

Chain Link Components

Information

Chain slings are extremely tough, flexible, durable, and can tolerate extreme temperatures. They are highly customizable and can be assembled with a variety of different links, hooks, lengths and adjustability. They do, however, tend to be relatively heavier and pricier than other types of slings. Chain slings are great for repeated lifting of heavy loads. A high tensile, grade 80 chain is most commonly used, however, we also assemble grade 100 chain slings. Toco services include repairing, load testing and recertifying chain slings. We are happy to assist you to determine the best variation to suit your specifications.

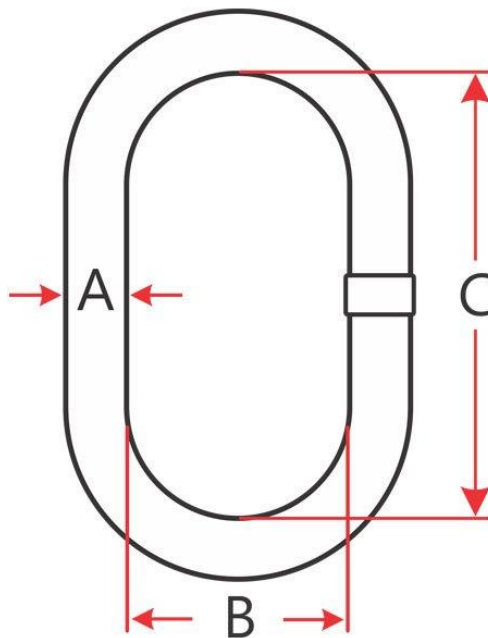
Common chain sling assemblies:

- Single Chain Sling
- Double or Two Leg Chain Sling
- Triple or Three Leg Chain Sling
- Quad or Four Leg Chain Sling
- Endless Chain Sling

1. Master link, Sub Assembly and Connecting Link

1. Master link

1. Otherwise known as an oblong, used as a component of chain slings and steel wire rope slings – enlarged master links suit heavier load capacity crane hooks.

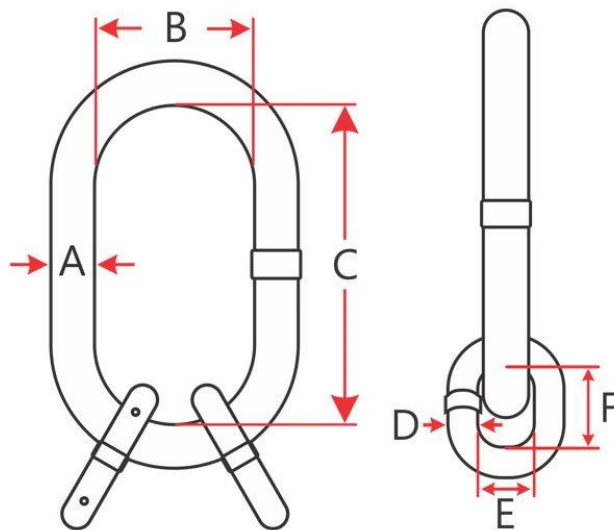


Master Link

A	B	C	Mass
mm	mm	mm	Kg
10.0	40	80	0.15
14.0	60	125	0.46
16.0	75	150	0.72
20.0	90	160	1.25
26.0	102	190	2.41
32.0	140	240	4.88
40.0	155	280	8.87
45.0	175	320	12.77
50.0	195	350	17.35
60.0	220	410	29.15

