





# SPECIFICATION FOR FORGED CRANE HOOKS

BASED ON IS : 3815-1969

IPSS : 1-08-004-94

**TABLE 1 DIMENSIONS OF CRANE HOOKS**  
( Clauses 3.1, 4.5.1 and 5.2 ) ( All dimensions, unless otherwise specified are in millimetres )

Sl. No.	Safe Working Load ( In Tonnes )		Proof Load in Tonnes	D	S	b	h	d	d <sub>1</sub>	d <sub>2</sub>	L		t	t <sub>1</sub>	t <sub>2</sub>	t <sub>3</sub>	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>	Bore Dimension Series	Outside Diameter	Height	Chamfer Diameter Series	Diameter Series				
	Medium Duty	Heavy Duty									Type A	Type B																Min. Type A	Min. Type B		
1	1.0	0.8	2.0	36	26	22	32	25	20	M 20	105	130	50	75	30	18	5.5	18	18	45	13	36	40	6	2.5	20	11	35	10	0.5	1
2	1.25	1.0	2.5	40	30	24	36	25	20	M 20	110	140	55	85	30	20	6	20	20	50	15	40	45	6.5	2.5	20	11	35	10	0.5	1
3	1.6	1.25	3.2	45	33	26	40	30	25	M 24	130	160	65	95	35	22	6	30	22	56	17	45	50	7	2.5	25	12	47	15	1	2
4	2.0	1.60	4.0	50	36	30	45	35	30	M 27	145	170	70	100	40	25	7	36	25	62	18	50	55	8	2.5	30	12	52	16	1	2
5	2.5	2.0	5.0	55	40	34	52	35	30	M 30	165	200	85	120	45	30	8	38	28	70	20	55	60	10	2.5	35	13	60	21	1.5	3
6	3.2	2.5	6.4	60	45	38	55	40	35	M 33	180	220	90	130	50	34	9	42	30	78	21	60	70	10	2.5	35	13	68	24	1.5	3
7	4.0	3.2	8.0	65	50	40	65	45	40	M 36	195	240	95	140	55	36	9	45	35	90	22	70	80	10	2.5	40	13	78	26	1.5	3
8	5.0	4.0	10.0	75	55	48	75	52	45	M 42	250	300	105	150	60	38	10	50	40	100	25	75	85	11	2.5	45	13	85	28	1.5	3
9	6.3	5.0	12.6	85	65	54	82	56	50	M 48	280	340	120	170	70	42	12	60	45	110	28	85	95	12	2.5	50	13	95	31	2	3
10	8.0	6.3	16.0	95	75	60	90	62	55	M 52	310	380	135	190	80	46	13	65	50	125	30	95	110	15	2.5	55	13	105	35	2	3
11	10.0	8.0	20.0	110	85	65	100	68	60	M 56	340	420	150	210	90	55	13	75	55	140	34	110	120	18	2.5	60	13	110	35	2	3
12	12.5	10.0	25.0	120	90	75	115	80	70	M 64	415	500	165	230	100	60	14	84	62	155	36	120	125	20	2.5	70	13	125	40	2	3
13	16.0	12.5	32.0	130	100	80	130	85	75	M 70x10	440	540	180	250	110	62	16	90	70	170	40	130	140	21	2.5	75	13	135	44	2.5	3
14	20.0	16.0	40.0	150	115	90	150	95	85	M 80x10	480	590	210	280	120	66	18	105	75	200	45	150	170	22	2.5	85	13	150	49	2.5	3
15	25.0	20.0	50.0	170	130	102	164	110	100	M 90x12	535	650	230	310	130	80	20	120	100	220	50	170	190	30	2.5	100	15	170	55	2.5	3
16	32.0	25.0	60.0	190	145	115	184	125	110	M 100x12	580	700	260	350	140	95	23	135	110	245	60	190	210	32	5	110	13	190	63	3	3
17	40.0	32.0	70.0	210	160	130	205	135	120	M 110x12	675	800	280	380	150	110	25	150	120	270	60	210	230	35	5	120	13	210	70	3.5	3
18	50.0	40.0	85.0	240	180	150	240	160	140	M 120x16	730	870	330	440	160	120	30	170	130	320	65	240	280	40	5	140	13	240	80	3.5	3
19	63.0	50.0	105.0	270	205	165	260	170	150	M 140x16	820	980	360	480	170	135	35	190	140	350	65	270	300	44	7.5	150	13	250	80	3.5	3
20	80.0	63.0	135.0	300	230	190	290	190	170	M 160x16	840	1000	400	530	180	150	38	210	150	390	75	300	330	45	7.5	170	13	270	88	4.0	1
21	100.0	80.0	170.0	350	250	200	320	200	180	M 170x16	860	1030	440	580	190	160	40	230	155	420	100	340	370	46	7.5	180	13	290	96	4.0	1

\* IS : 3832 (Under Rev.) Boundary dimensions for thrust ball bearings with flat seats for Sl. No. 1 to 19  
 \* IS : 3869-1967 General dimension of boundary dimensions for roller bearing for Sl. No. 20 and 21  
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 \* IS : 3869-1967 General dimension of boundary dimensions for roller bearing for Sl. No. 20 and 21