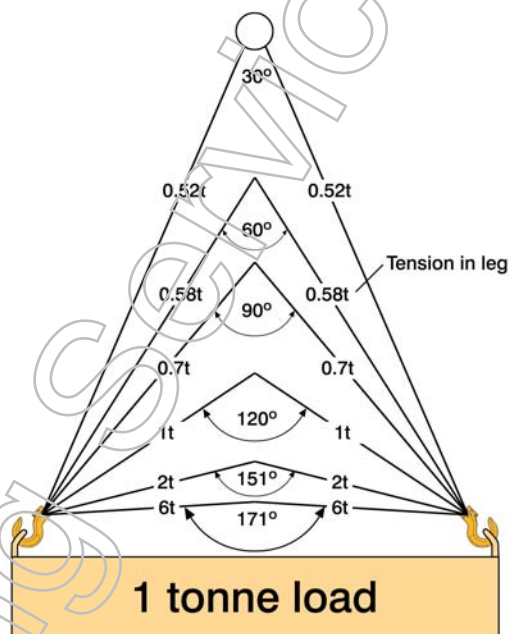


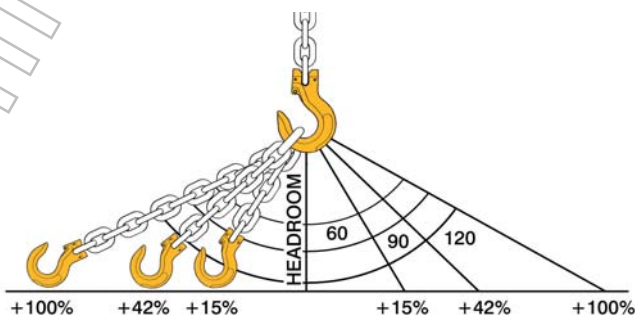
Chain Sling Selection

In this catalogue the maximum working load limit for each size of chain is shown. These ratings are based on ideal conditions, however in practice, working conditions may vary widely. All lifting applications should be assessed by a competent person in order to establish the size and type of sling required.

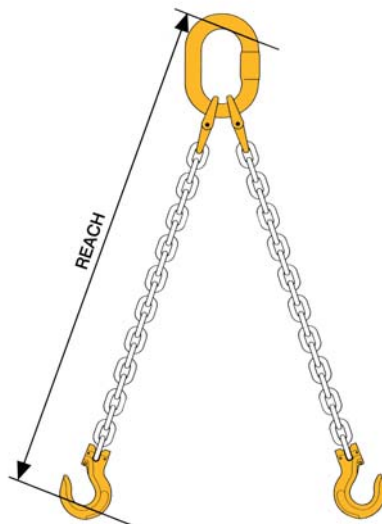
In the case of multi-leg slings, the angle between the legs is critical. The actual tension on each leg increases when the angle between the legs increases as shown in the diagram opposite. For this reason all general purpose chain slings are given a rating based upon use at 90° inc. angle. The included angle between the legs should never exceed 120°.



The distance between the crane hook and the load is known as the "Head Room". If a specific head room is required, the "Reach" of the chain sling must increase as the angle between the legs increases as shown opposite.



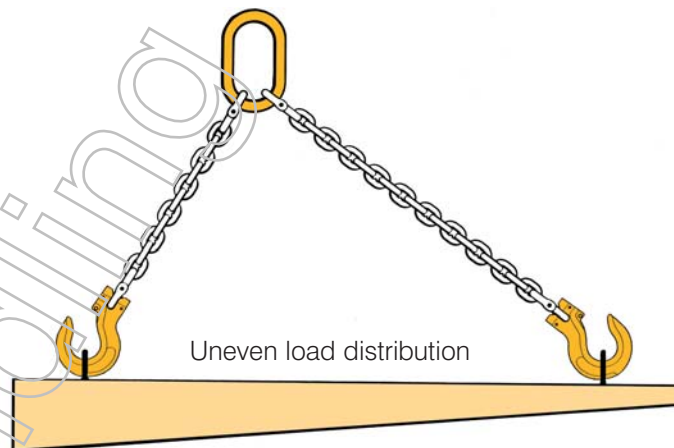
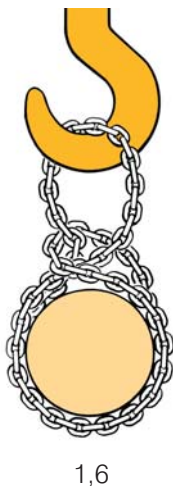
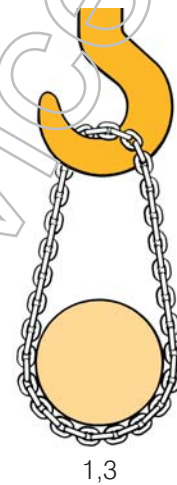
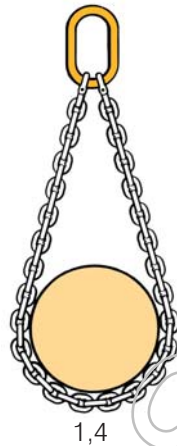
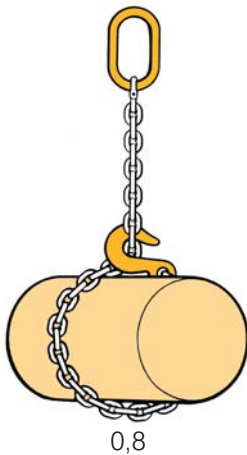
The reach of a chain sling is the distance between bearing points of the upper and lower terminal fittings. This distance, commonly known as the "Bearing to Bearing" should be quoted when ordering slings. Shortening clutches may be fitted to a sling, making the reach adjustable, hence increasing the versatility of the sling.



