

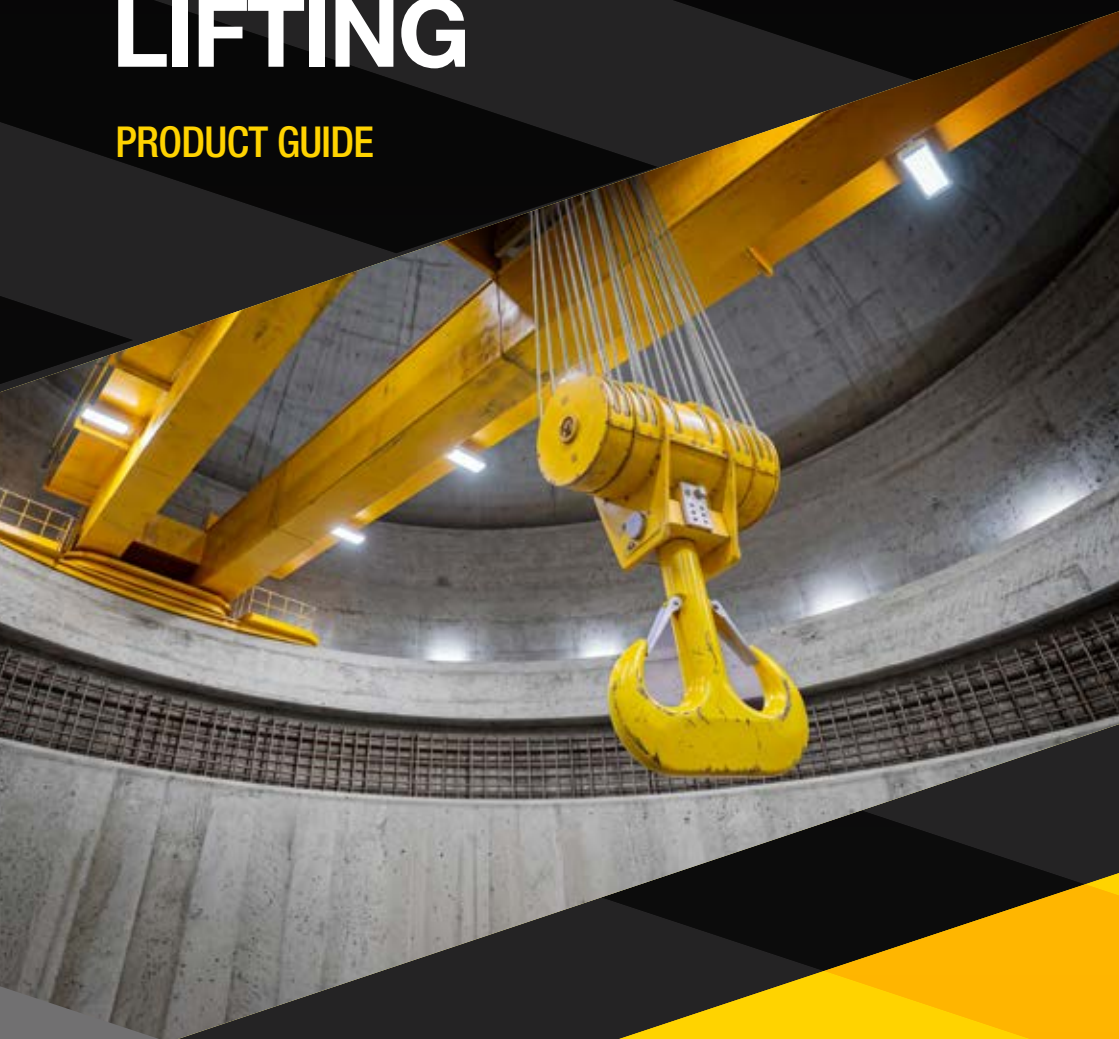
Metric



ONSHORE LIFTING

PRODUCT GUIDE


VAN BEEST



**HEAVY DUTY CHALLENGES.
FORGED SOLUTIONS.**



Welcome to Irizar Forge

INTRODUCTION



Forged in the Basque Country since 1923

Irizar Forge has been proudly producing lifting and mooring connectors in Lazkao, in the Basque Country in Spain, for over 100 years. Francisco Irizar founded his workshop in the Goierri Valley, one of Europe's great steelmaking regions, in 1923. Four generations later, leadership has remained within the family.

Everything under one roof

What began as a local forge, initially supplying up to 50 t and later expanded its capacity to deliver up to 500 t, has evolved into a global producer of over 1000 t heavy duty lifting and mooring components. Today, the facility combines forging, heat treatment, machining, finishing, assembly, proof load testing and certification all under one roof.

Lasting strength

Behind every product are the people who make it possible, employees committed to quality, safety, and long lasting performance.

Every component that leaves the factory reflects that commitment. Irizar Forge hooks, hook blocks, swivels and connectors are designed, tested and certified to work in the harshest environments.

Lead by innovation

At the core of Irizar Forge is a dedication to innovation, engineering solutions that enhance operational safety, improve efficiency and simplify maintenance.

A global network behind every order

With warehouses in Spain, the United States and Brazil, and sales offices in Spain, the Netherlands, the United States and Brazil, supported by a global partnership network, Irizar Forge can support projects worldwide. Offering not only high-performing products, but a partnership you can depend on.

Irizar Forge

Heavy Duty Challenges. Forged Solutions.

Certifications

Our manufacturing facilities, production processes, and quality management systems are certified and approved by internationally recognized classification societies and certification bodies, including **ABS, DNV, Bureau Veritas, Lloyd's Register, and TÜV Rheinland.**

Scan the QR code to view our certificates and approvals.





→ ONSHORE

HEAVY LIFTING SOLUTIONS FOR ONSHORE INDUSTRIES

Steel mills, mining operations, ports and paper plants run continuously in conditions that are hard on equipment: abrasive, chemically aggressive and thermally demanding. Irizar Forge provides a wide range of high-quality forged lifting components for OEMs and end users. Engineered to withstand the toughest operating conditions, our products deliver outstanding strength, safety, and long-lasting performance.

With lifting capacities of up to 2000 t, they span applications from light overhead cranes to heavy-duty gantry and harbour crane configurations.



INDUSTRIES SERVED

Steel and aluminium mills, mining, construction, paper mills, hydropower, material processing, shipyards, ports and harbours and nuclear energy

PRODUCTS

Crane hooks and hook blocks

Engineering and manufacturing

Every onshore component begins with design, calculation and simulation before the steel is heated. Production covers forging, heat treatment, machining, surface finishing and assembly. Each component is then proof load tested on benches rated to 2000 t, all in-house. Inspection and testing are carried out before, during and after production using destructive and non-destructive methods.

Standard and advanced solutions

Standard onshore solutions cover certified crane and lifting components manufactured to recognised international standards. Fully type-approved and readily available from stock.

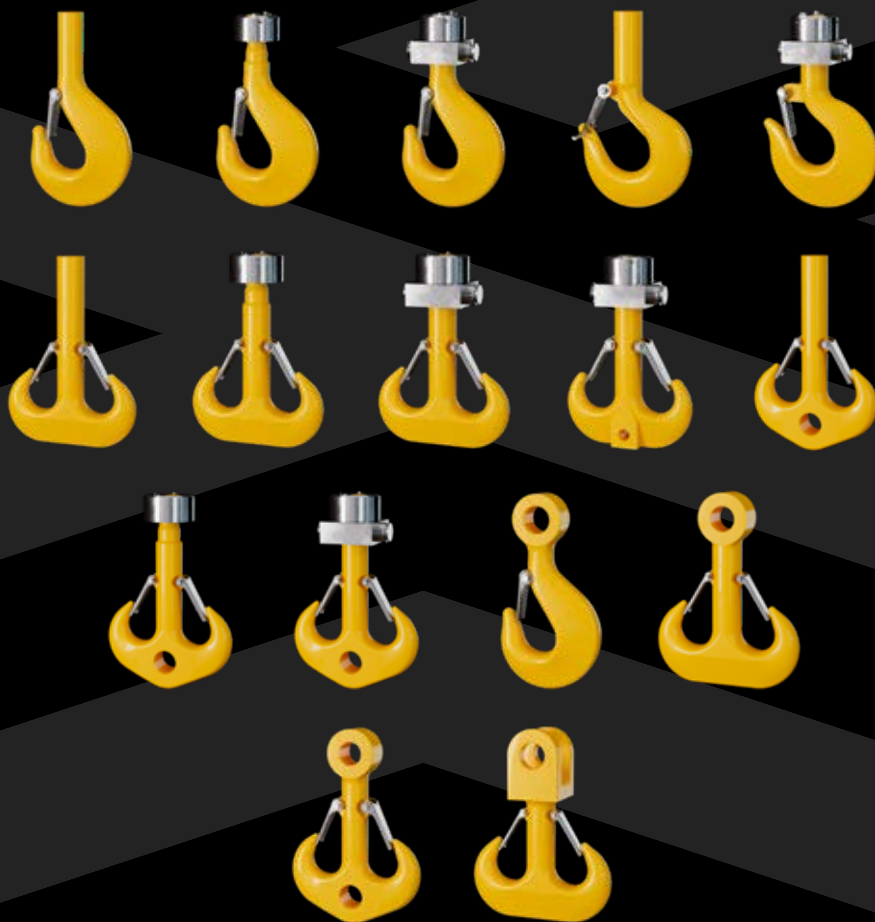
Advanced solutions are fully engineered to customer specification. Irizar Forge manages the entire process, from initial design, manufacturing, testing and third-party certification by LRS, DNV, ABS and BV.



