-2	75	140	55	280	58	80	70	160

Sheaves

Roller bearing

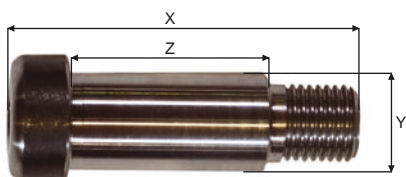
Part no.	B mm	D mm	R mm	S mm	Weight kg
SKS230-2	57	230	80	35	12.80
SKS300-2	66	300	100	45	18.20
SKS400-2	70	400	128	60	35.00
SKS500-2	70	515	140	65	42.50



Pins

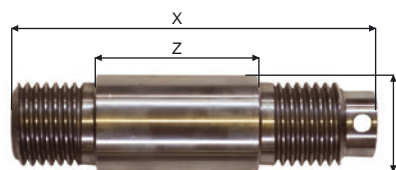
Ball bearing

Part no.	X mm	Y mm	Z mm	Weight kg
PKS230-2	118	35	78	1.10
PKS300-2	140	45	79	1.19



Bronze bushing

Part no.	X mm	Y mm	Z mm	Weight kg
PKS400-2	217	60	97	8.00
PKS500-2	242	65	112	9.50



BMM Snatch blocks

Roller bearing · Blue painted

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	E mm	F mm	F ₁ mm	G mm	I mm	J mm	Max wire mm	Weight kg
KS230-2	7.0	14.0	28.0	380	57	230	120	70	140	195	42	8	28	31.0
KS300-2	10.0	20.0	40.0	440	66	300	130	70	150	260	45	10	28	51.0
KS400-2	15.0	30.0	60.0	595	70	400	180	105	210	345	70	12	28	106.0
KS500-2	20.0	40.0	80.0	800	76	515	220	130	260	445	85	15	30	165.0

All snatch blocks must be closed during operation.

BMM-Blocks must be ordered with one of the following:

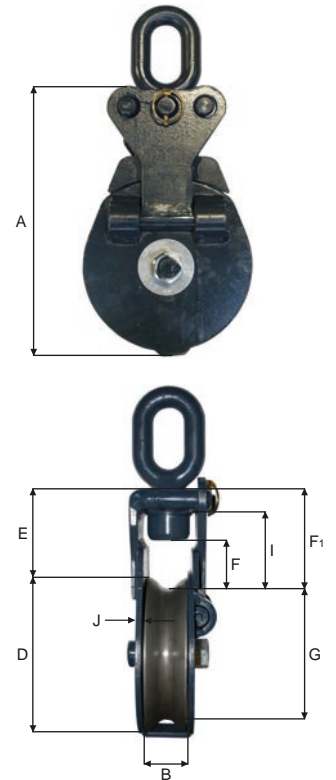
- E** Swivel eye.
- S** Swivel shackle eye.

On order add letter, e.g. KS230-2E

Against extra charge all blocks are available with:

- C** Tested with certificate.
- H** Flame hardend sheave.

On order add letter, e.g. KS230-2EH



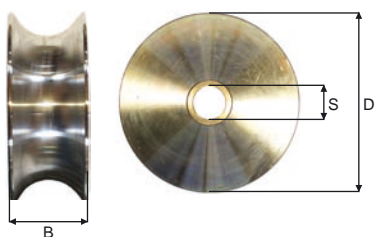
K

Top fittings

Part no.	Firm eye			Swivel eye			
	M mm	O mm	P mm	M mm	N mm	O mm	P mm
KS10	32	14	58	38	40	16	92
KS20	32	14	58	38	40	16	92
KS30	40	16	72	38	48	19	112

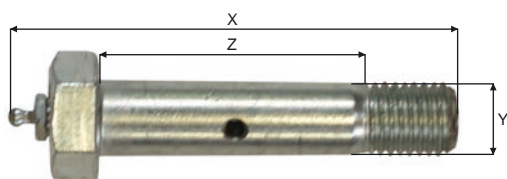
Sheaves

Part no.	B mm	D mm	S mm	Weight kg
SKS10	45	83	20	1.50
SKS20	45	83	20	1.50
SKS30	45	110	20	2.30



Pins

Part no.	X mm	Y mm	Z mm	Weight kg
PKS10	103	20	63	0.30
PKS20	103	20	63	0.30
PKS30	133	20	95	0.40



BMM Snatch blocks

Galvanized · Bronze bushing

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	I mm	Weight kg
KS10	1.0	2.0	4.0	220	45	83	30	4.7
KS20	1.5	3.0	6.0	220	45	83	30	5.4
KS30	2.2	4.4	8.8	270	45	110	30	8.5

All snatch blocks must be closed during operation.

BMM-Blocks must be ordered with one of the following:

E Swivel eye.

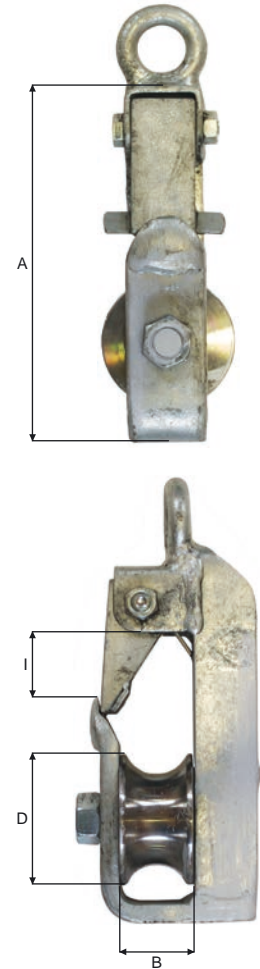
R Firm eye.

On order add letter, e.g. KS10EG

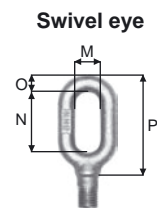
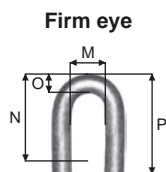
Against extra charge all blocks are available with:

C Tested with certificate.

On order add letter, e.g. KS10EGC



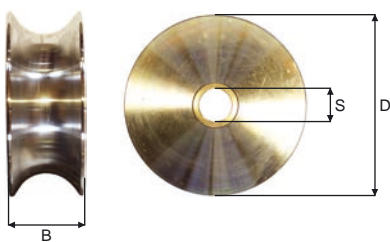
Top fittings



Part no.	M	N	O	P	M	N	O	P
	mm	mm	mm	mm				
KS40	38	54	19	102	33	82	24	134
KS50	48	65	22	115	40	95	24	153
KS60	53	70	25	132	40	95	26	153

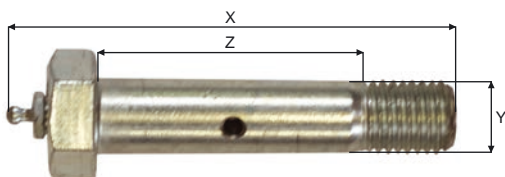
Sheaves

Part no.	B	D	S	Weight
	mm	mm	mm	kg
SKS40	45	110	20	2.30
SKS50	60	150	25	5.70
SKS60	60	215	35	11.30



Pins

Part no.	X	Y	Z	Weight
	mm	mm	mm	kg
PKS40	103	20	67	0.30
PKS50	126	25	78	0.65
PKS60	118	35	78	1.10



BMM Snatch blocks

Galvanized · Bronze bushing

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	E / EG mm	E / RG mm	I / EG mm	I / RG mm	Weight kg
KS40	3.5	7.0	14.0	250	45	100	45	75	38	50	7.5
KS50	4.6	9.2	18.4	325	60	150	90	90	38	65	15.2
KS60	6.0	12.0	24.0	375	60	215	80	70	38	60	24.0

All snatch blocks must be closed during operation.

BMM-Blocks must be ordered with one of the following:

E Swivel eye.

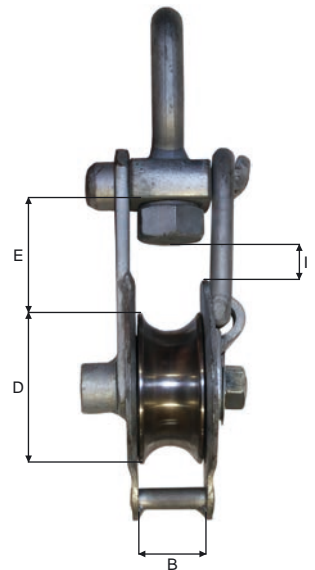
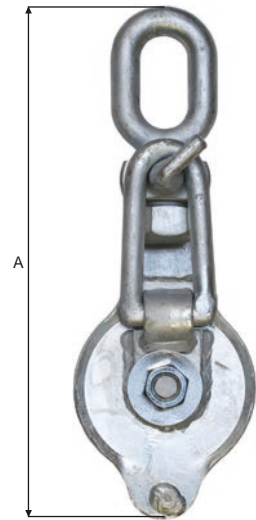
R Firm eye.

On order add letter, e.g. KS40EG

Against extra charge all blocks are available with:

C Tested with certificate.