Unusual Applications

Recommended Load Factors for unusual slinging methods and conditions.

Factor normally applied to W.L.L. of a Single Chain.

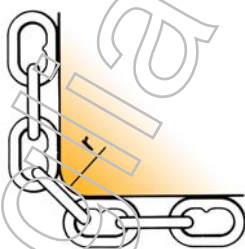


This factor is applicable to W.L.L. of a standard Double Branch Sling 0,7

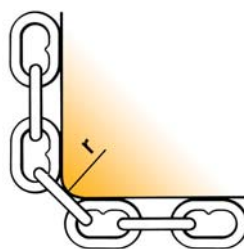
Temperature loadings: Applicable to chain temperature

-40° to 200° C 1	200° C to 300° C 0,9	300° C to 400° C 0,75
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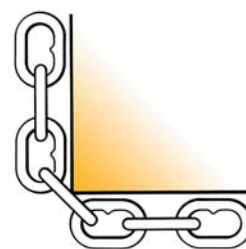
Edge loadings: Applicable to load lifting and load lashing



$r = \text{more than } 2 \times \text{chain size}$
1



$r = \text{more than chain size}$
0,7



NOT RECOMMENDED
WITHOUT CORNER PROTECTION

Working Load Limits

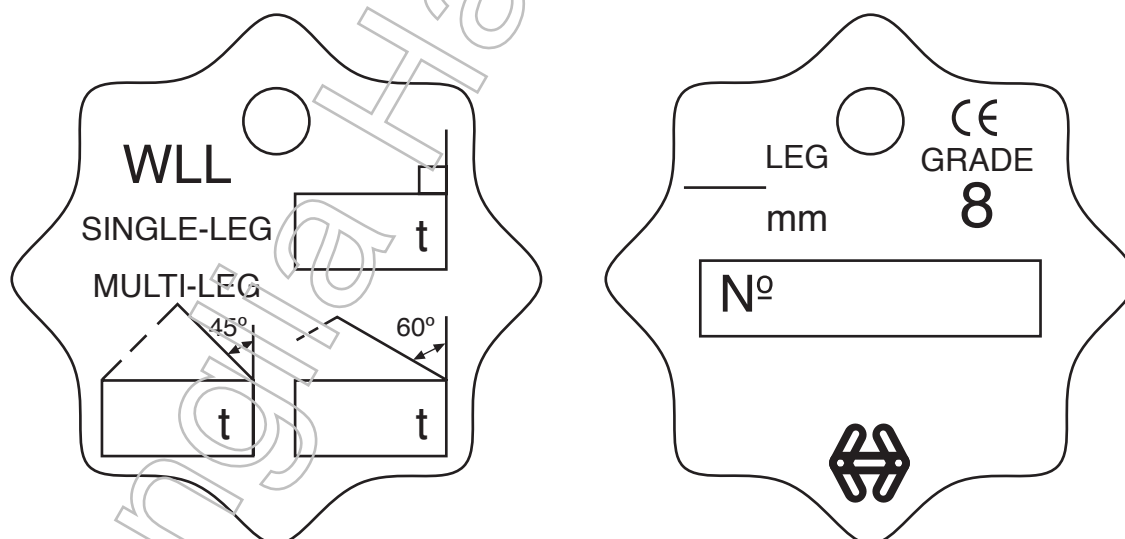
Uniform Load Method of Rating BS EN 818-4

All general purpose slings should be rated by the uniform load method as shown in the table below.