2. Subassembly

1. To fit chain sizes from 6mm to 32mm

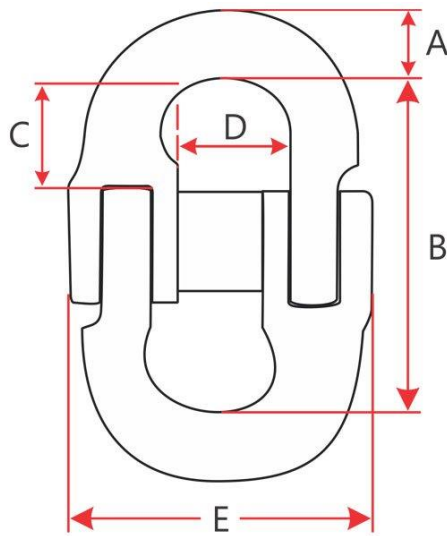


Sub Assembly

Size of Master Link (mm)			Size of Coupling Link (mm)			Mass	Chain Size
A	B	C	D	E	F	Kg	mm
14.0	60	125	10.0	16	30	0.6	6.0
20.0	90	160	13.0	35	60	1.7	7.0
25.5	102	190	16.0	40	80	3.3	10.0
32.0	140	240	22.0	50	90	6.8	13.0
40.0	155	280	28.0	60	100	12.5	16.0
45.0	175	320	32.0	75	125	18.5	20.0
50.0	195	350	40.0	80	140	27.5	22.0
60.0	220	410	45.0	90	165	44.0	26.0
70.0	250	450	50.0	100	195	65.4	32.0

3. Connecting link

1. To fit chain sizes from 6mm to 32mm



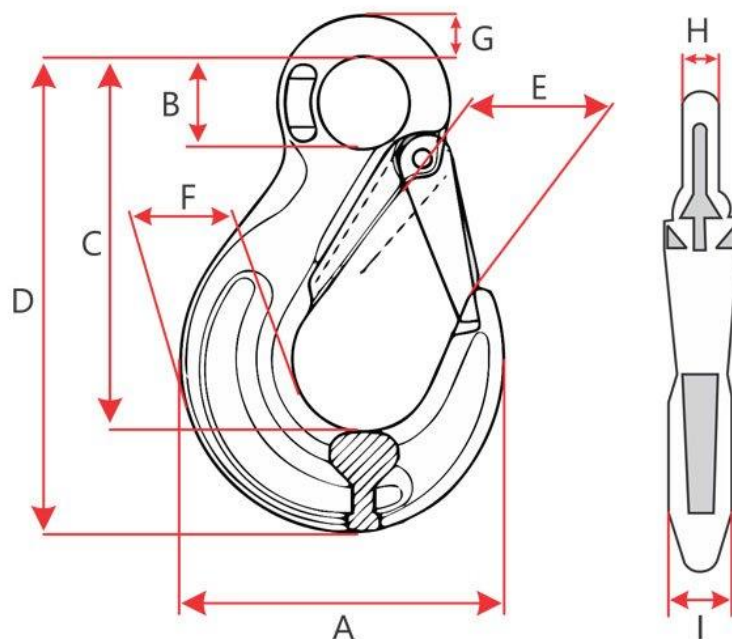
Connecting Link

Chain Size	Link Marking	A	B	C	D	E	Diam Hole	Mass
mm	mm	mm	mm	mm	mm	mm	mm	Kg
6	218	6	36	11	10	34.5	13	0.05
7-8	7-8	9	53	20	17	52.6	14	0.15
10	10	12	69	27	25	68.1	19	0.30
13	13	16	88	35	31	85.5	23	0.65
16	16	20	105	41	35	98.6	27	1.10
20	20	23	124	48	44	119.0	32	1.85
22	22	26	137	54	50	138.6	34	2.90
26	26	31	161	63	56	166.8	40	4.80
32	32	40	210	85	71	211.0	51	8.54

2. Eye Type Hooks: Safety Sling; Self Locking & Grab Hooks

We offer a wide variety of alloy grade 80 lifting hooks including shank, foundry and swivel self-locking hooks. Give us a call if you don't see what you are looking for or if you need assistance.

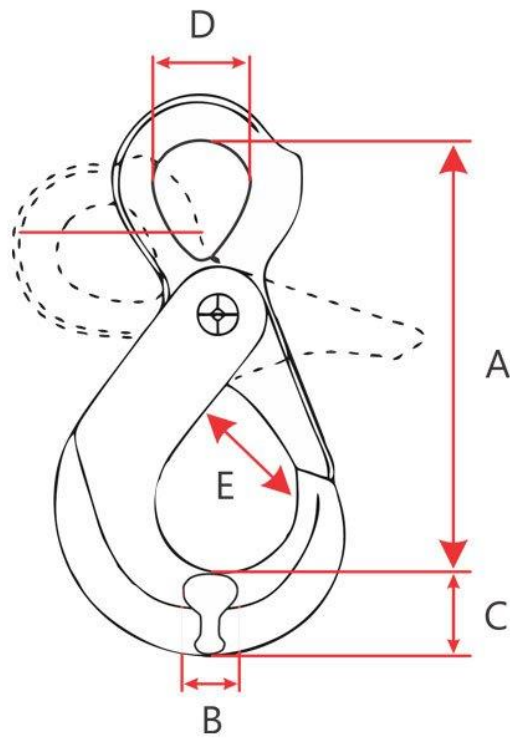
1. Safety Sling Hooks for chain sizes 6mm to 32mm



