

# THE HYDROMEC FAMILY IN AUSTRALIA



Input speed (n1) = 1400 min<sup>-1</sup>

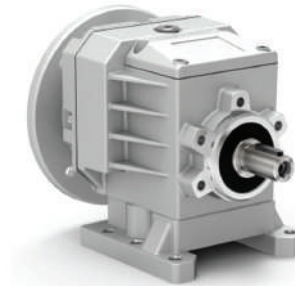
FROM 0.18kw to 45kw

Q75

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>IN</sub> [kW]	Nominal torque M <sub>2N</sub> [Nm]	Available B5 motor flanges				Available B14 motor flanges			Dynamic efficiency RD	Tooth Module [mm]	Ratios code	
							-C	-D	-E	-F	-R	-T	-U				
							71	80	90	100	112	80	90				100
200	7	4	172	1.1	4.4	190	B	B			B	B			90	3.75	01
140	10	4	240	1.0	3.8	230	B	B			B	B			88	3.75	02
93	15	3	261	1.0	2.9	250	B	B			B	B			85	3.75	03
70	20	2.2	249	1.0	2.2	250	B	B			B	B			83	3.00	04
56	25	1.5	205	1.2	1.8	250	B	B			B	B			80	2.41	05
45	31	1.5	244	1.1	1.7	270	B	B			B	B			77	3.75	06
35	40	1.5	295	0.9	1.3	255	B	B			B	B			72	3.10	07
28	50	0.75	174	1.3	0.95	220	B	B			B	B			68	2.41	08
23	60	0.75	200	1.0	0.75	200	B	B			B	B			65	2.10	09
17.5	80	0.55	177	1.0	0.56	180	B	B			B	B			59	1.53	10
14.0	100	0.55*	206	0.7	0.40	150	B	B			B	B			55	1.23	11



**Worm gearboxes**  
0.18kW to 7.5kW  
14mm to 42mm shaft



**Aluminium In-line helical gearboxes**  
0.25kW to 7.5kW  
14mm to 35mm shaft



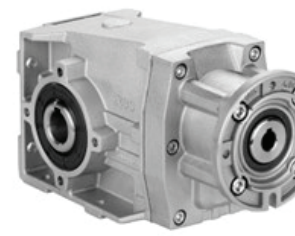
**Cast Iron In-line helical gearboxes**  
0.18kW to 45kW  
30mm to 70mm shaft

Q85

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>IN</sub> [kW]	Nominal torque M <sub>2N</sub> [Nm]	Available B5 motor flanges				Available B14 motor flanges			Dynamic efficiency RD	Tooth Module [mm]	Ratios code	
							-C	-D	-E	-F	-R	-T	-U				
							71	80	90	100	112	80	90				100
200	7	4.0	168	1.5	6.1	257	B	B			B	B			88	4.23	01
140	10	4.0	218	1.3	5.2	284	B	B			B	B			80	4.2	02
100	14	3.0	223	1.4	4.1	305	B	B			B	B			78	4.5	03
70	20	2.2	237	1.2	2.7	294	B	B			B	B			79	3.4	04
64	22	2.2	258	1.1	2.5	294	B	B			B	B			78	3.1	05
50	28	2.2	315	1.1	2.4	347	B	B			B	B			75	4.7	06
37	38	1.5	276	1.2	1.8	336	B	B			B	B			71	3.5	07
30	46	1.5	320	1.0	1.5	326	B	B			B	B			68	3.1	08
27	52	1.1	258	1.1	1.2	289	B	B			B	B			66	2.7	09
21	67	1.1	327	0.9	0.97	289	B	B			B	B			65	2.1	10
18.9	74	0.75	220	1.2	0.91	268	B	B			B	B			58	1.9	11
14.6	96	0.55	191	1.3	0.70	242	B	B			B	B			53	1.5	12