Chain size mm	Single leg	Endless	Two leg		Three and Four Leg	
			0°-45°	45°-60°	0°-45°	45°-60°
7	1.5	2.5	2.1	1.5	3.1	2.2
8	2.0	3.1	2.8	2.0	4.2	3.0
10	3.15	5.0	4.25	3.15	6.7	4.75
13	5.3	8.5	7.5	5.3	11.2	8.0
16	8.0	12.5	11.2	8.0	17.0	11.8
20	12.5	20.0	17.0	12.5	26.5	19.0
22	15.0	23.6	21.2	15.0	31.5	22.4
26	21.2	33.5	30.0	21.2	45.0	31.5
32	31.5	50.0	45.0	31.5	67.0	47.5

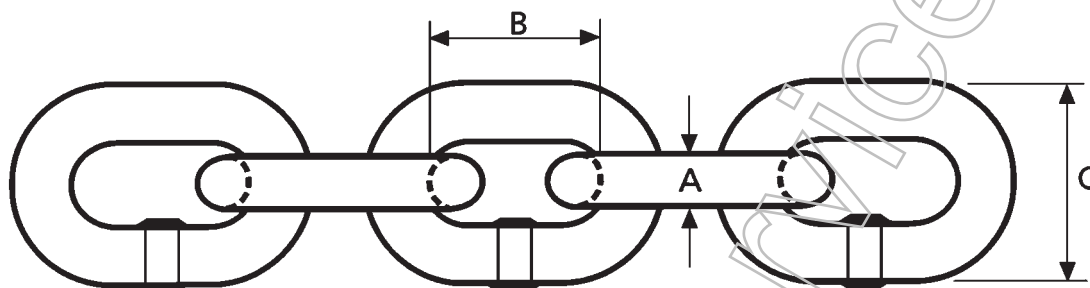
All loads shown in tonnes

Chain Sling Tabs



Grade 'T' (8) Chain BS EN 818-2

Hackett Grade T(8) Alloy Steel Chain is manufactured specifically for use in chain slings for lifting purposes. The chain is heat treated for tensile strength and resistance to wear whilst also allowing for shock absorption. The chain is easily identifiable with "MA8" embossed at metre intervals.



Part code	A mm	B mm	C mm	WLL Tonnes	Kgs per metre
AS1.070.5	7	21	25.9	1.5	1.1
AS1.080.5	8	24	29.6	2.0	1.5
AS1.100.5	10	30	37.0	3.15	2.2
AS1.130.5	13	39	48.1	5.3	3.8
AS1.160.5	16	48	59.2	8.0	5.8
AS1.200.5	20	60	74.0	12.5	9.1
AS1.220.5	22	66	81.4	15.0	11.0
AS1.260.5	26	78	96.2	21.2	15.3
AS1.320.5	32	96	118.0	31.5	23.2

Properties:

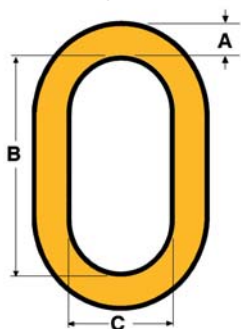
Working Load Limited (W.L.L.) is the maximum load which chain or components are designed to sustain in lifting use. The mean stress at this load is 200n/mm² (MPa) and is based on a factor of safety of 4:1.

Manufacturing Proof Force (M.P.F.) is the force to which during manufacture chain or components are subjected. The mean stress at this load is 500n/mm² (MPa) which is 2.5 times the working load limit.

Minimum Breaking Load (M.B.L.) is the minimum force which chain or components must withstand before failure. The mean stress at this load is 800n/mm² (MPa). The minimum elongation before failure is 20%.

Master Links

for single & double leg chain slings



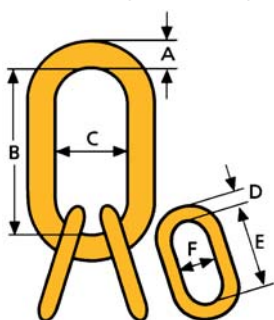
Part Code	Chain Diameter mm		Dimensions mm			Mass Kg
	Single	Double	A	B	C	
HA0806ML	6.7&8	6	14	130	65	0.5
HA1008ML	10	7&8	16	150	75	0.7
HA1310ML	13	10	20	160	90	1.2
HA1613ML	16	13	26	195	110	2.4
HA2016ML	20	16	32	240	140	4.7
HA2220ML	22	20	40	280	155	8.5
HA2622ML	26	22	45	320	175	11.9
HA3226ML	32	26	50	360	190	16.6
HA3632ML	36	32	60	410	220	28.0

OVERSIZE MASTER LINKS

HA22ML	—	10	22	270	140	2.3
HA25ML	16	13	25	270	140	3.13

Sub Assemblies

for 3 & 4 leg chain slings

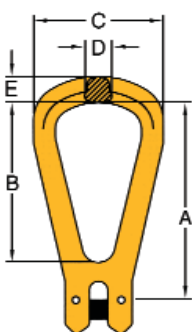


Part Code	Chain Size mm	Dimensions mm						Mass Kg
		A	B	C	D	E	F	
HA08SA	7&8	20	160	90	13	60	35	1.6
HA10SA	10	26	195	110	16	80	40	3.2
HA13SA	13	32	240	140	22	90	50	6.5
HA16SA	16	40	280	155	28	100	60	12.4
HA20SA	20	45	320	175	32	125	75	18.5
HA22SA	22	50	350	190	40	140	80	26.4
HA26SA	26	60	410	220	45	165	90	42.3
HA32SA	32	70	450	250	50	195	100	65