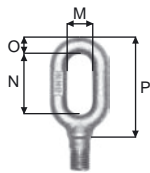
On order add letter, e.g. KS40EGC



K

Top fittings

Swivel eye

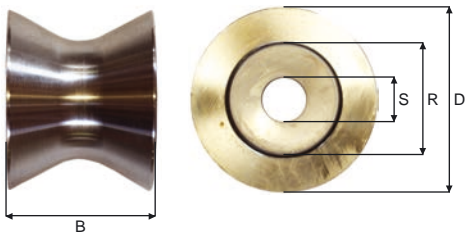


Part no.	M mm	N mm	O mm	P mm
KS110	33	82	24	134
KS150	40	95	28	153
KS215	45	86	32	181

Sheaves

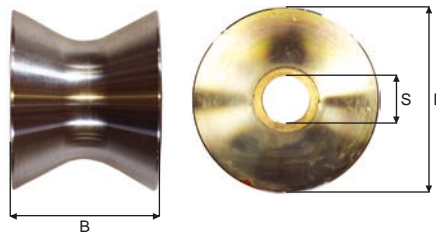
Ball bearing

Part no.	B mm	D mm	R mm	S mm	Weight kg
SKS110-1	85	110	62	25	3.60
SKS150-1	85	150	62	25	8.10
SKS215-1	100	215	80	35	18.30



Bronze bushing

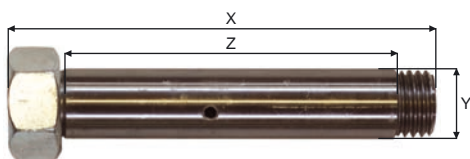
Part no.	B mm	D mm	S mm	Weight kg
SKS110-0	85	110	25	3.80
SKS150-0	85	150	25	8.20
SKS215-0	100	215	35	18.50



Pins

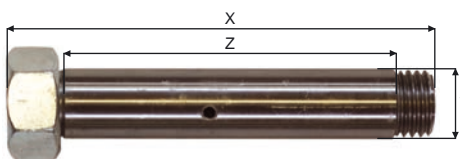
Ball bearing

Part no.	X mm	Y mm	Z mm	Weight kg
PKS110-1	144	25	115	0.60
PKS150-1	154	25	122	0.70
PKS215-1	158	35	117	1.30



Bronze bushing

Part no.	X mm	Y mm	Z mm	Weight kg
PKS110-0	144	25	115	0.60
PKS150-0	154	25	122	0.70
PKS215-0	158	35	117	1.30



K

BMM Snatch blocks

Galvanized

Part no.	WLL 5:1 ton	Max load on headfitting ton	Test load ton	A mm	B mm	D mm	E mm	F mm	G mm	I mm	Weight kg
KS110- * E	3.0	6.0	12.0	255	85	110	68	85	70	45	10.0
KS150- * E	5.0	10.0	20.0	330	85	150	75	85	110	55	19.2
KS215- * E	8.0	16.0	32.0	425	100	215	95	100	170	63	39.5

All snatch blocks must be closed during operation.

BMM-Blocks must be ordered with one of the following:

- 1 Ball bearing, greaseable.
- 0 Bronze bushing, greaseable.

On order replace * with letter, e.g. KS110-1EG

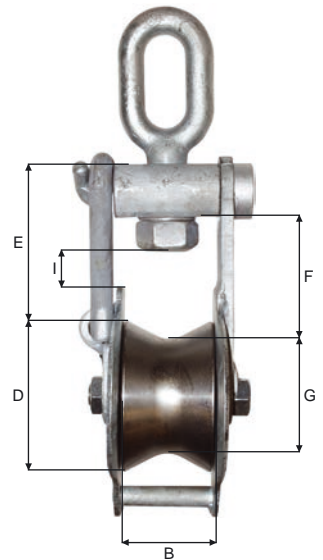
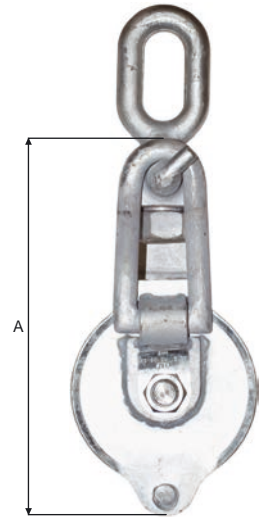
Against extra charge all blocks are available with:

- C Tested with certificate.
- P Split pin at locking device.

On order add letter, e.g. KS40EGC



Split pin in locking device.

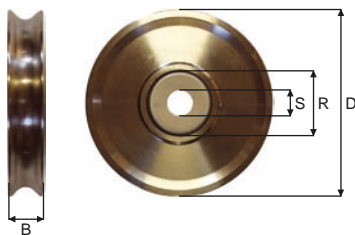


K

Sheaves

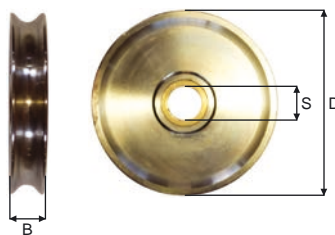
Ball bearing

Part no.	B	D	R	S	Weight
	mm	mm	mm	mm	kg
SKSW1-N	22	80		17	0.15
SKSW1-1	22	80	40	17	0.60
SKSW1-1SS	22	80	40	17	0.60
SKSW2-N	24	110		20	0.25
SKSW2-1	24	110	47	20	1.25
SKSW2-1SS	24	110	47	20	1.25
SKSW3-N	28	150		25	0.55
SKSW3-1	28	150	52	20	2.65



Bronze bushing

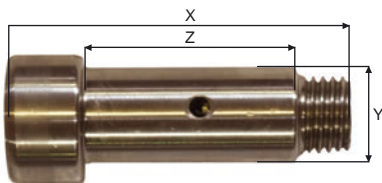
Part no.	B	D	S	Weight
	mm	mm	mm	kg
SKSW1-0	22	80	20	0.75
SKSW2-0	24	110	25	1.30
SKSW3-0	28	150	25	2.60



Pins

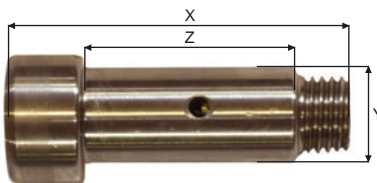
Ball bearing

Part no.	X	Y	Z	Weight
	mm	mm	mm	kg
PKSW1-N	50	17	28	0.10
PKSW1-1	50	17	28	0.10
PKSW1-1SS	50	20	28	0.10
PKSW2-N	52	20	30	0.15
PKSW2-1	52	20	30	0.15
PKSW2-1SS	52	20	30	0.15
PKSW3-N	67	20	41	0.20
PKSW3-1	67	20	41	0.20



Bronze bushing

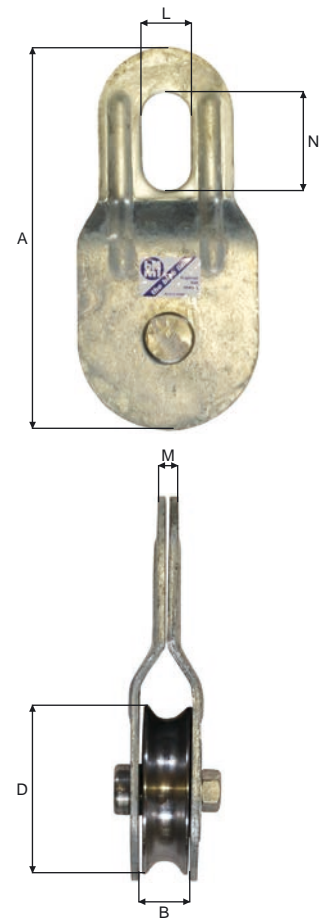
Part no.	X	Y	Z	Weight
	mm	mm	mm	kg
PKSW1-0	57	20	28	0.10
PKSW2-0	61	25	30	0.15
PKSW3-0	67	25	35	0.20



BMM Snatch blocks

Galvanized

Part no.	WLL 5:1	A	B	D	M	L	N	Max wire	Weight
		mm	ton	mm	mm	mm	mm		
KSW1-NG	1.0	190	22	80	13	23	48	16	1.0
KSW1-NG-30	1.0	190	30	80	13	23	48	24	1.2
KSW1-1G	1.0	190	22	80	13	23	48	16	1.5
KSW1-1G-30	1.0	190	30	80	13	23	48	24	1.8
KSW1-0G	1.0	190	22	80	13	23	48	16	1.5
KSW1-0G-30	1.0	190	30	80	13	23	48	24	1.8
KSW2-NG	2.0	255	24	110	15	28	56	18	1.9
KSW2-1G	2.0	255	24	110	15	28	56	18	2.9
KSW2-0G	2.0	255	24	110	15	28	56	18	3.0
KSW3-NG	3.0	350	28	150	16	40	60	20	4.0
KSW3-1G	3.0	350	28	150	16	40	60	20	6.3
KSW3-0G	3.0	350	28	150	16	40	60	20	6.4



BMM Snatch blocks

Stainless steel

Part no.	WLL 5:1	A	B	D	M	L	N	Max wire	Weight
		mm	ton	mm	mm	mm	mm		
KSW1-1SS	1.0	190	22	80	24	13	48	16	1.6
KSW2-1SS	2.0	255	24	110	28	15	56	20	2.9

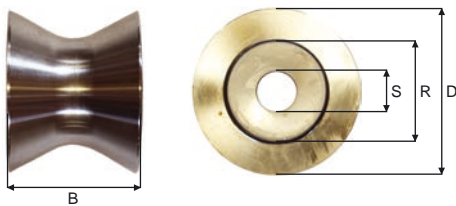
Top fittings

Part no.	Swivel eye				Swivel fork					Swivel shackle eye				
	M mm	N mm	O mm	P mm	K mm	L mm	M mm	N mm	R mm	P mm	L mm	M mm	R mm	P mm
K130	33	68	24	134	104	23	40	65	30	134	29	42	35	93
K170	40	81	26	153	104	23	40	65	30	134	33	46	42	100
K215	40	81	26	181	104	23	40	65	30	134	33	46	42	100
K230	48	95	32	192	140	29	52	84	35	175	39	50	45	115
K240	48	95	32	192	140	29	52	84	35	175	39	50	45	115
K300	48	105	38	203	140	29	52	84	35	175	43	58	50	125
K370	58	110	50	220	165	39	70	103	50	215	51	72	60	145
K400	58	110	50	225	165	51	85	115	65	260	51	72	60	145