Eye Type Safety Sling Hook

Chain Size	A	B	C	D	E	F	I	G/H	Mass
mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg
6.0	84	19	70	100	25	20	20	10	0.37
7.0	88	24	104	132	23	32	19	11	0.5
10.0	108	31.5	132	165	29	41	24.6	14	0.9
13.0	130	38	160	199	34	49	30	17	2.1
16.0	152	44.5	186	233	42	58	35	23	3.5
20.0	172	56	210	263	43	65	42	24	5.4
22.0	218	43	222	295	71	82	49	30	8.0
26.0	244	48	250	310	79	90	54	36	10.5
32.0	287	59	292	365	98	102	62	38	20.0

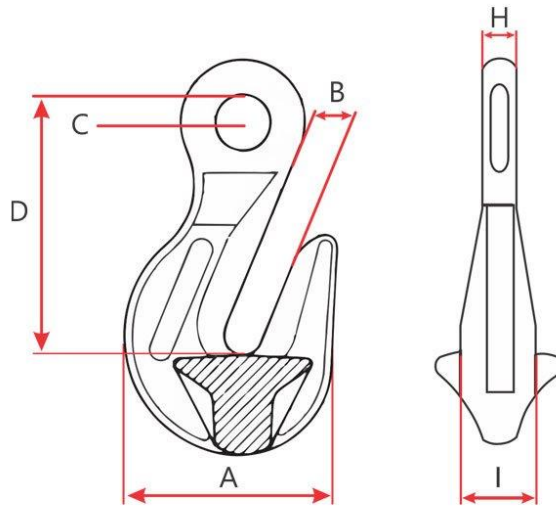
2. Self Locking Hooks for chain sizes 7mm to 25.5mm



Eye Type Self Locking Hook

Chain Size	A	B	C	D	E	Mass
mm	mm	mm	mm	mm	mm	Kg
7/8	133	19	25	25	31	0.82
10.0	160	26	31	31	43	1.42
13.0	206	33	39	40	53	3.0
16.0	253	48	48	50	64	6.25
18/20	282	41	57	64	68	8.5
22.0	319	49	63	70	82	11.2
25.5	343	56	69	80	99	14.5

3. Grab Hooks for chain sizes 6mm to 32mm



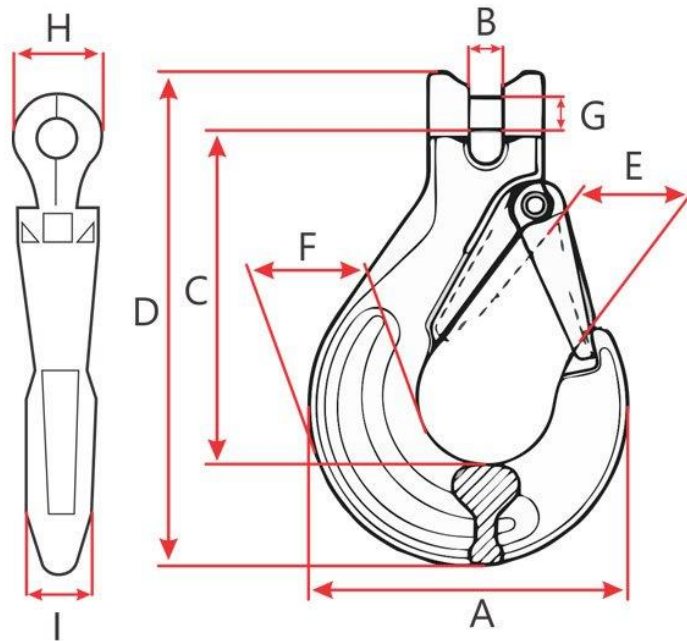
Eye Type Grab Hook

Chain Size	A	B	C	D	H	I	Mass
mm	mm	mm	mm	mm	mm	mm	Kg
6.0 (oval eye)	45	9	16	41	-	-	0.2
7.0	57	10.5	16	65	9	21	0.2
10.0	71	13	20	80	10	24	0.5
13.0	90	17	25	102	16.5	30	1.0
16.0	104	19	29	117	19	39	2.0
20.0	125	23	35	157	23	46	3.2
22.0	144	25	44	165	26	52	4.7
26.0	178	30	48	206	33	66	9.7
32.0 (no cradle)	210	38	57	267	40	92	16.5