**Square worm gearboxes**  
0.09kW to 15kW  
14mm to 50mm shaft



**Aluminium helical bevel gearboxes**  
0.09kW to 5.5kW  
20mm to 35mm shaft



**Cast Iron helical bevel gearboxes**  
1.1kW to 45kW  
40mm to 70mm shaft

Q11

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>IN</sub> [kW]	Nominal torque M <sub>2N</sub> [Nm]	Available B5 motor flanges					Available B14 motor flanges				Dynamic efficiency RD	Tooth Module [mm]	Ratios code
							-C	-D	-E	-F	-G	-R	-T	-U	-V			
							71	80	90	100	112	132	80	90	100			
200	7	7.5	315	1.5	11.5	483	B	B				B	B			88	5.5	01
140	10	7.5	440	1.2	9.0	525	B	B				B	B			86	5.4	02
88	16	5.5	492	1.1	6.0	536	B	B				B	B			82	5.3	03
70	20	4.0	447	1.2	4.9	546	B	B				B	B			82	4.5	04
61	23	3.0	377	1.4	4.1	515	B	B				B	B			80	3.9	05
47	30	3.0	467	1.4	4.2	651	B	B				B	B			76	5.6	06
37	38	3.0	583	1.1	3.3	641	B	B				B	B			75	4.7	07
31	45	2.2	493	1.2	2.7	599	B	B				B	B			73	4.0	08
26	53	2.2	557	1.1	2.5	620	B	B				B	B			70	3.5	09
22	64	1.5	452	1.2	1.8	536	B	B				B	B			69	2.9	10
16.7	84	1.1	410	1.2	1.3	494	B	B				B	B			65	2.2	11
14.1	99	1.1	446	1.1	1.2	483	B	B				B	B			60	1.9	12

Q13

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>IN</sub> [kW]	Nominal torque M <sub>2N</sub> [Nm]	Available B5 motor flanges			B14 motor flanges not available				Dynamic efficiency RD	Tooth Module [mm]	Ratios code	
							-E	-F	-G								
							90	100	112	132							
187	7.5	7.5	345	2.1	16.1	741	B								90	6.11	01
140	10	7.5	455	1.8	13.5	820	B								89	6.45	02
93	15	7.5	668	1.4	10.3	917	B								87	6.72	03
70	20	7.5	870	1.0	7.8	905	B								85	5.24	04
56	25	5.5	788	1.2	6.5	931	B								84	4.28	05
46.7	30	5.5	900	1.2	6.4	1047	B								80	6.91	06
35	40	4.0	851	1.2	4.9	1043	B								78	5.36	07
28	50	4.0	1023	0.9	3.8	972	B								75	4.35	08
23.3	60	3.0	896	1.0	3.1	928	B								73	3.65	09
17.5	80	2.2	816	1.0	2.3	853	B								68	2.76	10
14	100	1.5	655	1.1	1.7	742	B								64	2.23	11



