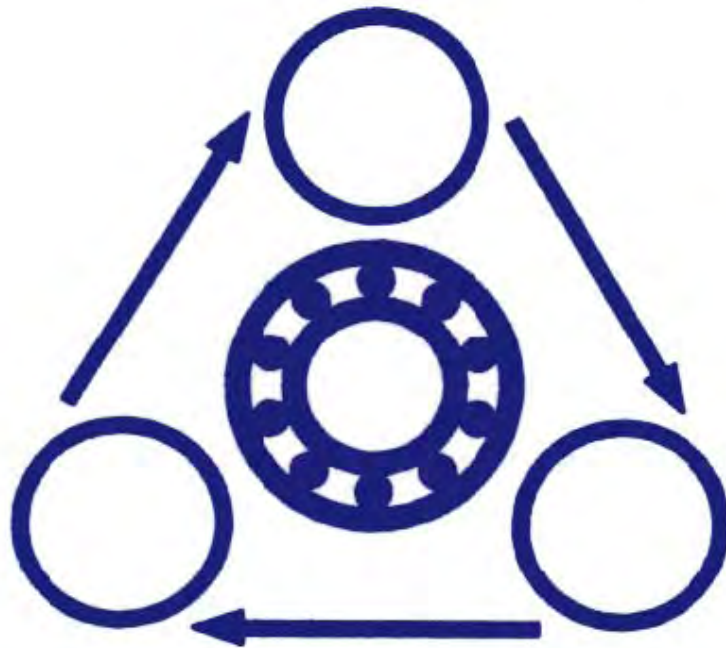


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**DRIVES,  
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CATALOGUE**

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**ASHLEY POWER**



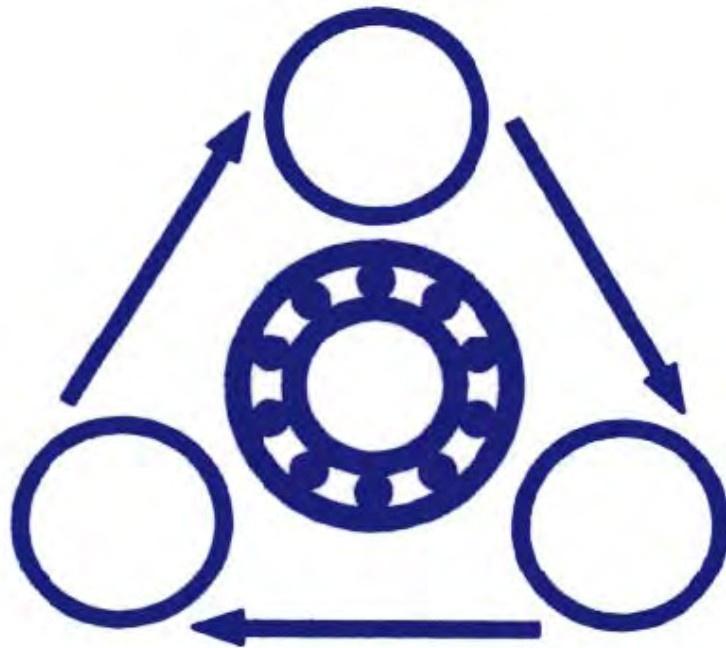
# Inverters, Electric Motors, Gearboxes, Couplings & Universal Joint Contents

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Couplings & Universal Joints.....	J

Please note: At Ashley Power we take care to ensure that all information is correct at time of printing however some errors and omissions excepted.

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**INVERTERS  
&  
ELECTRIC MOTORS  
CATALOGUE**



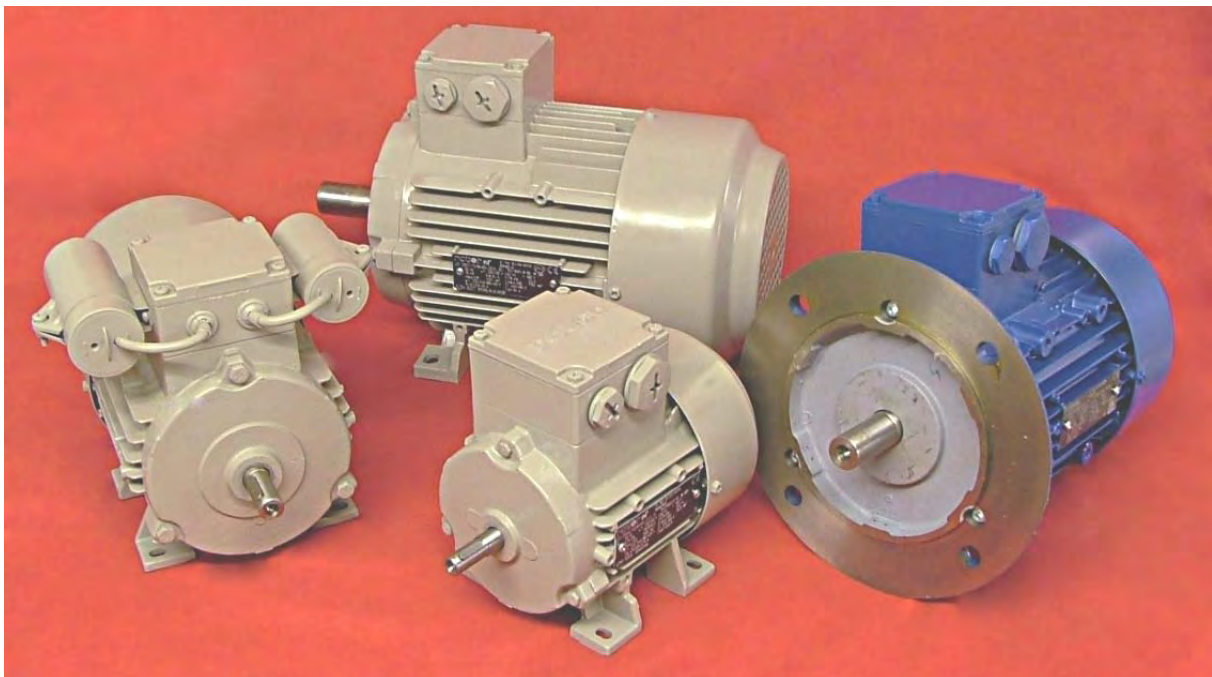
**ASHLEY POWER**



# INVERTERS



# ELECTRIC MOTORS





# Inverters & Electric Motors Contents

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\*For details of Motor Dimensions 180—315, please call or email for more information

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## **Introduction**

The 650 series is a family of AC drives that provide a no-fuss, cost effective solution for the simplest to the most complex open-loop AC motor control applications. The 650 has single key selectable pre-programmed applications so set-up is quick and easy without unnecessary complications.

Powers are available up to 1.5kW on Single Phase 230V supplies, and up to 110kW on Three Phase 400V supplies, and all units are available with integral EMC compliant filters.

## **Technical Specification**

**Power Supply:** Single Phase Units: 220 - 240Vac +/- 10%; 50 - 60Hz +/- 5%  
Three Phase Units: 380 - 460Vac +/- 10%; 50 - 60Hz +/-5%

**Ambient:** 0 - 40°C

**Overload:** 150% for 30 Seconds

**Output Frequency:** 0 - 240Hz

**Environmental Protection:** IP20

### **Inputs/Outputs**

**Analogue Inputs:** 2; Speed control (0 - 10V, 4 - 20mA)

**Analogue Outputs:** 1; User configurable output frequency/load (0 - 10V)

**Digital Inputs:** 3 (650V 6); User configurable start/stop/direction/pre-set speeds (8)

**Digital Inputs/Outputs:** 1 (650V 2); User configurable as input or output

**Digital Relay Outputs:** 1; User configurable relay output (1A @ 240V)

All outputs configurable for : at (not at) speed / at (above) min speed / running (stopped) / healthy (tripped) / above (below) preset load.

### **Motor Thermistor Input**

### **Integral Programming/Control Module**

6 Button password protectable keypad giving control of:

- Start / Stop
- Direction
- Raise / Lower Speed
- Menu Navigation
- Parameter Setting

Backlit LCD giving 4-digit readout of:

- Output Current
- Setpoint Frequency
- Drive Rotating Warning
- Status Alarms (inc. Drive Ready; Overcurrent Trip; Overvoltage Trip; Heatsink Overtemp.; Motor Overtemp. + others)



**Single Phase Controllers (230V Nominal)**

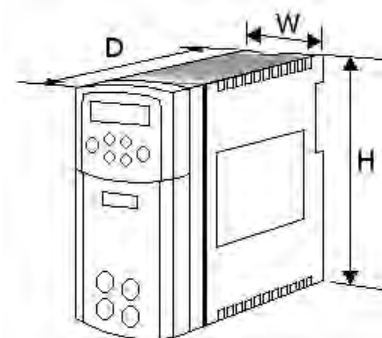
**Three Phase Controllers (400V Nominal)**

Type	Nominal Power (kW)	Output Current (A)	Package Size	Price (£)
650-002-230-F	0.25	1.5	1	116.10
650-003-230-F	0.37	2.2	1	125.10
650-005-230-F	0.55	3.0	1	136.80
650-007-230-F	0.75	4.0	1	160.20
650-011-230-F	1.1	5.5	2	216.00
650-015-230-F	1.5	7.0	2	229.50

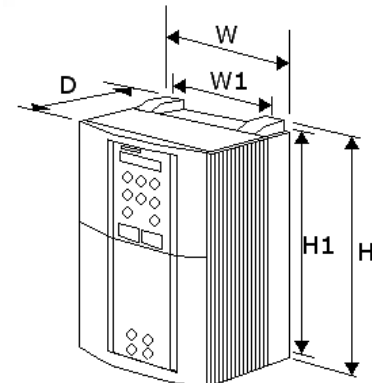
Type	Nominal Power (kW)	Output Current (A)	Package Size	Price (£)
650-003-400-F	0.37	1.5	2	229.50
650-005-400-F	0.55	2.0	2	242.10
650-007-400-F	0.75	2.5	2	255.60
650-011-400-F	1.1	3.5	2	265.50
650-015-400-F	1.5	4.5	2	292.50
650-022-400-F	2.2	5.5	2	355.50
650-030-400-F	3	6.8	3	442.80
650-040-400-F	4	9.0	3	468.90
650-055-400-F	5.5	12	3	560.70
650-075-400-F	7.5	16	3	742.50
650VC-0110-400	11 (15)	23 (31)	C	1030.50
650VC-0150-400	15 (18)	30 (37)	C	1435.50
650VD-0180-400	18 (22)	38 (45)	D	1818.00
650VD-0220-400	22 (30)	45 (59)	D	2119.50
650VD-0300-400	30 (37)	59 (73)	D	2443.50
650VE-0370-400	37 (45)	73 (87)	E	3064.50
650VE-0450-400	45 (55)	87 (105)	E	3501.00
650VE-0550-400	55 (75)	105 (145)	F	4261.50
650VE-0750-400	75 (90)	145 (165)	F	4590.00
650VE-0900-400	90 (110)	180 (205)	F	5476.50

**Unit Dimensions**

Package Size	Overall Dimensions			Fixing Centre		Weight (kg)
	H	W	D	H1	W1	
1	137	73	142	-	-	-
2	192	73	173	-	-	-
3	257	96	195	-	-	-
B	233	177	181	223	130	4.3
C	348	201	208	335	150	9.3
D	453	252	245	440	150	17.4
E	669	257	312	630	150	32.5
F	720	257	349	700	150	41.0



