



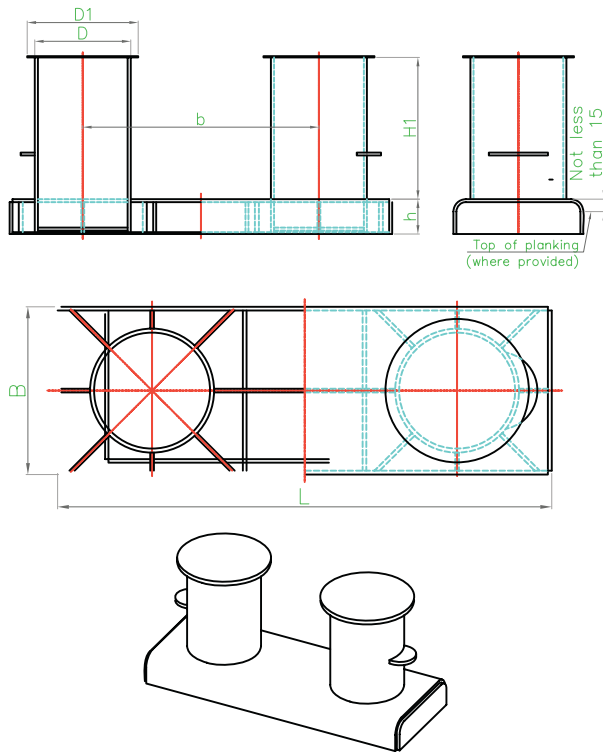
MORDEC™ HULL FITTINGS

MORDEC designs & manufactures top quality Hull Fittings, Towing & Mooring Gears and Buoy Systems for shallow to deep sea moor or bottom mounted instrument structures. Most Hull Fittings produce in accordance to JIS & OCIMF Standards inclusive of test & third party certification upon requests.



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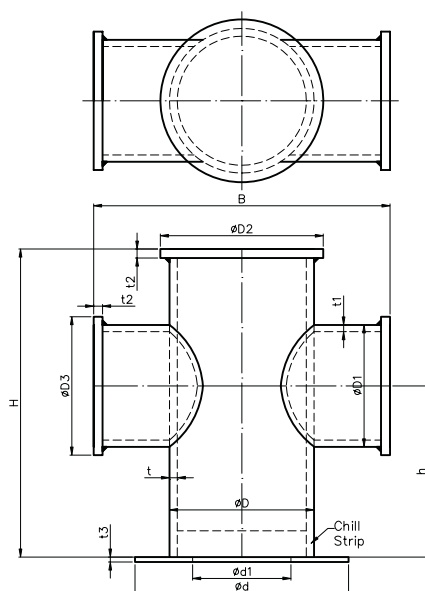
MDK-M2001 Double Bitt Bollards



Nominal diameter	Post				Bedplate		
	D	D1	H1	b	B	L	Min. h
100	114.3	145	150	250	165	445	50
125	139.8	180	190	315	195	540	60
160	165.2	210	250	400	225	670	70
200	216.3	270	300	500	290	860	85
250	267.4	330	380	630	360	1065	100
315	318.5	385	480	800	430	1300	125
355	355.6	425	530	890	480	1475	145
400	406.4	485	600	1000	550	1630	160
450	457.2	550	680	1130	620	1840	170
500	508.0	610	750	1250	690	2040	190
560	558.8	670	830	1380	750	2240	210
630	609.6	730	940	1570	820	2510	225
710	711.2	840	1050	1750	960	2840	260
800	812.8	940	1200	2000	1100	3240	295

HULL
FITTINGS

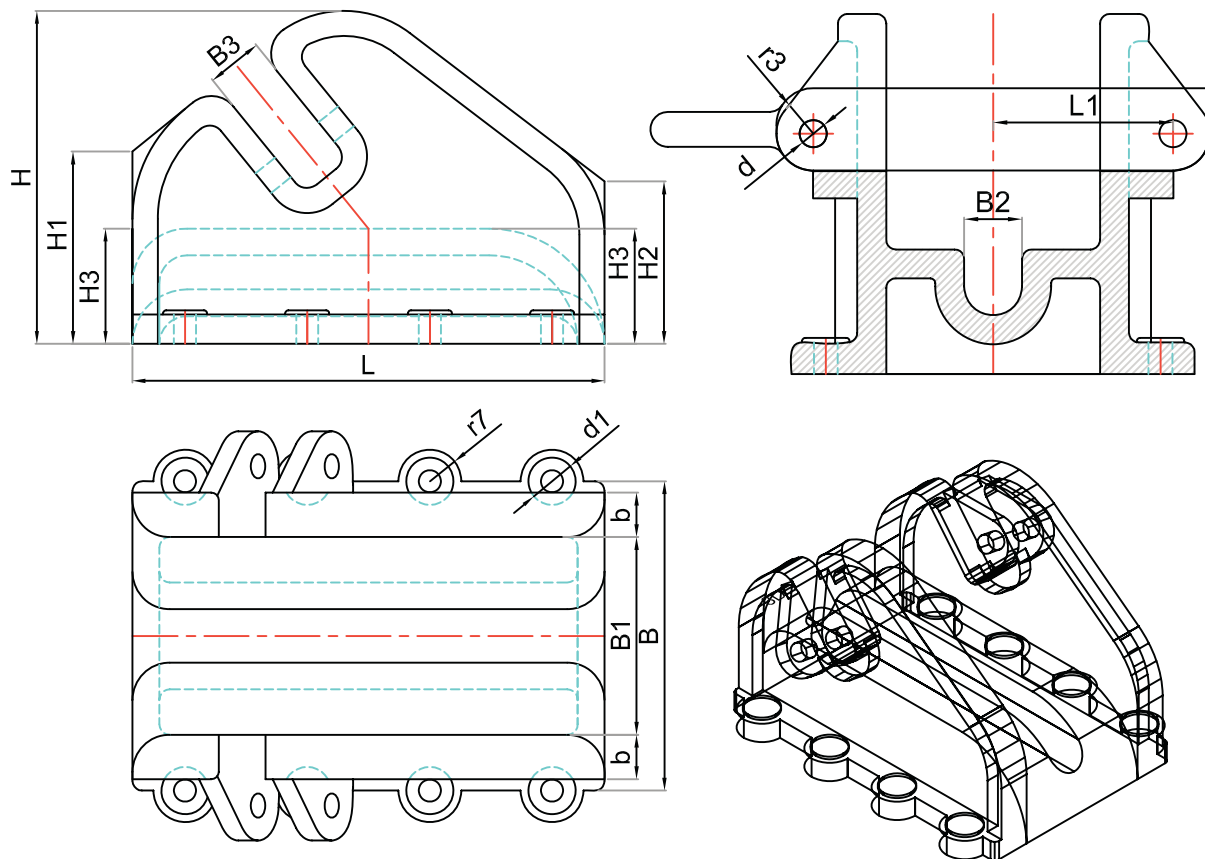
Cruciform Bollard



Nominal Diameter	H	h	B	D	D1	D2	d	d1	t	t1	Wire Rope	Chill Strip
150	480	280	460	168	141	206	240	120	11	9	16	25 X 4.5
200	560	320	520	219	168	256	280	140	12	11	22	25 X 4.5
250	640	360	610	273	219	308	340	170	15	13	28	25 X 4.5
300	680	380	660	323	273	360	400	200	17	15	34	25 X 4.5
350	720	420	720	355	273	400	440	240	19	15	38	25 X 4.5
400	760	460	760	406	355	440	500	280	21	17	42	25 X 4.5

MORDEC™ HULL FITTINGS

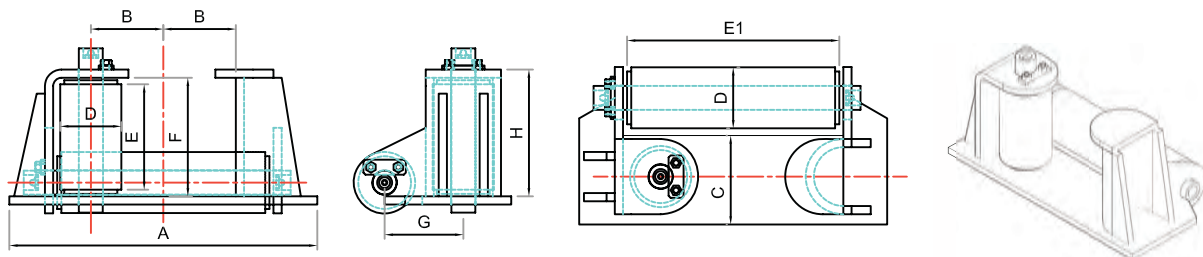
MDK-M2002 Cast Iron Bar Type Chain Stopper



Cable Dia.	Body														
	B	B1	B3	H	H1	H2	H3	L	b	d	d1	L1	r3	r7	B2
17 - 19	195	112	38	190	107	85	62	270	29	14	42	100	20	28	29
20 - 22	215	129	40	216	121	100	72	310	32	16	42	113	23	28	33
23 - 25	240	147	43	241	136	112	82	345	36	18	42	128	26	28	38
26 - 28	265	163	46	270	153	125	92	385	39	20	49	140	28	32	43
30 - 32	305	186	52	305	174	145	104	435	44	23	56	160	32	37	49
34 - 36	340	208	58	342	194	162	118	490	48	26	63	177	36	41	55
38 - 40	370	230	64	378	215	180	130	540	53	29	63	195	39	41	61
42 - 44	405	252	70	412	235	200	142	590	57	31	70	212	43	46	66
46 - 48	440	273	77	450	269	218	155	640	62	34	77	231	47	51	72
50 - 52	470	294	83	491	282	235	170	695	67	37	70	248	50	46	78
54 - 56	495	315	90	522	299	255	182	745	71	39	77	265	54	51	84
58 - 60	530	336	96	564	327	275	195	795	76	42	84	283	58	55	90
62 - 64	565	357	101	600	346	290	208	850	80	45	90	300	61	60	96
66 - 68	590	377	107	635	367	310	220	900	85	48	90	317	65	60	102

MORDEC™ HULL FITTINGS

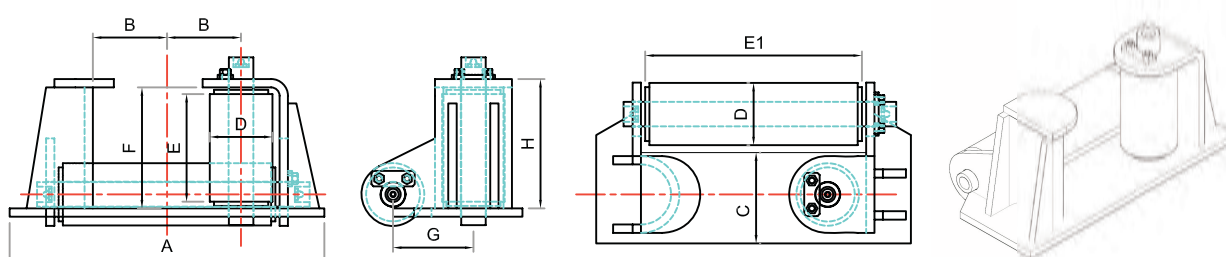
MDK-M2004 Steel Plate Deck End Rollers



Type B1

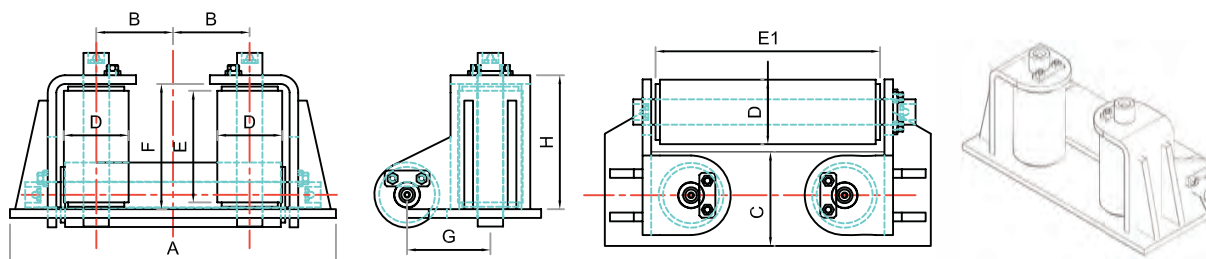
Nominal Size	A	B	C	D	E	E1	F	G	H
340	340	80	97.5	76.3	134	244	140	90	152
450	450	106	129	101	177	323	185	119	201
600	600	141	172	135	236	431	247	159	268
750	750	176	215	168	296	538	309	199	335