Sheaves

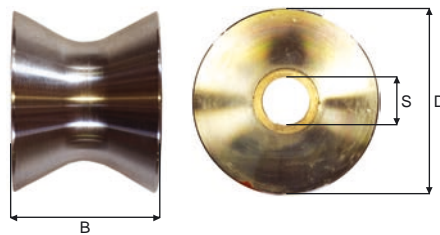
Ball bearing

Part no.	B mm	D mm	R mm	S mm	Weight kg
SK130-1	100	130	60	25	5.50
SK170-1	100	170	60	25	11.70
SK215-1	100	215	80	35	18.30
SK230-1	120	230	80	35	19.50
SK240-1	150	240	80	35	24.00
SK300-1	120	300	80	35	29.80
SK370-1	140	370	100	45	50.50
SK400-2	180	400	140	60	85.00



Bronze bushing

Part no.	B mm	D mm	R mm	S mm	Weight kg
SK130-0	100	130	37	25	5.70
SK170-0	100	170	37	25	12.00
SK215-0	100	215	56	35	18.50
SK230-0	120	230	56	38	20.10
SK240-0	150	240	56	38	24.00
SK300-0	120	300	56	38	30.70



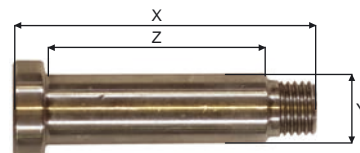
Pins

Ball bearing

Part no.	X mm	Y mm	Z mm	Weight kg
PK130-1	155	25	123	0.70
PK170-1	155	25	123	0.70
PK215-1	158	35	117	1.30
PK230-1	190	35	133	1.50
PK240-1	220	35	165	1.80
PK300-1	190	35	133	1.50
PK370-1	234	45	152	3.20
PK400-2	330	60	212	10.90

Bronze bushing

Part no.	X mm	Y mm	Z mm	Weight kg
PK130-0	155	25	123	0.60
PK170-0	155	25	123	0.70
PK215-0	158	35	117	1.30
PK230-0	190	38	133	1.60
PK240-0	220	35	165	1.80
PK300-0	190	38	133	1.60



BMM Trawl blocks

Galvanized

Part no.	WLL 5:1 mm	A mm	B mm	D mm	E mm	F mm	F ₁ mm	G mm	J mm	Weight kg
K130	4.0	240	100	130	110	85	133	85	10	16.0
K170	6.0	305	100	170	140	100	163	125	10	25.0
K215	6.0	355	100	215	132	110	165	164	10	36.5
K230	9.0	405	120	230	150	110	180	170	12	45.0
K240	9.0	420	150	240	190	140	220	170	12	54.0
K300	11.0	475	120	300	170	120	200	240	12	64.0
K370-2	13.0	580	140	370	240	140	285	285	12	110.0
K400-2	15.0	670	180	400	245	210	305	300	15	180.0

K400-2 are only available with roller bearing.

BMM-Blocks must be ordered with one of the following:

- 1 Ball bearing, greaseable.
- 0 Bronze bushing, greaseable.

And one of the following:

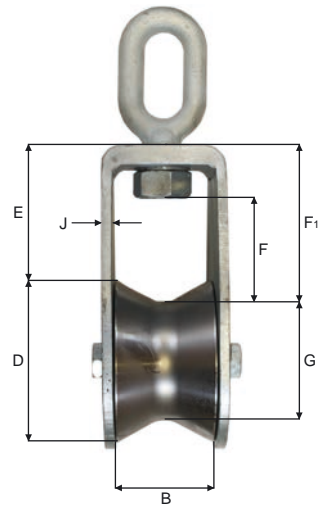
- E Swivel eye.
- S Swivel shackle eye.
- F Swivel fork.

On order add letter, e.g. K130-1E

Against extra charge all blocks are available with:

- C Tested with certificate.
- H Flame hardened sheave.

On order add letter, e.g. K130-EG



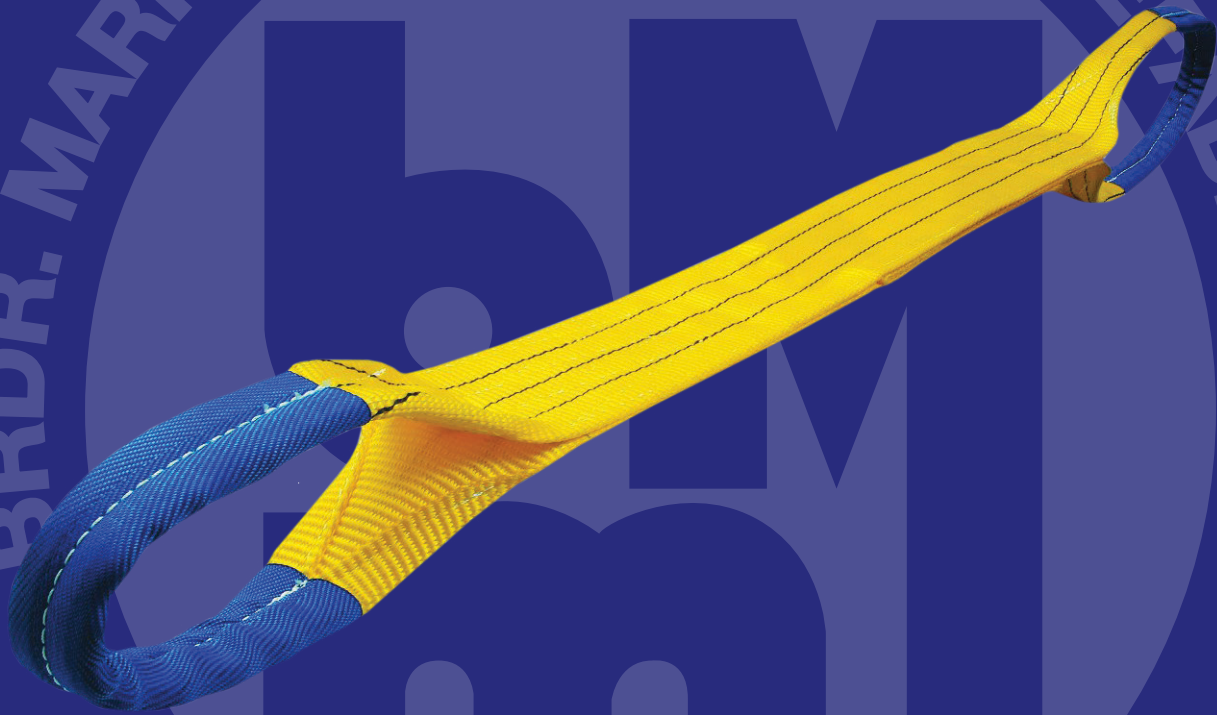
K

POLYESTER SLING & LOADBINDERS

- LASHING W/ RACHET
- LOADBINDERS

- WEBBING SLINGS

- ROUND SLINGS



BRDR. MARKUSSENS METALVAREFABRIK A/S

Roundslings

Single cover

Standard length (Circumference)	WLL 1 ton		WLL 2 ton		WLL 3 ton		WLL 5 ton	
	Part no.	Weight kg	Part no.	Weight kg	Part no.	Weight kg	Part no.	Weight kg
1 meter	LRS-0101	0.18	LRS-0201	0.20	LRS-0301	0.27	LRS-0501	0.60
2 meter	LRS-0102	0.48	LRS-0202	0.41	LRS-0302	0.58	LRS-0502	1.27
3 meter	LRS-0103	0.51	LRS-0203	0.61	LRS-0303	1.00	LRS-0503	1.80
4 meter	LRS-0104	0.55	LRS-0204	0.80	LRS-0304	1.30	LRS-0504	2.24
5 meter	LRS-0105	0.61	LRS-0205	1.10	LRS-0305	1.60	LRS-0505	3.00
6 meter	LRS-0106	0.70	LRS-0206	1.40	LRS-0306	1.90	LRS-0506	3.01
8 meter	LRS-0108	0.80	LRS-0208	2.10	LRS-0308	2.26	LRS-0508	4.00
10 meter	LRS-0110	1.25	LRS-0210	2.20	LRS-0310	1.03	LRS-0510	6.00
12 meter	LRS-0112	1.00	LRS-0212	2.60	LRS-0312	4.10	LRS-0512	6.00

Standard length (Circumference)	WLL 8 ton		WLL 10 ton		WLL 12 ton		WLL 15 ton	
	Part no.	Weight kg	Part no.	Weight kg	Part no.	Weight kg	Part no.	Weight kg
1 meter	LRS-0801	0.88	-	-	-	-	-	-
2 meter	LRS-0802	1.80	LRS-1002	2.92	-	-	-	-
3 meter	LRS-0803	2.90	LRS-1003	4.28	-	-	-	-
4 meter	LRS-0804	3.50	LRS-1004	5.84	-	-	-	-
5 meter	LRS-0805	4.40	LRS-1005	7.30	-	-	-	-
6 meter	LRS-0806	5.28	LRS-1006	8.27	LRS-1206	9.96	LRS-1506	12.20
8 meter	LRS-0808	6.86	LRS-1008	11.68	LRS-1208	13.28	LRS-1508	17.52
10 meter	LRS-0810	8.55	LRS-1010	14.60	LRS-1210	16.60	LRS-1510	18.30
12 meter	LRS-0812	10.24	LRS-1012	17.52	LRS-1212	20.30	LRS-1512	26.04

Made of polyester yarn with great resistance against acids and temperatures between -40 and +100 C.