OVERSIZE QUAD ASSEMBLIES

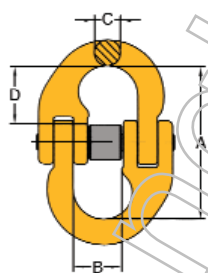
HA23QA	7&8	22	270	140	16	120	60	3.7
HA25QA	10	25	270	140	20	140	70	5.3

Reeveable Egg Link



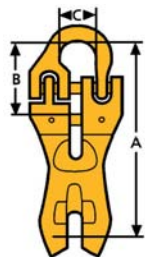
Part Code	Chain Size mm	Dimensions mm					Mass Kg
		A	B	C	D	E	
8-059-07	7,8	99	80	65	15	15	0.4
8-059-10	10	125	100	80	19	18	0.7
8-059-13	13	168	136	108	25	22	1.5
8-059-16	16	198	158	124	27	26	2.7

Component Connector



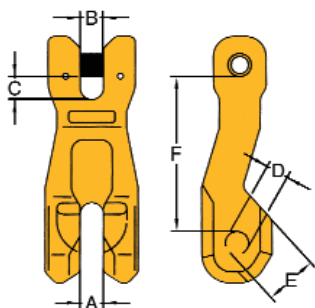
Part Code	Chain Size mm	Dimensions mm				Mass Kg
		A	B	C	D	
8-015-07	7,8	59	18	9	22	0.2
8-015-10	10	68	25	13	26	0.3
8-015-13	13	91	30	16	35	0.7
8-015-16	16	100	36	19	38	1.1
8-015-20	20	122	42	22	46	1.7
8-015-22	22	152	49	24	60	3.0
8-015-26	26	162	55	31	62	4.6
8-015-32	32	202	69	38	79	8.6

Shortening Clutch



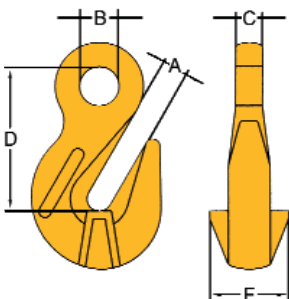
Part Code	Chain Size mm	Dimensions mm			Mass Kg
		A	B	C	
8-078-07	7,8	132	44	16	0.75
8-078-10	10	166	56	22	1.4
8-078-13	13	214	72	29	2.8
8-078-16	16	265	90	36	5.6

Clevis Clutch



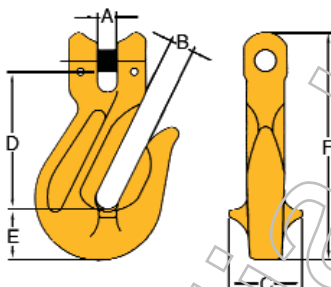
Part Code	Chain Size mm	Dimensions mm					Mass Kg
		A,B	C	D	E	F	
8-060-07	7,8	8	10	9	16	62	0.4
8-060-10	10	12	14	12	25	87	0.9
8-060-13	13	16	17	15	32	115	2.1
8-060-16	16	20	19	19	39	143	3.2
8-060-20	20	21	23	22	46	152	5.0

Eye Grab Hook



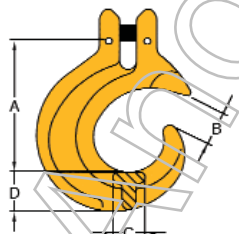
Part Code	Chain Size mm	Dimensions mm					Mass Kg
		A	B	C	D	E	
8-041-07	7,8	10	15	9	60	30	0.3
8-041-10	10	13	20	13	84	41	0.6
8-041-13	13	16	25	15	102	52	1.2
8-041-16	16	20	30	20	114	57	2.3
8-041-20	20	23	36	23	132	98	3.7
8-041-22	22	27	38	26	157	70	4.6
8-041-26	26	29	41	32	187	100	9.8
8-041-32	32	37	57	40	230	90	19.4

Clevis Grab Hook



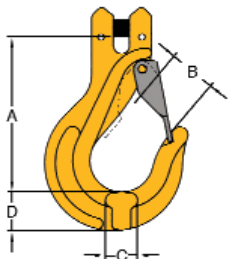
Part Code	Chain Size mm	Dimensions mm						Mass Kg
		A	B	C	D	E	F	
8-042-07	7,8	9	10	30	55	25	93	0.3
8-042-10	10	12	13	41	77	35	128	0.8
8-042-13	13	15	16	53	97	42	152	1.5
8-042-16	16	17	20	58	102	45	180	2.9
8-042-20	20	23	23	98	124	54	217	5.0