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Type B2

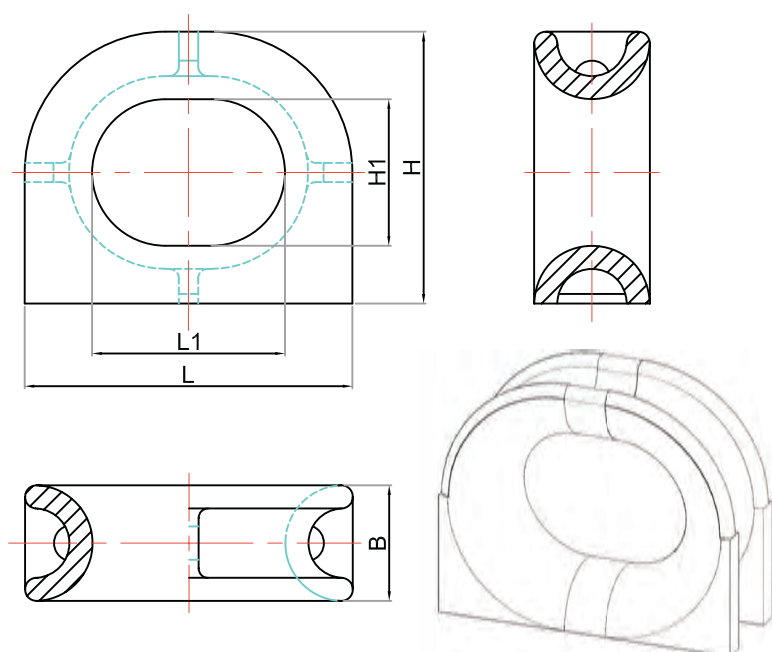
Nominal Size	A	B	C	D	E	E1	F	G	H
340	340	80	97.5	76.3	134	244	140	90	152
450	450	106	129	101	177	323	185	119	201
600	600	141	172	135	236	431	247	159	268
750	750	176	215	168	296	538	309	199	335



Three Rollers

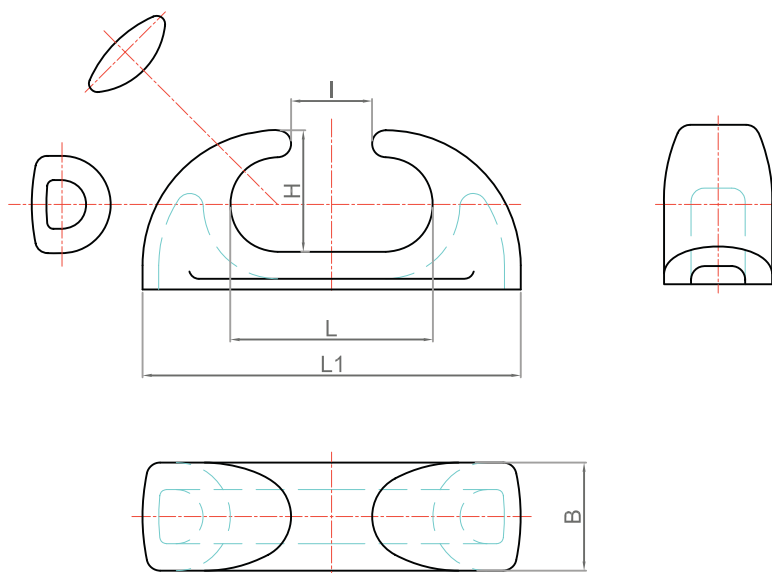
Nominal Size	A	B	C	D	E	E1	F	G	H
340	340	80	97.5	76.3	134	244	140	90	152
450	450	106	129	101	177	323	185	119	201
600	600	141	172	135	236	431	247	159	268
750	750	176	215	168	296	538	309	199	335

MDK-M2005 Closed Chock



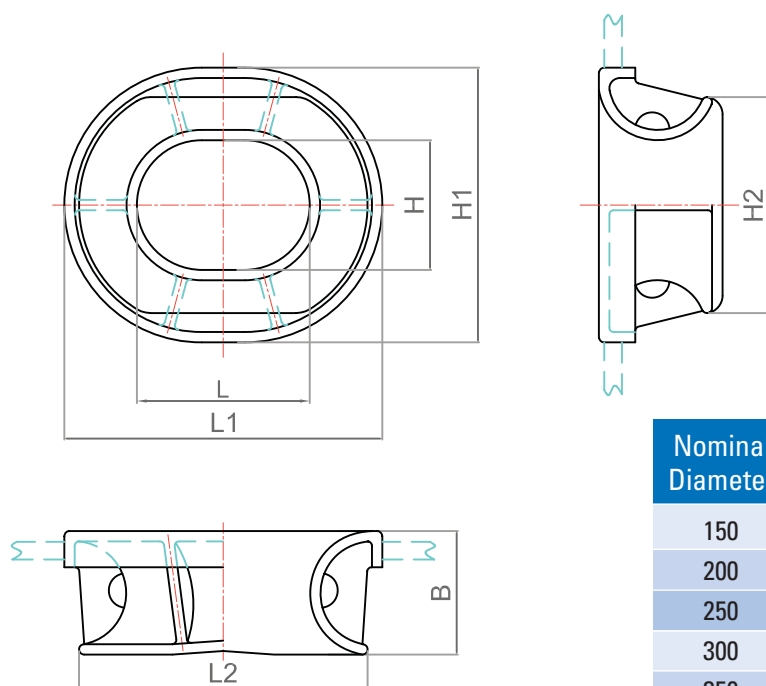
Nominal Size.	B	H	H1	L	L1
100	60	141	76	170	100
150	90	205	110	250	150
200	120	150	280	340	200
250	160	372	200	434	250
300	200	464	250	528	300
350	220	485	250	600	350
400	240	506	250	672	400
450	260	528	250	746	450
500	280	550	250	820	500

MDK-M2006 Open Chock



Nominal Diameter	L	L1	I	H	B
150	150	280	60	90	80
200	200	380	84	116	110
250	250	460	114	136	130
300	300	540	140	160	150
350	350	620	170	180	170
400	400	700	200	200	200

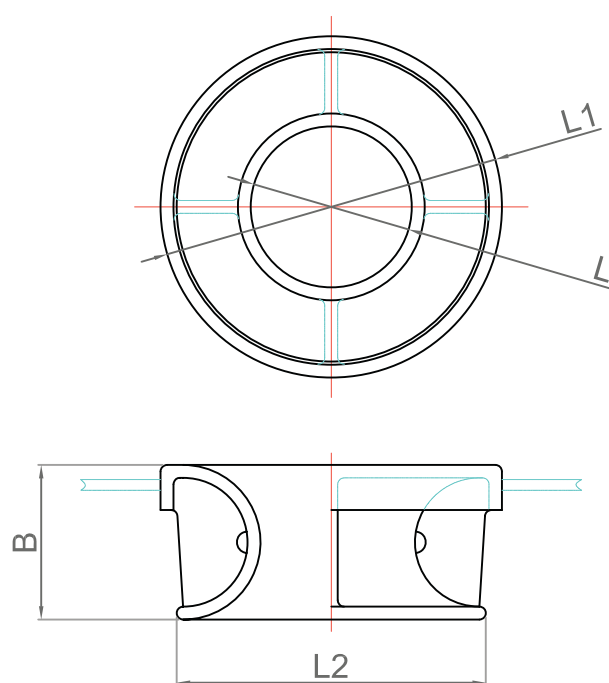
MDK-M2007 Mooring Pipe (Type A)



Nominal Diameter	L	L1	L2	H	H1	H2	B
150	150	300	270	110	260	202	129
200	200	368	334	150	318	250	143
250	250	430	394	200	380	308	155
300	300	500	460	250	450	372	169
350	350	560	518	250	460	378	179
400	400	632	586	250	482	394	195
450	450	700	650	250	500	406	209
500	500	760	708	250	510	412	219

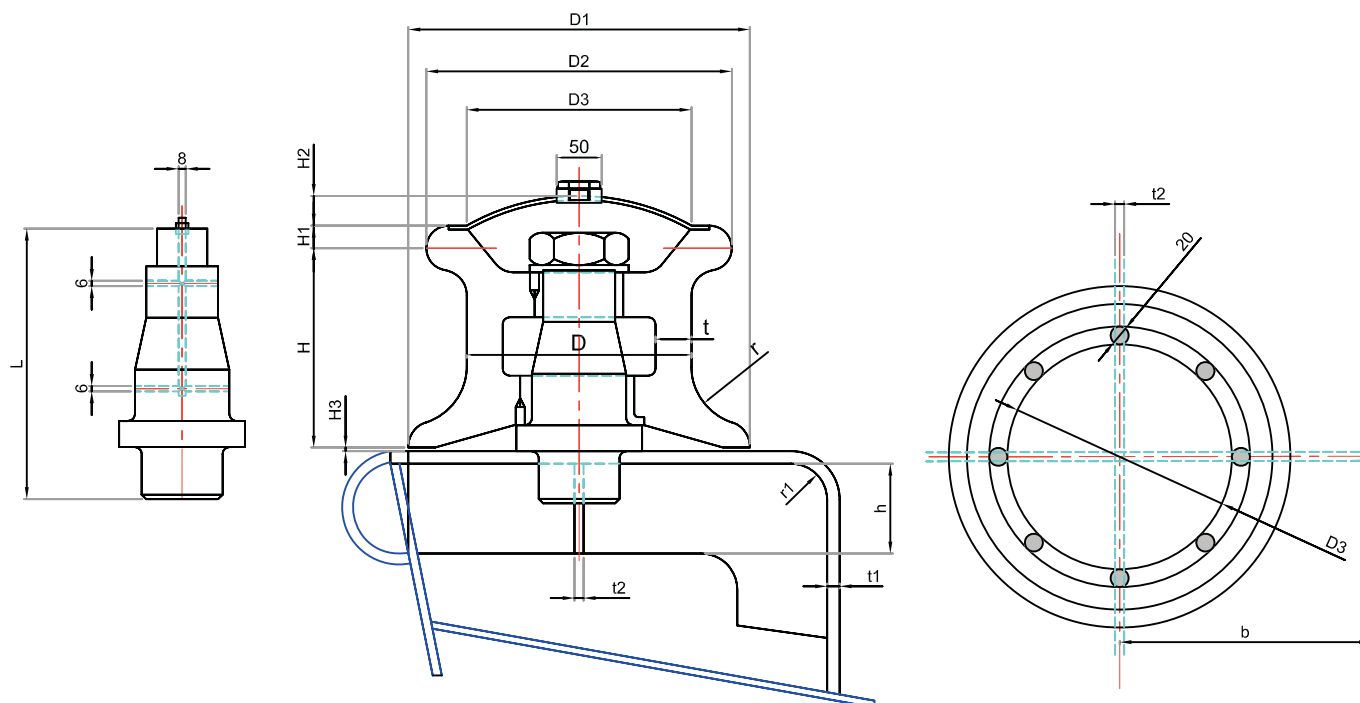
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MDK-M2007 Mooring Pipe (Type B)