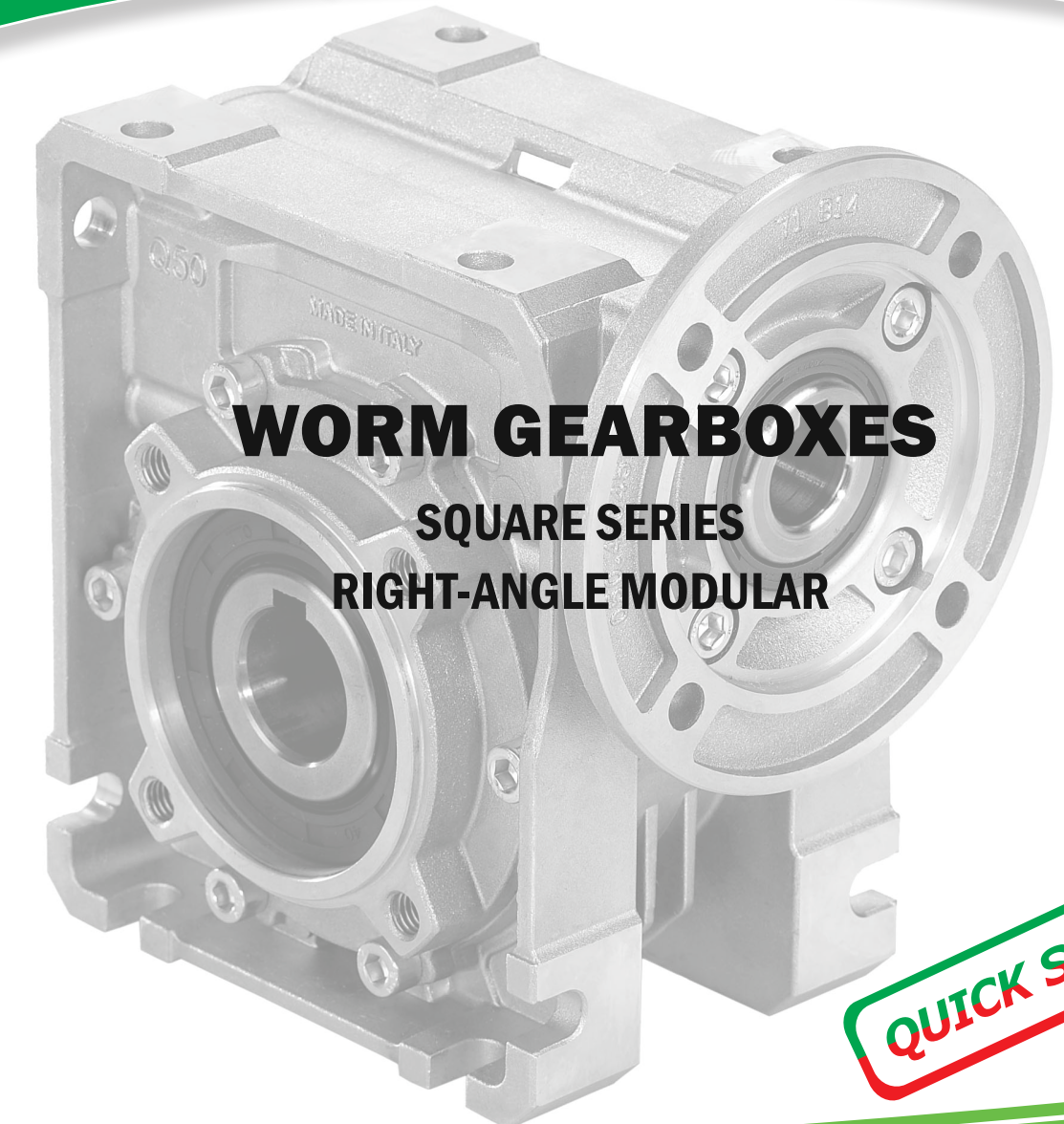
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	Belmont Ph: (08) 9478 2444	Bunbury Ph: (08) 9724 9100	Collie Ph: (08) 9734 1624	Geraldton Ph: (08) 9964 4655		
	Kalgoorlie Ph: (08) 9091 4111	Karratha Ph: (08) 9144 2333	Linear Head Office Ph: (08) 9475 5000	Naval Base Ph: (08) 9410 1800		
		Wangara Ph: (08) 9303 6900				
QLD	Coopers Plains (State H/Office) 902 Beaudesert Road Coopers Plains QLD 4108 Ph: (07) 3717 4444	Coopers Plains Linear dept Ph: (07) 3717 4452	Cairns Ph: (07) 4035 1800	Townsville Ph: (07) 4758 8855		
		Mackay Ph: (07) 4952 6660	Rockhampton Ph: (07) 4927 2677	Virginia Ph: (07) 3265 2666		
NSW	Smithfield (State H/Office) Unit 2, 324 Woodpark Road Smithfield NSW 2164 Ph: (02) 9616 0000	Beresfield (Newcastle) Ph: (02) 4041 6444	Smithfield Linear dept Ph: (02) 9616 0066	Wollongong Ph: (02) 4272 2377		
VIC	Dandenong South (State H/Office) 84 Greens Road Dandenong Sth VIC 3175 Ph: (03) 8710 9777	Dandenong South Linear dept Ph: (03) 9755 6044	Somerton Ph: (03) 9308 0055	Traralgon Ph: (03) 5172 3000		
	TAS	Hobart 39 Sunderland Street Derwent Park TAS 7009 Ph: (03) 6216 6999	INDONESIA Ph: (62) 542 7031166			
SA	Wingfield 13 Streiff Road Wingfield SA 5013 Ph: (08) 8260 6299	Wingfield Linear dept Ph: (08) 8260 6299				