→ PRODUCT RANGE

ONSHORE

CRANE HOOKS



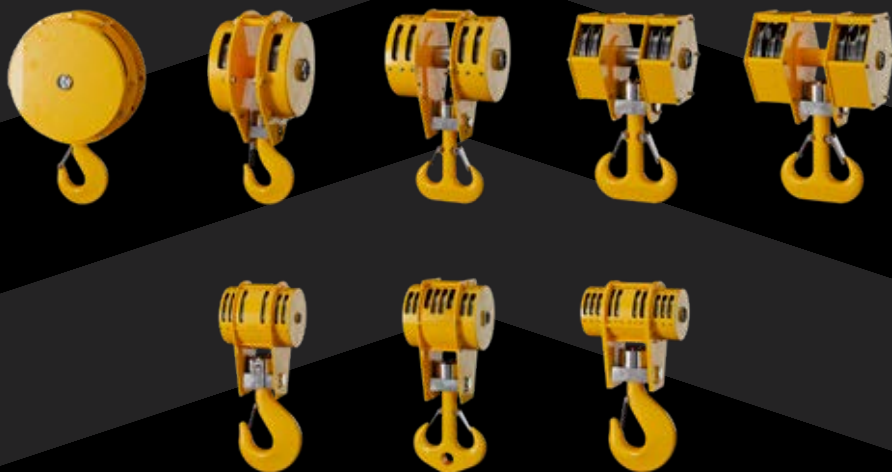
CUSTOM HOOKS



HOOK BLOCKS



CUSTOM HOOK BLOCKS



→ CRANE HOOKS

The hook is one of the most critical safety components of any crane. While different manufacturing technologies and steel grades are used worldwide, forging remains the safest, most reliable, and most efficient production method. This is why all Irizar Forge hooks are manufactured using advanced forging technology.

Produced entirely in-house from premium European steel, every hook benefits from a continuous grain flow aligned with the load path, enhancing its mechanical performance and structural integrity. Combined with rigorous heat treatment, testing, complete traceability, and extensive engineering expertise, this ensures exceptional strength, toughness, and long-term fatigue resistance in the most demanding lifting applications.



Mechanical classes according to EN13001-3-5

To meet a wide range of lifting requirements, crane hooks are classified according to their mechanical properties, including yield strength, tensile strength, and fatigue strength, as defined by the latest European standard EN13001-3-5.

CLASS	YT (Min. Yield Stress) f_y (N/mm ²)	US (Min. Ultimate Strength) f_u (N/mm ²)	FS (Fatigue Strength) $\Delta \sigma_c$ (N/mm ²)
P	315	490	195
S	390	540	210
T	490	700	250
V	620	800	275
W	770	970	310

From standard lifting duties to the most challenging heavy-lift applications, Irizar Forge offers the appropriate hook class to deliver the optimum balance of safety, performance, and durability.

Customized solutions for every application

Irizar Forge develops fully customized lifting solutions tailored to each customer's specific requirements. Irizar Forge's commitment to safety and reliability is reflected in every stage of the manufacturing process, from engineering and forging to load testing and final inspection, ensuring the integrity and performance of every hook throughout its service life.

Hook design configurations

Crane hook designs vary according to the application and operating requirements. Key design parameters include:

- **Hook shape:** Symmetrical or asymmetrical, always designed to operate under proper alignment.
- **Hook section:** Concave, convex, round, or customized profiles depending on the rigging accessories used.
- **Hook body configuration:** Single, double (ramshorn), or quadruple hook designs.
- **Hook articulation:** Shank hooks, eye hooks, or fork hooks.

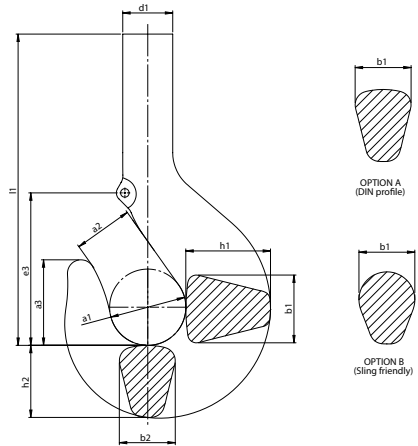
For every lifting challenge, Irizar Forge combines advanced forging technology, engineering expertise, and rigorous quality standards to deliver hook solutions that maximize safety, reliability, and performance.





SINGLE FORGED HOOK DIN15401 DESIGN

Unmachined



- WLL: from 1 t to 2000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4
- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request

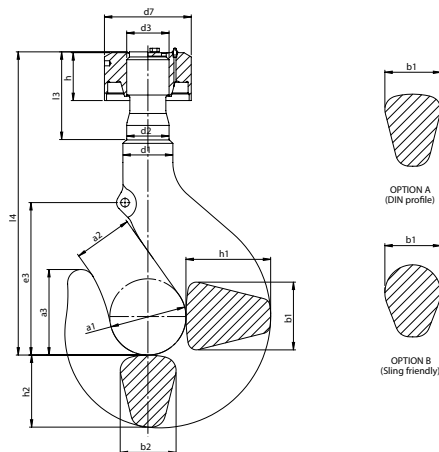
SINGLE FORGED HOOK DIN15401 DESIGN UNMACHINED											
Overall dimensions (mm)											Weight
No	a1	a2	a3	b1	b2	d1	e3	h1	h2	l1	(Kg)
1,6	56	45	64	45	38	36	118	56	48	224	4,5
2,5	63	50	72	53	45	42	132	67	58	253	6,3
4	71	56	80	63	53	48	148	80	67	285	8,8
5	80	63	90	71	60	53	165	90	75	318	12,3
6	90	71	101	80	67	60	185	100	85	380	17,1
8	100	80	113	90	75	67	210	112	95	418	24
10	112	90	127	100	85	75	221	125	106	460	40
12	125	100	143	112	95	85	252	140	118	525	55
16	140	112	160	125	106	95	280	160	132	595	77
20	160	125	180	140	118	106	330	180	150	665	112
25	180	140	202	160	132	118	360	200	170	735	160
32	200	160	225	180	150	132	400	224	190	810	220
40	224	180	252	200	170	150	447	250	212	905	310
50	250	200	285	224	190	170	485	280	236	990	430
63	280	224	320	250	212	190	550	315	265	1120	600
80	315	250	358	280	236	212	598	355	300	1270	860
100	355	280	402	315	265	236	688	400	335	1415	1220
125	400	315	450	355	300	265	750	450	375	1590	1740
160	450	355	505	400	335	300	825	500	425	1790	2480
200	500	400	565	450	375	335	900	560	475	2048	3420
250	560	450	635	500	425	375	980	630	530	2305	4800
320	630	500	715	560	475	425	1080	710	580	2605	6770
400	710	560	755	630	530	475	1195	800	630	2950	9405

Forging tolerances acc. to DIN15401
Modifications: shank length (l1). Further dimensions upon request.
Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



SINGLE FORGED HOOK DIN15401 DESIGN

Machined fitted with nut



- WLL: from 1 t to 2000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4
- Proof load test: recommended

- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request
- Thread DIN15403; Nut DIN15413

SINGLE FORGED HOOK DIN15401 DESIGN | MACHINED FITTED WITH NUT

Overall dimensions (mm)														DIN15413 Nut		Weight
No	a1	a2	a3	b1	b2	d1	e3	h1	h2	d2 h11	d3	l3	l4	d7	h	(Kg)
1,6	56	45	64	45	38	36	118	56	48	30	M30	68	221	60	38	5,2
2,5	63	50	72	53	45	42	132	67	58	36	M36	83	250	70	44	7,4
4	71	56	80	63	53	48	148	80	67	42	M42	93	281,5	80	49	10,3
5	80	63	90	71	60	53	165	90	75	45	M45	103	314,5	95	56	14,4
6	90	71	101	80	67	60	185	100	85	50	Rd50x6	112	375	115	60	20,7
8	100	80	113	90	75	67	210	112	95	56	Rd56x6	122	413	125	67	28,8
10	112	90	127	100	85	75	221	125	106	64	Rd64x8	135	446	145	76	40,9
12	125	100	143	112	95	85	252	140	118	72	Rd72x8	157	504,5	165	87	65,4
16	140	112	160	125	106	95	280	160	132	80	Rd80x10	170	576	175	91	90
20	160	125	180	140	118	106	330	180	150	90	Rd90x10	187	645	185	102	130
25	180	140	202	160	132	118	360	200	170	100	Rd100x12	207	716	205	113	184
32	200	160	225	180	150	132	400	224	190	110	Rd110x12	232	788	240	131	254
40	224	180	252	200	170	150	447	250	212	125	Rd125x14	257	885	270	144	361
50	250	200	285	224	190	170	485	280	236	140	Rd140x16	280	969	320	153	502
63	280	224	320	250	212	190	550	315	265	160	Rd160x18	322	1100	360	181	700
80	315	250	358	280	236	212	598	355	300	180	Rd180x20	357	1245	400	198	1007
100	355	280	402	315	265	236	668	400	335	200	Rd200x22	402	1388	445	228	1417
125	400	315	450	355	300	265	750	450	375	225	Rd225x24	465	1565	490	246	2026
160	450	355	505	400	335	300	825	500	425	250	Rd250x28	510	1761	530	274	2846
200	500	400	565	450	375	335	900	560	475	280	Rd280x32	613	2012	590	343	3862
250	560	450	635	500	425	375	980	630	530	320	Rd320x36	690	2272	680	383	5411
320	630	500	715	560	475	425	1080	710	580	370	Rd360x36	780	2565	760	433	7620
400	710	560	755	630	530	475	1195	800	630	415	Rd400x36	875	2878	865	482	10441

Forging tolerances acc. to DIN15401

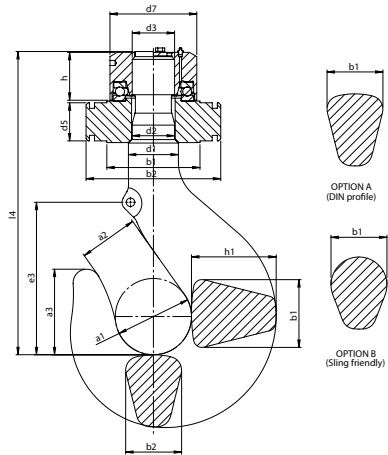
Modifications: shank length (l4). Further dimensions upon request.

Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



SINGLE FORGED HOOK DIN15401 DESIGN

Machined fitted with nut, crosshead and bearing



- WLL: from 1 t to 2000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4
- Proof load test: recommended
- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request
- Thread DIN15403; Nut DIN15413; Crosshead DIN15412; Assembly DIN15411

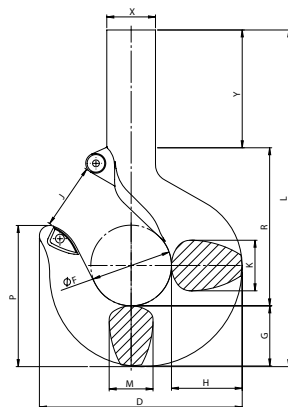
SINGLE FORGED HOOK DIN15401 DESIGN MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING																		
Overall dimensions (mm)													DIN15412 Crosshead			DIN15413 Nut		Weight
No	a1	a2	a3	b1	b2	d1	e3	h1	h2	d2 h11	d3	l4	b1	b2	d5 h9	d7	h	(Kg)
1,6	56	45	64	45	38	36	118	56	48	30	M30	221	65	100	25	60	38	5,2
2,5	63	50	72	53	45	42	132	67	58	36	M36	250	80	125	30	70	44	9,2
4	71	56	80	63	53	48	148	80	67	42	M42	281,5	90	140	35	80	49	13
5	80	63	90	71	60	53	165	90	75	45	M45	314,5	100	155	40	95	56	18,6
6	90	71	101	80	67	60	185	100	85	50	Rd50x6	375	125	185	45	115	60	27,4
8	100	80	113	90	75	67	210	112	95	56	Rd56x6	413	140	210	50	125	67	38
10	112	90	127	100	85	75	221	125	106	64	Rd64x8	446	160	230	55	145	76	54,6
12	125	100	143	112	95	85	252	140	118	72	Rd72x8	504,5	180	265	60	165	87	85,5
16	140	112	160	125	106	95	280	160	132	80	Rd80x10	576	190	275	70	175	91	114,5
20	160	125	180	140	118	106	330	180	150	90	Rd90x10	645	200	295	80	185	102	158,5
25	180	140	202	160	132	118	360	200	170	100	Rd100x12	716	220	318	90	205	113	222,6
32	200	160	225	180	150	132	400	224	190	110	Rd110x12	788	260	378	100	240	131	315
40	224	180	252	200	170	150	447	250	212	125	Rd125x14	885	285	415	110	270	144	443
50	250	200	285	224	190	170	485	280	236	140	Rd140x16	969	335	465	125	320	153	630
63	280	224	320	250	212	190	550	315	265	160	Rd160x18	1100	380	522	140	360	181	885
80	315	250	358	280	236	212	598	355	300	180	Rd180x20	1245	420	565	160	400	198	1254
100	355	280	402	315	265	236	688	400	335	200	Rd200x22	1388	470	645	180	445	228	1768
125	400	315	450	355	300	265	750	450	375	225	Rd225x24	1565	510	685	200	490	246	2491
160	450	355	505	400	335	300	825	500	425	250	Rd250x28	1761	550	750	220	530	274	3483
200	500	400	565	450	375	335	900	560	475	280	Rd280x32	2012	610	810	240	590	343	4791
250	560	450	635	500	425	375	980	630	530	320	Rd320x36	2272	700	920	260	680	383	6793
320	630	500	715	560	475	425	1080	710	580	370	Rd360x36	2565	790	1030	280	760	433	9443
400	710	560	755	630	530	475	1195	800	630	415	Rd400x36	2878	895	1145	300	865	482	13220

Forging tolerances acc. to DIN15401
Modifications: shank length (l4). Further dimensions upon request.
Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



IRIZAR FORGE NA SERIES

Unmachined



- WLL: from 1.35 t to 67.5 t (short ton)
- Material: alloy steel; carbon steel and stainless steel upon request
- Design Factor: ≥ 5
- Certification: 3.1 according to EN10204; 3.2 upon request

IRIZAR FORGE NA SERIES UNMACHINED													
Overall dimensions (mm)													Weight
IFNA WLL (short ton)	D	F	G	H	K	L	M	P	R	X	Y	J	(Kg)
1,35	80,3	35,1	21,3	24,6	18,0	144,3	18,0	56,4	65,8	19,3	57,2	24,6	0,5
2,7	101,6	41,1	29,0	33,3	23,1	181,4	23,9	70,6	80,3	22,4	72,1	30,2	0,9
4,5	122,9	50,8	36,6	41,4	33,3	219,2	28,7	88,1	97,8	29,5	87,4	38,1	2,0
6,3	159,5	63,5	46,2	52,3	42,2	264,9	36,6	116,6	121,2	35,8	97,5	45,2	3,8
9,9	191,5	76,2	57,4	66,8	47,8	318,0	41,4	140,2	149,4	46,0	111,3	61,2	6,5
13,5	211,8	82,6	66,0	74,7	55,6	408,9	49,3	151,4	161,8	50,8	177,8	66,5	10,5
19,8	262,6	108,0	76,5	88,9	68,3	461,0	60,5	174,8	206,8	65,0	177,8	86,6	17,8
27	345,9	127,0	91,9	117,3	76,2	586,5	76,2	223,0	239,8	79,2	254,0	101,6	32,3
33,3	357,1	136,7	115,8	117,3	76,2	815,8	76,2	287,3	317,5	101,6	381,0	108,0	64,7
40,5	392,2	152,4	128,5	139,7	94,5	866,6	82,6	319,0	355,6	105,7	381,0	120,7	79,6
54	469,9	177,8	152,4	165,1	112,8	915,9	99,3	374,7	395,2	114,3	368,3	146,1	115,5
67,5	523,7	196,9	169,9	184,2	133,4	1045,5	108,0	419,9	492,3	127,0	381,0	165,1	156,9

Forging tolerances: ± 2 mm

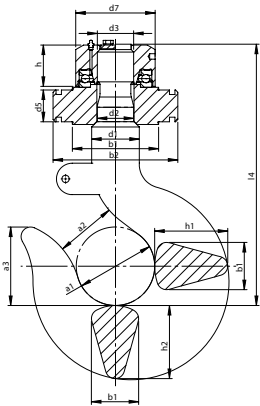
Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)

WLL with highest material grade



SINGLE FORGED HOOK BS2903:1980 DESIGN

Machined fitted with nut, crosshead and bearing



- WLL: from 5 t to 250 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4
- Proof load test: recommended
- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request
- Thread DIN15403; Nut DIN15413; Crosshead DIN 15412; Assembly DIN15411

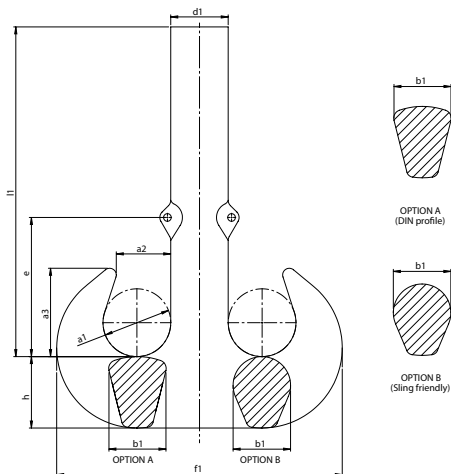
SINGLE FORGED HOOK BS2903:1980 DESIGN MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING																
Overall dimensions (mm)											DIN15412 Crosshead			DIN15413 Nut		Weight
Single Hook No.	a1	a2	a3	b1	d1	h1	h2	d2 h11	d3	l4	b1	b2	d5 h9	d7	h	
B 5	65	49	65	39	38	60	60	30	M30	221	65	100	25	60	38	6
B 6.3	73	55	73	44	44	68	68	63	M36	250	80	125	30	70	44	8,5
B 8	83	62	84	50	50	77	77	42	M42	281,5	90	140	35	80	49	12,5
B 10	92	69	92	55	55	86	86	45	M45	314,5	100	155	40	95	56	17,5
B 12.5	103	77	104	62	60	96	96	50	Rd50x6	375	125	185	45	115	60	25
B 16	117	88	117	70	65	109	109	50	Rd50x6	375	125	185	45	115	60	33
B 20	131	98	132	79	75	122	122	64	Rd64x8	446	160	230	55	145	76	50
B 25	146	110	146	88	85	136	136	72	Rd72x8	504,5	180	265	60	165	87	71
B 32	159	119	160	95	90	148	148	72	Rd72x8	504,5	180	265	60	165	87	87
B 40	173	130	173	104	105	161	161	80	Rd80x10	576	190	275	70	175	91	113
B 50	191	143	191	115	115	178	178	90	Rd90x10	645	200	295	80	185	102	147
B 63	205	154	205	123	125	191	191	100	Rd100x12	716	220	318	90	205	113	189