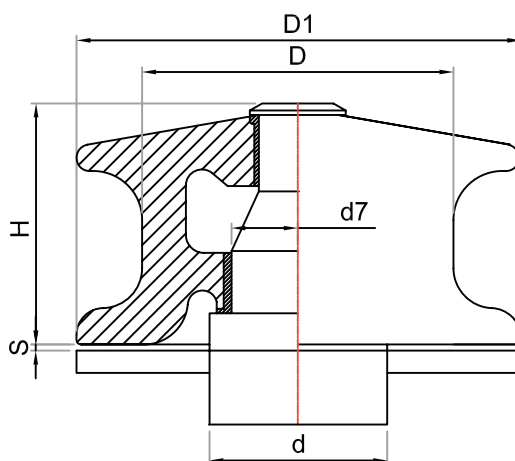
Nominal Diameter	L	L1	L2	B
150	150	318	288	144
200	200	380	346	155
250	250	450	414	169
300	300	510	470	179

MDK-M2014 Fairlead Roller (Open Type)



Nominal Diameter	Roller									Base				Cover & Axle	
	D	D1	D2	D3	H	H1	H3	t	r	b	h	t1	r1	H2	L
150	150	240	220	140	150	20	3	30	45	190	75	12	40	25	206
200	200	310	280	190	185	24	3	35	55	230	85	14	40	26	254
250	250	380	340	250	220	29	4	40	65	265	100	14	40	33	301
300	300	440	400	300	240	30	4	45	75	320	100	16	60	35	331
350	350	500	455	350	260	33	4	50	85	350	100	18	60	37	359
400	400	560	520	410	280	36	5	55	95	380	100	20	60	39	391

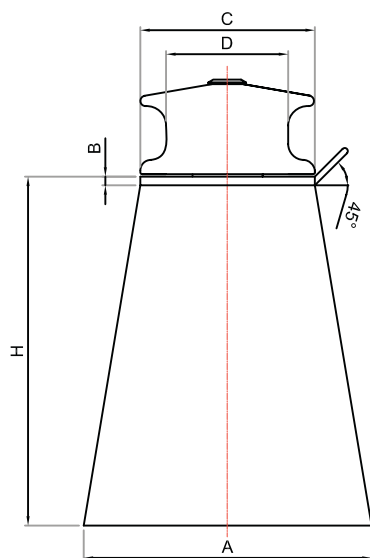
MDK-M2014 Fairlead Rollers (EU Type)



Nominal Size	D	D1	d	d7	H	S	Mass KG	Breaking Load Ton	Dia. Of Mooring Line Reference			
									Wire Rope		P.P. Rope	Hemp Rope
									6X24	6X37		
150	240	90	79	154	5	25	25	13	17	15	32	45
200	310	115	99	186	5	50	50	21	22	20	40	55
250	380	135	119	230	6	92	92	28	24	24	45	65
300	440	155	129	255	7	127	127	42	30	28	50	70
350	500	175	149	271	7	168	168	51	38	34	55	75
400	550	195	159	307	7	252	252	74	42	40	65	80
450	630	210	179	316	7	310	310	90	44	42	80	-

HULL
FITTINGS

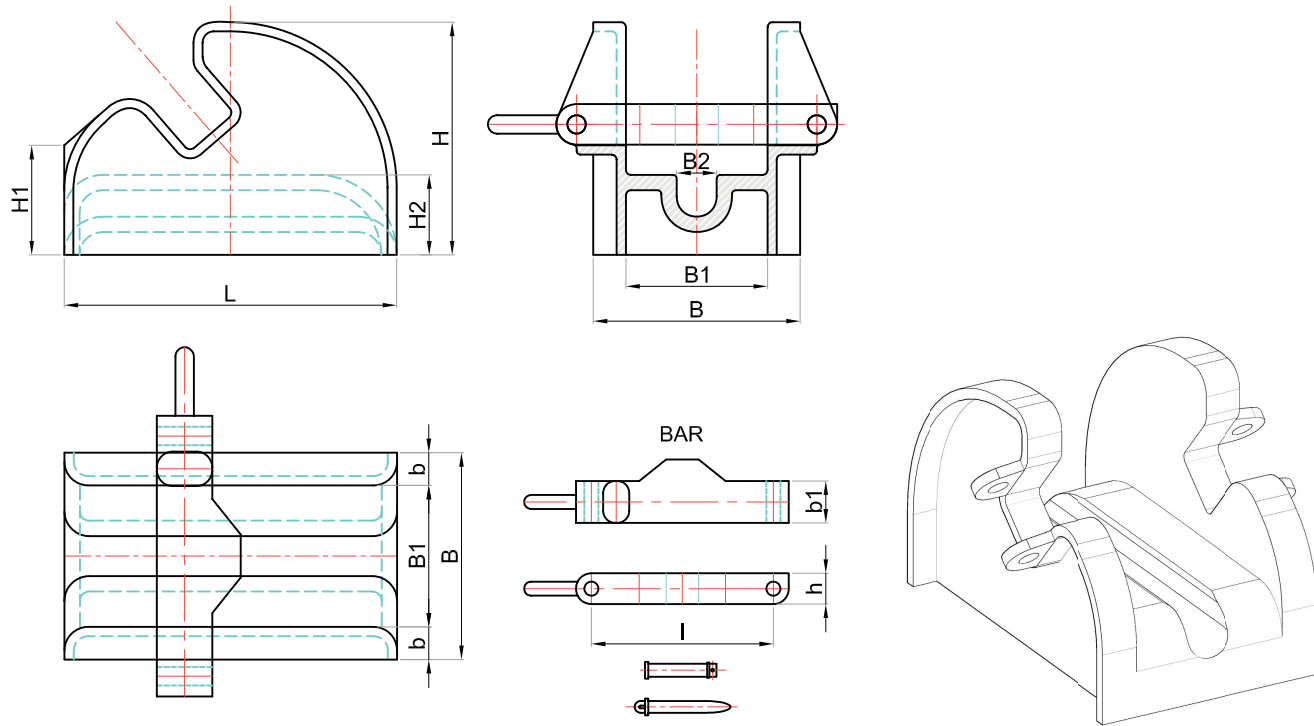
MDK-M2014 Fairlead Rollers (EU Type) With Conical Base



Roller Dia. D	A	B	C	H
350	825	25	500	1000
400	1020	35	560	1000
450	1020	35	630	1000
500	1120	40	710	1000
560	1180	40	800	1000

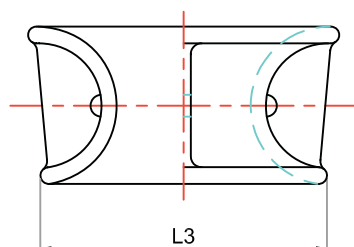
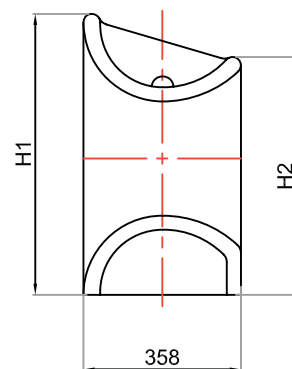
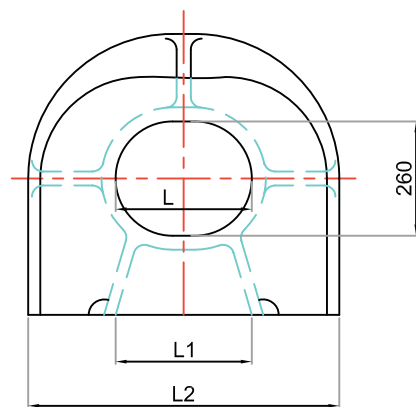
MORDEC™ HULL FITTINGS

MDK-M2015 Cast Steel Bar Type Chain Stopper



Nominal No.	Body								Bar		
	B	B1	B2	H	H1	H2	b	L	l	h	b1
40	336	230	96	378	178	130	53	540	390	66	90
44	366	252	106	412	192	142	57	590	424	66	100
48	397	273	118	450	213	155	62	640	460	66	110
52	428	294	126	491	232	170	67	695	494	68	118
56	457	315	134	528	250	182	71	745	530	70	125
60	488	336	142	564	270	195	76	795	564	76	132
64	517	357	150	600	280	208	80	850	600	80	140
68	547	377	160	635	296	220	85	900	636	84	150
73	582	402	170	675	317	233	90	960	678	90	160
78	617	427	180	715	338	245	95	1020	720	96	170

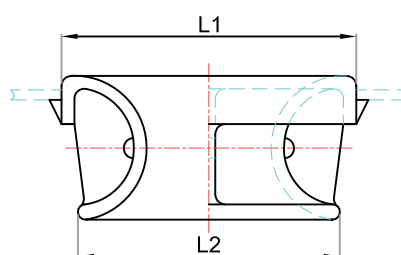
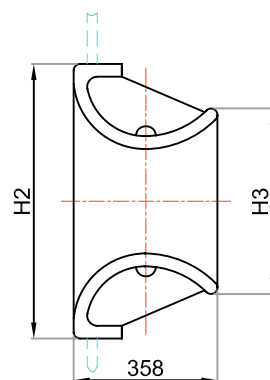
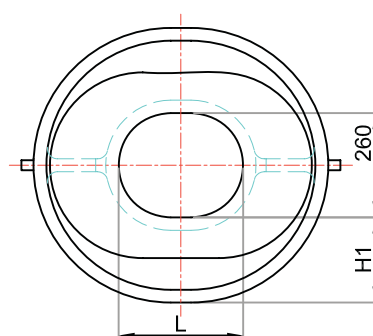
MDK-M2017 Panama Chock (Type AC)



Nominal Size	L	L1	L2	L3	H1	H2
310	310	310	708	652	639	541
360	360	360	760	704	640	542
400	400	400	804	750	642	545
450	450	450	856	802	643	547
500	500	500	908	854	644	549