3. Clevis Type Hooks: Safety Sling; Self Locking & Grab Hook

We offer a wide variety of alloy grade 80 lifting hooks including shank, foundry and swivel self-locking hooks. Give us a call if you don't see what you are looking for or if you need assistance.

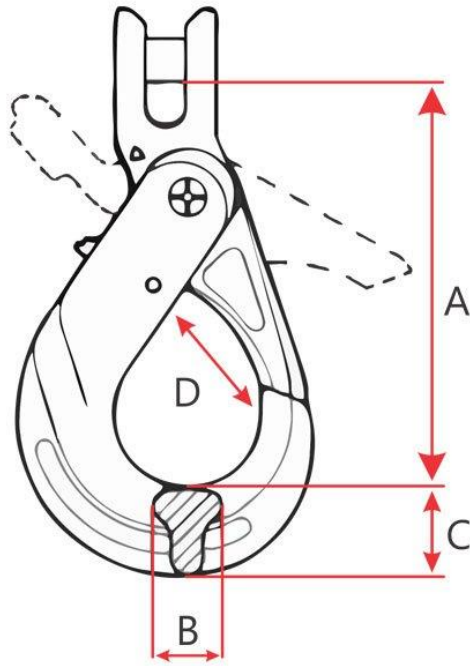
1. Safety Sling hooks for chain sizes 7m to 20mm



Clevis Type Safety Sling Hook

Chain	A	B	C	D	E	F	I	H	Mass
mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg
7.0	88	9	93.5	137	23	32	19	23	0.3
10.0	108	13.3	115.6	171	29	41	24.6	31	0.9
13.0	130	16	139	206	34	49	30	37.5	2.0
16.0	152	19	162	241	42	58	35	44	2.4
20.0	172	22	184	274	53	65	42	51	5.2

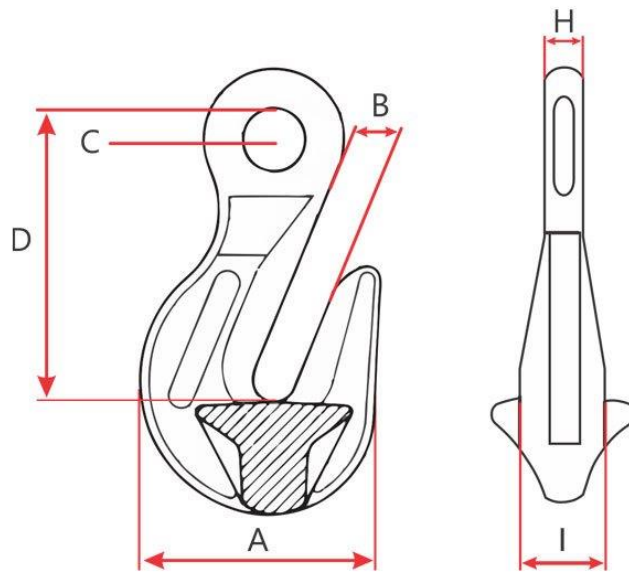
2. Self Locking Hooks for chain sizes 7mm to 20mm



Clevis Type Self Locking Hook

Chain Size	A	B	C	D	Mass
mm	mm	mm	mm	mm	Kg
7/8	118	19	25	31	0.82
10.0	139	26	31	43	1.4
13.0	174	33	39	53	2.85
16.0	208	48	48	64	6.1
18/20	319	49	71	80	7.5

3. Grab hooks for chain sizes 7mm to 20mm



Eye Type Grab Hook

Chain Size	A	B	C	D	H	I	Mass
mm	mm	mm	mm	mm	mm	mm	Kg
7.0	57	10.5	9	60	23	21	0.2
10.0	71	13	13	72	31	24	0.6
13.0	90	17	16	88	37.5	30	1.1
16.0	104	19	19	102	44	39	1.9
20.0	125	23	22	124	51	46	3.3