Package Size 1, 2 & 3



Package Size B, C, D, E & F



Size	Shaft		B5 Flange				B14A Flange				B14B Flange			
	Diameter	Length	PCD	Spigot	Diameter	Hole Dia.	PCD	Spigot	Diameter	Hole	PCD	Spigot	Diameter	Hole
56 Frame	9	20	100	80	120	7	65	50	80	M5	85	70	105	M6
63 Frame	11	23	115	95	140	10	75	60	90	M5	100	80	120	M6
71 Frame	14	30	130	110	160	10	85	70	105	M6	115	95	140	M8
80 Frame	19	40	165	130	200	12	100	80	120	M6	130	110	160	M8
90 Frame	24	50	165	130	200	12	115	95	140	M8	130	110	160	M8
100 Frame	28	60	215	180	250	14.5	130	110	160	M8	165	130	200	M10
112 Frame	28	60	215	180	250	14.5	130	110	160	M8	165	130	200	M10
132 Frame	38	80	265	230	300	14.5	165	130	200	M10	-	-	-	-
160 Frame	42	110	300	250	350	18.5	-	-	-	-	-	-	-	-
180 Frame	48	110	300	250	350	18.5	-	-	-	-	-	-	-	-
200 Frame	55	110	350	300	400	18.5	-	-	-	-	-	-	-	-

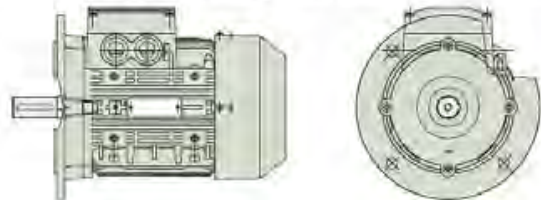
PCD - Pitch Circle Diameter

### B3 - foot mounted motor



### B5 - flange ("D" flange)

The flange diameter is bigger than the motor frame diameter.  
The holes are not tapped. B5 flanges are available for all motor sizes.



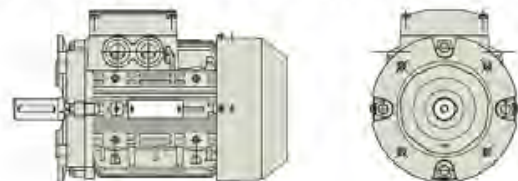
### B14A - flange ("C" face)

The flange diameter is smaller than the motor frame diameter.  
The holes are tapped. Available for frame sizes 56 to 132 mm.



### B14B - flange

The flange diameter is bigger than B14A but smaller than B5 flange.  
The holes are tapped. Available for frame sizes 56 to 112 mm.



**3 Phase - 2 Pole  
3000 rpm - 50Hz**



Output kW	Frame Size	Speed rpm	Rated Current (A)			Power Factor (cosφ)	Efficiency			Rated Torque (Nm)	Ratio			Noise Lpa dB(A)	Weight Kg	Product Code
			@380V	@400V	@415V		Class	100% Load (%)	75% Load (%)		Starting Current	Starting Torque	B/down Torque			
0.09	56M	2830	0.26	0.26	0.26	0.81		63	62	0.3	3.7	2.0	2.3	41	3	3PH.09KW2P
0.12		2800	0.32	0.32	0.32	0.83		65	64	0.41	3.7	2.1	2.4	41	3	3PH.12KW2P
0.18	63M	2820	0.52	0.51	0.53	0.82		63	62	0.61	3.7	2.0	2.2	49	3.5	3PH.18KW2P
0.25		2830	0.68	0.68	0.7	0.82		65	65	0.84	4.0	2.0	2.2	49	4.1	3PH.25KW2P
0.37	71M	2740	1.05	1.00	1.02	0.82		66	65	1.3	3.5	2.3	2.3	52	5	3PH.37KW2P
0.55		2800	1.38	1.36	1.41	0.82		71	70	1.9	4.3	2.5	2.6	52	6.6	3PH.55KW2P
0.75	80M	2855	1.75	1.73	1.79	0.86		73	72	2.5	5.6	2.3	2.4	56	8.2	3PH.75KW2P
1.1		2845	2.45	2.40	2.5	0.87	eff2	77	77	3.7	6.1	2.6	2.7	56	9.9	3PH1.1KW2P
1.5	90S	2860	3.40	3.25	3.35	0.85	eff2	79	80	5	5.5	2.4	2.7	60	12.9	3PH1.5KW2P
2.2	90L	2880	4.70	4.55	4.65	0.85	eff2	82	82	7.3	6.3	2.8	3.1	60	15.7	3PH2.2KW2P
3	100L	2890	6.25	6.10	6.15	0.85	eff2	84	84	9.9	6.8	2.8	3.0	62	22	3PH3KW2P
4	112M	2905	8.20	7.80	7.7	0.86	eff2	86	86	13	7.2	2.6	2.9	63	29	3PH4KW2P
6.5		2900	13.6	13.3	13.9	0.83		85	84	21.4	8.6	3.0	3.8	67	36	3PH6.5KW2P
5.5	132S	2925	10.6	10.3	10.4	0.89	eff2	86.5	86.5	18	5.9	2.0	2.8	68	41	3PH5.5KW2P
7.5		2930	14.1	13.8	13.8	0.89	eff2	88	88	24	6.9	2.3	3.0	68	49	3PH7.5KW2P
11	160M	2940	21.0	20.0	20.5	0.88	eff2	89.5	89.5	36	6.5	2.1	2.9	70	69	3PH11KW2P
15		2940	28.0	26.5	26	0.90	eff2	90	90.2	49	6.6	2.2	3.0	70	80	3PH15KW2P
18.5	160L	2940	34.0	32.5	32	0.91	eff2	91	91.2	60	7.0	2.4	3.1	70	93	3PH18.5KW2P
22	180M	2945	42	40.5	40	0.86	eff2	91.4	91.4	71	7.0	2.5	3.4	69	145	Special Order
30	200L	2950	56	54	53	0.88	eff2	91.9	91.5	97	7.0	2.4	3.0	73	205	Special Order
37		2950	69	66	65	0.88	eff2	92.6	92.4	120	7.3	2.5	3.2	73	225	Special Order
45	225M	2955	81	77	75	0.90	eff2	93.4	93.4	145	6.9	2.3	2.7	73	310	Special Order
55	250M	2965	98	93	91	0.91	eff2	94	94	177	6.9	2.1	2.8	75	415	Special Order
75		2970	138	130	128	0.88		94	93.6	241	7.5	2.5	3.5	75	490	Special Order
75	280S	2975	134	128	126	0.90	eff2	94.3	94.2	241	7.0	1.9	2.7	77	570	Special Order
90		2975	158	150	146	0.91		95.1	94.7	289	7.0	2.0	2.7	77	610	Special Order
90	280M	2975	158	150	146	0.91	eff2	95.1	94.7	289	7.0	2.0	2.7	77	610	Special Order
110		2975	190	182	178	0.91		95.8	95.8	353	7.5	2.2	2.9	77	670	Special Order
110	315S	2980	195	186	182	0.90		94.8	94.4	353	7.0	1.8	2.8	79	790	Special Order
132		2980	235	225	220	0.90		95.1	94.8	423	7.0	1.9	2.8	79	850	Special Order
132	315L	2980	235	225	220	0.90		95.1	94.8	423	7.0	1.9	2.8	79	850	Special Order
150		2980	265	250	245	0.91		95.5	95.4	481	7.0	1.8	2.8	79	990	Special Order
160	315L	2980	280	265	260	0.91		95.5	95.1	513	7.0	1.8	2.8	79	990	Special Order
160		2980	280	265	260	0.91		95.5	95.1	513	7.0	1.8	2.8	79	990	Special Order
185	315L	2980	325	305	295	0.92		95.5	95.4	593	7.0	1.9	2.8	79	1100	Special Order
200		2980	345	325	315	0.92		96	95.7	641	7.0	1.9	2.8	79	1100	Special Order
250	315	2979	437	415	400	0.90		96.2	96.2	801	7.0	1.8	2.8	82	1300	Special Order
315		2979	547	520	501	0.91		96.6	96.6	1010	7.0	1.8	2.8	82	1500	Special Order
355	355	2980	621	590	569	0.90		96.6	96.6	1140	6.5	1.7	2.5	77**	1900	Special Order
400		2980	695	660	636	0.91		96.7	96.7	1280	6.5	1.7	2.5	77**	2000	Special Order
500		2982	863	820	790	0.91		97.1	97.1	1600	6.5	1.8	2.6	77**	2200	Special Order
560	400	2985	958	910	877	0.91		97.1	97.1	1790	7.0	1.6	2.8	79**	2800	Special Order
630		2985	1074	1020	983	0.91		97.1	97.1	2020	7.0	1.6	2.8	79**	3000	Special Order
710		2985		670*		0.91		97.3	97.3	2270	7.0	1.7	2.8	79**	3200	Special Order
800	450	2986		760*		0.91		97.2	97.2	2560	7.0	0.9	3.0	81**	4000	Special Order
900		2986		840*		0.92		97.3	97.3	2880	7.0	0.9	2.8	81**	4200	Special Order
1000		2986		920*		0.93		97.4	97.4	3200	7.0	0.9	2.7	81**	4400	Special Order