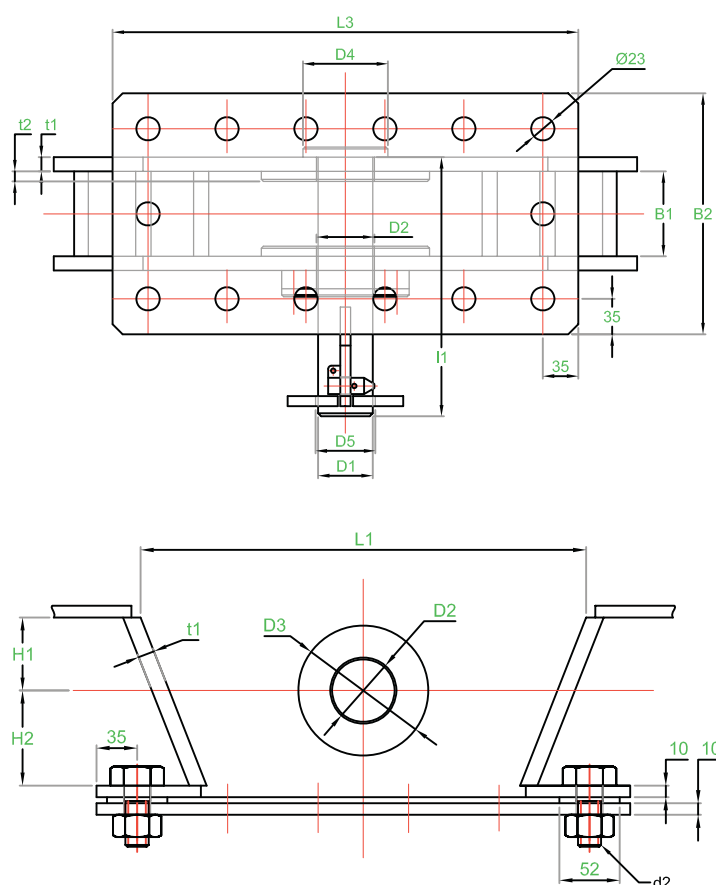
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MDK-M2017 Panama Chock (Type BC)



Nominal Size	L	L1	L2	H1	H2	H3
310	310	734	652	212	684	462
360	360	788	704	214	688	464
400	400	832	750	216	692	470
450	450	886	802	218	696	474
500	500	940	854	220	700	478

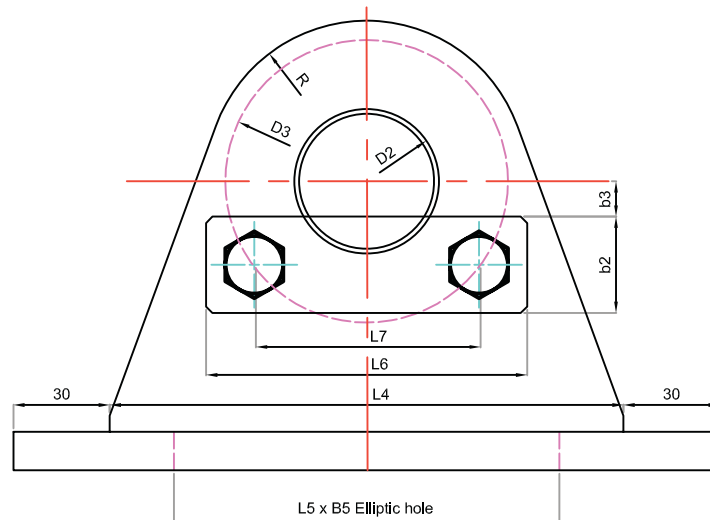
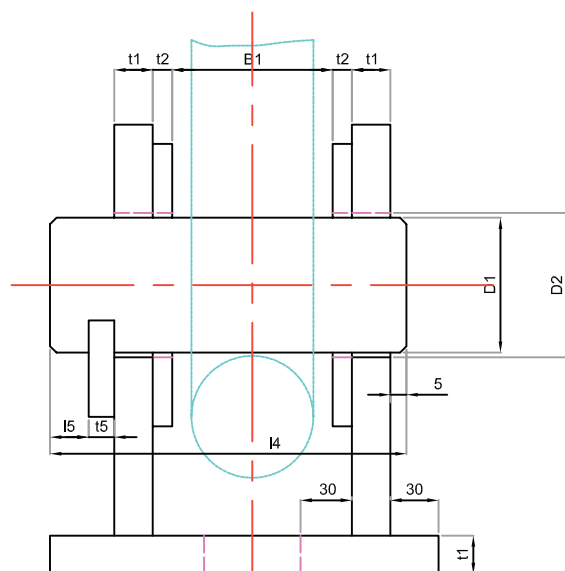
MDK-M2025 Chain Clench for Chain Locker



Nominal No.	Nominal dia. of applicable chain	Body and cover												Stopper and Pin			Size of screw	Calculated mass
		L1	L3	B1	B2	H1	H2	D2	D3	D4	t1	t2	D5	D1	I1	d2	kg	
52	50-52	384	460	64	238	63	82	57	112	84	14	10	59	54	256	M10	40.5	
56	54-56	420	486	68	246	69	88	61	120	88	14	12	63	58	272	M10	48.0	
60	58-60	448	504	72	254	74	94	65	128	92	14	14	67	62	288	M10	53.9	
64	62-64	478	524	78	264	80	80	69	136	96	14	16	71	66	308	M10	60.0	
68	66-68	504	542	82	272	84	84	73	144	100	16	16	75	70	322	M10	70.8	
73	70-73	540	570	88	282	87	87	78	154	104	16	18	80	75	348	M12	81.4	
78	76-78	576	594	94	292	95	95	83	164	109	16	22	85	80	368	M12	92.8	
84	81-84	624	628	100	302	102	102	88	174	115	16	22	90	85	388	M12	106	
90	87-90	670	660	106	316	110	110	93	184	120	18	22	95	90	414	M12	128	
95	92-95	708	686	112	330	118	118	98	194	125	18	22	100	95	442	M12	146	
102	98-102	762	724	120	346	128	128	103	206	131	22	28	105	102	478	M16	188	
111	105-111	828	770	130	364	139	139	113	224	140	24	28	115	111	512	M16	231	
120	114-120	892	810	140	386	150	150	123	242	148	24	28	125	120	556	M16	274	

MORDEC™ HULL FITTINGS

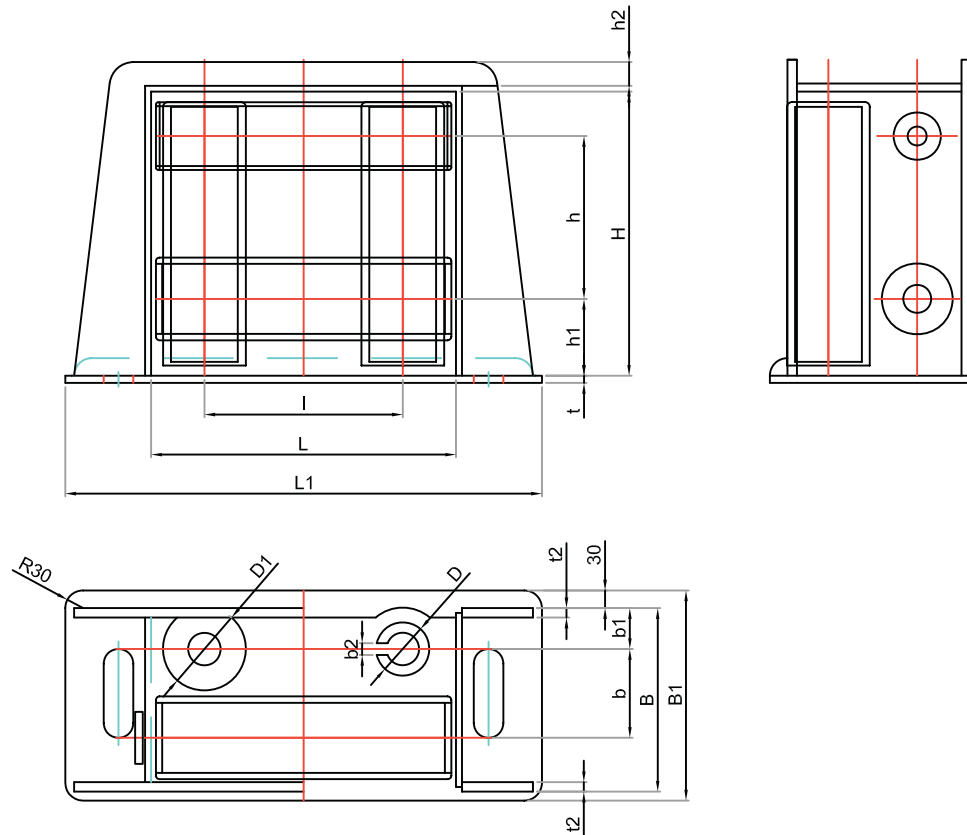
MDK-M2025 Chain Clenches (Type B)



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Nominal No.	Nominal dia. of applicable chain	Body										Pin			Check piece for pin						Calculated mass (kg)
		L4	L5	B1	B5	H4	D2	D3	R	t1	t2	D1	I4	I5	L6	L7	b2	b3	t5	t6	
40	38-40	160	0	50	0	78	45	88	50	12	6	42	111	12	100	70	30	11	8	14	5.9
44	42-44	180	0	54	0	85	49	96	54	14	6	46	119	12	100	70	30	13	8	14	8.0
48	46-48	195	0	58	0	92	53	104	59	14	8	50	127	12	100	70	30	15	8	14	9.8
52	50-52	210	100	64	24	100	57	112	65	14	10	54	137	12	100	70	30	17	8	14	11.1
56	54-56	225	115	68	32	106	61	120	71	14	12	58	145	12	100	70	30	19	8	14	14.0
60	58-60	240	130	72	40	114	65	128	75	14	14	62	153	12	100	70	30	21	8	14	16.0
64	62-64	255	145	78	50	122	69	136	79	14	16	66	168	15	130	90	40	18	10	18	18.1
68	66-68	270	150	82	54	130	73	144	85	16	16	70	176	15	130	90	40	20	10	18	23.1
73	70-73	290	170	88	64	138	78	154	90	16	18	75	186	15	130	90	40	22	10	18	26.5
78	76-78	310	190	94	74	148	83	164	95	16	20	80	196	15	130	90	40	25	10	18	30.8
84	81-84	330	210	100	84	158	88	174	100	16	22	85	206	15	130	90	40	28	10	18	35.3
90	87-90	350	230	106	94	170	93	184	107	18	24	90	220	15	130	90	40	30	10	18	42.8
95	92-95	380	250	112	108	180	98	194	112	18	28	95	234	15	130	90	40	33	10	18	50.7
102	98-102	410	270	120	116	192	103	206	120	22	28	100	255	18	180	130	50	31	12	22	66.8
111	105-111	440	300	130	130	208	113	224	131	24	30	110	273	18	180	130	50	35	12	22	84.0
120	114-120	470	330	140	152	224	123	242	140	24	36	120	295	18	180	130	50	39	12	22	102.0