Other sizes upon request.

Double cover upon request.

There can be a minimum order quantity on special orders.



L

Webbing straps · Duplex

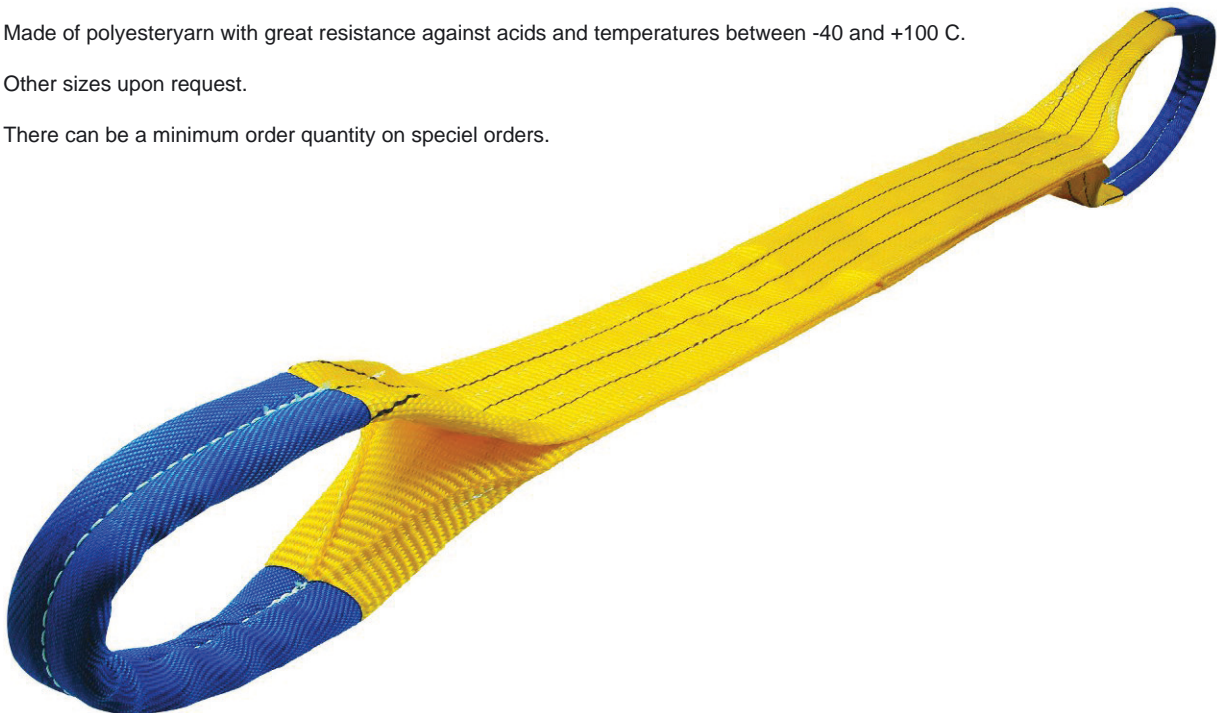
Standard length	WLL 1 ton		WLL 2 ton		WLL 3 ton		WLL 5 ton	
	Part no.	Weight kg	Part no.	Weight kg	Part no.	Weight kg	Part no.	Weight kg
1 meter	LBS-0101	0.41	LBS-0201	0.46	LBS-0301	0.60		
2 meter	LBS-0102	0.31	LBS-0202	0.82	LBS-0302	1.30	LBS-0402	2.28
3 meter	LBS-0103	0.93	LBS-0203	1.23	LBS-0303	1.80	LBS-0403	3.18
4 meter	LBS-0104	1.24	LBS-0204	1.38	LBS-0304	2.40	LBS-0404	4.24
5 meter	LBS-0105	1.55	LBS-0205	2.05	LBS-0305	3.00	LBS-0405	4.83
6 meter	LBS-0106	1.86	LBS-0206	2.46	LBS-0306	3.26	LBS-0406	6.36
8 meter	LBS-0108	1.66	LBS-0208	3.21	LBS-0308	1.00	LBS-0508	8.48
10 meter	LBS-0110	3.10	LBS-0210	4.10	LBS-0310	6.00	LBS-0510	10.06
12 meter	-	-	-	-	-	-	LBS-0512	12.72

Standard length	WLL 8 ton		WLL 10 ton	
	Part no.	Weight kg	Part no.	Weight kg
3 meter	LBS-0803	5.07	LBS-1003	6.69
4 meter	LBS-0804	6.76	LBS-1004	9.80
5 meter	LBS-0805	7.80	LBS-1005	11.15
6 meter	LBS-0806	9.60	LBS-1006	12.88
8 meter	LBS-0808	13.75	LBS-1008	17.80
10 meter	LBS-0810	15.00	LBS-1010	22.10
12 meter	LBS-0812	16.30	LBS-1012	26.76

Made of polyesteryarn with great resistance against acids and temperatures between -40 and +100 C.

Other sizes upon request.

There can be a minimum order quantity on special orders.



Roundslings

		Working load limits in ton roundslings								
Colour of roundsling cover	Marked WLL on the roundsling in straight lift	Straight lift	Choked lift	Basket hitch		Two leg sling		Three and four leg slings		
		M1	M = 0.8	Parallel M = 2	$\beta = 0$ to 45° M = 1.4	$\beta = 45$ to 60° M = 1	$\beta = 0$ to 45° M = 1.4	$\beta = 45$ to 60° M = 1	$\beta = 0$ to 45° M = 2.1	$\beta = 45$ to 60° M = 1.5
Violet	1	1.0	0.8	2.0	1.4	1.0	1.4	1.0	2.1	1.5
Green	2	2.0	1.6	4.0	2.8	2.0	2.8	2.0	4.2	3.0
Yellow	3	3.0	2.4	6.0	4.2	3.0	4.2	3.0	6.3	4.5
Grey	4	4.0	3.2	8.0	5.6	4.0	5.6	4.0	8.4	6.0
Red	5	5.0	4.0	10.0	7.0	5.0	7.0	5.0	10.5	7.5
Brown	6	6.0	4.8	12.0	8.4	6.0	8.4	6.0	12.6	9.0
Blue	8	8.0	6.4	16.0	11.2	8.0	11.2	8.0	16.8	12.0
Orange	10	10.0	8.0	20.0	14.0	10.0	14.0	10.0	21.0	15.0
Orange	Over 10	-	-	-	-	-	-	-	-	-

M = Mode factor for symmetrical loading. Handling tolerance for slings or parts of slings indicated as vertical = 6°

According to DS/EN 1492-2 + A1

Webbing slings

		Working load limits in ton Webbing slings								
Colour of Webbing slings cover	Marked WLL on the Webbing slings in straight lift	Straight lift	Choked lift	Basket hitch		Two leg sling		Three and four leg slings		
		M1	M = 0.8	Parallel M = 2	$\beta = 0$ to 45° M = 1.4	$\beta = 45$ to 60° M = 1	$\beta = 0$ to 45° M = 1.4	$\beta = 45$ to 60° M = 1	$\beta = 0$ to 45° M = 2.1	$\beta = 45$ to 60° M = 1.5
Violet	1	1.0	0.8	2.0	1.4	1.0	1.4	1.0	2.1	1.5
Green	2	2.0	1.6	4.0	2.8	2.0	2.8	2.0	4.2	3.0
Yellow	3	3.0	2.4	6.0	4.2	3.0	4.2	3.0	6.3	4.5
Grey	4	4.0	3.2	8.0	5.6	4.0	5.6	4.0	8.4	6.0
Red	5	5.0	4.0	10.0	7.0	5.0	7.0	5.0	10.5	7.5
Brown	6	6.0	4.8	12.0	8.4	6.0	8.4	6.0	12.6	9.0
Blue	8	8.0	6.4	16.0	11.2	8.0	11.2	8.0	16.8	12.0
Orange	10	10.0	8.0	20.0	14.0	10.0	14.0	10.0	21.0	15.0
Orange	Over 10	-	-	-	-	-	-	-	-	-

M = Mode factor for symmetrical loading. Handling tolerance for slings or parts of slings indicated as vertical = 6°

According to DS/EN 1492-1 + A1

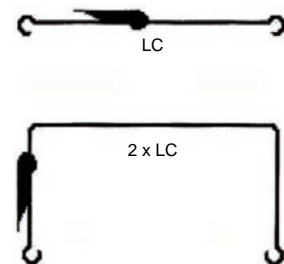
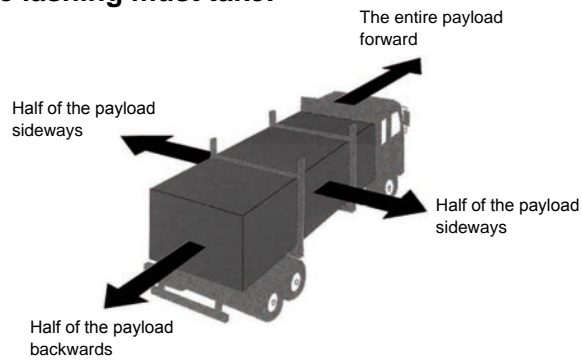
Lashing belts

Two-parted · European standard · Complete lashing

Part no.	Description	Colour	Width	Breaking strength ton	EN 12195-2 LC daN	EN 12195-2 STF daN
LTS-05100-BLUE	0.4-9.5 m with wire hook	Blue	50	5	2000	340
LTS-05100-ORANGE	0.5-9.5 m with wire hook	Orange	50	5	2000	340
LTS-01050	0.4-4.6 m with wire hook	Black	25	0.8	400	75



The lashing must take:



Gunnebo lifting lashings with a breaking load of 500 kg. and above are clearly marked with labels.