\*Current at 690V

\*\*Uni-Directional Fan



Output kW	Frame Size	Speed rpm	Rated Current (A)			Power Factor (cosφ)	Efficiency			Rated Torque (Nm)	Ratio			Noise Lpa dB(A)	Weight Kg	Product Code
			@380V	@400V	@415V		Class	100% Load (%)	75% Load (%)		Starting Current	Starting Torque	B/down Torque			
0.06 0.09	56M	1350	0.21	0.20	0.21	0.77		56	55	0.42	2.6	1.9	1.9	42	3	3PH.06KW4P
		1350	0.30	0.29	0.31	0.77		58	57	0.63	2.6	1.9	1.9	42	3	3PH.09KW4P
0.12 0.18	63M	1350	0.42	0.42	0.44	0.75		55	54	0.84	2.8	1.9	2.0	42	3.5	3PH.12KW4P
		1350	0.56	0.56	0.57	0.77		60	60	1.3	3.0	1.9	1.9	42	4.1	3PH.18KW4P
0.25 0.37	71M	1350	0.80	0.76	0.77	0.79		60	60	1.8	3.0	1.9	1.9	44	4.8	3PH.25KW4P
		1370	1.07	1.03	1.06	0.80		65	65	2.5	3.3	1.9	2.1	44	6	3PH.37KW4P
0.55 0.75	80M	1395	1.50	1.45	1.50	0.82		67	67	3.7	3.9	2.2	2.2	47	8	3PH.55KW4P
		1395	1.90	1.86	1.92	0.81		72	72	5.1	4.2	2.3	2.3	47	9.4	3PH.75KW4P
1.1 1.5	90S	1415	2.60	2.55	2.60	0.81	eff2	77	77	7.4	4.6	2.3	2.4	48	12.3	3PH1.1KW4P
	90L	1420	3.50	3.40	3.50	0.81	eff2	79	79	10	5.3	2.4	2.6	48	15.6	3PH1.5KW4P
2.2 3	100L	1420	4.80	4.70	4.80	0.82	eff2	82	82.5	15	5.6	2.5	2.8	53	22	3PH2.2KW4P
		1420	6.50	6.40	6.80	0.82	eff2	83	83.5	20	5.6	2.7	3.0	53	25	3PH3KW4P
4	112M	1440	8.40	8.20	8.30	0.83	eff2	85	85.5	27	6.0	2.7	3.0	59.5	31	3PH4KW4P
5.5 7.5	132S	1455	11.4	11.4	11.9	0.81	eff2	86	86	36	6.3	2.5	3.1	62	43	3PH5.5KW4P
	132M	1455	15.4	15.2	15.5	0.82	eff2	87	87.5	49	6.7	2.7	3.2	66	49	3PH7.5KW4P
11 15	160M	1460	22.3	21.5	21.5	0.84	eff2	88.5	89	72	6.2	2.2	2.7	66	68	3PH11KW4P
	160L	1460	29.5	28.5	28.5	0.84	eff2	90	90.2	98	6.5	2.6	3.0	65	93	3PH15KW4P
18.5 22	180M	1465	36	35.0	35	0.84	eff2	90.4	90.6	121	6.8	2.4	3.1	65	140	3PH18.5KW4P
	180L	1465	43	41.5	41	0.84	eff2	90.8	91.3	143	6.9	2.5	3.2	65	155	Special Order
30	200L	1465	58	56	56	0.84	eff2	91.5	91.4	196	7.1	2.9	3.0	65	200	Special Order
37 45	225S	1475	70	67	67	0.86	eff2	92.9	93.1	240	7.0	2.5	3.1	65	300	Special Order
	225M	1475	83	80	80	0.87	eff2	93.4	93.6	292	7.0	2.6	3.2	65	330	Special Order
55 55 75	250S	1480	102	97	96	0.87		94	94.2	355	6.7	2.6	2.5	65	435	Special Order
	250M	1480	102	97	96	0.87	eff2	94	94.2	355	6.7	2.6	2.5	65	435	Special Order
		1480	138	132	130	0.87		94.5	94.8	484	7.1	2.7	2.6	65	495	Special Order
75 90	280S	1485	140	134	130	0.86	eff2	94.3	94.3	482	6.7	2.5	2.7	67	610	Special Order
		1485	170	160	160	0.86		95	95.1	579	6.8	2.5	2.8	67	660	Special Order
90 110	280M	1485	170	160	160	0.86	eff2	95	95.1	579	6.8	2.5	2.8	67	660	Special Order
		1485	205	194	192	0.86		95.3	95.2	707	7.5	2.6	3.0	67	730	Special Order
110 132	315S	1486	205	194	192	0.86		94.8	94.7	707	6.7	2.5	2.7	69	830	Special Order
		1486	240	232	232	0.86		95.5	95.4	848	7.2	2.7	3.0	69	910	Special Order
132 150	315M	1486	240	232	232	0.86		95.5	95.4	848	7.2	2.7	3.0	69	910	Special Order
		1486	275	260	255	0.87		95.6	95.5	964	7.0	2.6	2.6	69	1060	Special Order
160 160	315L	1486	290	275	270	0.87		95.8	95.8	1030	7.0	2.6	2.6	69	1060	Special Order
		1486	290	275	270	0.87		95.8	95.8	1030	7.0	2.6	2.6	69	1060	Special Order
185 200	315L	1488	340	320	315	0.87		96	95.9	1190	7.0	2.7	2.7	69	1200	Special Order
		1488	365	345	340	0.87		96.2	96.1	1280	7.0	2.7	2.7	69	1200	Special Order
250 315	315	1488	447	425	410	0.88		96	96	1600	6.5	1.9	2.8	73	1300	Special Order
		1488	568	540	520	0.88		96.3	96.3	2020	6.8	2.0	2.8	73	1500	Special Order
355 400 500	355	1488	642	610	588	0.87		96.3	96.3	2280	6.5	2.1	2.6	75	1900	Special Order
		1488	726	690	665	0.87		96.4	96.4	2570	6.5	2.1	2.6	75	2000	Special Order
		1488	895	850	819	0.88		96.8	96.8	3210	6.5	2.1	2.4	75	2200	Special Order
560 630 710	400	1492	1000	950	916	0.88		96.8	96.8	3580	6.5	1.9	2.7	78	2800	Special Order
		1492	1116	1060	1022	0.88		97	97	4030	6.8	1.9	2.7	78	3000	Special Order
		1492		690*		0.89		97	97	4540	6.8	1.9	2.7	78	3200	Special Order
800 900 1000	450	1492		780*		0.88		97	97	5120	7.00	1.6	2.6	81	4000	Special Order
		1492		880*		0.88		97.1	97.1	5760	7.00	1.6	2.6	81	4200	Special Order
		1492		970*		0.89		97.1	97.1	6400	7.00	1.7	2.6	81	4400	Special Order

\*Current at 690V

**3 Phase - 6 Pole  
1000 rpm - 50Hz**



Output kW	Frame Size	Speed rpm	Rated Current (A)			Power Factor (cosφ)	Efficiency			Rated Torque (Nm)	Ratio			Noise Lpa dB(A)	Weight Kg	Product Code
			@380V	@400V	@415V		Class	100% Load (%)	75% Load (%)		Starting Current	Starting Torque	B/down Torque			
0.09	63M	850	0.48	0.44	0.50	0.66		45	50	1	2.0	1.8	1.9	39	4.1	3PH.09KW6P
0.12		860	0.53	0.53	0.55	0.65		50	50	1.33	2.2	1.8	1.9	39	4.2	3PH.12KW6P
0.18	71M	835	0.66	0.62	0.64	0.75		56	55	2	2.3	2.1	1.9	39	6.3	3PH.18KW6P
0.25		830	0.80	0.78	0.80	0.76		61	60	2.8	2.7	2.2	2.0	39	6.3	3PH.25KW6P
0.37	80M	920	1.18	1.20	1.25	0.72		62	61	3.9	3.1	1.9	2.1	40	7.5	3PH.37KW6P
0.55		910	1.62	1.60	1.66	0.74		67	66	5.8	3.4	2.1	2.2	40	9.4	3PH.55KW6P
0.75	90S	915	2.10	2.10	2.15	0.76		69	55	7.8	3.7	2.2	2.2	43	12.5	3PH.75KW6P
1.1	90L	915	3.00	3.00	2.95	0.77		72	71	11.5	3.8	2.3	2.3	43	15.7	3PH1.1KW6P
1.5	100L	925	4.00	4.00	4.10	0.75		74	73	15	4.0	2.3	2.3	47	24	3PH1.5KW6P
2.2	112M	940	5.40	5.40	5.30	0.78		78	77	22	4.6	2.2	2.5	52	27	3PH.2.2KW6P
3		940	7.20	7.20	7.00	0.78		80	79	30	4.8	2.4	2.4	57	35	3PH3KW6P
4	132M	950	9.50	9.40	9.70	0.76		80.5	80	40	4.5	2.1	2.4	63	46	3PH4KW6P
5.5		950	13	12.80	13.10	0.76		83	82	55	5.0	2.3	2.6	63	54	3PH5.5KW6P
7.5	160M	960	17.7	17	18.3	0.74		86	85	75	4.6	2.1	2.5	66	76	3PH7.5KW6P
11	160L	960	25.5	24.5	25.9	0.74		87.5	87	109	4.8	2.3	2.6	66	102	3PH11KW6P
15	180L	970	30.5	29.5	29.0	0.83		88.9	90	148	5.5	2.3	2.5	62	150	3PH15KW6P
18.5	200L	975	38	37	36.5	0.80		89.8	90	181	5.8	2.5	2.5	63	195	3PH18.5KW6P
22		975	45	43.5	43	0.81		90.2	90.5	215	6.0	2.6	2.6	63	205	Special Order
30	225M	978	59	56	55	0.84		92	92.5	293	5.7	2.6	2.2	57	305	Special Order
37	250S	980	72	69	67	0.84		92.4	93	361	6.0	2.6	2.1	60	410	Special Order
37	250M	980	72	69	67	0.84		92.4	93	361	6.0	2.6	2.1	60	410	Special Order
45		982	87	83	81	0.84		92.9	93.6	438	6.3	2.7	2.2	60	445	Special Order
45	280S	982	86	81	79	0.86		93	93.7	438	6.0	2.4	2.3	60	540	Special Order
55		984	104	99	96	0.86		93.6	94.1	534	6.2	2.5	2.4	60	580	Special Order
55	280M	984	104	99	96	0.86		93.6	94.1	534	6.2	2.5	2.4	60	580	Special Order
75		984	140	134	132	0.86		93.9	94.1	728	6.5	2.5	2.4	60	660	Special Order
75	315S	988	140	136	134	0.85		93.8	93.6	725	6.2	2.4	2.5	63	770	Special Order
90		988	168	162	158	0.85		94.2	94.4	870	6.2	2.4	2.5	63	830	Special Order
90	315M	988	168	162	158	0.85		94.2	94.4	870	6.2	2.4	2.5	63	830	Special Order
110		988	205	198	192	0.85		94.7	94.7	1065	6.6	2.6	2.5	63	970	Special Order
110	315L	988	205	198	192	0.85		94.7	94.7	1065	6.6	2.6	2.5	63	970	Special Order
132		988	245	235	230	0.86		94.7	94.6	1280	6.6	2.3	2.2	63	1060	Special Order
160		988	295	280	280	0.87		95	94.9	1550	6.6	2.4	2.3	63	1100	Special Order
200	315	989	363	345	333	0.87		95.7	95.7	1930	6.3	2.0	2.5	68	1300	Special Order
250		989	453	430	414	0.87		95.9	95.9	2410	6.3	2.0	2.5	68	1500	Special Order
315	355	993	568	540	520	0.87		96.2	96.2	3030	6.5	2.2	2.8	71	2000	Special Order
400		993	726	690	665	0.87		95.5	96.5	3850	6.5	2.2	2.8	71	2200	Special Order
450	400	992	821	780	752	0.86		96.5	96.5	4330	6.5	2.2	2.8	73	2800	Special Order
500		992	905	860	829	0.87		96.5	96.5	4810	6.5	2.3	2.8	73	3000	Special Order
560		992	1011	960	925	0.87		96.7	96.7	5390	6.5	2.3	2.8	73	3200	Special Order
630	450	993		1100		0.86		96.8	96.8	6060	6.5	2.0	2.6	75	4000	Special Order
710		993		710*		0.87		96.8	96.8	6830	6.5	2.0	2.5	75	4200	Special Order
800		993		790*		0.87		97	97	7690	6.5	2.0	2.5	75	4500	Special Order