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**HYDRO·MEC**



**QUICK SELECTOR**



Input speed (n1) = min -1

Q30	Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [Nm]	Available B5 motor flanges		Available B14 motor flanges		Dynamic efficiency RD	Tooth Module [mm]	Ratios code
								-A	-B	-O	-P			
	280	5	0.18	5	3.3	0.60	17	B		B-C		82	1.26	01
	200	7	0.18	7	2.4	0.44	17	B		B-C		80	1.44	02
	140	10	0.18	10	1.8	0.32	17	B		B-C		78	1.44	03
	93	15	0.18	13	1.4	0.25	19	B		B-C		73	1.44	04
	70	20	0.18	17	1.1	0.20	19	B		B-C		70	1.09	05
	47	30	0.12	15	1.4	0.17	21	B		B-C		62	1.44	06
	35	40	0.12	19	1.1	0.13	20	B		B-C		57	1.09	07
	23	61	0.09	19	1.1	0.10	20	B		B-C		50	0.72	08
	17.5	80	0.06	16	1.0	0.06	16	B		B-C		48	0.56	09
	14	100	0.06	16	0.5	0.03	8	B		B-C		40	0.45	10

Q45	Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [Nm]	Available B5 motor flanges		Available B14 motor flanges		Dynamic efficiency RD	Tooth Module [mm]	Ratios code
								-B	-C	-O	-P			
	200	7	0.37	14	2.2	0.80	30	B		B-C	B-C	80	2.2	01
	140	10	0.37	20	1.5	0.57	30	B		B-C	B-C	79	2.2	02
	100	14	0.37	27	1.1	0.41	30	B		B-C	B-C	77	2.4	03
	67	21	0.37	36	1.2	0.43	41	B		B-C	B-C	67	1.6	04
	50	28	0.25	31	1.3	0.33	41	B		B-C	B-C	65	2.5	05
	38	37	0.25	40	1.0	0.26	41	B		B-C	B-C	63	1.8	06
	30	46	0.25	46	0.9	0.22	41	B		B-C	B-C	59	1.5	07
	23	60	0.18	41	1.0	0.18	41	B		B-C	B-C	56	1.2	08
	20	70	0.12	31	1.0	0.12	30	B		B-C	B-C	54	1.0	09
	13.7	102	0.09	31	1.0	0.09	29	B		B-C	B-C	49	0.72	10

Q50	Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [Nm]	Available B5 motor flanges			Available B14 motor flanges			Dynamic efficiency RD	Tooth Module [mm]	Ratios code
								-B	-C	-D	-O	-P	-Q			
	200	7	0.75	29	1.9	1.5	57	B	B		B-C	B	82	2.5	01	
	140	10	0.75	41	1.5	1.1	62	B	B		B-C	B	80	2.4	02	
	100	14	0.75	57	1.2	0.90	68	B	B		B-C	B	79	2.6	03	
	78	18	0.55	51	1.2	0.67	62	B	B		B-C	B	75	2.0	04	
	54	26	0.55	67	1.0	0.54	66	B	B		B-C	B	69	2.7	05	
	47	30	0.55	79	0.9	0.50	72	B	B		B-C	B	70	2.5	12	
	39	36	0.37	63	1.2	0.43	72	B		B-C	B	69	2.1	06		
	33	43	0.37	72	1.0	0.35	68	B		B-C	B	66	1.8	07		
	28	50	0.25	53	1.2	0.31	66	B		B-C	B	62	1.5	13		
	23	60	0.25	59	1.0	0.26	62	B		B-C	B	58	1.3	08		
	21	68	0.25	66	0.9	0.22	58	B		B-C	B	57	1.2	09		
	17.5	80	0.18	53	1.1	0.19	57	B		B-C	B	54	1.0	10		
	14	100	0.12	41	1.3	0.15	51	B		B-C	B	50	0.8	11		