Forging tolerances acc. to BS2903:1980
Modifications: shank length (l4). Further dimensions upon request.
Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



RAMSHORN FORGED HOOK DIN15402 DESIGN

Unmachined



- WLL: from 1 t to 2000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4

- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request

RAMSHORN FORGED HOOK DIN15402 DESIGN | UNMACHINED

Overall dimensions (mm)										Weight
No	a1	a2	a3	b1	d1	e	f1	h	l1	(Kg)
2,5	50	40	65	40	42	112	208	50	250	6,9
4	56	45	73	48	48	124	238	60	280	9,7
5	63	50	82	53	53	143	266	67	312	13,4
6	71	56	92	60	60	160	301	75	375	16,8
8	80	63	103	67	67	182	337	85	415	25,3
10	90	71	116	75	75	192	377	95	450	36,3
12	100	80	130	85	85	210	421	106	510	50,5
16	112	90	146	95	95	237	471	118	580	71,1
20	125	100	163	106	106	265	531	132	650	99,5
25	140	112	182	118	118	315	598	150	715	138
32	160	125	205	132	132	335	672	170	790	197
40	180	140	230	150	150	375	754	190	885	286
50	200	160	260	170	170	420	842	212	965	394
63	224	180	292	190	190	460	944	236	1090	547
80	250	200	325	212	212	515	1062	265	1235	759
100	280	224	364	236	236	575	1186	300	1375	1060
125	315	250	408	265	265	645	1330	335	1550	1491
160	355	280	458	300	300	725	1505	375	1745	2115
200	400	315	515	335	335	800	1685	425	1998	3015
250	450	355	580	375	375	875	1885	475	2250	4268
320	500	400	650	425	425	950	2125	530	2550	6018
400	560	450	730	475	475	1045	2375	600	2895	8576

Forging tolerances acc. to DIN15402

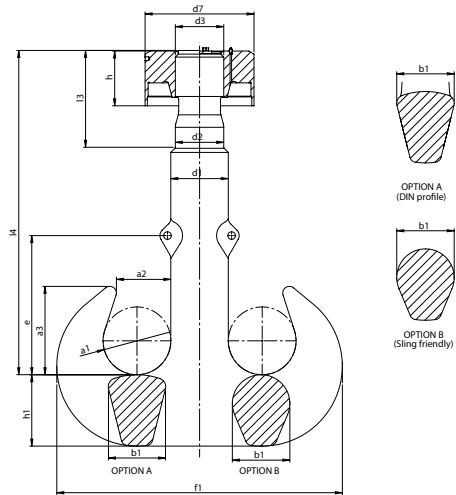
Modifications: shank length (l1). Further dimensions upon request.

Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



RAMSHORN FORGED HOOK DIN15402 DESIGN

Machined fitted with nut



- WLL: from 1 t to 2000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4
- Proof load test: recommended

- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request
- Thread DIN15403; Nut DIN15413

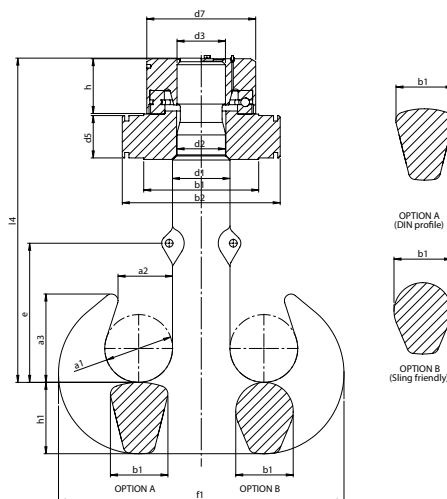
RAMSHORE FORGED HOOK DIN15402 DESIGN MACHINED FITTED WITH NUT															DIN15413 Nut		Weight
Overall dimensions (mm)													No	d7	h	(Kg)	
a1	a2	a3	b1	d1	e	f1	h1	d2 h11	d3	I3	I4						
2,5	50	40	65	40	42	112	208	50	36	M36	83	243,5	70	44	7,5		
4	56	45	73	48	48	124	238	60	42	M42	93	274	80	49	10,6		
5	63	50	82	53	53	143	266	67	45	M45	103	306	95	56	14,6		
6	71	56	92	60	60	160	301	75	50	Rd50x6	112	365,5	115	60	20,4		
8	80	63	103	67	67	182	337	85	56	Rd56x6	122	403	125	67	30,3		
10	90	71	116	75	75	192	377	95	64	Rd64x8	135	435	145	76	43,3		
12	100	80	130	85	85	210	421	106	72	Rd72x8	157	492	165	87	61		
16	112	90	146	95	95	237	471	118	80	Rd80x10	170	562	175	91	84		
20	125	100	163	106	106	265	531	132	90	Rd90x10	187	628	185	102	117		
25	140	112	182	118	118	315	598	150	100	Rd100x12	207	696	205	113	161		
32	160	125	205	132	132	335	672	170	110	Rd110x12	232	768	240	131	230		
40	180	140	230	150	150	375	754	190	125	Rd125x14	257	863	270	144	336		
50	200	160	260	170	170	420	842	212	140	Rd140x16	280	944	320	153	464		
63	224	180	292	190	190	460	944	236	160	Rd160x18	322	1072	360	181	644		
80	250	200	325	212	212	515	1062	265	180	Rd180x20	357	1212	400	198	901		
100	280	224	364	236	236	575	1186	300	200	Rd200x22	402	1351	445	228	1249		
125	315	250	408	265	265	645	1330	335	225	Rd225x24	465	1522	490	246	1765		
160	355	280	458	300	300	725	1505	375	250	Rd250x28	510	1714	530	274	2463		
200	400	315	515	335	335	800	1685	425	280	Rd280x32	613	1962	590	343	3437		
250	450	355	580	375	375	875	1885	475	320	Rd320x36	690	2217	680	383	4852		
320	500	400	650	425	425	950	2125	530	370	Rd360x36	780	2505	760	433	6745		
400	560	450	730	475	475	1045	2375	600	415	Rd400x36	875	2820	865	482	9513		

Forging tolerances acc. to DIN15402
Modifications: shank length (I4). Further dimensions upon request.
Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



RAMSHORN FORGED HOOK DIN15402 DESIGN

Machined fitted with nut, crosshead and bearing



- WLL: from 1 t to 2000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4
- Proof load test: recommended

- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request
- Thread DIN15403; Nut DIN15413; Crosshead DIN 15412; Assembly DIN15411

RAMSHORN FORGED HOOK DIN15402 DESIGN | MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING

Overall dimensions (mm)												DIN15412 Crosshead			DIN15413 Nut		Weight (Kg)
No	a1	a2	a3	b1	d1	e	f1	h1	d2H15	d3	l4	b1	b2	d5 h9	d7	h	
2,5	50	40	65	40	42	112	208	50	36	M36	243,5	80	125	30	70	44	9,5
4	56	45	73	48	48	124	238	60	42	M42	274	90	140	35	80	49	13,5
5	63	50	82	53	53	143	266	67	45	M45	306	100	155	40	95	56	20,6
6	71	56	92	60	60	160	301	75	50	Rd50x6	365,5	125	185	45	115	60	27
8	80	63	103	67	67	182	337	85	56	Rd56x6	403	140	210	50	125	67	39,5
10	90	71	116	75	75	192	377	95	64	Rd64x8	435	160	230	55	145	76	57
12	100	80	130	85	85	210	421	106	72	Rd72x8	492	180	265	60	165	87	81
16	112	90	146	95	95	237	471	118	80	Rd80x10	562	190	275	70	175	91	108
20	125	100	163	106	106	265	531	132	90	Rd90x10	628	200	295	80	185	102	145,5
25	140	112	182	118	118	315	598	150	100	Rd100x12	696	220	318	90	205	113	199,5
32	160	125	205	132	132	335	672	170	110	Rd110x12	768	260	378	100	240	131	291
40	180	140	230	150	150	375	754	190	125	Rd125x14	863	285	415	110	270	144	418
50	200	160	260	170	170	420	842	212	140	Rd140x16	944	335	465	125	320	153	592
63	224	180	292	190	190	460	944	236	160	Rd160x18	1072	380	522	140	360	181	830
80	250	200	325	212	212	515	1062	265	180	Rd180x20	1212	420	565	160	400	198	1148
100	280	224	364	236	236	575	1186	300	200	Rd200x22	1351	470	645	180	445	228	1600
125	315	250	408	265	265	645	1330	335	225	Rd225x24	1522	510	685	200	490	246	2230
160	355	280	458	300	300	725	1505	375	250	Rd250x28	1714	550	750	220	530	274	3100
200	400	315	515	335	335	800	1685	425	280	Rd280x32	1962	610	810	240	590	343	4366
250	450	355	580	375	375	875	1885	475	320	Rd320x38	2217	700	920	260	680	383	6234
320	500	400	650	425	425	950	2125	530	370	Rd360x36	2505	790	1030	280	760	433	8791
400	560	450	730	475	475	1045	2375	600	415	Rd400x36	2820	895	1145	300	865	482	12220

Forging tolerances acc. to DIN15402

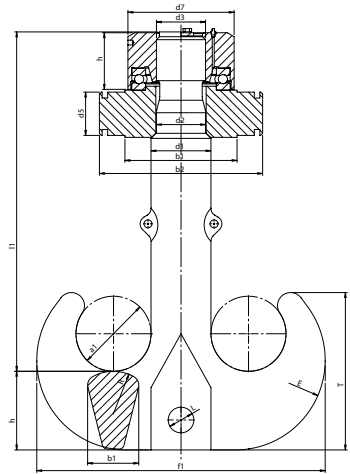
Modifications: shank length (l4). Further dimensions upon request.

Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



RAMSHORN FORGED HOOK BS3017:1958 DESIGN

Machined fitted with nut, crosshead and bearing



- WLL: from 5 t to 1000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4
- Proof load test: recommended
- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request
- Thread DIN15403; Nut DIN15413; Crosshead DIN 15412; Assembly DIN15411

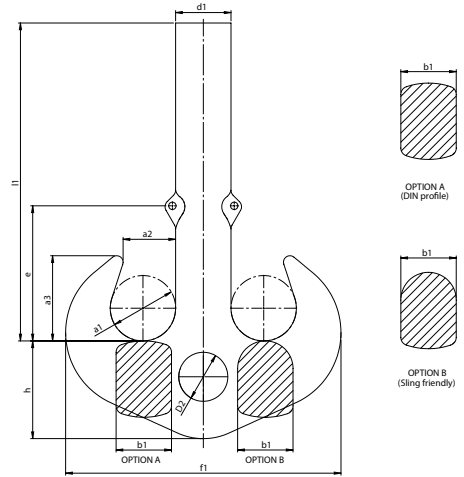
RAMSHORN FORGED HOOK BS3017:1958 DESIGN MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING																	
Overall dimensions (mm)											Crosshead			Nut		Weight	
No	a1	d1	h	L	b1	T	f1	d2h11	d3	l4	b1	b2	d5 h9	d7	h	(Kg)	
B10	95	76	100	33	65	200	366	64	Rd64x8	435	160	230	55	145	76	46	
B15	108	83	108	40	70	219	412	64	Rd64x8	435	160	230	55	145	76	58	
B20	120	102	117	46	76	238	458	80	Rd80x10	562	190	275	70	175	91	73	
B25	133	114	132	46	86	267	510	90	Rd90x10	628	200	295	80	185	102	91	
B30	145	121	144	56	94	291	556	100	Rd100x12	696	220	318	90	205	113	112	
B35	153	127	156	56	101	313	584	100	Rd100x12	696	220	318	90	205	113	135	
B40	162	133	162	59	105	329	616	110	Rd110x12	768	260	378	100	240	131	165	
B45	170	140	175	59	114	351	654	110	Rd110x12	768	260	378	100	240	131	203	
B50	178	146	181	65	118	365	684	110	Rd110x12	768	260	378	100	240	131	246	
B60	191	152	200	65	130	400	732	125	Rd125x14	863	285	415	110	270	144	301	
B70	202	159	210	75	136	425	792	125	Rd125x14	863	285	415	110	270	144	362	
B80	211	165	225	75	147	452	812	125	Rd125x14	863	285	415	110	270	144	435	
B100	229	178	251	84	163	498	882	140	Rd140x16	944	335	465	125	320	153	524	
B120	242	191	273	90	177	540	946	160	Rd160x18	1072	380	522	140	360	181	626	
B140	255	203	289	97	188	575	1004	160	Rd160x18	1072	380	522	140	360	181	753	
B160	267	216	308	106	200	610	1054	180	Rd180x20	1212	420	565	160	400	198	897	
B180	279	229	327	113	213	641	1118	180	Rd180x20	1212	420	565	160	400	198	1085	
B200	287	241	346	116	225	679	1268	200	Rd200x22	1351	470	645	180	445	228	1275	
B250	317	279	405	136	263	762	1308	225	Rd225x24	1522	510	685	200	490	246	1550	
B300	343	305	422	141	274	804	1396	250	Rd250x28	1714	550	750	220	530	274	1850	
B350	356	318	451	152	293	845	1474	250	Rd250x28	1714	550	750	220	530	274	2221	
B400	381	343	479	161	311	899	1570	280	Rd280x32	1962	610	810	240	590	343	2668	

Forging tolerances acc. to BS3017:1958
Modifications: shank length (l4). Further dimensions upon request.
Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



TYPE B RAMSHORN FORGED HOOK DIN15402 WITH CENTRAL BORE

Unmachined



- WLL: from 1 t to 2000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4

- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request

TYPE B RAMSHORN FORGED HOOK DIN15402 WITH CENTRAL BORE | UNMACHINED

Overall dimensions (mm)											Weight
No	a1	a2	a3	b1	d1	d2H15	e	f1	h	l1	(Kg)
10	90	71	116	75	75	74	192	377	130	450	41
12	100	80	130	85	85	78	210	421	150	510	57
16	112	90	146	95	95	86	237	471	170	580	82
20	125	100	163	106	106	96	265	531	190	650	115
25	140	112	182	118	118	106	315	598	212	715	160
32	160	125	205	132	132	116	335	672	236	790	229
40	180	140	230	150	150	131	375	754	265	885	330
50	200	160	260	170	170	146	420	842	300	965	458
63	224	180	292	190	190	168	460	944	335	1090	638
80	250	200	325	212	212	188	515	1062	375	1235	892
100	280	224	364	236	236	208	575	1186	425	1375	1248
125	315	250	408	265	265	235	645	1330	475	1550	1757
160	355	280	458	300	300	260	725	1505	530	1745	2500
200	400	315	515	335	335	282	800	1685	600	1960	3560
250	450	355	580	375	375	312	875	1885	670	2210	5033
320	500	400	650	425	425	330	950	2125	750	2515	7095
400	560	450	730	475	475	370	1045	2375	840	2830	10010

Forging tolerances acc. to DIN15402

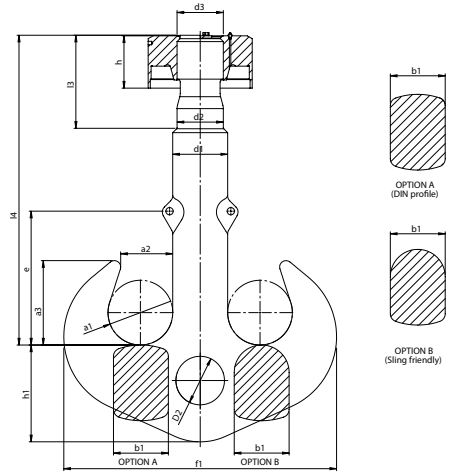
Modifications: shank length (l1). Further dimensions upon request.

Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



TYPE B RAMSHORN FORGED HOOK DIN15402 WITH CENTRAL BORE

Machined fitted with nut



- WLL: from 1 t to 2000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4
- Proof load test: recommended

- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request
- Thread DIN15403; Nut DIN15413

TYPE B RAMSHORN FORGED HOOK DIN15402 WITH CENTRAL BORE | MACHINED FITTED WITH NUT

Overall dimensions (mm)														DIN15413 Nut		Weight
No	a1	a2	a3	b1	d1	d2H15	e	f1	h1	d2 h11	d3	t3	l4	d7	h	(Kg)
10	90	71	116	75	75	74	192	377	130	64	Rd64x8	135	435	145	76	47
12	100	80	130	85	85	78	210	421	150	72	Rd72x8	157	492	165	87	65,5
16	112	90	146	95	95	86	237	471	170	80	Rd80x10	170	562	175	91	92
20	125	100	163	106	106	96	265	531	190	90	Rd90x10	187	628	185	102	128
25	140	112	182	118	118	106	315	598	212	100	Rd100x12	207	696	205	113	177
32	160	125	205	132	132	116	335	672	236	110	Rd110x12	232	768	240	131	254
40	180	140	230	150	150	131	375	754	265	125	Rd125x14	257	863	270	144	368
50	200	160	260	170	170	146	420	842	300	140	Rd140x16	280	944	320	153	513
63	224	180	292	190	190	168	460	944	335	160	Rd160x18	322	1072	360	181	718
80	250	200	325	212	212	188	515	1062	375	180	Rd180x20	357	1212	400	198	1002
100	280	224	364	236	236	208	575	1186	425	200	Rd200x22	402	1351	445	228	1398
125	315	250	408	265	265	235	645	1330	475	225	Rd225x24	465	1522	490	246	1967
160	355	280	458	300	300	260	725	1505	530	250	Rd250x28	510	1714	530	274	2770
200	400	315	515	335	335	282	800	1685	600	280	Rd280x32	613	1962	590	343	3930
250	450	355	580	375	375	312	875	1885	670	320	Rd320x36	690	2217	680	383	5655
320	500	400	650	425	425	330	950	2125	750	370	Rd360x36	780	2505	760	433	7602
400	560	450	730	475	475	370	1045	2375	840	415	Rd400x36	875	2820	865	482	10705

Forging tolerances acc. to DIN15402

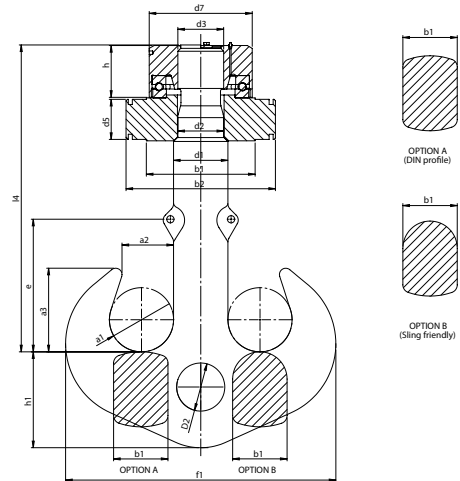
Modifications: shank length (l4). Further dimensions upon request.

Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



TYPE B RAMSHORN FORGED HOOK DIN15402 WITH CENTRAL BORE

Machined fitted with nut, crosshead and bearing



- WLL: from 1 t to 2000 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Strength class: P-S-T-V-W
- Design Factor: > 4
- Proof load test: recommended

- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request
- Thread DIN15403; Nut DIN15413; Crosshead DIN 15412; Assembly DIN15411

TYPE B RAMSHORN FORGED HOOK DIN15402 WITH CENTRAL BORE | MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING

Overall dimensions (mm)											DIN15412 Crosshead			DIN15413 Nut		Weight	
No	a1	a2	a3	b1	d1	d2H15	e	f1	h1	I4	b1	b2	d5 h9	d7	h		
10	90	71	116	75	75	74	192	377	130	Rd64x8	435	160	230	55	145	76	61,7
12	100	80	130	85	85	78	210	421	150	Rd72x8	492	180	265	60	165	87	87,5
16	112	90	146	95	95	86	237	471	170	Rd80x10	562	190	275	70	175	91	118,9
20	125	100	163	106	106	96	265	531	190	Rd90x10	628	200	295	80	185	102	161
25	140	112	182	118	118	106	315	598	212	Rd100x12	696	220	318	90	205	113	221,5
32	160	125	205	132	132	116	335	672	236	Rd110x12	768	260	378	100	240	131	323
40	180	140	230	150	150	131	375	754	265	Rd125x14	863	285	415	110	270	144	462
50	200	160	260	170	170	146	420	842	300	Rd140x16	944	335	465	125	320	153	656
63	224	180	292	190	190	168	460	944	335	Rd160x18	1072	380	522	140	360	181	921
80	250	200	325	212	212	188	515	1062	375	Rd180x20	1212	420	565	160	400	198	1281
100	280	224	364	236	236	208	575	1186	425	Rd200x22	1351	470	645	180	445	228	1788
125	315	250	408	265	265	235	645	1330	475	Rd225x24	1522	510	685	200	490	246	2496
160	355	280	458	300	300	260	725	1505	530	Rd250x28	1714	550	750	220	530	274	3485
200	400	315	515	335	335	282	800	1685	600	Rd280x32	1962	610	810	240	590	343	4911
250	450	355	580	375	375	312	875	1885	670	Rd320x36	2217	700	920	260	680	383	7037
320	500	400	650	425	425	330	950	2125	750	Rd360x36	2505	790	1030	280	760	433	9302
400	560	450	730	475	475	370	1045	2375	840	Rd400x36	2820	895	1145	300	865	482	13133

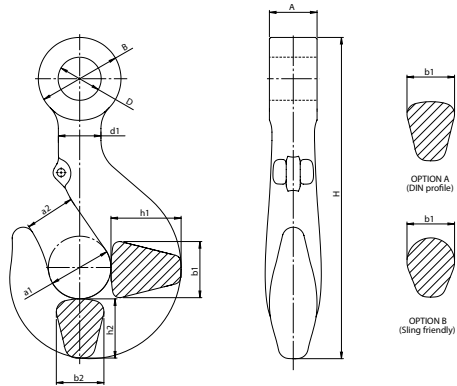
Forging tolerances acc. to DIN15402

Modifications: shank length (I4). Further dimensions upon request.

Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)



SINGLE FORGED EYE HOOK DIN15401 DESIGN



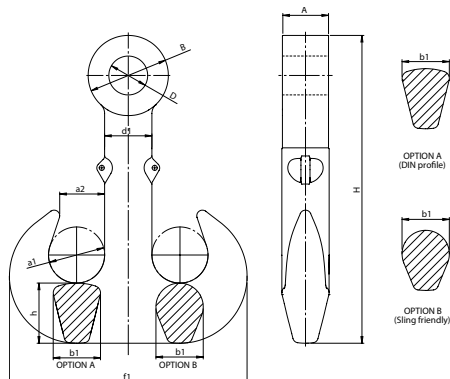
- WLL: from 80 t to 1800 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Design Factor: > 4
- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request

SINGLE FORGED EYE HOOK DIN15401 DESIGN														
Overall dimensions (mm)														Weight (Kg)
No	WLL(t)	MBL(t)	a1	a2	b1	b2	h1	h2	d1	A ±0,5	D H10	B	H	
16	80	320	140	112	125	106	160	132	95	100	87	180	746	96
20	100	400	160	125	140	118	180	150	106	125	100	210	812	137
25	120	480	180	140	160	132	200	170	118	130	100	210	927	190
32	150	600	200	160	180	150	224	190	132	139	114	240	1052	272
40	200	800	224	180	200	170	250	212	150	147	137	290	1201	397
50	250	1000	250	200	224	190	280	236	170	170	147	310	1314	531
63	300	1200	280	224	250	212	315	265	190	185	158	330	1448	730
80	400	1600	315	250	280	236	355	300	212	205	184	380	1685	1033
100	500	2000	355	280	315	265	400	335	236	230	194	400	1871	1430
125	600	2400	400	315	355	300	450	375	265	255	215	450	2075	1998
160	800	3200	450	355	400	335	500	425	300	280	240	500	2294	2786
200	1000	4000	500	400	450	375	560	475	335	320	280	580	2450	3836
250	1250	5000	560	450	500	425	630	530	375	355	315	650	2810	5442
320	1550	6200	630	500	560	475	710	580	425	355	335	680	3060	7231
400	1800	7200	710	560	630	530	800	630	475	410	395	750	3430	9995

Forging tolerances acc. to DIN15401
 Dimensional modifications upon request.
 Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)
 WLL with highest material grade



RAMSHORN FORGED EYE HOOK DIN15402 DESIGN



- WLL: from 80 t to 1800 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Design Factor: > 4
- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request

RAMSHORN FORGED EYE HOOK DIN15402 DESIGN

Overall dimensions (mm)													Weight
No	WLL(t)	MBL(t)	a1	a2	b1	h	d1	f1	A ±0.5	D H10	B	H	(Kg)
16	80	320	112	90	95	118	95	471	100	87	180	625	77
20	100	400	125	100	106	132	106	531	125	100	210	713	113
25	120	480	140	112	118	150	118	598	130	100	210	799	153
32	150	600	160	125	132	170	132	672	139	114	240	872	213
40	200	800	180	140	150	190	150	754	147	137	290	1004	307
50	250	1000	200	160	170	212	170	842	170	147	310	1112	420
63	300	1200	224	180	190	236	190	944	185	158	330	1210	577
80	400	1600	250	200	212	265	212	1062	205	184	380	1408	831
100	500	2000	280	224	236	300	236	1186	230	194	400	1536	1096
125	600	2400	315	250	265	335	265	1330	255	215	450	1708	1576
160	800	3200	355	280	300	375	300	1505	280	240	500	1879	2187
200	1000	4000	400	315	335	425	335	1685	320	280	580	2125	3063
250	1250	5000	450	355	375	475	375	1885	355	315	650	2240	4072
320	1550	6200	500	400	425	530	425	2125	355	335	680	2390	5532
400	1800	7200	560	450	475	600	475	2375	410	395	750	2545	7526

Forging tolerances acc. to DIN15402

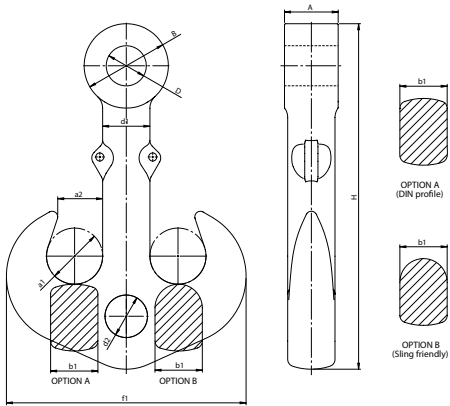
Dimensional modifications upon request.

Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)

WLL with highest material grade



TYPE B RAMSHORN FORGED EYE HOOK DIN15402 DESIGN WITH CENTRAL BORE



- WLL: from 80 t to 1800 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Design Factor: > 4
- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request

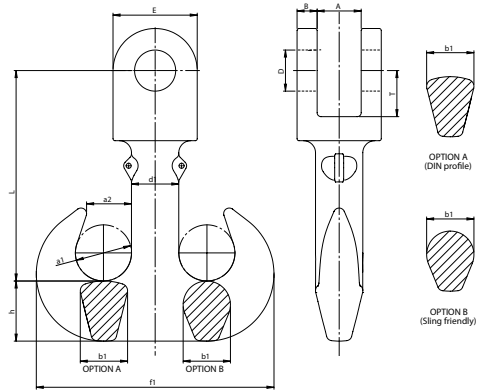
TYPE B RAMSHORN FORGED EYE HOOK DIN15402 DESIGN WITH CENTRAL BORE													
Overall dimensions (mm)													Weight
No	WLL(t)	MBL(t)	a1	a2	b1	d1	d2H15	f1	A ±0.5	D H10	B	H	(Kg)
16	80	320	112	90	95	95	86	471	100	87	180	678	84
20	100	400	125	100	106	106	96	531	125	100	210	771	120
25	120	480	140	112	118	118	106	598	130	100	210	862	169
32	150	600	160	125	132	132	116	672	139	114	240	938	236
40	200	800	180	140	150	150	131	754	147	137	290	1080	353
50	250	1000	200	160	170	170	146	842	170	147	310	1201	468
63	300	1200	224	180	190	190	168	944	185	158	330	1308	633
80	400	1600	250	200	212	212	188	1062	205	184	380	1518	898
100	500	2000	280	224	236	236	208	1186	230	194	400	1660	1240
125	600	2400	315	250	265	265	235	1330	255	215	450	1848	1730
160	800	3200	355	280	300	300	260	1505	280	240	500	2034	2442
200	1000	4000	400	315	335	335	282	1685	320	280	580	2300	3490
250	1250	5000	450	355	375	375	312	1885	355	315	650	2553	4855
320	1550	6200	500	400	425	425	330	2125	355	335	680	2755	6950
400	1800	7200	560	450	475	475	370	2375	410	395	750	2980	9834

Forging tolerances acc. to DIN15402
 Dimensional modifications upon request.
 Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)
 WLL with highest material grade





RAMSHORN FORGED EYE FORK HOOK DIN82019 DESIGN



- WLL: from 80 t to 1250 t
- Material: carbon steel, alloy steel; stainless steel upon request
- Design Factor: > 4

- Standard spring latch; for additional options see Spare Parts chapter
- Certification: 3.1 according to EN10204; 3.2 upon request

RAMSHORN FORGED EYE FORK HOOK DIN82019 DESIGN

Overall dimensions (mm)															Weight
No	WLL(t)	MBL(t)	a1	a2	b1	h	d1	f1	A	B	D H10	L	E	T	(Kg)
16	80	320	112	90	95	118	95	471	80	35	70	400	140	80	70
20	100	400	125	100	106	132	106	531	90	40	82	460	170	97	102
25	120	480	140	112	118	150	118	598	100	45	93	550	190	111	147
32	150	600	160	125	132	170	132	672	120	55	114	600	230	131	216
40	200	800	180	140	150	190	150	754	140	65	129	680	270	155	322
50	250	1000	200	160	170	212	170	842	156	70	144	750	296	168	441
63	300	1200	224	180	190	236	190	944	176	80	165	840	336	188	627
80	400	1600	250	200	212	265	212	1062	200	90	185	940	380	210	894
100	500	2000	280	224	236	300	236	1186	220	100	205	1050	420	230	1234
125	600	2400	315	250	265	335	265	1330	240	110	225	1160	460	250	1698
160	800	3200	355	280	300	375	300	1505	285	120	250	1325	530	290	2482
200	1000	4000	400	315	335	425	335	1685	320	140	290	1475	600	330	3505
250	1250	5000	450	355	375	475	375	1885	360	160	330	1600	680	367	4901

Forging tolerances acc. to DIN82019

Dimensional modifications upon request.

Design Factor (DF) = Minimum Breaking Load (MBL) / Working Load Limit (WLL)

WLL with highest material grade

CUSTOM HOOKS

Irizar Forge designs and manufactures forged hooks tailored to specific lifting applications, supporting capacities of up to 2000 t and ensuring compliance with safety, design, material performance and certification requirements.





→ HOOK BLOCKS



A hook block is a critical lifting component that connects the crane's wire rope system to the load. It integrates the hook, sheaves, and structural elements into a single assembly, ensuring safe load transfer, optimal load distribution, and reliable performance under demanding lifting conditions.

Hook blocks can be designed for a wide range of capacities and applications, incorporating single, double, or multiple-hook configurations, swivel mechanisms, and other customized features to meet specific operational requirements.

The design of a hook block is primarily determined by the crane type and its intended application, with the hook assembly and sheave arrangement being the key elements affecting performance, safety, and service life.

Irizar Forge offers a range of proven standard hook block solutions for industrial cranes, light to heavy-duty with a strong focus on:

- Easy disassembly to facilitate hook replacement and the exchange of internal components such as bearings and sheaves.
- Simplified maintenance through easy access to all lubrication points and rotating parts.
- Robust and reliable designs engineered for long service life in demanding operating environments.
- Enhanced safety through carefully engineered components and rigorous quality control procedures.

Each hook block is supplied with a comprehensive operation and maintenance manual, providing detailed instructions and recommendations to ensure safe operation, efficient maintenance, and maximum service life.

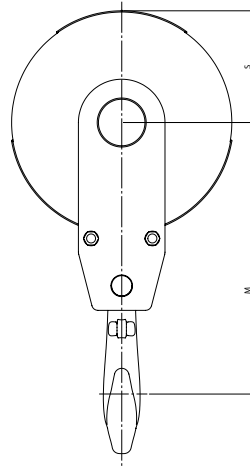
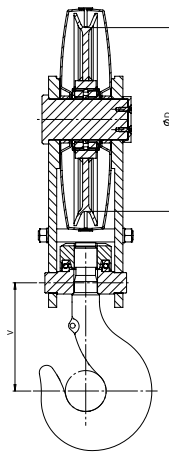
In addition to its standard product range, Irizar Forge develops fully customized hook block solutions, engineered to meet the specific technical, operational, and project requirements of each customer, combining advanced engineering expertise with the highest standards of safety, reliability, and performance.





ONE SHEAVE BLOCK

Light duty blocks



- WLL: from 2 t to 20 t
- Hook material: carbon steel, alloy steel
- Hook class reference: P-V
- Certification: Certificate of Conformity (CoC)
- Hook Assembly DIN15411
- Ramshorn hook DIN15402 upon request

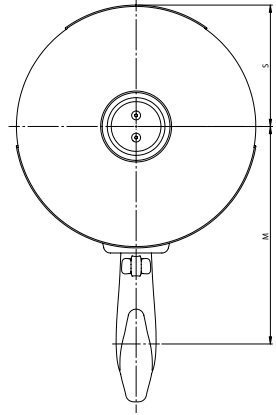
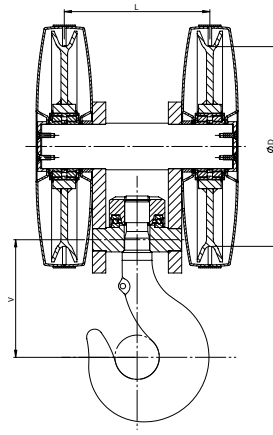
LIGHT DUTY BLOCKS ONE SHEAVE BLOCK (2/1)							
Overall dimensions (mm)							Weight
Hook no	WLL (t)	Wire rope (Ø)	Sheave (Ø)	V	M	S	(Kg)
0,8	2	7-8	160	120	285	105	12
1,6	4	9-10	200	140	345	131	20
2,5	6,3	15-16	280	1155	435	180	36
5	12,5	16-18	355	195	520	223	79
6	20	22-24	450	240	630	274	126

WLL with P material grade hooks



TWO SHEAVES BLOCK

Light duty blocks



- WLL: from 4 t to 32 t
- Hook material: carbon steel, alloy steel
- Hook class reference: P-V
- Certification: Certificate of Conformity (CoC)
- Hook Assembly DIN15411
- Ramshorn hook DIN15402 upon request

LIGHT DUTY BLOCKS TWO SHEAVES BLOCK (4/1)								
Overall dimensions (mm)								Weight
Hook No	WLL (t)	Wire Rope (Ø)	Sheave (Ø)	D	V	M	S	(Kg)
1,6	4	7-8	160	162	140	240	105	18
2,5	6,3	9-10	200	194	155	265	131	30
5	12,5	15-16	280	242	195	335	180	66
8	20	16-18	355	327	265	435	223	142
12	32	22-24	450	379	315	525	274	257

WLL with P material grade hooks

THREE AND FOUR SHEAVES

BLOCKS

Light duty blocks

SCAN FOR MORE
INFORMATION



Irizar Forge light duty crane hook blocks with three or four sheaves, are engineered for safe and reliable lifting operations, offering robust performance, high durability and compatibility with a wide range of light cranes.







TOWER CRANE HOOK BLOCKS

Irizar Forge tower crane hook-blocks are engineered for safe and reliable lifting operations, offering robust performance, high durability and compatibility with a wide range of tower cranes.