\*Current at 690V



# ASHLEY POWER

## 3 Phase - 8 Pole 750 rpm - 50 Hz

Output kW	Frame Size	Speed rpm	Rated Current (A)			Power Factor (cosφ)	Efficiency			Rated Torque (Nm)	Ratio			Noise Lpa dB(A)	Weight Kg	Product Code
			@380V	@400V	@415V		Class	100% Load (%)	75% Load (%)		Starting Current	Starting Torque	B/down Torque			
0.09	71M	630	0.36	0.36	0.36	0.68		53	53	1.4	2.2	1.9	1.7	36	6.3	Special Order
0.12		645	0.51	0.51	0.52	0.64		53	53	1.8	2.2	2.2	2.0	36	6.3	Special Order
0.18	80M	675	0.73	0.75	0.80	0.68		51	51	2.5	2.3	1.7	1.9	41	7.5	Special Order
0.25		685	1.01	1.03	1.10	0.64		55	53	3.5	2.6	2.0	2.2	41	9.4	Special Order
0.37	90S	675	1.15	1.13	1.18	0.75		63	62	6.2	2.9	1.6	1.8	41	10.5	Special Order
0.55	90L	675	1.63	1.58	1.60	0.76		66	65	7.8	3.0	1.7	1.9	41	13.2	Special Order
0.75		675	1.63	1.58	2.00	0.77		70	69	10.5	3.4	1.9	2.1	49.5	14	Special Order
0.75	100L	680	2.06	2.00	2.20	0.76		66	65	11	3.0	1.6	1.9	45	20	Special Order
1.1		680	3.00	2.90	3.00	0.76		72	71	16	3.3	1.8	2.1	45	22	Special Order
1.5	112M	705	4.10	3.90	4.20	0.76		74	73	21	3.7	1.8	2.1	49	24	Special Order
2.2	132S	700	5.90	5.70	6.00	0.74		75	74	30	3.9	1.9	2.3	53	41	Special Order
3	132M	700	7.90	7.60	7.90	0.74		77	76	40	4.1	2.1	2.4	53	49	Special Order
4	160M	715	9.90	10.00	10.60	0.72		80	79	54	4.5	2.2	2.6	63	61	Special Order
5.5		710	13.1	13.00	13.40	0.73		83.5	83	74	4.7	2.3	2.7	63	70	Special Order
7.5	160L	715	18.6	17.6	17.1	0.72		85.5	85	100	5.3	2.7	3.0	63	91	Special Order
11	180L	720	25.5	25.0	25.0	0.73		87.5	88.1	146	4.6	1.8	2.1	67	155	Special Order
15	200L	725	33.0	32.5	32.5	0.76		87.7	88.3	198	5.3	2.0	2.4	63	205	Special Order
18.5	225S	725	40	38	37.5	0.80		88.6	89.9	244	5.0	2.1	2.2	56	300	Special Order
22	225M	725	47	43.5	43.5	0.81		90.1	91.3	290	5.0	2.1	2.2	56	325	Special Order
30	250M	730	61	58	57	0.81		91.6	92.3	392	5.0	2.1	2.1	57	435	Special Order
37		730	76	72	71	0.81		91.9	92.6	484	5.1	2.2	2.2	57	475	Special Order
37	280S	732	72	70	70	0.82		92.7	93.3	483	5.5	2.2	2.2	58	550	Special Order
45		734	88	84	82	0.83		92.8	93.4	585	5.5	2.2	2.2	58	600	Special Order
45	280M	734	88	84	82	0.83		92.8	93.4	585	5.5	2.2	2.2	58	600	Special Order
55		734	106	102	99	0.83		93.2	93.7	716	5.8	2.3	2.3	58	660	Special Order
55	315S	738	106	104	103	0.82		93.1	93.6	712	6.0	2.2	2.4	62	740	Special Order
75		738	144	140	138	0.82		93.6	93.7	970	6.2	2.3	2.5	62	850	Special Order
75	315M	738	144	140	138	0.82		93.6	93.7	970	6.2	2.3	2.5	62	850	Special Order
90		738	174	166	164	0.83		93.8	94.3	1170	6.6	2.3	2.5	62	990	Special Order
110	315L	738	210	205	200	0.83		94	94.5	1420	6.6	2.3	2.5	62	1100	Special Order
132		738	255	245	240	0.82		94	94.6	1710	6.6	2.3	2.5	62	1200	Special Order
160	315	739	311	295	284	0.82		94.9	94.9	2070	6.0	2.1	2.3	65	1300	Special Order
200		739	389	370	357	0.82		95.2	95.2	2580	6.0	2.1	2.3	65	1500	Special Order
250	355	741	484	460	443	0.82		95.7	95.7	3220	6.1	2.1	2.4	67	2000	Special Order
315		741	611	580	559	0.82		96	96	4060	6.1	2.1	2.4	67	2200	Special Order
355	400	742	684	650	627	0.82		96.1	96.1	4570	6.5	2.0	2.6	69	2800	Special Order
400		742	768	730	704	0.82		96.2	96.2	5150	6.5	2.1	2.6	69	3000	Special Order
450		742	863	820	790	0.82		96.3	96.3	4790	6.5	2.1	2.6	69	3200	Special Order
500	450	744		920		0.81		96.4	96.4	6420	6.6	2.0	2.4	71	4000	Special Order
560		744		1040		0.81		96	96	7190	6.6	2.0	2.4	71	4200	Special Order
630		744		1160		0.81		96.6	96.6	8090	6.6	2.0	2.4	71	4500	Special Order



## Capacitor Start - Capacitor Run Motors 230V 50Hz Insulation class F/B

Output kW	Frame Size	Speed rpm	Current Amps	Efficiency %	Power Factor (cosφ)	Ratio			Run Capacitor μF/V	Start Capacitor μF/V	Weight Kg	Product Code
						Starting Current	Starting Torque	B/down Torque				
<b>2 Pole - 3000 rpm</b>												
0.18	63	2895	1.3	62	0.94	5.2	1.90	2.50	5/450	25/320	4.1	1PH.18KW2PB3CCM
0.25		2850	1.55	68	0.99	4.6	1.80	1.90	8/450	25/320	4.7	1PH.25KW2PB3CCM
0.37	71	2800	2.55	63	0.96	3.9	1.70	1.66	9/450	40/320	5.4	1PH.37KW2PB3CCM
0.55		2820	3.4	71	0.95	4.0	1.70	1.72	12/450	40/320	7.4	1PH.55KW2PB3CCM
0.75	80	2845	4.5	71	0.98	4.1	1.71	1.60	16/450	60/320	8.8	1PH.75KW2PB3CCM
1.1		2860	6.4	73	0.98	4.4	1.70	1.75	22/450	80/320	10.5	1PH1.1KW2PB3CCM
1.5	90S	2845	8.9	72	0.98	4.5	2.00	2.04	30/450	120/320	13.4	1PH1.5KW2PB3CCM
2.2		2830	12.8	74	0.97	4.8	1.85	2.15	35/450	160/320	16.1	1PH2.2KW2PB3CCM
3	100L	2840	16.7	77	0.97	5.3	2.10	2.50	60/450	160/320	22.3	1PH3KW2PB3CCM
<b>4 Pole - 1500 rpm</b>												
0.12	63	1415	1.0	58	0.90	3.65	1.94	1.57	4/450	16/320	4.1	1PH.12KW4PB3CCM
0.18		1385	1.5	58	0.86	3.7	1.77	1.66	5/450	25/320	4.7	1PH.18KW4PB3CCM
0.25	71	1400	1.8	59	0.99	3.4	1.60	1.58	9/450	25/320	5.4	1PH.25KW4PB3CCM
0.37		1395	2.5	64	0.95	3.2	1.80	1.60	12/450	25/320	6.7	1PH.37KW4PB3CCM
0.55	80	1415	3.4	69	0.98	3.6	1.70	1.70	14/450	40/320	8.8	1PH.55KW4PB3CCM
0.75		1405	4.6	71	0.96	3.9	1.91	1.64	18/450	60/320	10	1PH.75KW4PB3CCM
1.1	90S	1420	6.3	74	0.98	3.8	1.62	1.78	30/450	80/320	12.7	1PH1.1KW4PB3CCM
1.5		1430	8.4	77	0.97	4.3	1.95	1.80	35/450	120/320	15.9	1PH1.5KW4PB3CCM
2.2	100L	1395	12.8	73	0.98	4.4	2.60	1.92	60/450	160/320	25	1PH2.2KW4PB3CCM

## Permanent Capacitor Motors 230V 50Hz Insulation class F/B

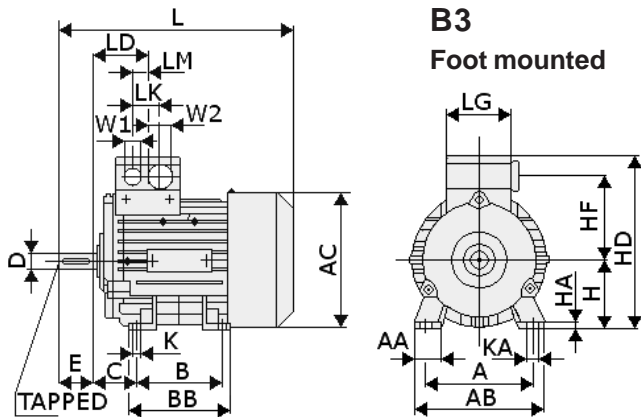
Output kW	Frame Size	Speed rpm	Current Amps	Efficiency %	Power Factor (cosφ)	Ratio			Run Capacitor μF/V	Weight Kg	Product Code
						Starting Current	Starting Torque	B/down Torque			
<b>2 Pole - 3000 rpm</b>											
0.18	63	2895	1.3	62	0.94	4.3	0.51	2.50	5/450	4.3	1PH.18KW2PB3PCM
0.25		2850	1.55	68	0.99	3.8	0.49	1.90	8/450	4.9	1PH.25KW2PB3PCM
0.37	71	2895	2.7	65	0.87	4.2	0.50	2.70	12/450	5.7	1PH.37KW2PB3PCM
0.55		2860	4	65	0.89	4.0	0.42	2.10	14/450	7.7	1PH.55KW2PB3PCM
0.75	80	2905	4.35	74	0.97	5.6	0.32	2.36	14/450	9	1PH.75KW2PB3PCM
1.1		2910	6	78	0.98	6.1	0.35	2.53	22/450	10.8	1PH1.1KW2PB3PCM
1.5	90S	2900	8.7	74	0.97	6.2	0.42	3.14	35/450	13.8	1PH1.5KW2PB3PCM
2.2		90L	2810	13	72	0.98	4.5	0.37	1.75	45/450	16.6
<b>4 Pole - 1500 rpm</b>											
0.12	63	1415	1.0	58	0.90	2.6	0.38	1.57	4/450	4.36	1PH.12KW4PB3PCM
0.18		1385	1.5	58	0.86	2.6	0.54	1.66	5/450	5.1	1PH.18KW4PB3PCM
0.25	71	1400	1.8	59	0.99	2.3	0.54	1.58	9/450	5.7	1PH.25KW4PB3PCM
0.37		1395	2.5	64	0.95	2.6	0.52	1.60	12/450	6.9	1PH.37KW4PB3PCM
0.55	80	1415	3.4	69	0.98	3.0	0.50	1.70	14/450	9.2	1PH.55KW4PB3PCM
0.75		1405	4.6	71	0.96	3.1	0.40	1.64	18/450	10.3	1PH.75KW4PB3PCM
1.1	90S	1420	6.3	74	0.98	3.1	0.37	1.78	30/450	13.1	1PH1.1KW4PB3PCM
1.5		90L	1430	8.4	77	0.97	3.7	0.35	1.80	35/450	16.2