The dimensioning of a lashing arrangement must be based on local regulations.

Technical Explanations for:
LC = Lashing capacity:
Safety factor:

Elongation:
Marked:

Standard EN 12195-2
Maximum force for use in straight pull that a web lashing is designed to sustain in use.
2:1 complete system and metal parts.
3:1 non-sewn polyester webbing.
Maximum 7% when polyester webbing subjected to the LC.
Traceability code similar to lifting products. A protected label ensures traceability at all circumstances.

Lashing belts

Part no.	Description	Colour	Length mtr	Width mm	Breaking strength kg
LES-004-KIT	Cam buckle kit with 30 lashing belts	10 x Red	1.5	25	400
		10 x Yellow	3.0	25	400
		10 x Green	4.0	25	400
LES-003-060	Cam buckle	Blue	6.0	25	400

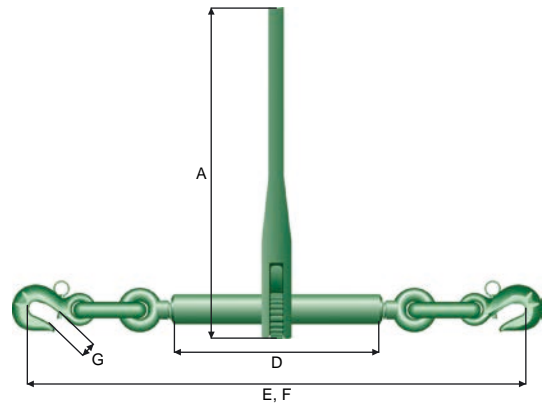


Ratchet type loadbinders

with hooks

Part no.	Chain size mm	A mm	D mm	E Open mm	F Closed mm	G mm	Take-up mm	Lashing capacity ton	Proof load ton	Minimum breaking load ton	Weight kg
HRLB8-13	8	387	255	754	590	11	164	4.0	5.0	8.0	4.5
HRLB10-13	10	387	255	775	610	12	165	6.3	7.9	12.6	5.4
HRLB13-16	13	387	260	870	700	15	170	10.0	12.5	21.2	7.7

Material: Drop forged, Grade 8, quenched and tempered.
 Safety factor: MBL equals 2 x Lashing capacity.
 Finish: Painted red or green
 Certification: Test certificates can be supplied upon request.

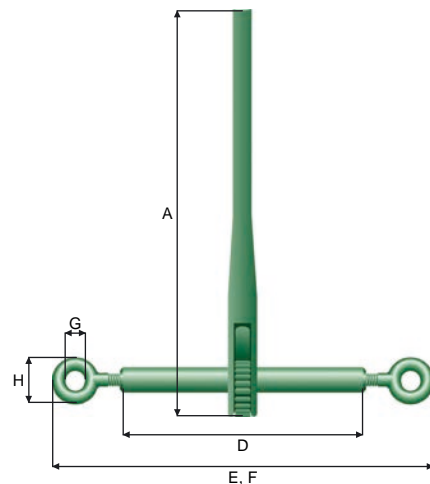


Ratchet type loadbinders

without hooks

Part no.	Chain size mm	A mm	D mm	E Open mm	F Closed mm	G mm	H mm	Take-up mm	Lashing capacity ton	Proof load ton	Minimum breaking load ton	Weight kg
HRLB8	8	387	255	538	374	18	50	164	4.0	5.0	8.0	3.3
HRLB10	10	387	255	546	381	20	55	165	6.3	7.9	12.6	4.3
HRLB16	13 - 16	387	260	589	419	25	66	170	10.0	12.5	21.2	4.0

Material: Drop forged, Grade 8, quenched and tempered.
 Safety factor: MBL equals 2 x Lashing capacity.
 Finish: Painted red or green
 Certification: Test certificates can be supplied upon request.



TERMINALS & FERRULES

- TERMINALS
- ALU-FERRULES
- SWAGGING MACHINE

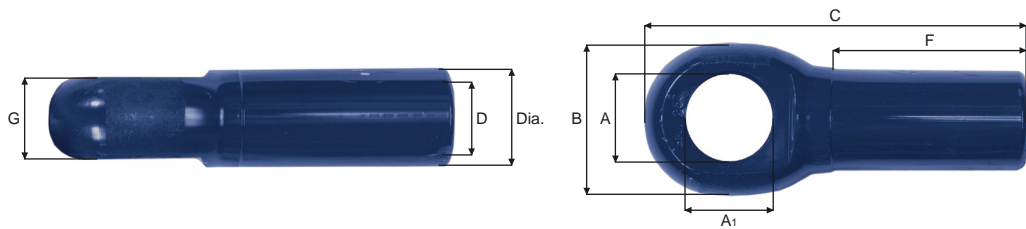
- DIES FOR TERMINALS
- STEEL-FERRULES
- HAND TOLLS

- DIES FOR FERRULES
- COPPER-FERRULES



Terminals for connectors

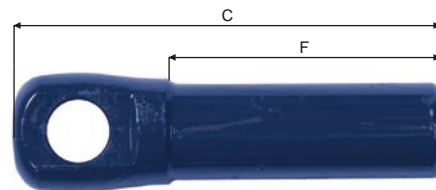
Part no.	A	A ₁	B	C	D	F	G	Dia.	For connector no	Dia. after pressing	Weight	Swaging dies	Required pressure
	mm	mm	mm	mm	mm	mm	mm	mm		mm	kg		ton
NE14C	26.5	26.5	48	106	14.5	58	26	32	13	28	0.6	DIE-NE-28	250
NE16C	26.5	26.5	48	106	16.5	60	26	32	13	28	0.6	DIE-NE-28	250
NE18C	29.0	34.0	60	133	18.5	69	34	41	16/19	36	1.2	DIE-NE-36	300
NE20C	29.0	34.0	60	141	20.5	78	34	41	16/19	36	1.2	DIE-NE-36	300
NE22C	34.0	39.0	72	161	22.5	84	39	41	19/22	36	1.6	DIE-NE-36	300
NE24C	34.0	39.0	72	169	24.5	91	39	41	19/22	36	1.6	DIE-NE-36	300
NE26C	38.0	41.0	78	185	27.0	100	41	51	22	44	2.5	DIE-NE-44	600
NE28C	38.0	48.5	78	193	29.0	107	41	51	22/26	44	2.5	DIE-NE-44	600
NE30C	38.0	48.5	78	201	31.0	116	41	51	22/26	44	2.5	DIE-NE-44	600
NE32C	38.0	48.5	78	211	33.0	125	41	51	22/26	44	2.5	DIE-NE-44	600
NE34C	40.0	49.0	90	240	35.0	131	44	56	26	48	3.4	DIE-NE-48	600
NE36C	40.0	49.0	90	250	37.0	140	44	56	26	48	3.3	DIE-NE-48	600



Terminals

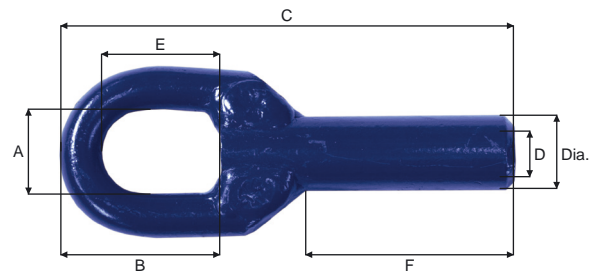
Flex

Part no.	A	B	C	D	E	F	Dia.	Dia. after pressing	Weight	Size	Swaging die	Required pressure
	mm	mm	mm	mm	mm	mm	mm	mm	kg			ton
NE14F	42	75	123	14.5	50	70	32.0	28	1.2	14	DIE-NE-28	250
NE16F	42	75	133	16.5	50	80	32.0	28	1.2	16	DIE-NE-28	250
NE18F	42	75	143	18.5	50	90	32.0	28	1.2	18	DIE-NE-28	250
NE20F	56	100	175	20.5	57	100	42.5	36	3.1	20	DIE-NE-36	300
NE22F	56	100	185	22.5	57	110	42.5	36	3.1	22	DIE-NE-36	300
NE24F	56	100	195	24.5	57	120	42.5	36	3.1	24	DIE-NE-36	300



Closed end terminals

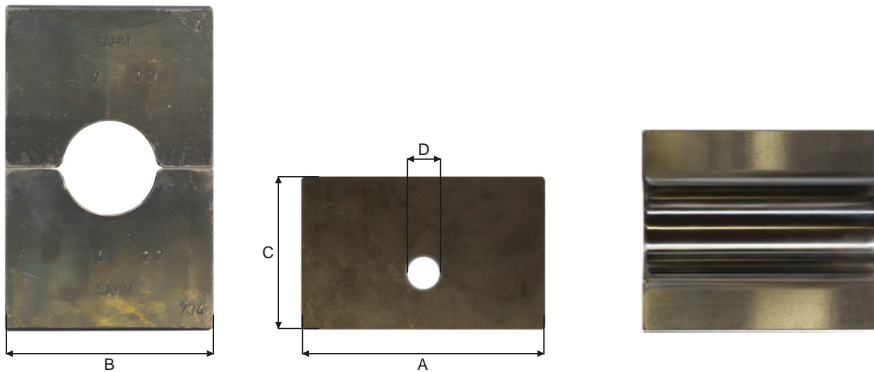
Part no.	Size	A	B	C	D	E	F	Dia.	Dia. after pressing	Weight	Swaging die	Required pressure
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg		ton
NE10	10	20	53	130	10.5	41	68	25.7	22	0.4	DIE-NE-22	150
NE12	12	20	53	130	12.5	41	68	25.7	22	0.4	DIE-NE-22	150
NE14	14	36	70	200	14.5	50	96	32.0	28	1.20	DIE-NE-28	250
NE16	16	36	70	200	16.5	50	96	32.0	28	1.15	DIE-NE-28	250
NE18	18	36	70	200	18.5	50	96	32.0	28	1.10	DIE-NE-28	250
NE20	20	43	87	230	20.5	56	130	40.5	36	2.05	DIE-NE-36	300
NE22	22	43	87	230	22.5	56	130	40.5	36	1.95	DIE-NE-36	300