CUSTOM HOOK BLOCKS

Irizar Forge designs and manufactures forged hook blocks tailored to specific lifting applications, supporting capacities of up to 2000 t and ensuring compliance with safety, design, material performance, and certification requirements.





HOOK LATCHES

As part of our customer service, we provide spare parts for hooks such as safety latches and locking systems. For more information, please contact us at irizar@irizarforge.com.



STANDARD SPRING LATCH



STANDARD SPRING LATCH WITH LOCKING SYSTEM





ROV DIN7540 LATCH



LOAD TRANSFER HOOK LATCH



HEAVY DUTY LATCH



FIX LATCH





GRAVITY LATCH



HOOK ROTATION LOCKING SYSTEM

Enables hook anti-rotation locking without any additional machining of the hook.
Typically provided in 4 positions at 90° intervals.

FREE ROTATION



FOR 90° LOCKING POSITIONS





IRIZAR FORGE STUDS AND TAPER PINS

As part of our customer service, we provide spare parts for kenter shackles and anchor shackles such as Irizar Forge studs and taper pins. For more information, please contact us at irizar@irizarforge.com.

IRIZAR FORGE STUD FOR ANCHOR LINK



IRIZAR FORGE STUD FOR KENTER LINK



TAPER PIN



Irizar Forge studs are only compatible with Smart-Con Kenter Shackles fitted with an Irizar Forge stud and are not compatible with Kenter Shackles fitted with a taper pin.

ANNEX 1

DIN15400 Drive Groups

This table specifies the drive group as a function of hook strength class and the lifting capacity as a function of hook number.

Strength class	DRIVE GROUP										Strength class
M	Hooks used in a drive group lower than 1B _m are not included here.										M
P											P
S											S
T											T
V											V
Hook Number	LIFTING CAPACITY, IN KG										Hook Number
006	320	250	200	160	125	100	-	-	-	-	006
010	500	400	320	250	200	160	125	100	-	-	010
012	630	500	400	320	250	200	160	125	100	-	012
020	1.000	800	630	500	400	320	250	200	160	125	020
025	1.250	1.000	800	630	500	400	320	250	200	160	025
04	2.000	1.600	1.250	1.000	800	630	500	400	320	250	04
05	2.500	2.000	1.600	1.250	1.000	800	630	500	400	320	05
08	4.000	3.200	2.500	2.000	1.600	1.250	1.000	800	630	500	08
1	5.000	4.000	3.200	2.500	2.000	1.600	1.250	1.000	800	630	1
1.6	8.000	6.300	5.000	4.000	3.200	2.500	2.000	1.600	1.250	1.000	1.6
2.5	12.500	10.000	8.000	6.300	5.000	4.000	3.200	2.500	2.000	1.600	2.5
4	20.000	16.000	12.500	10.000	8.000	6.300	5.000	4.000	3.200	2.500	4
5	25.000	20.000	16.000	12.500	10.000	8.000	6.300	5.000	4.000	3.200	5
6	32.000	25.000	20.000	16.000	12.500	10.000	8.000	6.300	5.000	4.000	6
8	40.000	32.000	25.000	20.000	16.000	12.500	10.000	8.000	6.300	5.000	8
10	50.000	40.000	32.000	25.000	20.000	16.000	12.500	10.000	8.000	6.300	10
12	63.000	50.000	40.000	32.000	25.000	20.000	16.000	12.500	10.000	8.000	12
16	80.000	63.000	50.000	40.000	32.000	25.000	20.000	16.000	12.500	10.000	16
20	100.000	80.000	63.000	50.000	40.000	32.000	25.000	20.000	16.000	12.500	20
25	125.000	100.000	80.000	63.000	50.000	40.000	32.000	25.000	20.000	16.000	25
32	160.000	125.000	100.000	80.000	63.000	50.000	40.000	32.000	25.000	20.000	32
40	200.000	160.000	125.000	100.000	80.000	63.000	50.000	40.000	32.000	25.000	40
50	250.000	200.000	160.000	125.000	100.000	80.000	63.000	50.000	40.000	32.000	50
63	320.000	250.000	200.000	160.000	125.000	100.000	80.000	63.000	50.000	40.000	63
80	400.000	320.000	250.000	200.000	160.000	125.000	100.000	80.000	63.000	50.000	80
100	500.000	400.000	320.000	250.000	200.000	160.000	125.000	100.000	80.000	63.000	100
125	630.000	500.000	400.000	320.000	250.000	200.000	160.000	125.000	100.000	80.000	125
160	800.000	630.000	500.000	400.000	320.000	250.000	200.000	160.000	125.000	100.000	160
200	1.000.000	800.000	630.000	500.000	400.000	320.000	250.000	200.000	160.000	125.000	200
250	1.250.000	1.000.000	800.000	630.000	500.000	400.000	320.000	250.000	200.000	160.000	250

Reference values are based on old DIN15400 standard. For exact capacities, please contact our R&D Department at irizar@irizarforge.com.

Information about strength class W upon request.

VOCABULARY & ABBREVIATIONS

t	Metric ton (1,000kg)
ST	Short Ton; US customary unit of weight equal to 2,000 lb (907.185 kg). 1 ST = 2,000 lb.
kg	Kilogram
No	Number
mm	Millimeters
WLL	Working Load Limit
SWL	Safety Working Load
COC	Certificate of Conformity
COO	Certificate of Origin
DAC	Design Approval Certificate
CSIC	Classification Society Inspection Certificate
EN	European Standard
EN13001	New European Standard for Cranes
EN13001-3-5:2016	New European Standard for Forged Crane Hooks
EN10204	Metallic products - Types of inspection documents (Material Certificate recognized in Europe)
3.1	EN10204-3.1 Original Manufacturer Material Certificate, with tests results (no 3 rd Party)
2.1	EN10204-2.1 Original Manufacturer Assembly Certificate (no 3 rd Party)
3.2	EN10204-3.2 Third Party Material Certificate, with tests results (witnessed by 3 rd Party)
ILO-3	Load Test Certificate recognized by International Labour Office
PTL	Proof Test Load
FAT	Factory Acceptance Test
MBL	Minimum Breaking Load
LTM	Long Term Mooring
FEA	Finite Element Analysis
YS	Yield Strength
US	Ultimate Strength
FS	Fatigue Strength
PL	Proof Load by cold forming
DT	Destructive Test
NDT	Non Destructive Test
UT	Ultrasonic Test
MT	Magnetic Test
+QT	Quenched & Tempered (a kind of heat treatment)
+N	Normalizing (a kind of heat treatment)
R4	Alloy steel linked to chain materials
DF	Design Factor (MBL/WLL)
SF	Safety Factor (MBL/WLL)
BS	British Standard
BS2903	Old recognized British Standard for crane shank hooks
DIN	Deutsches Institut für Normung
DIN15400	Old recognized European standard for crane shank hooks
CLASS P	Very low mechanical properties material (regularly carbon steel)
CLASS S	Low mechanical properties material (regularly low alloy steel)
CLASS T	Medium mechanical properties material (regularly medium alloy steel)
CLASS V	High mechanical properties material (regularly high alloy steel)
CLASS W	Very high mechanical properties material (regularly super alloy steel)



INDEX BY PRODUCT NAME

ONSHORE

CRANE HOOKS

SINGLE FORGED HOOK DIN15401 DESIGN UNMACHINED.....	9
SINGLE FORGED HOOK DIN15401 DESIGN MACHINED FITTED WITH NUT.....	10
SINGLE FORGED HOOK DIN15401 DESIGN MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING.....	11
IRIZAR FORGE NA SERIES UNMACHINED.....	12
SINGLE FORGED HOOK BS2903:1980 DESIGN MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING.....	13
RAMSHORN FORGED HOOK DIN15402 DESIGN UNMACHINED.....	14
RAMSHORE FORGED HOOK DIN15402 DESIGN MACHINED FITTED WITH NUT.....	15
RAMSHORN FORGED HOOK DIN15402 DESIGN MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING.....	16
RAMSHORN FORGED HOOK BS3017:1958 DESIGN MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING.....	17
TYPE B RAMSHORN FORGED HOOK DIN15402 WITH CENTRAL BORE UNMACHINED.....	18
TYPE B RAMSHORN FORGED HOOK DIN15402 WITH CENTRAL BORE MACHINED FITTED WITH NUT.....	19
TYPE B RAMSHORN FORGED HOOK DIN15402 WITH CENTRAL BORE MACHINED FITTED WITH NUT, CROSSHEAD AND BEARING.....	20
SINGLE FORGED EYE HOOK BASED ON DIN15401 DESIGN.....	21
RAMSHORN FORGED EYE HOOK BASED ON DIN15402 DESIGN.....	22
TYPE B RAMSHORN FORGED EYE HOOK BASED ON DIN15402 DESIGN WITH CENTRAL BORE.....	23
RAMSHORN FORGED EYE FORK HOOK BASED ON DIN82019 DESIGN.....	25
CUSTOM HOOKS.....	26

HOOK BLOCKS

LIGHT DUTY BLOCKS ONE SHEAVE BLOCK.....	29
LIGHT DUTY BLOCKS TWO SHEAVES BLOCK.....	30
LIGHT DUTY BLOCKS THREE AND FOUR SHEAVES BLOCK.....	31
TOWER CRANE HOOK BLOCKS.....	33
CUSTOM HOOK BLOCKS.....	34



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