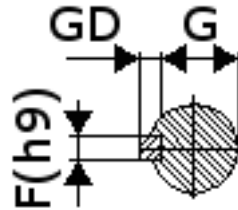
Size	A	AA	AB	AC	B	BB	C	H	HA	HD	HF	K	KA	L	LD	LG	LK	LM	W1	W2
56M	90	25	110	116	71	87	36	56	9	157	77.5	5.8	9	169	69.5	75	32	18	M16	M25
63M	100	27	120	118	80	96	40	63	7	164	77.5	7	10	202.5	69.5	75	32	18	M16	M25
71M	112	30.5	132	139	90	106	45	71	7	182	87.5	7	10	240	63.5	75	32	18	M16	M25
80M	125	30.5	150	156.5	100	118	50	80	8	200	96.5	9.5	13.5	273.5	63.5	75	32	18	M16	M25
90S	140	30.5	165	173.6	100	143	56	90	10	218	104.5	10	14	331	79	75	32	18	M16	M25
90L	140	30.5	165	173.6	125	143	56	90	10	218	104.5	10	14	331	79	75	32	18	M16	M25

Size	Shaft					B5 Flange					B14A Flange						B14B Flange					
	D	E	F	G	GD	M	N	P	S	T	RA	M	N	P	S	T	RA	M	N	P	S	T
56M	9	20	3	7.2	3	100	80	120	7	3	10	65	50	80	M5	2.5	12	85	70	105	M6	2.5
63M	11	23	4	8.5	4	115	95	140	10	3	10	75	60	90	M5	2.5	12	100	80	120	M6	3
71M	14	30	5	11	5	130	110	160	10	3.5	12	85	70	105	M6	2.5	13	115	95	140	M8	3
80M	19	40	6	13	6	165	130	200	12	3.5	12	100	80	120	M6	3	13	130	111	160	M8	3.5
90S	24	50	8	20	7	165	130	200	12	3.5	18	115	95	140	M8	3	18	130	110	160	M8	3.5
90L	24	50	8	20	7	165	130	200	12	3.5	18	115	95	150	M8	3	18	130	110	160	M8	3.5

RA - depth of tapped hole in flange



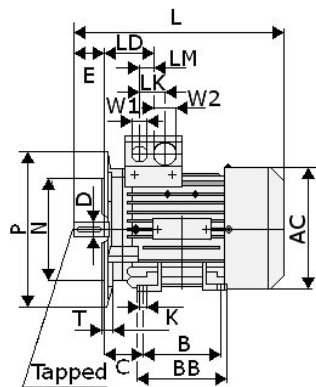
**B3**  
Foot mounted



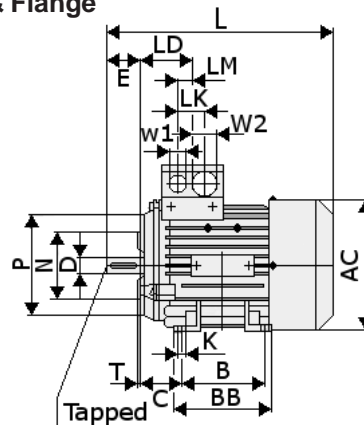
**Quality Ball Bearings**

**DE / NDE**

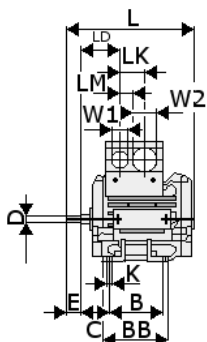
- 56 frame 6201 / 6201 2Z C3
- 63 frame 6201 / 6201 2Z C3
- 71 frame 6202 / 6202 2Z C3
- 80 frame 6004 / 6004 2Z C3
- 90 frame 6205 / 6004 2Z C3



**B5**  
Flange mounted  
B3/B5 Foot & Flange



**B14A**  
Flange Mounted  
**B14B**  
Flange Mounted  
B3/B14A Foot & Flange  
B3/B14B Foot & Flange



**56 Frame is Non-ventilated**

- 56 frame shaft Ø 9mm - M3 x 9mm
- 63 frame shaft Ø 11mm - M4 x 13 mm
- 71 frame shaft Ø 14mm - M5 x 12.5mm
- 80 frame shaft Ø 19mm - M6 x 16mm
- 90 frame shaft Ø 24mm - M8 x 19mm

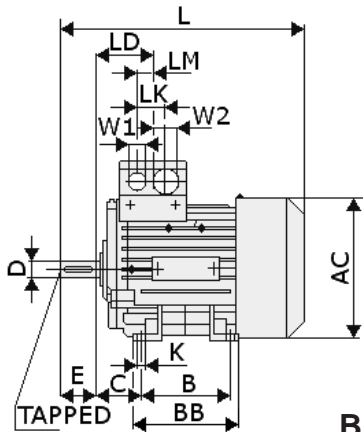
# 3 Phase Motor Dimensions 100 - 160 Frame



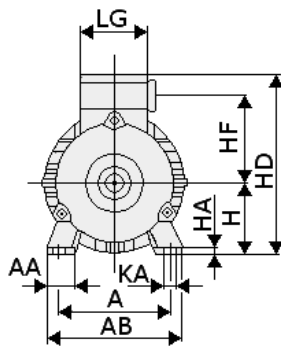
Size	A	AA	AB	B	BB	C	H	HA	HD	HF	K	KA	L	LD	LG	LK	W1	W2
100L	160	42	196	140	176	63	100	12	235	78	12	16	372	102	120	42	M32	M32
112M	190	46	220	140	176	70	112	12	260	91	12	16	393	102	120	42	M32	M32
112M 2pole 5.5kW	190	46	220	140	176	70	112	12	260	91	12	16	431	102	120	42	M32	M32
112M 4pole 5.5kW	190	46	220	140	176	70	112	12	260	91	12	16	431	102	120	42	M32	M32
112M 6pole 3kW	190	46	220	140	176	70	112	12	260	91	12	16	393	102	120	42	M32	M32
132S	216	53	259	140	180	89	132	15	299	107	12	16	454	128	140	42	M32	M32
132M	216	53	259	178	218	89	132	15	299	107	12	16	454	128	140	42	M32	M32
132M 2pole 11kW	216	53	259	178	218	89	132	15	299	107	12	16	496	128	140	42	M32	M32
160M	254	60	314	210	256	108	160	18	357	127	14.5	19	588	160.5	165	54	M40	M40
160L	254	60	314	254	300	108	160	18	357	127	14.5	19	588	160.5	165	54	M40	M40

Size	Shaft					B5 Flange					B14A Flange						B14B Flange							
	D	E	F	G	GD	M	N	P	S	T	RA	M	N	P	S	T	RA	M	N	P	S	T		
100L	28	60	8	24	7	215	180	250	14.5	4	14	130	110	160	M8	3.5	12	165	130	200	M10	3.5		
112M	28	60	8	24	7	215	180	250	14.5	4	14	130	110	160	M8	3.5	14	165	130	200	M10	3.5		
112M 2pole 5.5kW	28	60	8	24	7	215	180	250	14.5	4	14	130	110	160	M8	3.5	14	165	130	200	M10	3.5		
112M 4pole 5.5kW	28	60	8	24	7	215	180	250	14.5	4	14	130	110	160	M8	3.5	14	165	130	200	M10	3.5		
112M 6pole 3kW	28	60	8	24	7	215	180	250	14.5	4	14	130	110	160	M8	3.5	14	165	130	200	M10	3.5		
132S	38	80	10	33	8	265	230	230	14.5	4	15	165	130	200	M10	3.5	-	-	-	-	-	-		
132M	38	80	10	33	8	265	230	230	14.5	4	15	165	130	200	M10	3.5	-	-	-	-	-	-		
132M 2pole 11kW	38	80	10	33	8	265	230	230	14.5	4	15	165	130	200	M10	3.5	-	-	-	-	-	-		
160M	42	110	12	37	8	300	250	250	18.5	5	-	-	-	-	-	-	-	-	-	-	-	-		
160L	42	110	12	37	8	300	250	250	18.5	5	-	-	-	-	-	-	-	-	-	-	-	-		

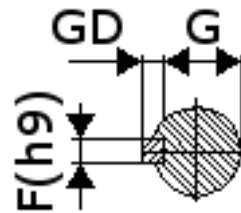
RA - depth of tapped hole in flange



**B3**  
Foot mounted



**B5**  
Flange mounted  
B3/B5 Foot & Flange

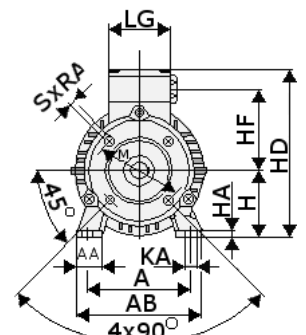
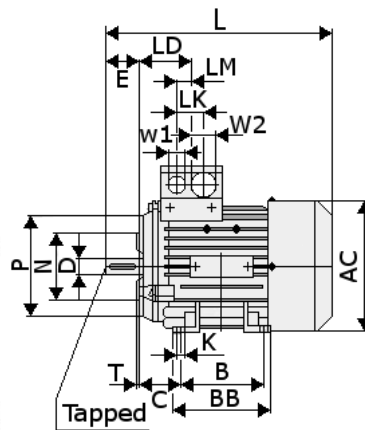
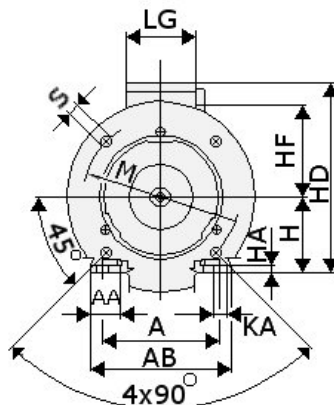
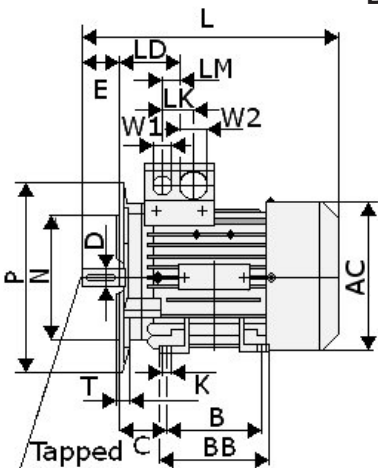


**Quality Ball Bearings  
DE / NDE**

- 100 frame 6206 / 6205 2Z C3
- 112 frame 6206 / 6205 2Z C3
- 132 frame 6208 / 6208 2Z C3
- 160 frame 6209 / 6209 2Z C3

**B14A**  
Flange Mounted  
**B14B**  
Flange Mounted

**B3/B14A Foot & Flange**  
**B3/B14B Foot & Flange**



- 100 frame shaft Ø 28mm - M10 x 22mm
- 112 frame shaft Ø 28mm - M10 x 22mm
- 132 frame shaft Ø 38mm - M12 x 28mm
- 160 frame shaft Ø 42mm - M16 x 36mm