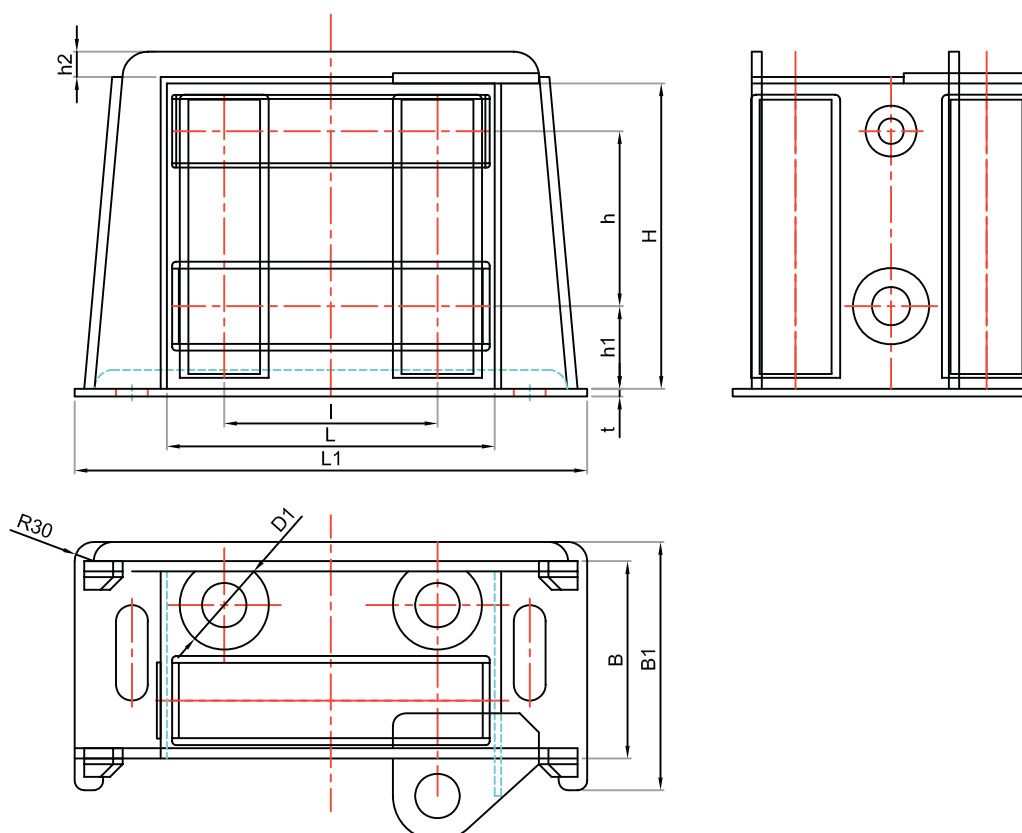
MDK-M2026 Fairleads With Horizontal Rollers (Type A)



Nominal Diameter	B	B1	b	b1	b2	D	D1	H	h	h1	h2	L	L1	l	t	t2
140	310	355	150	69	20	90	140	480	275	130	40	515	805	335	12	16
160	360	405	175	82	22	110	160	515	290	145	45	570	890	365	14	18
180	410	455	200	95	24	135	180	560	315	155	50	620	960	390	16	20
200	460	505	225	108	26	160	200	590	330	170	60	675	1049	420	18	22
260	565	610	280	133	30	200	250	715	415	195	75	825	1303	520	20	26
315	670	715	330	159	34	240	300	870	520	220	90	980	1562	620	22	30

MORDEC™ HULL FITTINGS

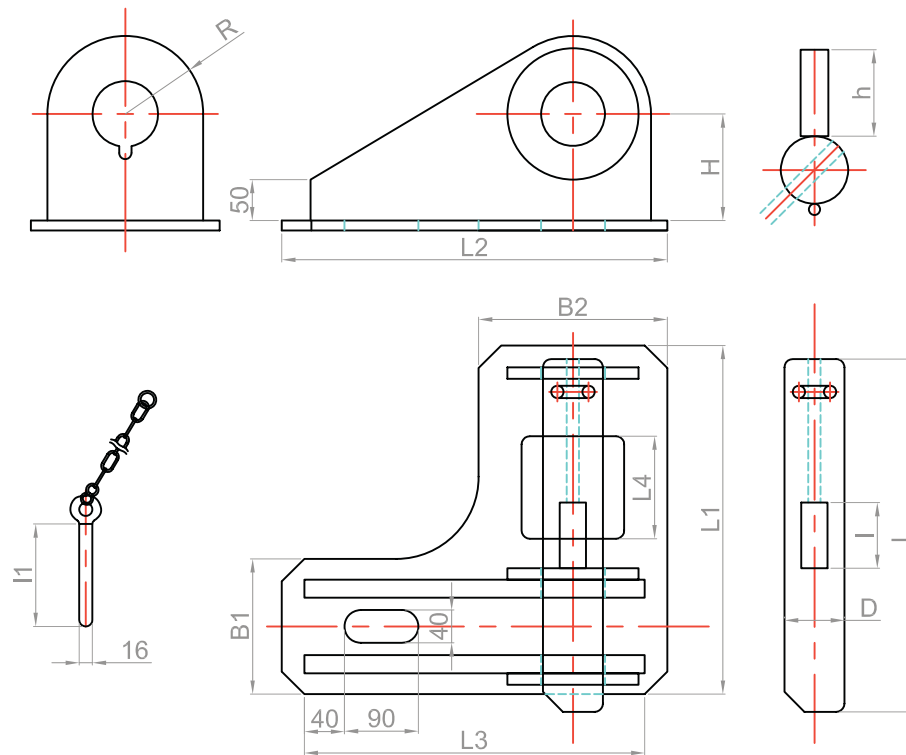
MDK-M2026 Universal Horizontal Rollers (Type BR & BL)



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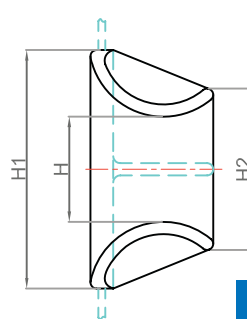
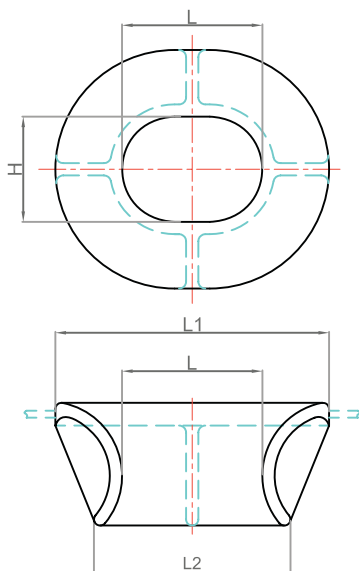
Nominal Dia.	B	B1	D1	H	h	h1	h2	L	L1	I	t	Open Size	Wire Rope Dia	SWL Ton	Mass kg
140	310	355	140	480	275	130	40	515	805	335	12	175X195	18	12	235
160	360	405	160	515	290	145	45	570	890	365	14	175X205	22.4	14	353
180	410	455	180	560	315	155	50	620	960	390	16	190X210	25	16	496
200	460	505	200	590	330	170	60	675	1049	420	18	195X220	28	25	648
260	565	610	250	715	415	195	75	825	1303	520	20	250X270	35	38	1176
315	670	715	300	870	520	220	90	980	1562	620	22	320X320	42	45	2050

MDK-M2029 Fabricated Smit Brackets



Nominal No.	Base Plate					Main Eye Frame			Pin				
	L1	L2	L4	B1	B2	L3	H	R	L	I	D	H	I1
52	425	470	95	165	230	415	130	95	430	80	73	100	125
56	450	500	100	180	250	450	140	100	455		78	110	130
60	475	540	115	195	260	480	150	105	475		84	120	140
64	500	580	120	205	270	510	160	110	505		90	130	145
68	530	610	125	220	300	545	170	120	525		95	140	155
73	550	660	130	230	310	585	180	130	550		103	150	165
78	600	700	140	260	340	625	195	135	590		110	160	175
84	620	760	150	270	360	670	210	145	615		120	170	185
90	695	810	160	295	390	720	225	160	685	100	130	180	200
95	725	860	170	305	410	760	235	170	720		135	190	205
102	765	920	185	330	440	815	255	180	745		145	205	220
111	805	1000	200	350	470	890	275	190	790		155	220	230
120	850	1080	220	370	510	960	300	205	845		170	240	250
132	900	1200	240	390	560	1050	330	225	895		185	260	270

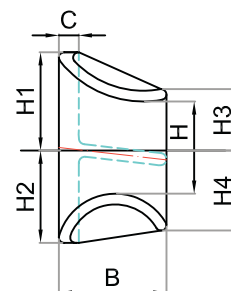
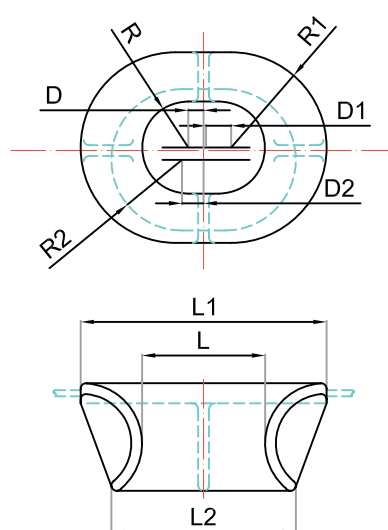
MDK-M2030 Single Point Mooring Pipe (Type A)



Nominal Size	L	L1	L2	H	H1	H2
400	400	780	570	300	680	460
500	500	940	690	400	840	580
600	600	1100	810	450	950	655
700	700	1260	930	500	1060	730
800	800	1420	1050	600	1220	850

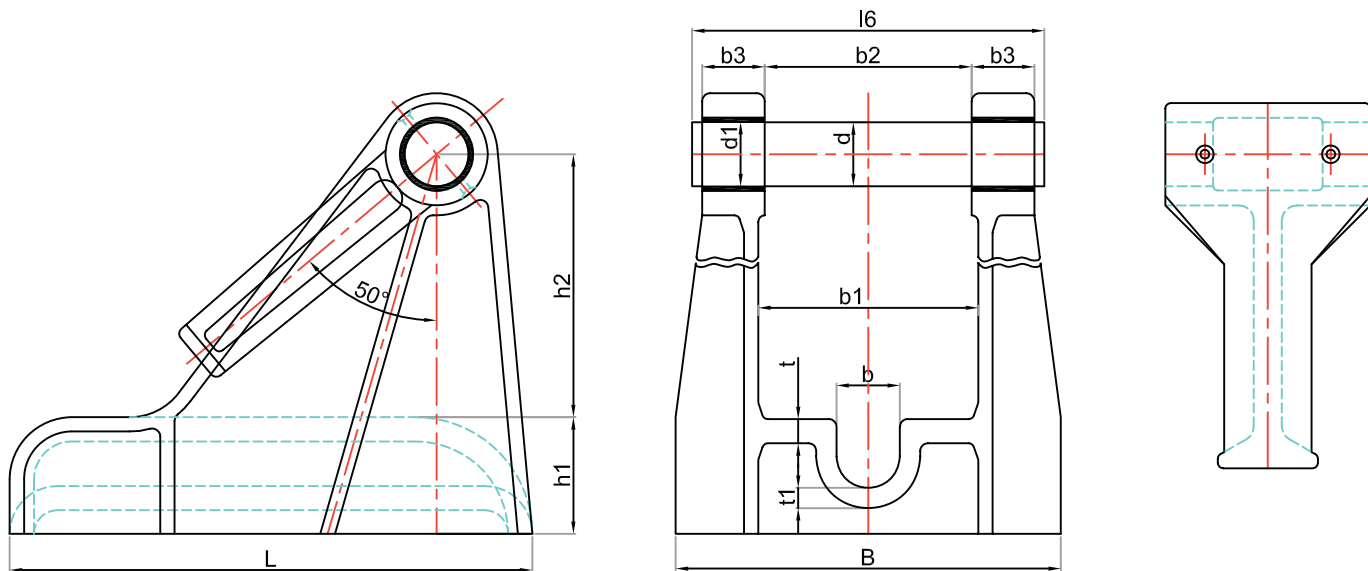
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MDK-M2030 Single Point Mooring Pipe (Type B)