Clevis C Hook



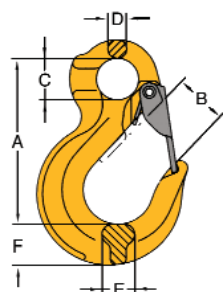
Part Code	Chain Size mm	Dimensions mm			Mass Kg
		A	B	C	
8-097-07	7,8	80	20	16	0.5
8-097-10	10	105	27	22	0.9
8-097-13	13	138	35	32	1.9
8-097-16	16	170	43	40	3.6

Clevis Sling Hook



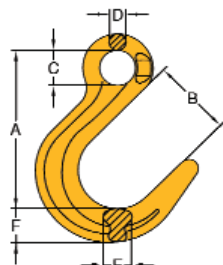
Part Code	Chain Size mm	Dimensions mm				Mass Kg
		A	B	C	D	
8-043/S-07	7,8	98	27	18	22	0.5
8-043/S-10	10	121	34	23	29	1.2
8-043/S-13	13	147	44	30	37	2.3
8-043/S-16	16	166	48	38	42	3.7
8-043/S-20	20	200	56	47	50	6.7

Eye Sling Hook



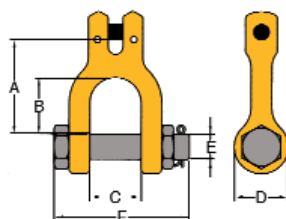
Part Code	Chain Size mm	Dimensions mm						Mass Kg
		A	B	C	D	E	F	
8-044/S-07	7,8	98	28	25	11	20	23	0.4
8-044/S-10	10	121	36	32	14	23	31	0.9
8-044/S-13	13	152	40	40	18	28	38	1.8
8-044/S-16	16	184	44	50	22	32	47	3.2
8-044/S-20	20	218	45	60	26	43	48	5.3
8-044/S-22	22	244	73	50	31	50	62	9.2
8-044/S-26	26	279	77	64	35	60	80	13.5

Eye Foundry Hook



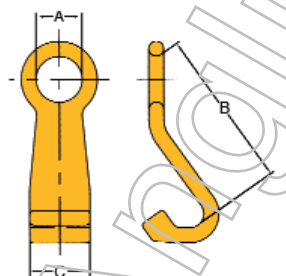
Part Code	Chain Size mm	Dimensions mm						Mass Kg
		A	B	C	D	E	F	
8-047-07	7,8	122	61	24	12	20	30	0.7
8-047-10	10	150	74	31	15	24	34	1.2
8-047-13	13	180	88	40	20	34	42	2.3
8-047-16	16	215	98	49	24	43	50	4.0
8-047-20	20	248	112	60	28	46	57	6.0

Clevis Shackle



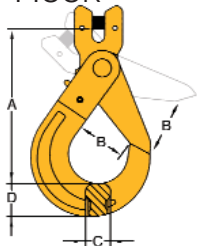
Part Code	Chain Size mm	Dimensions mm						Mass Kg
		A	B	C	D	E	F	
8-066-07	7,8	59	35	33	34	16	79	0.4
8-066-10	10	78	48	37	40	20	93	0.8
8-066-13	13	98	64	49	44	22	118	1.4
8-066-16	16	112	69	60	54	28	141	2.5

Barrel Hook



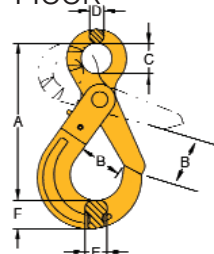
Part Code	Chain Size mm	Dimensions mm			Mass Kg
		A	B	C	
8-071-07	7,8	38	133	50	0.9

Clevis Self Locking Hook



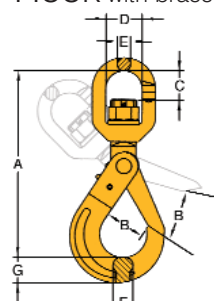
Part Code	Chain Size mm	Dimensions mm				Mass Kg
		A	B	C	D	
8-026-07	7,8	119	34	20	24	0.8
8-026-10	10	143	44	26	30	1.5
8-026-13	13	179	52	30	39	2.8
8-026-16	16	212	60	36	49	5.6
8-026-20	20	319	90	48	62	7.5

Eye Self Locking Hook



Part Code	Chain Size mm	Dimensions mm						Mass Kg
		A	B	C	D	E	F	
8-025-07	7,8	136	34	25	11	20	24	0.8
8-025-10	10	167	44	32	13	26	30	1.4
8-025-13	13	207	52	40	16	30	39	2.7
8-025-16	16	252	60	52	21	36	49	5.6
8-025-20	20	282	90	64	23	48	62	8.5
8-025-22	22	319	80	70	24	49	63	11.2
8-025-26	26	343	99	80	25	56	69	14.5

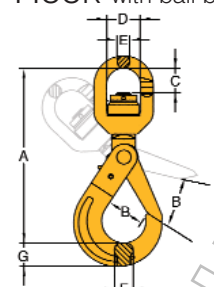
Swivel Self Locking Hook with brass bushing