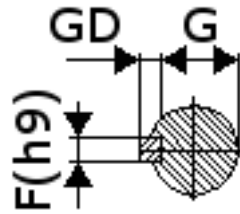
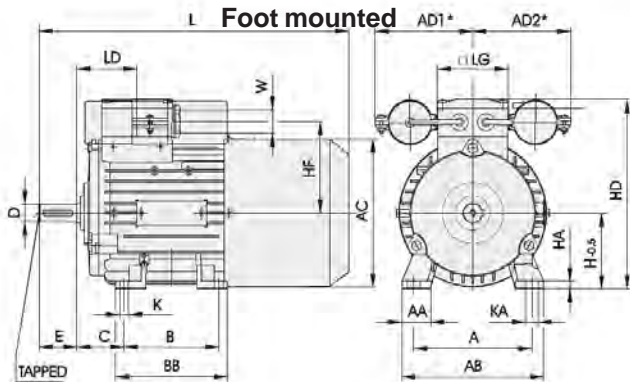


Size	kW	Poles	A	AA	AB	AC	AD1	AD2	B	B1	BB	C	H	HA	HD	HF	K	KA	L	LA	LD	LF	LG	W
63	0.18	2	100	27	120	118	99	94	80	N/A	96	40	63	7	164	77.5	7	10	253.5	8	69.5	259.5	75	M25 x 1.5
63	0.12	4	100	27	120	118	99	94	80	N/A	96	40	63	7	164	77.5	7	10	279.5	8	69.5	285.5	75	M25 x 1.5
63	0.25	2	100	27	120	118	99	94	80	N/A	96	40	63	7	164	77.5	7	10	291.5	9	63.5	290.5	75	M25 x 1.5
63	0.18	4	100	27	120	118	99	94	80	N/A	96	40	63	7	164	77.5	7	10	327.5	10	63.5	316.5	75	M25 x 1.5
71	All Sizes	2	112	30.5	132	139	99	94	90	N/A	106	45	71	7	182	87.5	7	10	291.5	9	63.5	290.5	75	M25 x 1.5
80	All Sizes	2	125	30.5	150	156.5	103.5	103.5	100	N/A	118	50	80	8	200	96.5	9.5	13.5	327.5	10	63.5	316.5	75	M25 x 1.5
90S	All Sizes	2	140	30.5	165	173.6	109	114	100	(125)	143	56	90	10	218	104.5	10	14	382.5	10	79	384.5	75	M25 x 1.5
90L	All Sizes	2	140	30.5	165	173.6	109	114	(100)	125	143	56	90	10	218	104.5	10	14	382.5	10	79	384.5	75	M25 x 1.5
100L	All Sizes	2	160	42	196	196	138	138	140	N/A	176	63	100	12	263	123	12	16	458	11	102	449	120	M32 x 1.5

Size	kW	Poles	Shaft					B5 Flange					B14A Flange					B14B Flange						
			D	E	F	G	GD	M	N	P	S	T	RA	M	N	P	S	T	RA	M	N	P	S	T
63	0.18	2	11	23	4	8.5	4	115	95	140	10	3	10	75	60	90	M5	2.5	12	100	80	120	M6	3
63	0.12	4	11	23	4	8.5	4	115	95	140	10	3	10	75	60	90	M5	2.5	12	100	80	120	M6	3
63	0.25	2	11	23	4	8.5	4	115	95	140	10	3	10	75	60	90	M5	2.5	12	100	80	120	M6	3
63	0.18	4	11	23	4	8.5	4	115	95	140	10	3	10	75	60	90	M5	2.5	12	100	80	120	M6	3
71	All Sizes	2	14	30	5	11	5	130	110	160	10	3.5	12	85	70	105	M6	2.5	13	115	95	140	M8	3
80	All Sizes but*	2	19	40	6	15.6	6	165	130	200	12	3.5	12	100	80	120	M6	3	13	130	111	160	M8	3.5
90S	All Sizes	2	24	50	8	20	7	165	130	200	12	3.5	18	115	95	140	M8	3	18	130	110	160	M8	3.5
90L	All Sizes	2	24	50	8	20	7	165	130	200	12	3.5	18	115	95	140	M8	3	18	130	110	160	M8	3.5
100L	All Sizes	2	28	60	8	24	7	215	180	250	14.5	4	14	130	110	160	M8	3.5	12	165	130	200	M10	3.5

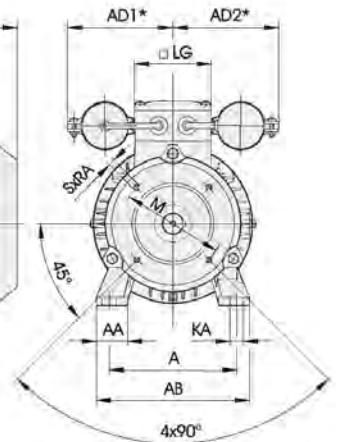
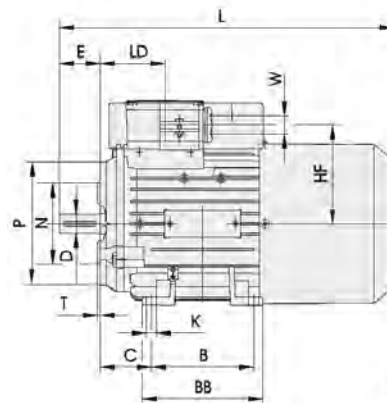
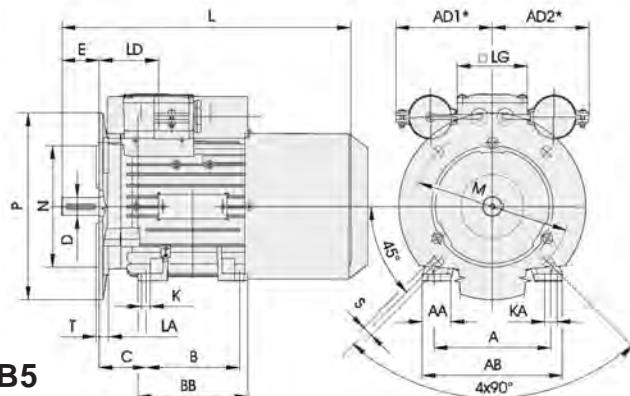
### B3

RA - depth of tapped hole in flange



### Quality Ball Bearings DE / NDE

63 frame	6201 / 6201 2Z C3
71 frame	6202 / 6202 2Z C3
80 frame	6004 / 6004 2Z C3
90 frame	6205 / 6004 2Z C3
100 frame	6206 / 6205 2Z C3



### B5

Flange mounted  
B3/B5 Foot & Flange

63 frame	shaft Ø	11mm - M4 x 13mm
71 frame	shaft Ø	14mm - M5 x 12.5 mm
80 frame	shaft Ø	19mm - M6 x 16mm
90 frame	shaft Ø	24mm - M8 x 19mm
100 frame	shaft Ø	28mm - M10 x 22mm

### B14A

Flange Mounted  
B14B

Flange Mounted

B3/B14A Foot & Flange  
B3/B14B Foot & Flange

# Single Phase Motor Dimensions Permanent Capacitor Motors 63 - 90 Frame



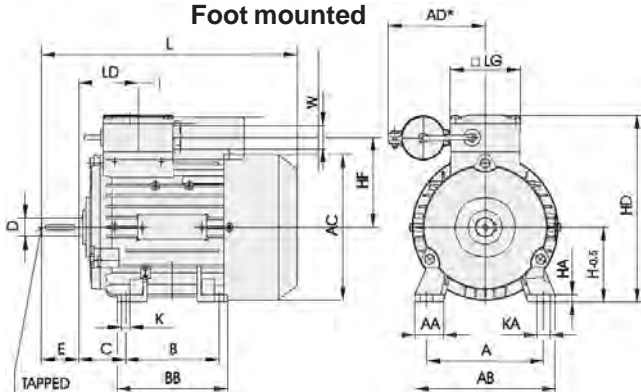
Size	kW	Poles	A	AA	AB	AC	AD	B	B1	BB	C	H	HA	HD	HF	K	KA	L	LA	LD	LF	LG	W
63	0.18	2	100	27	120	118	94	80	N/A	96	40	63	7	164	77.5	7	10	202.5	8	69.5	208.5	75	M25 x 1.5
63	0.12	4																					
63	0.25	2																					
63	0.18	4																					
71	All Sizes		112	30.5	132	139	94	90	N/A	106	45	71	7	182	87.5	7	10	240	9	63.5	239	75	M25 x 1.5
80	All Sizes but*		125	30.5	150	156.5	103.5	100	N/A	118	50	80	8	200	96.5	9.5	13.5	273.5	10	63.5	262.5	75	M25 x 1.5
80*	1.1	2	125	30.5	150	156.5	103.5	100	N/A	118	50	80	8	200	96.5	9.5	13.5	316	10	63.5	305	75	
90S	All Sizes		140	30.5	165	173.6	109	100	(125)	143	56	90	10	218	104.5	10	14	331	10	79	333	75	M25 x 1.5
90L	2.2	2	140	30.5	165	173.6	109	(100)	125	143	56	90	10	218	104.5	10	14	374	10	79	376	75	M25 x 1.5
90L	1.5	4	140	30.5	165	173.6	109	(100)	125	143	56	90	10	218	104.5	10	14	331	10	79	333	75	M25 x 1.5

Size	kW	Poles	Shaft					B5 Flange					B14A Flange					B14B Flange						
			D	E	F	G	GD	M	N	P	S	T	RA	M	N	P	S	T	RA	M	N	P	S	T
63	0.18	2	11	23	4	8.5	4	115	95	140	10	3	10	75	60	90	M5	2.5	12	100	80	120	M6	3
63	0.12	4	11	23	4	8.5	4	115	95	140	10	3	10	75	60	90	M5	2.5	12	100	80	120	M6	3
63	0.25	2	11	23	4	8.5	4	115	95	140	10	3	10	75	60	90	M5	2.5	12	100	80	120	M6	3
63	0.18	4	11	23	4	8.5	4	115	95	140	10	3	10	75	60	90	M5	2.5	12	100	80	120	M6	3
71	All Sizes		14	30	5	11	5	130	110	160	10	3.5	12	85	70	105	M6	2.5	13	115	95	140	M8	3
80	All Sizes but*		19	40	6	15.5	6	165	130	200	12	3.5	12	100	80	120	M6	3	13	130	111	160	M8	3.5
80*	1.1	2	19	40	6	15.5	6	165	130	200	12	3.5	12	100	80	120	M6	3	13	130	111	160	M8	3.5
90S	All Sizes		24	50	8	20	7	165	130	200	12	3.5	18	115	95	140	M8	3	18	130	110	160	M8	3.5
90L	2.2	2	24	50	8	20	7	165	130	200	12	3.5	18	115	95	140	M8	3	18	130	110	160	M8	3.5
90L	1.5	4	24	50	8	20	7	165	130	200	12	3.5	18	115	95	140	M8	3	18	130	110	160	M8	3.5