Nominal Size	L	L1	L2	H	H1	H2	H4	B	R	R1	R2	C	D	D1	D2
400	400	800	600	300	320	300	260	350	150	310	230	65	50	90	70
500	500	960	720	400	370	350	310	400	200	360	280	70	50	120	80
600	600	1120	840	450	420	400	360	450	225	410	330	75	75	150	90
700	700	1280	960	500	470	450	410	500	250	460	380	80	100	180	100
800	800	1440	1080	600	520	500	460	550	300	510	430	85	100	210	110

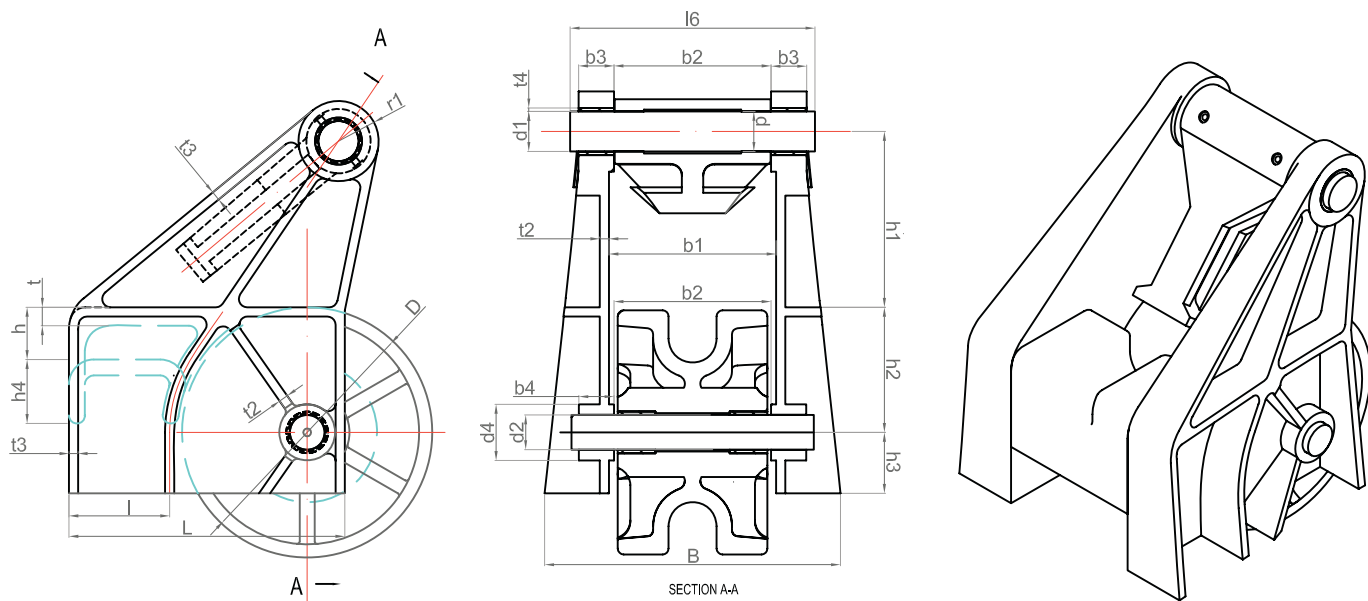
MDK-M2031 Cast Steel Pawl Type Chain Stopper (Grade 3)



Nominal No.	B	b	b1	b2	b3	L	h1	h2	t	t1	d1	d	l6	Mass kg
60	600	89	334	314	96	780	182	394	36	30	97	96	540	495
64	630	95	354	334	102	835	191	421	38	32	103	102	570	582
68	660	101	374	352	108	885	200	446	41	34	109	108	600	701
73	700	115	400	376	114	950	212	478	44	37	117	116	640	846
78	750	123	425	399	121	1015	222	511	47	39	124	123	680	1014
84	800	134	454	426	130	1095	235	550	50	42	132	131	720	1268
90	850	143	484	454	139	1170	248	588	54	45	140	139	770	1498
95	900	151	508	476	146	1235	260	620	57	48	147	146	810	1769
102	950	161	540	506	155	1350	276	665	61	51	157	156	860	2277
107	1000	170	569	533	162	1400	289	703	65	54	164	163	900	2664
114	1050	180	598	560	171	1480	302	742	68	57	173	172	940	3054
122	1120	191	630	592	182	1585	318	790	73	61	183	182	995	3660

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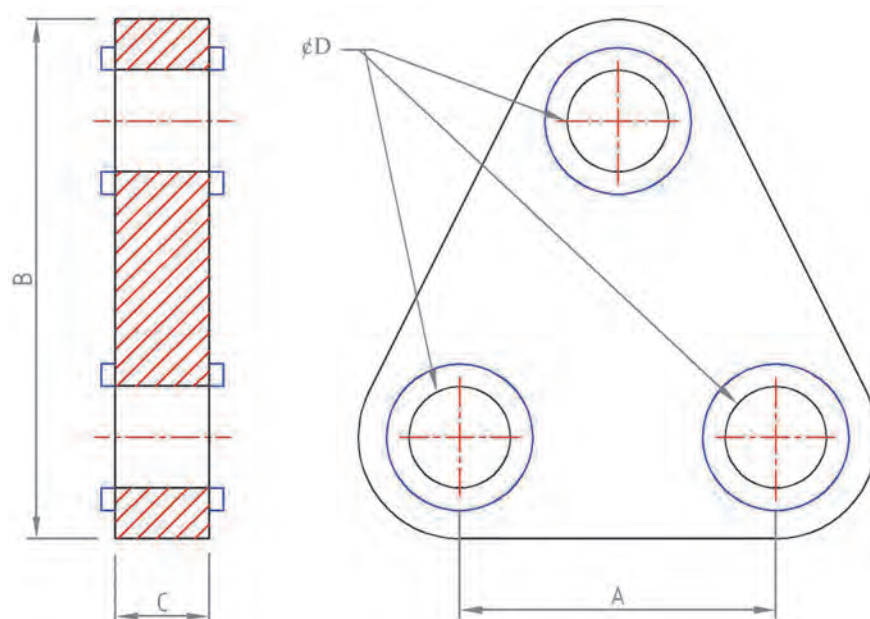
MDK-M2032 Rolled Pawl Type Chain Stopper



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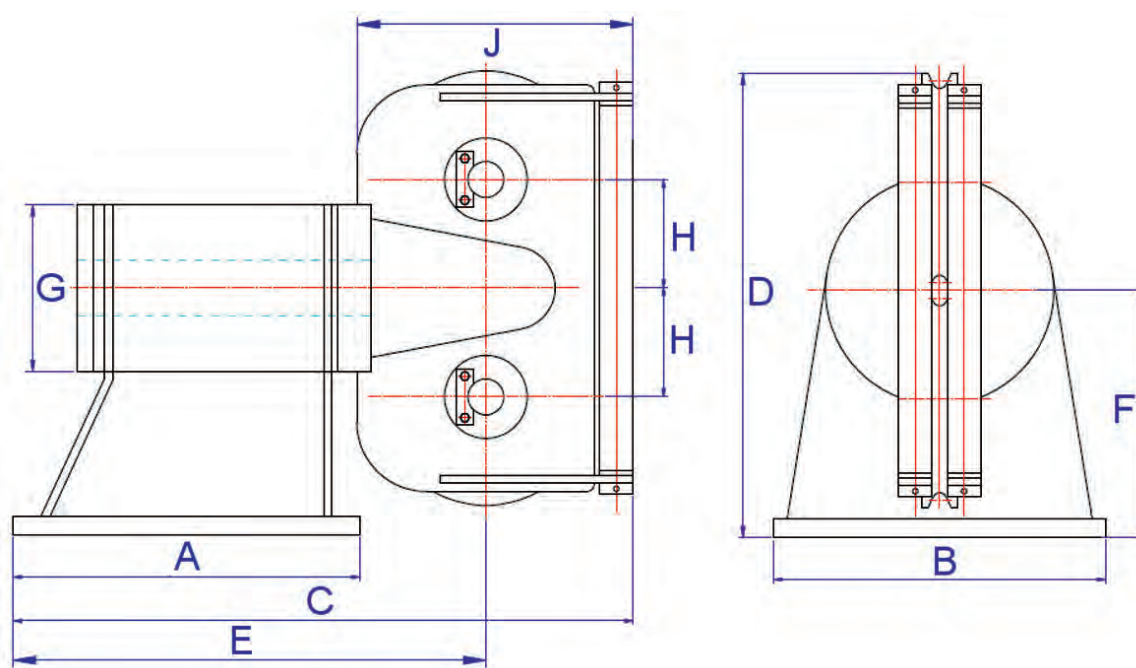
Nominal No.	Side Frame of Body																		Roller	Axle (u)		Axle	Bush	
	B	b1	b2	b3	b4	L	I	I3	d4	h	h1	h2	h3	h4	R1	t	t2	t3	D	d	I6	d2	t4	d1
73	798	400	376	85	72	660	241	75	134	125	405	292	146	153	96	44	22	584	96	586	83	8	97	
78	858	425	399	90	77	700	254	79	142	133	433	312	156	164	101	47	23	624	102	619	88	8	103	
84	918	454	426	97	84	760	279	85	153	143	466	336	164	176	107	50	25	672	110	660	95	8	111	
90	988	484	454	105	91	810	295	90	165	153	498	360	180	189	112	54	27	720	116	704	102	8	117	
95	1035	508	476	110	97	860	317	94	172	162	525	380	190	200	119	57	28	760	122	735	107	10	123	
102	1104	540	506	118	105	920	337	100	185	175	563	408	204	214	126	61	30	816	130	782	115	10	131	
107	1173	569	533	125	113	981	364	105	197	185	595	432	216	226	131	65	32	864	136	823	122	10	137	
114	1239	598	560	133	120	1026	376	110	208	195	628	456	228	240	136	68	34	912	143	866	129	10	144	
120	1305	626	586	140	126	1080	395	115	217	205	660	480	243	252	142	72	35	960	150	906	135	10	151	

MDK-M2070 Triangle Delta Plate



Ø D (mm)	A (mm)	B (mm)	C (mm)	Tension Proof load	Weight
22	53	113	18	64	1
25	59	133	22	93	1, 8
28	65	151	28	128	12, 8
32	71	165	30	167	3, 6
35	79	189	35	186	5
40	85	196	35	235	6, 4
40	96	223	45	265	8, 2
45	104	231	45	334	11
55	120	275	60	491	20, 4
60	132	311	75	687	38, 4
70	150	329	80	834	40
75	165	370	90	1079	57
85	185	421	110	1668	83
100	220	502	130	2354	163
110	234	556	135	2943	200