Part Code	Chain Size mm	Dimensions mm							Mass Kg
		A	B	C	D	E	F	G	
8-027-06	6	149	29	22	31	12	15	19	0.6
8-027-07	7,8	186	34	29	36	14	20	24	1.1
8-027-10	10	220	44	34	40	16	26	30	2.0
8-027-13	13	267	52	43	46	22	30	39	4.0
8-027-16	16	328	60	52	60	24	36	49	6.8
8-027-20	20	388	90	82	75	26	48	62	11.6
8-027-22	22	457	80	95	97	33	49	63	17.9

This hook is designed not to swivel while in use lifting a load

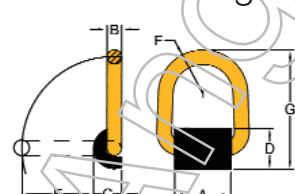
Swivel Self Locking Hook with ball bearing



Part Code	Chain Size mm	Dimensions mm							Mass Kg
		A	B	C	D	E	F	G	
8-027N-07	7,8	186	34	29	36	14	20	24	1.1
8-027N-10	10	220	44	34	40	16	26	30	2.0
8-027N-13	13	267	52	43	46	22	30	39	4.0
8-027N-16	16	328	60	52	60	24	36	49	6.8
8-027N-20	20	388	90	82	75	26	48	62	11.6

This hook is designed to fully swivel while in use lifting a load

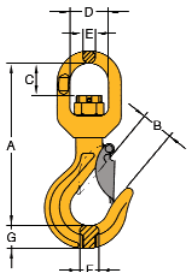
Weld-on Lifting Point



Part Code	W.L.L tonnes	Dimensions mm							Mass Kg
		A	B	C	D	E	F	G	
8-057-1T	1.0	50	14	27	38	55	24	105	0.5
8-057-3T	3.0	58	17	34	48	50	29	112	0.9
8-057-5T	5.0	64	22	43	61	74	33	154	1.7

Swivel Sling Hook

with brass bushing

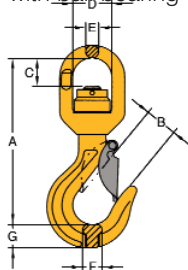


Part Code	Chain Size mm	Dimensions mm							Mass Kg
		A	B	C	D	E	F	G	
8-049-07	7,8	155	26	27	36	12	18	22	0.9
8-049-10	10	189	36	37	42	16	23	29	1.5
8-049-13	13	233	42	40	48	20	28	35	3.0
8-049-16	16	280	50	55	60	22	35	44	5.1
8-049-20	20	356	56	82	74	25	49	65	9.4

This hook is designed not to swivel while in use lifting a load

Swivel Sling Hook

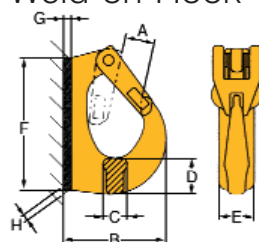
with ball bearing



Part Code	Chain Size mm	Dimensions mm							Mass Kg
		A	B	C	D	E	F	G	
8-049N-07	7,8	155	26	27	36	12	18	22	0.9
8-049N-10	10	189	36	37	42	16	23	29	1.5
8-049N-13	13	233	42	40	48	20	28	35	3.0
8-049N-16	16	280	50	55	60	22	35	44	5.0
8-049N-20	20	356	56	82	74	25	49	65	9.3

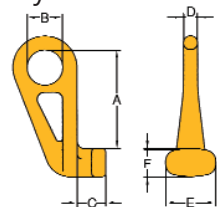
This hook is designed to fully swivel while in use lifting a load

Excavator Weld-on-Hook



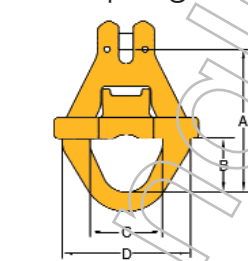
Part Code	W.L.L tonnes	Dimensions mm							Mass Kg
		A	B	C	D	E	F	G	
8-081-01	1.0	18	70	18	27	25	95	7	0.6
8-081-02	2.0	25	85	20	30	30	115	8	1.0
8-081-03	3.0	28	107	23	30	35	133	9	1.4
8-081-04	4.0	28	114	30	38	42	142	10	1.9
8-081-05	5.0	30	135	31	47	44	167	12	3.1
8-081-08	8.0	32	137	39	52	50	176	12	3.5
8-081-10	10.0	44	170	42	56	56	222	13	6.2

Eye Container Hook



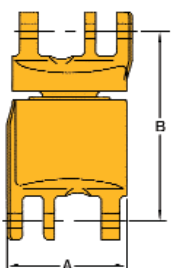
Part Code	Chain Size mm	Desc	Dimensions mm						Mass Kg
			A	B	C	D	E	F	
8-067-45Left	20	Left 45°	192	70	46	25	75	48	4.0
8-067-45Right	20	Right 45°	192	70	46	25	75	48	4.0

Clevis Skip Hook with Spring Gate



Part Code	Chain Size mm	Dimensions mm				Mass Kg
		A	B	C	D	
8-069-13	13	141	57	65	125	1.8

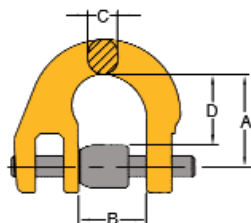
Insulated Blank Swivels with ball bearing



Individually tested to resist 1500 Volts.
Designed for protection of overhead crane during welding operations on suspended loads.