## B3

RA - depth of tapped hole in flange

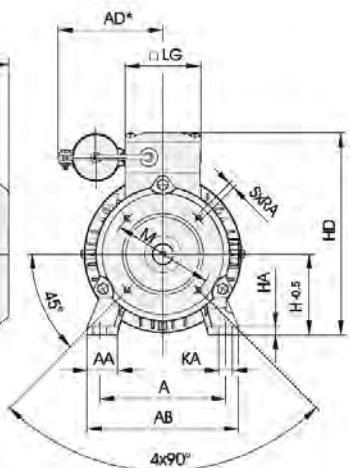
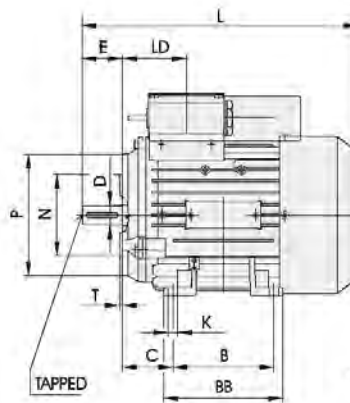
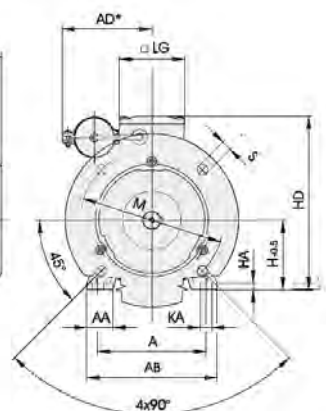
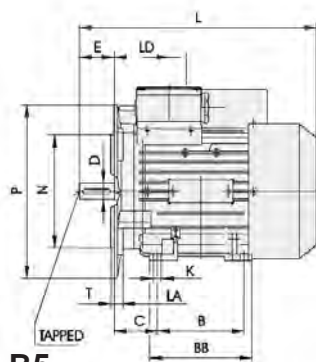
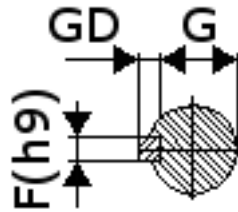
### Foot mounted



### Quality Ball Bearings

#### DE / NDE

63 frame	6201 / 6201 2Z C3
71 frame	6202 / 6202 2Z C3
80 frame	6004 / 6004 2Z C3
90 frame	6205 / 6004 2Z C3



## B5

### Flange mounted

#### B3/B5 Foot & Flange

63 frame	shaft Ø	11mm - M4 x 13 mm
71 frame	shaft Ø	14mm - M5 x 12.5mm
80 frame	shaft Ø	19mm - M6 x 16mm
90 frame	shaft Ø	24mm - M8 x 19mm

## B14A

### Flange Mounted

#### B14B

### Flange Mounted

#### B3/B14A Foot & Flange B3/B14B Foot & Flange



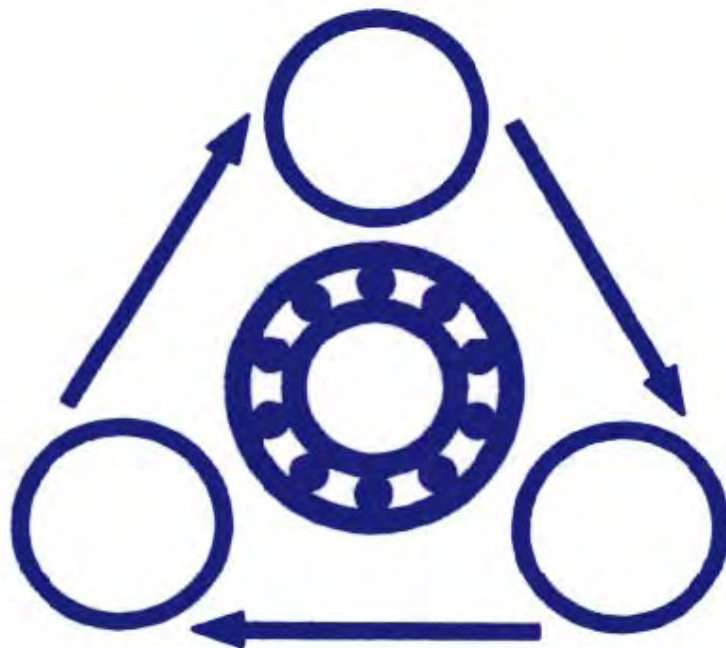
**ASHLEY POWER**



# Notes

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PARKSTONE  
POOLE  
DORSET, BH14 0AQ

**ASHLEY POWER**



## WORM GEAR UNIT CATALOGUE



**ASHLEY POWER**



# WORM GEAR UNITS



**CHM**



**CHME**



**CHMRE**



**CHMR**



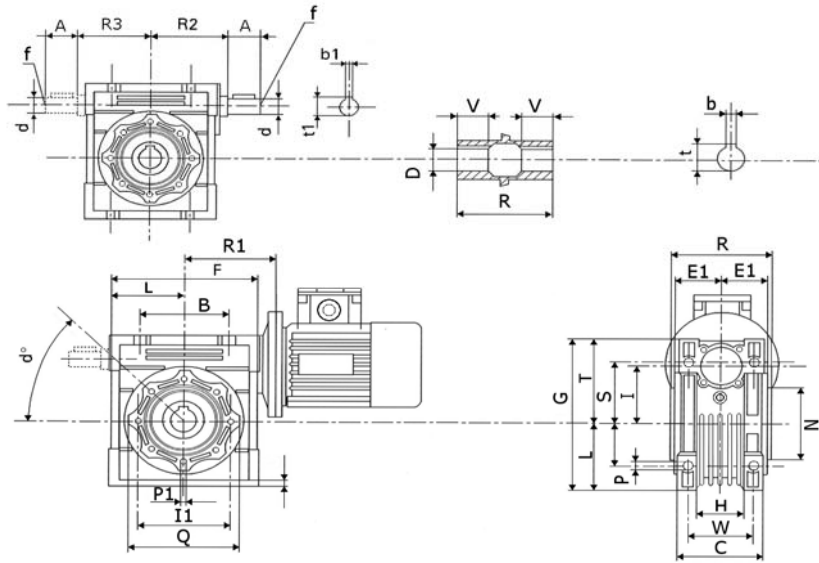
# Worm Gear Unit Contents

Gearbox Dimensions.....	H4
Gearbox Performance.....	H5
Gearbox Technical Specifications.....	H6
Gearbox Combination Dimensions.....	H7
Gearbox Combination Performance.....	H8
Torque Arms, Single & Double Output Shaft Kits.....	H9

Please note: At Ashley Power we take care to ensure that all information is correct at time of printing however some errors and omissions excepted.



## CHM - CHMR - CHME - CHMRE DIMENSIONS



Unit Type	B	A	F	D (H7)	d (j6)	G	H	R1	R	R2	R3	L	I	C	I1	N (h8)	E1	P	Q
030	54	20	80	14	9	97	32	55	63	51	45	40	30	56	65	55	29	6.5	75
040	70	23	100	18	11	121.5	43	70	78	60	53	50	40	71	75	60	36.5	6.5	87
050	80	30	120	25	14	144	49	80	92	74	64	60	50	85	85	70	43.5	8.5	100
063	100	40	144	25	19	174	67	95	112	90	75	72	63	103	95	80	53	8.5	110
075	120	50	172	28	24	205	72	112.5	120	105	90	86	75	112	115	95	57	11	140
090	140	50	208	35	24	238	74	129.5	140	125	108	103	90	130	130	110	67	13	160
110	170	60	252.5	42	28	295	-	160	155	142	135	127.5	110	144	165	130	74	14	200
130	200	80	292.5	45	30	335	-	180	170	162	155	147.5	130	155	215	180	81	16	250

Unit Type	S	T	U	V	Z	W	P1	d°	b	b1	f	t	t1	Weight in kg. excluding motor
030	44	57	5.5	21	27	44	M6x11(n.4)	0°	5	3	-	16.3	10.2	1.2
040	55	71.5	6.5	26	35	60	M6x8(n.4)	45°	6	4	-	20.8	12.5	2.3
050	64	84	7	30	40	70	M8x10(n.4)	45°	8	5	M6	28.3	16.0	3.5
063	80	102	8	36	50	85	M8x14(n.4)	45°	8	6	M6	28.3	21.5	6.2
075	93	119	10	40	60	90	M8x14(n.4)	45°	8	8	M8	31.3	27.0	8.5
090	102	135	11	45	70	100	M10x18(n.4)	45°	10	8	M8	38.3	27.0	12
110	125	167.5	14	50	85	115	M10x18(n.4)	45°	12	8	M10	45.3	31.0	35
130	140	187.5	15	60	100	120	M12x21(n.4)	45°	14	8	M10	48.8	33.0	53

If a dimension is critical to your application please contact our sales department for confirmation.  
Please note : errors and omissions excepted.



## CHM PERFORMANCE WITH 4-POLE MOTORS

### 1400 REVS. INPUT

**CHM 30**

i=ratio	n2 r/min	Kw=p1	Nm=T2	f.s.
7.5	186.7	0.22	9	2.1
10	140.0	0.22	11	1.6
15	93.3	0.22	16	1.0
20	70.0	0.22	20	0.9
25	56.0	0.18	20	1.0
30	46.7	0.18	22	0.9
40	35.0	0.18	21	0.8
50	28.0	0.18	19	0.8
60	23.3	0.09	18	0.9
80	17.5	0.09	13	0.9

**CHM 063**

i=ratio	n2 r/min	Kw=p1	Nm=T2	f.s.
7.5	186.7	1.50	67.4	1.8
10	140.0	1.50	88.6	1.4
15	93.3	1.50	126	1.1
20	70.0	1.50	164	0.8
25	56.0	1.10	145	0.9
30	46.7	1.10	165	1.0
40	35.0	0.75	143	1.0
50	28.0	0.55	122	1.1
60	23.3	0.55	138	0.9
80	17.5	0.37	114	1.1
100	14.0	0.37	127	0.9

**CHM 110**

i=ratio	n2 r/min	Kw=p1	Nm=T2	f.s.
7.5	186.7	7.50	344	1.6
10	140.0	7.50	453	1.3
15	93.3	7.50	659	1.0
20	70.0	5.50	635	1.0
25	56.0	4.00	573	1.2
30	46.7	4.00	645	1.1
40	35.0	3.00	636	1.1
50	28.0	3.00	764	0.9
60	23.3	2.20	645	1.0
80	17.5	1.50	546	0.9
100	14.0	1.10	470	1.0

**CHM 040**

i=ratio	n2 r/min	Kw=p1	Nm=T2	f.s.
7.5	186.7	0.55*	22	1.6
10	140.0	0.55*	30	1.4
15	93.3	0.55*	44	0.9
20	70.0	0.55*	38	1.0
25	56.0	0.37	45	0.9
30	46.7	0.37	52	0.8
40	35.0	0.25	43	0.9
50	28.0	0.22	44	0.9
60	23.3	0.18	42	0.8
80	17.5	0.18	36	0.8
100	14.0	0.18	35	0.8

**CHM 075**

i=ratio	n2 r/min	Kw=p1	Nm=T2	f.s.
7.5	186.7	4.00	180	1.0
10	140.0	4.00	237	0.8
15	93.3	3.00	260	0.8
20	70.0	1.50	167	1.2
25	56.0	1.50	204	1.0
30	46.7	1.50	232	1.0
40	35.0	1.10	214	1.0
50	28.0	0.75	176	1.2
60	23.3	0.75	199	1.0
80	17.5	0.55	178	1.1
100	14.0	0.55	203	0.9

**CHM 130**

i=ratio	n2 r/min	Kw=p1	Nm=T2	f.s.
7.5	186.7	7.50	348	2.2
10	140.0	7.50	455	1.8
15	93.3	7.50	660	1.2
20	70.0	7.50	877	1.0
25	56.0	7.50	1071	0.9
30	46.7	7.50	1225	0.8
40	35.0	5.50	1173	0.9
50	28.0	4.00	1023	0.9
60	23.3	3.00	886	1.1
80	17.5	3.00	1112	0.8
100	14.0	1.50	652	1.1