MDK-M2081 Anchor Fairleader

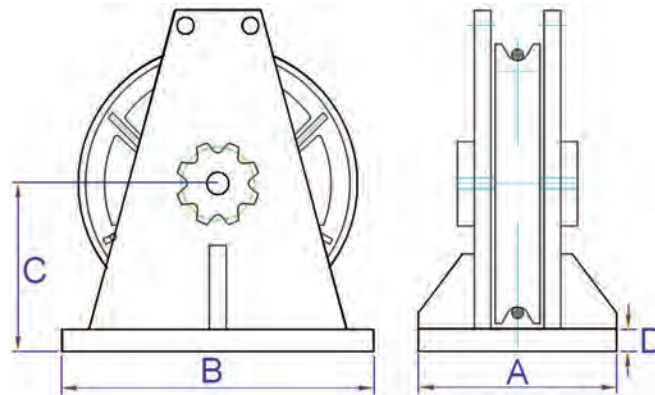


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Model No.	Rope Dia mm	Weight kg	Main Dimensions (mm)								
			A	B	C	D	E	F	G	H	J
MEP-25	25	380	470	470	725	540	555	305	320	127	305
MEP-32	32	500	620	620	920	655	720	385	360	156	370
MEP-38	38	1800	720	1000	1288	942	955	540	460	222	333
MEP-44	44	2100	1000	1000	1600	1060	1200	605	508	260	580
MEP-50	50	2850	1250	1120	1786	1308	1445	700	560	306	666
MEP-64	64	4200	1270	1270	2250	1560	1750	795	700	383	1000

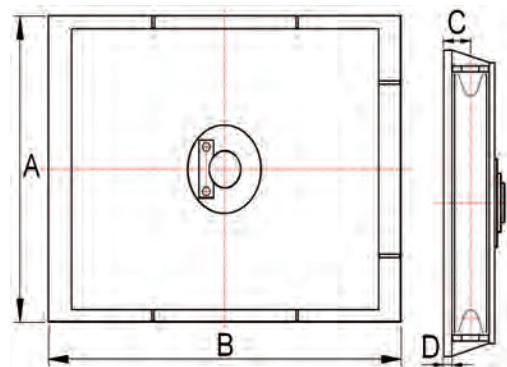
MORDEC™ HULL FITTINGS

MDK-M2082 Vertical Lead Sheave



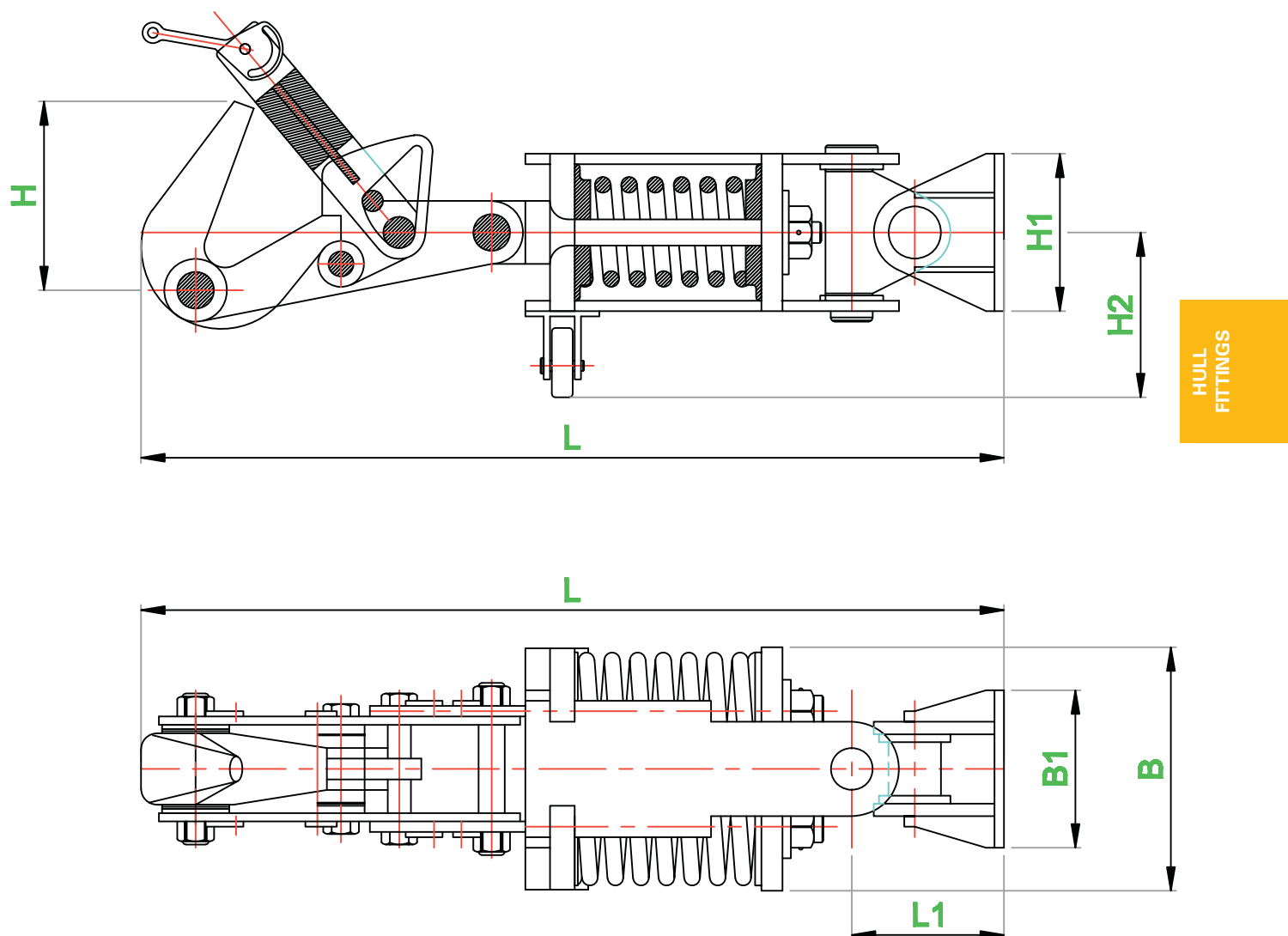
Sheave Size	A	B	C	D	Pin Size Dia.	Approx Tread Dia.	Suggested Wire Line Size Dia.	Avail Wire Line Size	
								Min. Dia.	Max. Dia.
18	12	20	11	1.5	4.25	14.69	1.00	1.00	1.00
24	15	26	14	1.5	4.25	20.19	1.25	1.00	1.25
26	16	28	15	1.5	4.25	23.50	1.50	1.00	1.50
34	20	36	19.5	2	6.50	30.50	1.75	1.50	1.75
40	23	42	22.5	2	8.00	35.63	2.00	1.25	2.00
42	28	52	25.5	2.5	11.03	35.50	2.50	2.50	2.50

MDK-M2083 Horizontal Lead Sheave



Sheave Size	A	B	C	D	Pin Size Dia.	Suggested Wire Line Size Dia.	Avail Wire Line Size	
							Min. Dia.	Max. Dia.
26	33	33	3.5	1.5	4.25	1.00	1.00	1.00
30	37	37	3.5	1.5	4.25	1.25	1.00	1.25
36	43	43	3.5	1.5	4.25	1.50	1.13	1.50
42	50	50	4.38	2	6.50	1.75	1.25	1.75
48	55	55	4.63	2	10.50	2.00	1.75	2.00
60	68	68	5.75	2	11.03	2.50	1.25	2.50

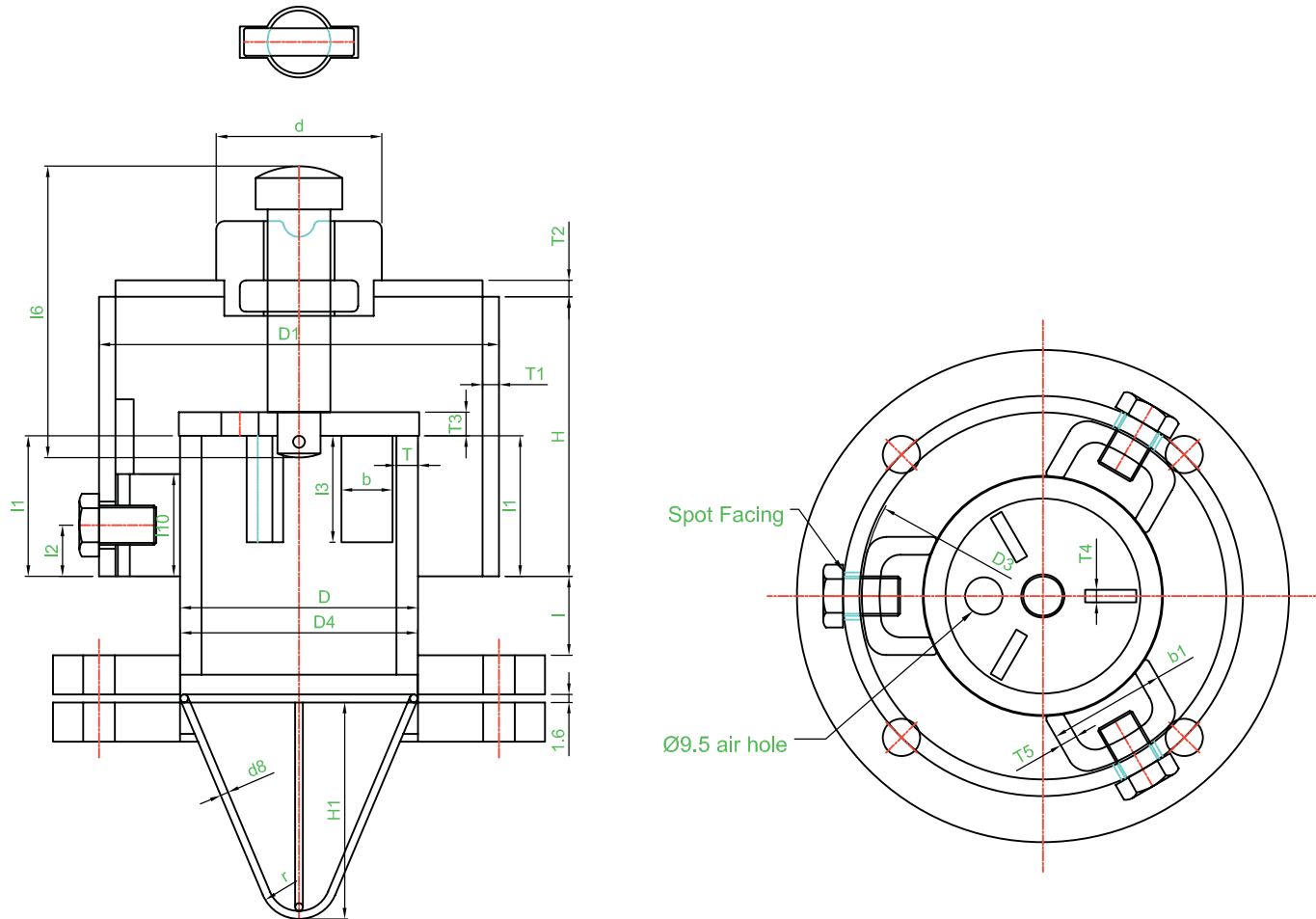
MDK-M2091 Spring Type Towing Hook



SWL (Ton)	L	L1	B	B1	H	H1	H2	R
2	822	145	232	150	180	150	157	309
3	916	142	260	130	190	130	141	345
5	1180	184	330	208	270	228	189	445
8	1141	196	342	200	284	160	192	563
12	1710	253	410	260	376	250	256	684
16	1936	270	458	320	400	210	261	741
20	2212	310	524	292	470	280	299	860
25	2448	324	560	310	490	300	310	952
30	1960	282	544	300	418	280	320	754
35	2128	315	590	342	430	280	332	828
40	2259	330	640	320	472	300	355	880
45	2395	330	640	400	464	300	369	943