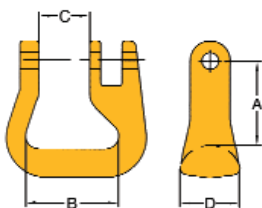
Part Code	Chain Size mm	Dimensions mm		Mass Kg
		A	B	
8-088-07	7,8	50	75	0.5
8-088-10	10	62	94	1.2
8-088-13	13	77	123	2.5
8-088-16	16	94	142	4.4
8-088-20	20	109	164	7.0

Half Coupling Link with Coupling Pin & Sleeve Set



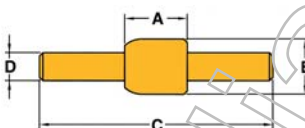
Part Code	Chain Size mm	Dimensions mm				Mass Kg
		A	B	C	D	
8-054-07	7,8	23	18	9	22	0.1
8-054-10	10	34	25	12	26	0.2
8-054-13	13	44	30	16	35	0.4
8-054-16	16	52	36	20	41	0.7
8-054-20	20	63	42	23	46	1.1

Round Sling Coupling



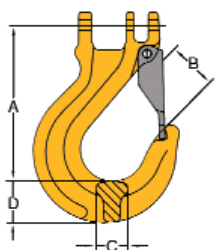
Part Code	Chain Size mm	Dimensions mm				Mass Kg
		A	B	C	D	
8-053-07	7,8	33	40	18	24	0.2
8-053-10	10	44	47	25	29	0.4
8-053-13	13	51	53	30	35	0.7
8-053-16	16	63	67	36	43	1.3
8-053-20	20	73	80	42	52	2.1

Coupling Pin & Sleeve Set



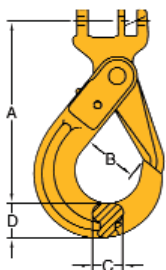
Part Code	Chain Size mm	Dimensions mm				Mass kg
		A	B	C	D	
8-P015-07	7.8	12	13	50	6	0.02
8-P015-10	10	18	16	67	8	0.04
8-P015-13	13	21	18	82	10	0.07
8-P015-16	16	25	24	105	12	0.15
8-P015-18/20	20	29	30	116	15	0.26

Coupling Sling Hook



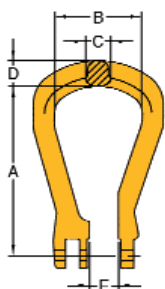
Part Code	Chain Size mm	Dimensions mm				Mass Kg
		A	B	C	D	
8-055-07	7,8	90	30	19	23	0.4
8-055-10	10	115	36	23	31	0.9
8-055-13	13	141	42	28	36	1.8
8-055-16	16	168	47	32	45	2.9
8-055-20	20	195	52	43	48	4.7

Coupling Self Locking Hook



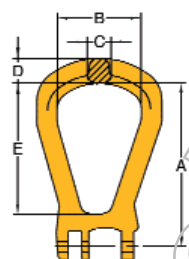
Part Code	Chain Size mm	Dimensions mm				Mass Kg
		A	B	C	D	
8-023-07	7,8	114	34	20	24	0.9
8-023-10	10	123	44	26	30	1.8
8-023-13	13	192	52	30	39	3.0
8-023-16	16	207	60	36	49	6.0
8-023-20	20	337	90	48	62	8.8

Open Coupling Master Link



Part Code	Chain Size mm	Dimensions mm					Mass Kg
		A	B	C	D	E	
8-051-07	7,8	100	50	15	15	15	0.3
8-051-10	10	127	65	19	19	20	0.6
8-051-13	13	145	72	23	22	25	1.0
8-051-16	16	174	80	25	26	30	1.6
8-051-20	20	204	104	31	36	36	2.6

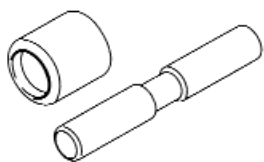
Closed Coupling Master Link



Part Code	Chain Size mm	Dimensions mm					Mass Kg
		A	B	C	D	E	
8-052-07	7,8	100	50	15	12	78	0.3
8-052-10	10	127	65	19	19	101	0.6
8-052-13	13	145	72	23	22	113	1.1
8-052-16	16	174	80	25	26	137	1.7
8-052-20	20	204	104	31	36	165	2.8