Swaging dies for end terminals

Part no.	A mm	B mm	C mm	D mm	Weight kg	For terminal
DIE-NE-22	68	80	78	15	6.5	NE10/12
DIE-NE-28	85	80	78	15	8.0	NE14/16/18 + NE14/16C
DIE-NE-36	105	100	78	15	12.0	NE20/22/24 + NE18/20/22/24C
DIE-NE-44	119	100	78	15	13.5	NE26/28/30 + NE26/28/30/32C
DIE-NE-48	126	156	110	18	31.4	NE34/36C

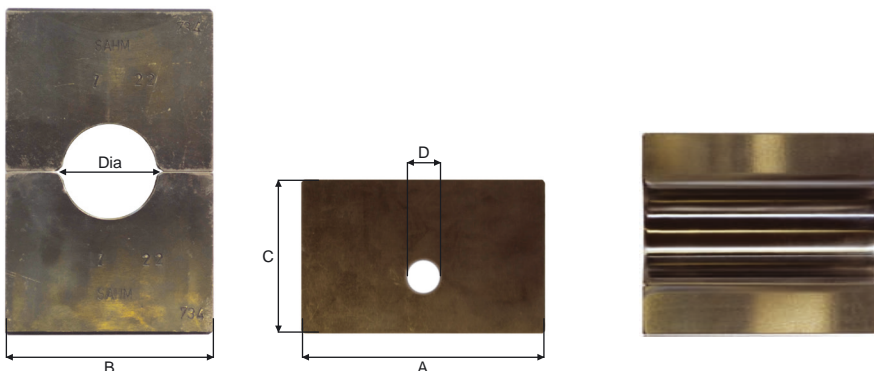
Above swaging dies are cylindrical without cuttingedges.



Swaging dies for steel ferrules

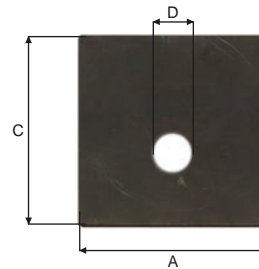
Part no.	A mm	B mm	C mm	D mm	Weight kg
DIE-ST28	85	80	78	15	7.58
DIE-ST32	95	80	78	15	8.47
DIE-ST34	100	100	78	15	11.11
DIE-ST38	100	100	78	15	11.11
DIE-ST42	116	100	78	15	12.89
DIE-ST44/26	119	100	78	15	13.23
DIE-ST44/28	123	100	78	15	14.34
DIE-ST48	126	156	110	18	31.90
DIE-ST52	136	156	110	18	34.43
DIE-ST56	149	156	110	18	37.72
DIE-ST60	159	156	110	18	40.25

Above swaging dies are cylindrical without cuttingedges.



Swaging dies for alu-ferrules

Part no.	A mm	B mm	C mm	D mm	Weight kg
DIE-Z08/S09	46	80	78	15	4.10
DIE-Z09/S10	52	80	78	15	4.64
DIE-Z10/S11	60	80	78	15	5.35
DIE-Z11/S12	68	80	78	15	6.07
DIE-Z12/S13	72	80	78	15	6.42
DIE-Z13/S14	75	80	78	15	6.69
DIE-Z14/S16	85	80	78	15	7.58
DIE-Z16/S18	95	80	78	15	8.47
DIE-Z18/S20	105	100	78	15	11.67
DIE-Z20/S22	113	100	78	15	12.56
DIE-Z22/S24	119	100	78	15	13.23
DIE-Z24/S26	126	100	78	15	14.00
DIE-Z26/S28	136	156	110	18	34.43
DIE-Z28/S30	149	156	110	18	37.72
DIE-Z30/S32	159	156	110	18	40.25



Swaging machines

Part no.	Capacity ton	Columns	Max wire rope mm	Weight kg
SAHM-150-1	150	1	22	620
SAHM-300-1	300	1	26	2160
SAHM-600-1	600	1	40	4310
SAHM-1200-2	1200	2	54	7532



SAHM-150-1



SAHM-300-1



SAHM-600-1



SAHM-1200-2

N

Hand Press Tools

Part no.	For dies size	Length	Weight
	mm		
SAHM-HP-2	1.0 / 1.5 / 2.0 2.5 / 3.0 / 3.5	630	2.8

Part no.	For dies size	Length	Weight
	mm		
SAHM-HP-3	3.0 / 3.5 / 4.0 / 4.5	1050	8



Steel-ferrules



Part no.	Size = dia.	Ferrule length	Weight
	mm		
TSTD08	08	28	4.20
TSTD10	10	35	7.80
TSTD12	12	42	13.00
TSTD13	13	46	17.00
TSTD14	14	49	22.50
TSTD16	16	56	32.00
TSTD18	18	63	46.00

Steel-ferrules



Part no.	Size = dia.	Ferrule length	Weight
	mm		
TST28	16/17	52	18.45
TST32	18/19	58	23.85
TST34	20/21	63	29.70
TST38	22/23	68	35.55
TST42	24/25	75	53.55
TST44	26/27/28	82	67.50
TST48	29/30	96	85.50
TST52	31/32	100	103.50
TST56	33/34	107	114.75
TST60	35/36	113	146.25
TST68	39/40	127	191.25

Copper ferrules

Part no.	Size = dia.	Ferrule length	Weight
	mm	mm	kg/100
TK03	3.0	11	0.3
TK035	3.5	13	0.5
TK040	4.0	14	0.7
TK045	4.5	16	1.0
TK05	5.0	18	1.4
TK06	6.0	21	2.1
TK065	6.5	23	2.6
TK07	7.0	25	3.0
TK08	8.0	28	4.0
TK09	9.0	32	4.7
TK10	10.0	35	7.0
TK11	11.0	39	11.0
TK12	12.0	42	13.0
TK13	13.0	46	15.0
TK14	14.0	49	24.3
TK16	16.0	56	26.0
TK18	18.0	63	52.0
TK20	20.0	70	63.0
TK22	22.0	78	75.0



Alu-ferrules 'Z'



Part no.	Size = dia.	Ferrule length	Weight
	mm	mm	kg/100
TZ03	3.0	11	0.09
TZ035	3.5	13	0.15
TZ04	4.0	14	0.19
TZ045	4.5	16	0.26
TZ06	6.0	21	0.60
TZ08	8.0	28	1.40
TZ09	9.0	32	2.00
TZ10	10.0	35	2.70
TZ12	12.0	42	4.60
TZ14	14.0	49	7.40
TZ16	16.0	56	11.10
TZ18	18.0	63	15.90
TZ20	20.0	70	21.70
TZ22	22.0	77	29.10
TZ24	24.0	84	37.50
TZ26	26.0	91	47.90
TZ28	28.0	98	60.00
TZ30	30.0	105	73.40
TZ32	32.0	112	89.40
TZ34	34.0	119	108.00
TZ36	36.0	126	127.00
TZ38	38.0	133	149.00
TZ40	40.0	140	173.00
TZ42	42.0	147	202.00
TZ44	44.0	154	236.00
TZ46	46.0	161	266.00
TZ48	48.0	168	293.00
TZ50	50.0	175	340.00
TZ52	52.0	182	380.00
TZ54	54.0	189	412.00
TZ56	56.0	196	470.00
TZ58	58.0	203	520.00
TZ60	60.0	210	575.00

Alu-ferrules '8'

Part no.	Size = dia.	Ferrule length	Weight
	mm	mm	kg/100
TSU10	10	30	1.8
TSU11	11	35	2.7
TSU12	12	39	3.6
TSU13	13	44	4.8
TSU14	14	46	6.2
TSU16	16	53	8.3
TSU18	18	60	11.6
TSU20	20	67	17.3
TSU22	22	70	24.0
TSU24	24	80	30.4
TSU26	26	87	39.0
TSU28	28	95	50.0
TSU30	30	101	62.0



Alu-ferrules 'R'

Part no.	Size = dia.	Ferrule length	Outside dia	Weight
	mm	mm	mm	kg/100
TR10	10.0	35	24.4	3.8
TR11	11.0	39	27.0	5.0
TR12	12.0	42	29.9	6.0
TR14	14.0	49	34.8	10.6
TR16	16.0	56	42.0	15.5
TR18	18.0	63	46.0	22.2
TR20	20.0	70	50.0	31.0
TR22	22.0	77	54.0	38.2
TR24	24.0	84	58.0	48.0



Alu-ferrules 'S'