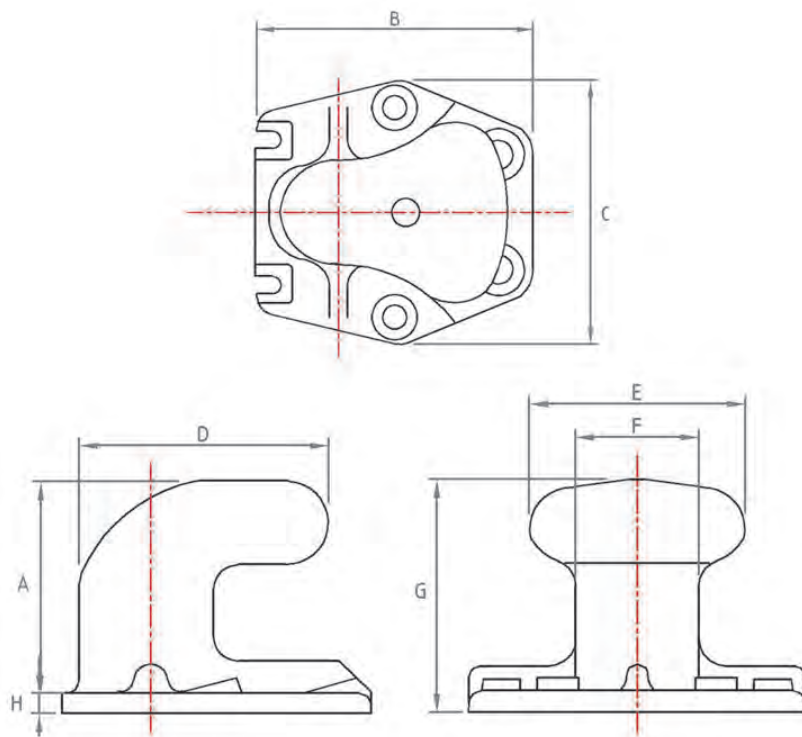
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MDK-M3023 Bonnet Type Air Pipe Head



Nominal Dia.	Body				Bonnet					Valve					Stem		Support					Frame of Wire gauze				Calculated Mass
	D	I	I1	T	D1	H	I2	T1	T2	b	D2	I3	T3	T4	d	I6	b1	D3	I10	T5	D4	d8	H1	r	(kg)	
50	60.5	20	36	5.5	101.6	71	13	4.2	4.5	13	61	27	6	3.2	42	74	30	92	26	4.5	60	2	55	10	5.25	
65	76.3	20	46	5.2	139.8	91	13	4.5	4.5	13	77	32	6	3.2	42	84	30	129	26	4.5	76	2	70	10	6.12	
80	89.1	20	54	5.5	139.8	107	13	4.5	4.5	15	90	36	6	3.2	42	92	30	129	26	4.5	89	2	80	10	7.40	
90	101.6	25	62	5.7	165.2	123	15	5.0	4.5	15	102	42	6	3.2	42	100	40	153	30	4.5	102	2	90	10	9.81	
100	114.3	25	70	6.0	190.7	139	15	5.3	4.5	20	115	46	6	3.2	44	109.5	40	178	30	4.5	114	2	100	10	12.10	
125	139.8	30	86	6.6	216.3	172	15	5.8	6.0	20	140	54	8	3.2	44	128	40	203	30	4.5	140	2.9	120	15	18.40	
150	165.2	40	104	5.0	267.4	208	18	6.6	6.0	20	166	63	8	4.5	44	146	50	252	36	6	166	2.9	145	15	26.70	
200	216.3	50	124	5.8	330	248	20	6.0	6.0	25	217	75	8	4.5	46	208	60	316	40	8	217	2.9	190	15	33.30	

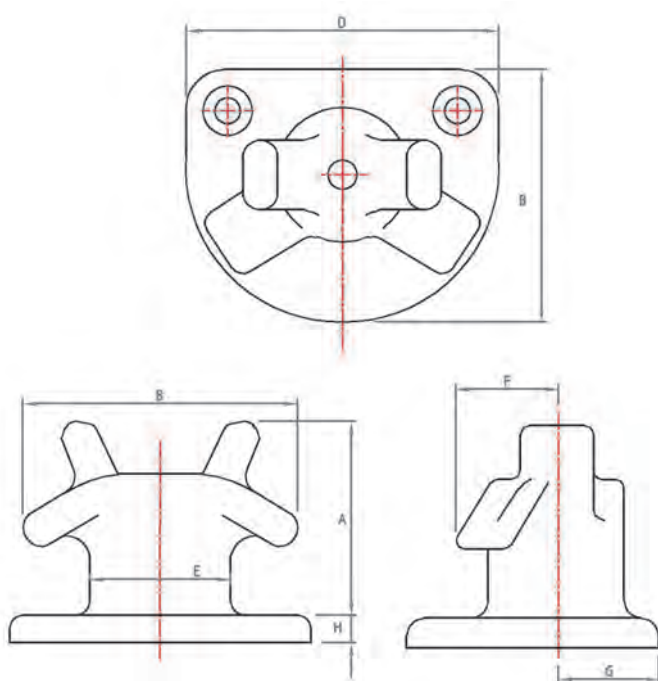
Curve Bollard (C)



Curve Bollard (C)		
Dimensions in Metric (mm)		
Type	C50	C70
A	710	810
B	840	1000
C	945	1000
D	700	800
E	660	840
F	355	400
G	780	900
H	70	90
No. of Bolts	6	6
Dia. of Bolts	48	56
Pull in Tons	50	70

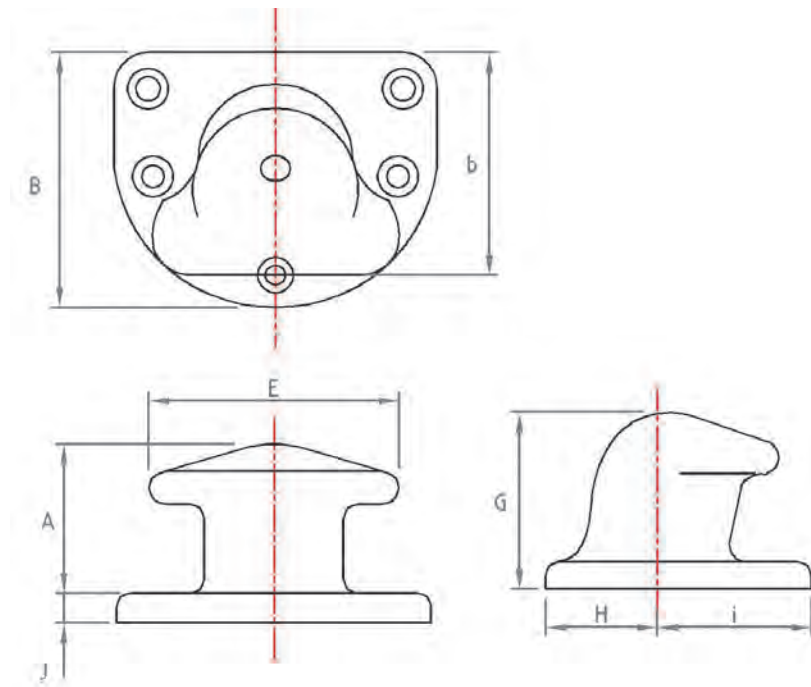
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Horne Bollard (H)



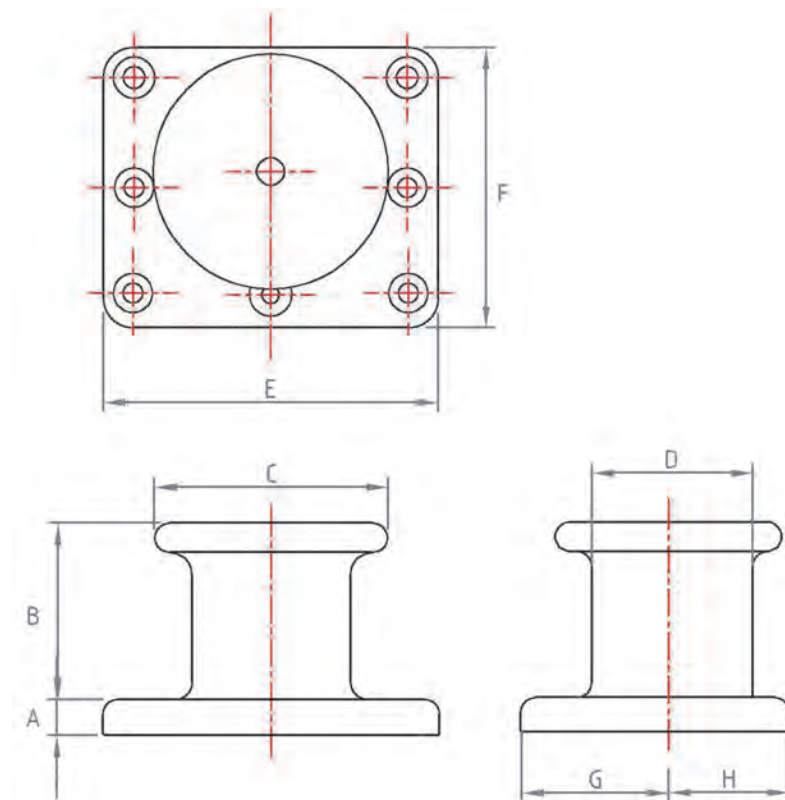
Horne Bollard (H)								
Dimensions in Metric (mm)								
Type	H15	H20	H30	H50	H70	H100	H150	H200
A	410	455	500	530	570	585	660	660
B	440	480	600	660	750	850	930	930
C	405	455	540	600	650	770	850	850
D	480	530	640	700	800	920	1000	1000
E	200	220	260	300	350	400	450	450
F	145	170	190	220	260	280	325	325
G	165	190	220	250	250	310	350	350
H	40	45	50	70	80	90	90	100
No. of Bolts	5	5	5	7	7	7	8	8
Dia. of Bolts	30	30	36	42	42	51	56	64
Pull in Tons	15	20	30	50	70	100	150	200

Kidney Bollard (K)



Kidney Bollard (K)						
Dimensions in Metric (mm)						
Type	K15	K20	K30	K50	K70	K100
A	225	305	350	380	410	435
B	405	455	540	615	640	750
C	480	530	640	740	790	900
D	350	400	470	530	640	650
E	350	400	500	550	600	700
F	200	220	260	300	350	400
G	295	350	400	450	490	525
H	165	190	220	245	245	300
I	240	265	320	370	395	450
J	40	45	50	70	80	90
No. of Bolts	5	5	5	6	7	7
Dia. of Bolts	30	30	36	42	42	48
Pull in Tons	15	20	30	50	70	100

Pillar Bollard (P)



Pillar Bollard (P)						
Dimensions in Metric (mm)						
Type	P15	P20	P30	P50	P75	P100
A	40	50	50	60	70	80
B	280	280	320	350	380	405
C	300	320	390	430	500	580
D	200	220	260	300	350	400
E	390	400	540	590	740	760
F	390	400	540	490	615	660
G				295	345	380
H				195	276	280
No. of Bolts	4	4	4	7	7	7
Dia. of Bolts	30	36	36	42	42	48
Pull in Tons	15	20	30	50	75	100