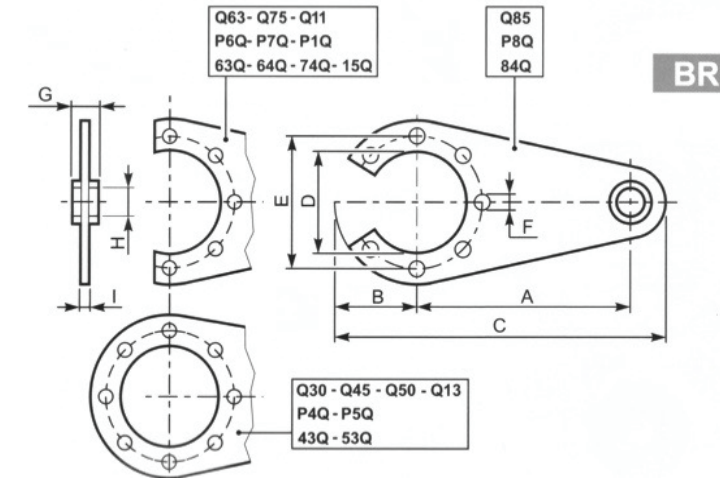
Q63	Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [Nm]	Available B5 motor flanges			Available B14 motor flanges			Dynamic efficiency RD	Tooth Module [mm]	Ratios code
								-B	-C	-D	-E	-Q	-R			
	200	7	1.8	71	1.8	3.2	125	B	B		B-C	B-C	83	3.1	01	
	140	10	1.8	99	1.4	2.4	134	B	B		B-C	B-C	81	3.1	02	
	93	15	1.5	121	1.1	1.7	138	B	B		B-C	B-C	79	3.1	03	
	74	19	1.1	111	1.2	1.4	138	B	B		B-C	B-C	78	2.6	04	
	58	24	1.1	135	1.0	1.2	142	B	B		B-C	B-C	75	2.0	05	
	47	30	1.1	167	0.9	0.96	146	B	B		B-C	B-C	74	3.2	06	
	39	36	0.75	125	1.2	0.88	147	B	B		B-C	B-C	68	2.7	07	
	35	40	0.75	135	1.0	0.78	140	B	B		B-C	B-C	66	2.5	13	
	31	45	0.55	111	1.2	0.67	135	B	B		B-C	C	66	2.1	08	
	23	60	0.55	140	0.9	0.51	130	B	B		B-C	C	62	1.6	12	
	21	67	0.55	151	0.8	0.45	124	B	B		B-C	C	60	1.5	09	
	17.5	80	0.37	115	1.0	0.38	119	B	B		B-C	C	57	1.3	10	
	14.9	94	0.37	123	1.0	0.36	119	B	B		B-C	C	52	1.1	11	

Input speed (n1) = 1400 min -1

Q15	Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [Nm]	Available B5 motor flanges			B14 motor flanges not available				Dynamic efficiency RD	Tooth Module [mm]	Ratios code
								-F	-G	-H	-	-	-	-			
	187	7.5	15	698	1.7	25.8	1200	B							91	5.5	01
	140	10	15	921	1.3	20.2	1240	B							90	6.155	02
	93	15	11	990	1.3	13.9	1250	B							88	5.5	03
	70	20	11	1291	1.0	11.1	1300	B							86	6.155	04
	56	25	9	1289	0.9	8.4	1200	B							84	5	05
	46.7	30	7.5	1274	0.9	7.1	1200	B							83	4.193	06
	35	40	7.5	1596	1.0	7.3	1550	B							78	6.155	07
	28	50	5.5	1426	1.0	5.4	1400	B							76	5	08
	23.3	60	4	1195	1.1	4.2	1260	B							73	4.193	09
	17.5	80	3	1113	1.0	3.1	1150	B							68	3.17	10
	14	100	2.2	960	1.0	2.3	1000	B							64	2.55	11