Part no.	Size = dia.	Ferrule length	Weight
	mm	mm	kg/100
TS08	8	24	1.1
TS10	10	30	1.8
TS12	12	39	3.6
TS14	14	44	6.2
TS16	16	47	8.3
TS18	18	52	11.6
TS20	20	64	17.3
TS22	22	73	24.0
TS24	24	80	30.4
TS26	26	88	39.0
TS28	28	95	50.0
TS30	30	102	62.0
TS32	32	109	76.4
TS34	34	115	88.5
TS36	36	122	105.0
TS38	38	130	126.0
TS40	40	137	147.0
TS44	44	150	193.0
TS46	46	157	222.0
TS48	48	164	250.0
TS52	52	178	324.0
TS54	54	185	354.0
TS56	56	192	417.0
TS58	58	199	452.0
TS60	60	206	493.0



TERMINALS & FERRULES

- TERMINALS
- ALU-FERRULES
- SWAGGING MACHINE

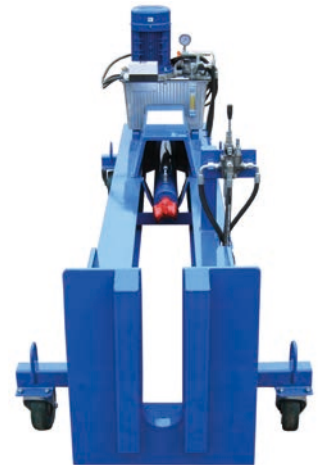
- DIES FOR TERMINALS
- STEEL-FERRULES
- HAND TOLLS

- DIES FOR FERRULES
- COPPER-FERRULES



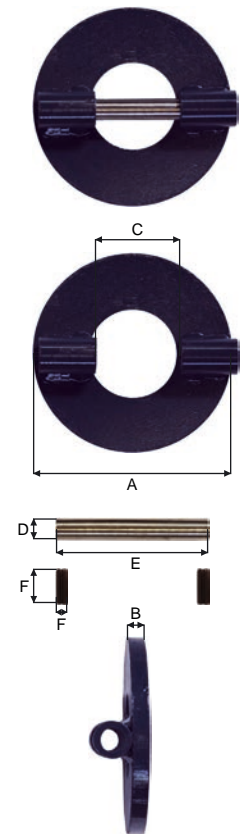
Rockhopper machine

Part no.	Total length	Stroke length	Width	Weight	Pulling force
	mtr	mtr	mtr	kg	ton
MRH-200	2.70	1.00	0.80	450	8.20

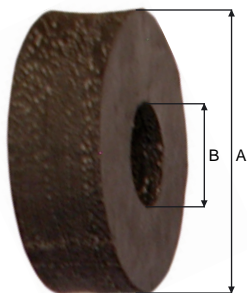


Rockhopper stopwashers

Part no.	A	B	C	D	E	F	Weight	F/chain
	mm	mm	mm	mm	mm	mm	kg	dia. = mm
MT10	106	10	40	10	83	6x20	0.76	10
MT13	114	10	52	14	88	6x25	1.10	13
MT16	150	12	62	15	117	6x26	1.65	16
MT19/22	200	13	80	20	137	10x32	4.10	22



Rubber discs



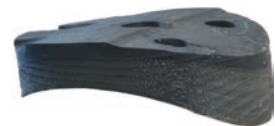
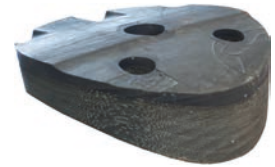
Part no.	A mm	B mm
RG035/12	35	12
RG040/12	40	12
RG040/14	40	14
RG045/12	45	12
RG045/14	45	14
RG045/16	45	16
RG045/18	45	18
RG045/20	45	20
RG045/22	45	22
RG050/12	50	12
RG050/14	50	14
RG050/16	50	16
RG050/18	50	18
RG050/20	50	20
RG050/22	50	22
RG060/18	60	18
RG060/20	60	20
RG060/22	60	22
RG060/25	60	25
RG070/20	70	20
RG070/30	70	30
RG075/14	75	14
RG075/20	75	20
RG075/22	75	22
RG075/25	75	25
RG075/30	75	30

Part no.	A mm	B mm
RG080/40	80	40
RG080/50	80	50
RG100/20	100	20
RG100/30	100	30
RG100/50	100	50
RG120/50	120	50
RG120/60	120	60
RG125/19	125	19
RG125/22	125	22
RG125/25	125	25
RG130/30	130	30
RG150/50	150	50
RG150/75	150	75
RG160/70	160	70
RG175/18	175	18
RG175/22	175	22
RG175/75	175	75
RG200/19	200	19
RG200/22	200	22
RG200/40	200	40
RG200/75	200	75
RG200/80	200	80

Rubber discs are sold on pallets of approx. 1000 kgs.

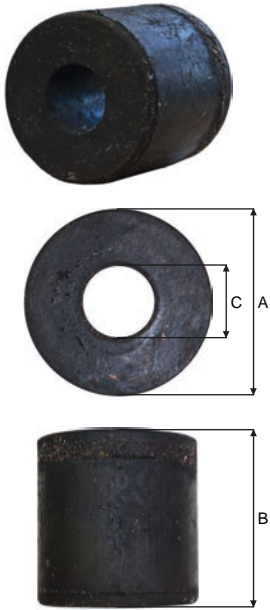
Rockhoppers

Part no.	Size		A mm	B mm	Weight kg/pcs
	inch	mm			
RRR1055-45/45	10	250	55	45	2.5 - 3.5
RRR1220-20/20	12	300	70	20	5.0 - 6.0
RRR1250-40/40	12	300	50	40	4.5 - 5.5
RRR1265-50/50	12	300	65	50	4.0 - 5.0
RRR1400-00/00	14	350	0	0	7.0 - 8.0
RRR1450-40/40	14	350	50	40	6.0 - 7.5
RRR1465-50/50	14	350	65	50	5.50 - 7.0
RRR1600-00/00	16	400	0	0	9.0 - 10.0
RRR1665-50/50	16	400	65	50	8.0 - 10.0
RRR1680-75/75	16	400	80	75	8.0 - 10.0
RRR1800-00/00	18	450	0	0	13.5 - 15.5
RRR1865-50/50	18	450	65	50	11.5 - 13.5
RRR1880-75/75	18	450	80	75	11.5 - 13.5
RRR2180/15-18	21	530	80	75	15 - 18
RRR2180-18-20	21	530	80	75	18 - 20
RRR2180/20-23	21	530	80	75	20 - 23
RRR2180/23-26	21	530	80	75	23 - 26
RRR2180/25-30	21	530	80	75	26 - 30
RRR2180/30-35	21	530	80	75	30 - 35
RRR2180/35-40	21	530	80	75	35 - 40
RRR2480/25-30	24	600	80	75	25 - 30
RRR2480/30-35	24	600	80	75	30 - 35
RRR2480/35-40	24	600	80	75	35 - 40
RRR2480/40-50	24	600	80	75	40 - 50



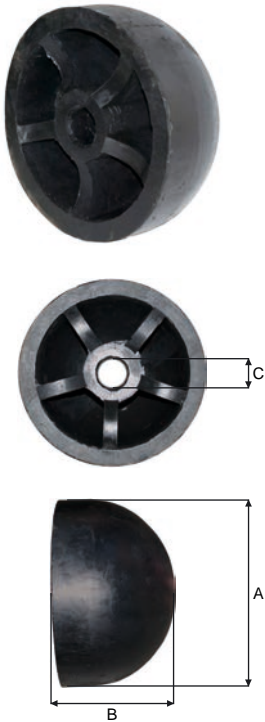
All rockhoppers are sold on pallets of approx. 1000 kgs.

Rubberspacers



Part no.	Size inch	A mm	B mm	C mm	Weight kg	Pcs./pallet
RSB100-121-064	3 7/8 x 4 3/4	100	121	64	1.45	600
RSB100-180-050	4 x 7	100	180	50	1.40	475
RSB120-195-064	4 3/4 x 7 3/4	120	195	64	2.10	400
RSB125-170-060	5 x 6 3/4	125	170	60	2.10	500
RSB172-089-076	6 3/4 x 3 1/2	172	89	76	2.00	470
RSB172-121-064	6 3/4 x 4 3/4	172	121	64	2.10	400
RSB172-178-076	6 3/4 x 7	172	178	76	4.00	235
RSB200-050-080	8 x 2	200	50	80	1.70	600
RSB200-100-080	8 x 4	200	100	80	3.40	300
RSB200-200-080	8 x 8	200	200	80	6.80	150

Rubber bunt bobbins

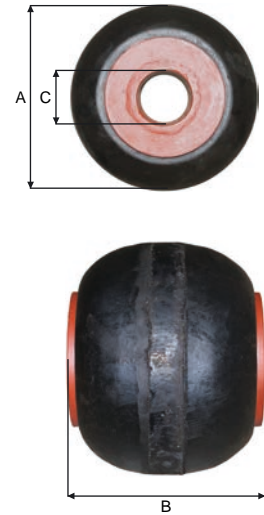


Part no.	A mm	B mm	C mm	Weight kg
HB230B	230	155	48	4.4
HB275B	275	180	50	4.5
HB300B	300	200	55	9.1
HB350B	350	220	55	11.8
HB400B	400	260	62	19.8
HB450B	450	300	62	30.0