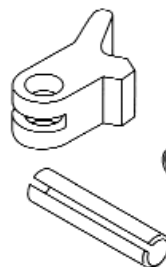
Spare Parts And Repair Kits

Coupling Pin & Sleeve Set



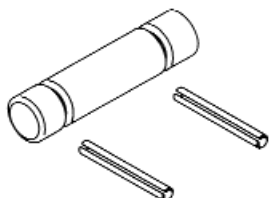
Part Code	Size mm
8-P015-07	7,8
8-P015-10	10
8-P015-13	13
8-P015-16	16
8-P015-20	20

Trigger Kits to suit Self Locking Hooks



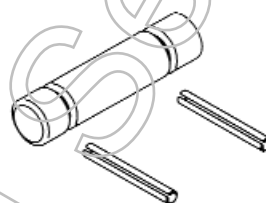
Part Code	Size mm
8-P025-06	6
8-P025-07	7
8-P025-10	10
8-P025-13	13
8-P025-16	16
8-P025-20	20
8-P025-22	22
8-P025-26	26

Load Pin Kits



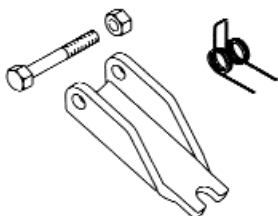
Part Code	Size mm
8-P026-07	7
8-P026-10	10
8-P026-13	13
8-P026-16	16
8-P026-20	20

Shortening Clutch Loading Pin Kit



Part Code	Size mm
8-P078-07	7/8
8-P078-10	10
8-P078-13	13
8-P078-16	16

Latch Kits to suit Sling Hooks



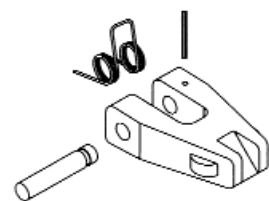
Part Code	Size mm
8-P044-07	7,8
8-P044-10	10
8-P044-13	13
8-P044-16	16
8-P044-20	20
8-P044-22	22
8-P044-26	26
8-P044-32	32

Skip Hook Latch



Part Code	Size mm
8-P069-13	13

Latch Kits to suit Weld on Hook

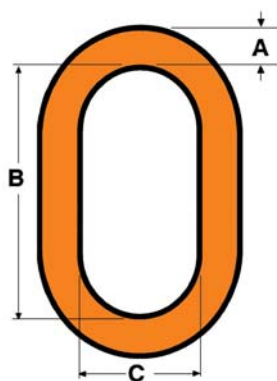


Part Code	Size mm
8-P081-01	1.0
8-P081-02	2.0
8-P081-03	3.0
8-P081-04	4.0
8-P081-05	5.0
8-P081-08	8.0
8-P081-10	10.0

Grade 8 Master Links & Quad Assemblies -

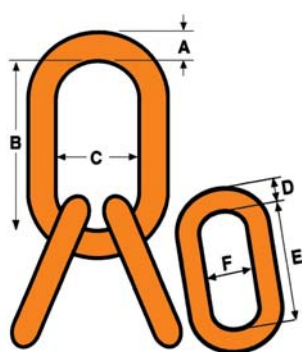
Certified to DNV 2.7-1, type approval no. S-4246

Master Links



Part Code	Description	A	Dimensions mm			WLL t
			B	C		
330.160	HA16ML	16	150	75		4.1
330.22S	HA22MS	22	162	90		8.5
330.220	HA22ML	22	270	140		5.8
330.250	HA25ML	25	270	140		8.83
330.28S	HA28MS	28	200	110		14.5
330.280	HA28ML	28	270	140		11.8
330.320	HA32ML	32	270	140		17.1
330.360	HA36ML	36	270	140		23
330.400	HA40ML	40	280	155		28.1
330.450	HA45ML	45	320	175		35
330.500	HA50ML	50	350	195		45
330.600	HA60ML	60	430	230		65
330.700	HA70ML	70	480	260		85
330.900	HA90ML	90	500	300		150

Quad Assemblies



Part Code	Description	A	B	Dimensions mm				WLL t
				C	D	E	F	
350.160	HA16QA	16	150	75	13	90	50	4.1
350.220	HA22QA	22	162	90	20	140	70	8.5
350.230	HA23QA	22	270	140	16	150	75	5.8
350.250	HA25QA	25	270	140	20	140	70	8.83
350.260	HA26QA	28	270	140	20	140	70	11.8
350.280	HA28QA	28	200	110	22	140	70	14.5
350.320	HA32QA	32	270	140	26	185	90	17.1
350.360	HA36QA	36	270	140	28	190	100	23
350.400	HA40QA	40	280	155	32	200	110	28.1
350.450	HA45QA	45	320	175	36	225	125	35
350.500	HA50QA	50	350	195	40	260	130	45
350.600	HA60QA	60	430	230	50	350	195	65
350.700	HA70QA	70	480	260	60	410	220	85
350.900	HA90QA	90	500	300	70	400	200	150