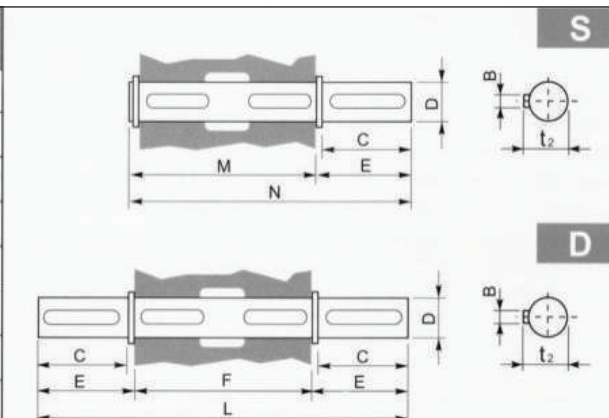
Torque Arms

	A	B	C	D	E	F	G	H	I
Q30	85	38	138	55	65	7	14	8	4
Q45	100	44	162	60	75	7	14	10	4
Q50	100	55	173	70	85	9	14	10	4
Q63	150	55	235	76	90	9	20	11	6
Q75	200	63	230	90	110	9	25	21	6
Q85	200	80	320	111	130	11	25	21	6
Q11	250	100	391	130.5	165	13	25	21	6
Q13	250	125	410	180	215	13	30	25	6



Single & Double Output Shafts

	B	C	D <sup>+0.005</sup> <sub>-0.020</sub>	E	F	L	M	N	t <sub>2</sub>
Q30	5	25	14	35.5	55	126	59	94.5	15.8
Q45	6	32	18	43	65	151	70	113	20.5
Q50	8	52	25	59.5	81	200	86.5	146	28.0
Q63	8	60	25	63.2	120	246.4	126.8	190	28.0
Q75	8	60	30	65	127	255	134	199	33.0
Q85	10	60	35	73.5	135	282	141	214.5	38.0
Q11	12	75	42	96.5	155	348	163.5	260	45.0
Q13	14	80	45	85	170	340	180	265	48.5



	Q30	Q45	Q50	Q63	Q75	Q85	Q11	Q13
A	30	45	50	63	75	85	110	130
B (H8)	14	18	25	25	30	35	42	45
C	55	65	81	120	127	135	155	170
C1	63	78	92	-	-	-	-	-
D	9	11	16	18	25	25	25	-
E	20	30	30	45	50	50	50	-
F Max	62.5	80	83.5	99.5	121.5	124	143.5	180
F1	40	50	60	72.5	87	100	125	147.5
G	40	50	60	72.5	87	100	125	147.5
I	44	60	70	76	82	101	115	120
J	27	35	40	51	63	72	92	100
J1	44	55	64	88.5	109.5	117.5	150	140
J2	-	-	-	37.5	46.5	45.5	58	-
J3	97	121.5	144	182.5	220.5	245.5	308	335
L	56	71	85	94	104	125	143	155
L1	29	36.5	43.5	53	58.5	64	74	81
L2	2.5	2.5	2.5	3	3	3.5	3.5	4
M	54	70	80	102	126	144	184	200
N	80	100	120	145	174	200	250	292.5
O	4 - M6x11	4 - M6x12	4 - M8x11	12 - M8x14	12 - M8x16	4 - M10x17	8 - M12x21	8 - M12x21
O1	6.5	9	9	11	11	11	12.5	12.5
P1	70	95	95	110	110	142	142	150
R1	4	4	4	5	5	6	6	6
S1	54.5	67	97	90	120	86	116	85
T1	68	75	75	85	85	150	150	165
U1	80	110	110	125	125	180	200	205
V1	50 H8	60 H8	60 H8	70 H8	70 H8	115 <sup>+0.025</sup> <sub>-0.15</sub>	115 <sup>+0.025</sup> <sub>-0.15</sub>	130 H8
Z1	6	7	7	9	9	12	12	12
O2	-	F1	F2	F1	F2	F1	F2	-
R2	-	9.5	9	9.5	11	13	11	-
S2	-	5	5	5	5	7	7	-
T2	-	80	58	89	72	110	124	-
U2	-	115	100</					