Rubber bunt bobbins

With steeltube

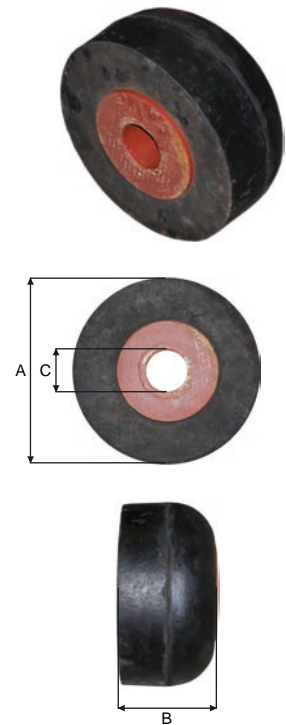
Part no.	Size	A mm	B mm	C mm	Weight kg
	inch				
RBB-12-75	12 x 10	300	250	75	18 - 22
RBB-14-75	14 x 12	360	300	75	27 - 29
RBB-16-75	16 x 14	410	360	75	40 - 45
RBB-18-75	18 x 16	460	410	75	67 - 72
RBB-21-75	21 x 18	530	460	75	95 - 100
RBB-24-80	24 x 21	610	530	80	145 - 150
RBB-28-80	28 x 24	700	600	80	225 - 235
RBB-32-90	32 x 26	810	660	90	350



Rubber half bobbins

With steeltube

Part no.	Size	A mm	B mm	C mm	Weight kg
	inch				
RHB-12-65	12 x 6	300	150	65	15 - 17
RHB-14-75	14 x 8	350	200	75	23 - 25
RHB-16-75	16 x 10	400	250	75	32 - 34
RHB-18-75	18 x 12	450	300	75	46 - 48
RHB-21-75	21 x 14	535	350	75	73 - 77
RHB-24-80	24 x 16	610	400	80	97 - 103



General Terms and Conditions of Sale and Delivery

Acceptance of a quotation submitted by us includes acceptance of the following terms and conditions, which are always an inseparable part of any contract or agreement, entered into by us. We deliver (equipment, products and certain services) only on the terms and conditions specified herein.

1. Application.

Unless otherwise agreed in writing by the parties, the terms and conditions of sale and delivery below shall apply to any quotation, order or supply.

2. Quotation.

Unless otherwise stated in the quotation, any quotation submitted by Brødrene Markussens Metalvarefabrik A/S (in the following referred to as BMM) shall be firm for eight (8) days from the date of quotation.

3. Order confirmation.

BMM accepts an order by forwarding an order confirmation or by delivery. If the Buyer does not immediately object to the acknowledgement of order, it shall be considered approved by him.

4. Specifications.

Any information, including technical specifications given in BMM's printed material is provided subject to any modification which may be implemented prior to delivery. Details of the type of information mentioned shall not be binding. Specific Buyer requirements shall be binding only if confirmed in writing by the Seller. For tolerances regarding dimensions, lengths, weights, etc., BMM's normal standards for the product in question shall apply.

5. Drawings and other technical documents.

All drawings and other technical documents handed over to the Buyer by BMM before or after the conclusion of the agreement shall remain the property of BMM and may therefore not without the consent of BMM be used for any other purpose than the one implied by the handover. Thus, the material mentioned may not be copied, reproduced, handed over or in any other way disclosed to any third party without the consent of BMM.

6. Prices.

All prices stated in quotations and order confirmations shall be current prices, excl. of VAT. Any change in the prices of materials, wages, exchange rates, freight rates, charges, duty rates or the like may result in adjustments of the prices on the date of delivery.

7. Payment.

If delivery is postponed due to circumstances for which the Buyer is responsible, the Buyer shall undertake to ensure payment as if delivery had taken place at the time agreed upon. The Buyer shall not be entitled to withhold any part of the purchase price on account of any type of counterclaim. Similarly, the Buyer shall not be entitled to set off any counterclaim against the Seller. In the event that payment is received later than agreed, default interest will be added at BMM's default rate in force at any time.

8. Time of delivery.

If time of delivery is specified as a period of time, this period shall be in effect as from the date of the order confirmation.

Delivery shall be considered made in time when the product has either been dispatched from BMM or reported as being ready for dispatch or inspection within the time of delivery specified.

9. Delay.

In the event of significant delay of delivery for which BMM is responsible, the Buyer shall be entitled to cancel the agreement but only as far as the delayed products are concerned. If the delay is caused by circumstances for which the Buyer is responsible, BMM shall be entitled to postpone the time of delivery, or to cancel the agreement as far as the late products are concerned. The Seller shall not be responsible for any loss, which may occur as a consequence of late delivery, unless otherwise explicitly agreed in writing.

10. Obstacles to delivery.

BMM shall not be responsible when the below circumstances (force majeure, etc.) prevent, make it difficult or delay final delivery, and BMM reserves the right, at its own discretion, to cancel the agreement in part or in full, or to postpone delivery beyond the time of delivery fixed in the agreement by a period of time determined by the circumstances. Danish and/or foreign legislation as well as rules of law laid down pursuant hereto, government intervention or intervention by local authorities, ban on imports and/or exports, industrial conflict, drafting shall, among other things, be considered reasons for discharge, as well as any other circumstances beyond the control of the parties, such as war, political unrest, seizure, exchange controls, fire and water damage and other acts of God, engine failure and other disruption of production, lack of means of transportation or obstruction of traffic at railways, ports or other traffic services, scrapping during manufacture which could not reasonably be foreseen, power restrictions, and defective or late supplies from sub-contractors. No later than 30 days of receipt of information about any occurrence of an obstacle to delivery, BMM undertakes to inform the Buyer without undue delay about whether the agreement will be affirmed or cancelled; if affirmed, BMM shall inform the Buyer of the expected delivery time. If the Buyer cannot accept the time of delivery provided, the Buyer shall be entitled to cancel the parts of the agreement which have not yet been performed. If the Buyer cancels the agreement, BMM shall be entitled to recover the costs, which BMM has incurred until the cancellation. BMM will as far as possible seek to use the material in the execution of other BMM orders.

11. Buyer insolvency.

If, before delivery, BMM may reasonably assume that the Buyer will not be able to perform his obligation to pay, BMM may demand that necessary security be provided in this respect. BMM shall be entitled to cancel the agreement if the necessary security cannot be provided.

12. Complaints.

The Buyer undertakes to examine the product immediately upon receipt. Any objection from the Buyer to the quality supplied shall be received by BMM no later than eight (8) days after the Buyer has received the product in question. Any objection from the Buyer to the quality, tolerances, etc. shall be made in writing to BMM immediately after the Buyer has become or should have become aware of this. If the Buyer fails to complain in accordance with this, breach cannot be claimed at a later date. The Seller's liability shall in every respect be limited to include

defects in the products delivered only if the Buyer complains of such defects within one (1) year of receipt of the product.

13. Liability for defects.

If BMM receives the complaint in time and it is proved that the defect existed at the time of delivery and that BMM is responsible for this defect, BMM undertakes to replace, repair or rework the product(s) delivered. Moreover, BMM shall not be obliged to pay any type of damage or compensation whatsoever to the Buyer due to such defect. BMM undertakes only to pay the costs of transportation, but not the costs payable for any assembly/disassembly/adjustment or similar.

14. Product liability.

BMM shall be responsible only for personal injuries and damage to real property or chattel if it is proved that the damage is caused by defects or negligence for which BMM is responsible. BMM shall not be liable for any damage to real property or chattel occurring while the equipment is in the Buyer's possession; nor shall BMM be responsible for damage to products manufactured by the Buyer, or to products in which these are included. In so far as product liability may be imposed on BMM with regard to a third party, the Buyer undertakes to indemnify BMM to the same extent to which BMM's liability is limited in accordance with this provision. The above limitations of BMM's liability shall not apply if BMM is guilty of gross negligence.

15. Consequential damage and indirect loss.

As far as delay, defects or product liability is concerned, BMM shall never be liable for any indirect loss, including loss of profits, loss of earnings or any loss caused by failure on the part of the Buyer to perform his obligations towards a third party.

16. Product return rules.

For products to be returned, an agreement in writing shall be entered into with BMM who specifies the return conditions. Only products, which can be identified as products supplied by BMM, can be accepted as returns by BMM. Only products designated as Danish stock standard products by BMM may be returned, i.e. only marketable products. A copy of BMM's invoice shall accompany any return of products, as well as information stating with whom the return was agreed. Upon receipt, returns must be whole, clean and undamaged, unless it can be proved that BMM was responsible for the damage. The returns must be properly packed when dispatched. Delivery costs and the costs of returning products shall be paid by the Buyer, unless BMM delivered the products to the Buyer by mistake. Unless otherwise agreed in writing, BMM reserves the right to deduct a return charge of 20% on a credit note.

17. Infringement of intellectual property rights.

If BMM supplies in accordance with drawings, models or other designs procured by the Buyer, the Buyer shall indemnify BMM for liability in connection with any infringement of third party rights, such as patented design or trademark rights.

18. Products bought for the purpose of resale.

The Buyer declares that his repeated or continuous purchasing of BMM's products, meant for resale, shall never result in the Buyer claiming to be a dealer, sole dealer, agent, distributor or similar for BMM. The Buyer declares to be aware of and consent to the understanding that any status as a dealer, sole dealer, agent, distributor, with the associated rights and obligations for

the parties, shall exist only if the Buyer and BMM have entered into an exclusive distributor agreement in writing, signed by both parties. BMM reserves the right to terminate co-operation and trade with any Buyer who buys or has bought BMM's products and equipment for the purpose of reselling the same. Co-operation and trade can be terminated without notice and without paying any compensation, damages or the like, irrespective of the length of the trade relations or the extent of trade. BMM cannot be committed or ordered to pay any compensation or damages whatsoever to the Buyer who buys or has bought BMM products or equipment for the purpose of reselling the same as a consequence of BMM terminating co-operation or trade.

19. Disputes

Any dispute arising out of or in connection with a purchase agreement which is regulated in accordance with these General Terms and Conditions of Sale and Delivery shall be settled according to Danish law.

Any dispute which cannot be settled amicably shall be brought before the Court of Herning.