**CHM 050**

i=ratio	n2 r/min	Kw=p1	Nm=T2	f.s.
7.5	186.7	0.75	33.3	2.0
10	140.0	0.75	43.9	1.6
15	93.3	0.75	62.6	1.2
20	70.0	0.75	80	0.9
25	56.0	0.55	70	1.0
30	46.7	0.55	80	1.0
40	35.0	0.37	67	1.1
50	28.0	0.37	78	0.9
60	23.3	0.37	87	0.8
80	17.5	0.25	70	0.9
100	14.0	0.18	59	0.9

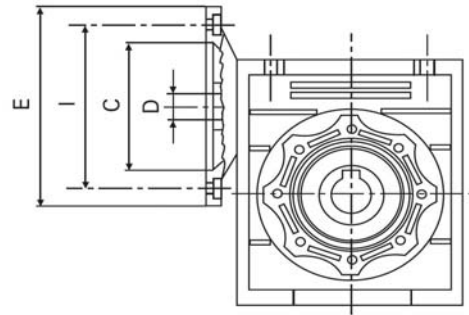
**CHM 090**

i=ratio	n2 r/min	Kw=p1	Nm=T2	f.s.
7.5	186.7	4.00	184	1.5
10	140.0	4.00	242	1.3
15	93.3	4.00	351	1.1
20	70.0	4.00	456	0.8
25	56.0	3.00	417	0.8
30	46.7	3.00	478	0.9
40	35.0	1.50	306	1.2
50	28.0	1.50	367	1.0
60	23.3	1.50	421	0.8
80	17.5	0.75	257	1.1
100	14.0	0.75	300	0.9

\* SIZE 71 MOTORS

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Please note : errors and omissions excepted.



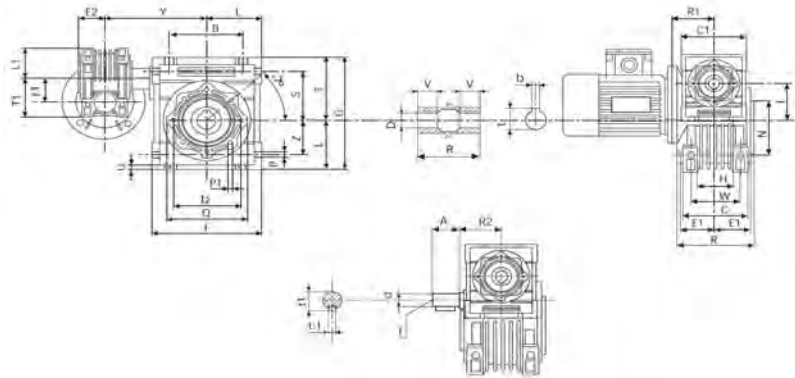
## Gearbox Technical Specifications

Unit	Motor Frame Size	Flange Dimensions			Speed Ratio from 7.5:1 to 100:1										
		C	I	E	7,5	10	15	20	25	30	40	50	60	80	100
D Input Motor Shaft Sizes (mm)															
CHM 025	56B14	50	65	80	9	9	9	9	9	9	9	9	9		
CHM 030	63B5	95	115	140	11	11	11	11	11	11	11	11			
	63B14	60	75	90											
	56B5	80	100	120	9	9	9	9	9	9	9	9	9	9	
CHM 040	56B14	50	65	80											
	71B5	110	130	160	14	14	14	14	14	14					
	71B14	70	85	105											
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11
CHM 050	63B14	60	75	90											
	56B5	80	100	120								9	9	9	9
	80B5	130	165	200	19	19	19	19	19	19					
	80B14	80	100	120											
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	14	14
CHM 063	71B14	70	85	105								11	11	11	11
	90B5	130	165	200	24	24	24	24	24	24					
	90B14	95	115	140											
	80B5	130	165	200	19	19	19	19	19	19	19	19	19	19	
	80B14	80	100	120											
	71B5	110	130	160								14	14	14	14
CHM 075	71B14	70	85	105								14	14	14	14
	100/112B5	180	215	250	28	28	28								
	100/112B14	110	130	160											
	90B5	130	165	200	24	24	24	24	24	24	24	24			
	90B14	95	115	140											
	80B5	130	165	200				19	19	19	19	19	19	19	19
	80B14	80	100	120											
CHM 090	71B5	110	130	160								14	14	14	14
	100/112B5	180	215	250	28	28	28	28	28	28					
	100/112B14	110	130	160											
	90B5	130	165	200	24	24	24	24	24	24	24	24			
	90B14	95	115	140											
	80B5	130	165	200								19	19	19	19
CHM 110	80B14	80	100	120											
	132B5	230	265	300	38	38	38	38							
	100/112B5	180	215	250	28	28	28	28	28	28	28	28			
	100/112B14	110	130	160									24	24	24
	90B5	130	165	200											
CHM 130	80B5	130	165	200										19	19
	132B5	230	265	300	38	38	38	38	38	38	38				
	100/112B5	180	215	250							28	28	28	28	28
	100/112B14	110	130	160											
	90B5	130	165	200										24	24

If a dimension is critical to your application please contact our sales department for confirmation.  
Please note : errors and omissions excepted.



**DIMENSIONS OF  
COMBINED GEARS  
CHM-CHM/CHMR-CHM**



CHM-CHM	B	A	F	C1	D(H7)	d(j6)	G	H	R1	R	R2	L	L1	I
030/040	70	20	100	80	18	9	121.5	43	55	78	51	50	40	40
030/050	80	20	120	80	25	9	144	49	55	92	51	60	40	50
030/063	100	20	144	80	25	9	174	67	55	112	51	72	40	63
040/075	120	23	172	100	28	11	205	72	70	120	60	86	50	75
040/090	140	23	208	100	35	11	238	74	70	140	60	103	50	90
050/110	170	30	252.5	120	42	14	295	-	80	155	74	127.5	60	110
063/130	200	40	292.5	144	45	19	335	-	95	170	90	147.5	72	130

CHM-CHM	I1	C	I2	N(H8)	E1	E2	P	Q	S	T	T1	U	V	Z
030/040	30	71	75	60	36.5	29	6.5	87	55	71.5	57	6.5	26	35
030/050	30	85	85	70	43.5	29	8.5	100	64	84	57	7	30	40
030/063	30	103	95	80	53	29	8.5	110	80	102	57	8	36	50
040/075	40	112	115	95	57	36.5	11	140	93	119	71.5	10	40	60
040/090	40	130	130	110	67	36.5	13	160	102	135	71.5	11	45	70
050/110	50	144	165	130	74	43.5	14	200	125	167.5	84	14	50	85
063/130	63	155	215	180	81	53	16	250	140	187.5	102	15	60	100

CHM-CHM	Y	W	P1	a	b	b1	f	t	t1	Weight in kg excluding motor
030/040	120	60	M6x8(n.4)	45°	6	3	-	20.8	10.2	3.9
030/050	130	70	M8x10(n.4)	45°	8	3	-	28.3	10.2	5.0
030/063	145	85	M8x14(n.8)	45°	8	3	-	28.3	10.2	7.8
040/075	165	90	M8x14(n.8)	45°	8	4	-	31.3	12.5	11.5
040/090	182	100	M10x18(n.8)	45°	10	4	-	38.3	12.5	15
050/110	225	115	M10x18(n.8)	45°	12	5	M6	45.3	16.0	39.2
063/130	245	120	M12x21(n.4)	45°	14	6	M6	48.8	21.5	70

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Please note : errors and omissions excepted.



## CHM/CHM PERFORMANCE WITH 4 POLE MOTORS

### 1400 REVS. INPUT

**CHM 030/040**

i=ratio	n2 r/min	Kw=P1	Nm=T2
300	4.7	0.09*	70
400	3.5	0.09*	63
500	2.8	0.09*	57
600	2.3	0.09*	72
750	1.9	0.09*	72
900	1.6	0.09*	73
1200	1.2	0.09*	65
1500	0.9	0.09*	73
1800	0.8	0.09*	73
2400	0.6	0.09*	65

**CHM 040/075**

i=ratio	n2 r/min	Kw=P1	Nm=T2
300	4.7	0.37	405
400	3.5	0.25	336
500	2.8	0.25	307
600	2.3	0.18	362
750	1.9	0.18	391
900	1.6	0.18*	325
1200	1.2	0.18*	359
1500	0.9	0.09	360
1800	0.8	0.09	404
2400	0.6	0.09*	330

**CHM 050/110**

i=ratio	n2 r/min	Kw=P1	Nm=T2
300	4.7	0.75	871
400	3.5	0.75	1013
500	2.8	0.55	984
600	2.3	0.55	1062
750	1.9	0.55	1128
900	1.6	0.37	1079
1200	1.2	0.25	943
1500	0.9	0.25	1064
1800	0.8	0.25	1075
2400	0.6	0.18	1001

**CHM 030/050**

i=ratio	n2 r/min	Kw=P1	Nm=T2
300	4.7	0.18	142
400	3.5	0.18	127
500	2.8	0.09	123
600	2.3	0.09	143
750	1.9	0.09	148
900	1.6	0.09*	141
1200	1.2	0.09*	118
1500	0.9	0.09*	139
1800	0.8	0.09*	155
2400	0.6	0.09*	124

**CHM 040/090**

i=ratio	n2 r/min	Kw=P1	Nm=T2
300	4.7	0.37	405
400	3.5	0.37	523
500	2.8	0.37	550
600	2.3	0.37	605
750	1.9	0.25	538
900	1.6	0.25	533
1200	1.2	0.18	629
1500	0.9	0.18	588
1800	0.8	0.18*	492
2400	0.6	0.18*	625

**CHM 063/130**

i=ratio	n2 r/min	Kw=P1	Nm=T2
300	4.7	1.50	1789
400	3.5	1.10	1519
500	2.8	1.10	1629
600	2.3	0.75	1631
750	1.9	0.75	1804
900	1.6	0.75	1826
1200	1.2	0.55	1705
1500	0.9	0.37	1674
1800	0.8	0.37	1698
2400	0.6	0.25	1624

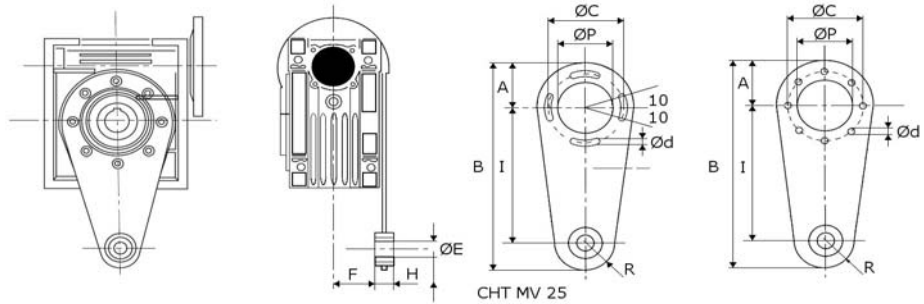
**CHM 030/063**

i=ratio	n2 r/min	Kw=P1	Nm=T2
300	4.7	0.22	210
400	3.5	0.18	222
500	2.8	0.18	205
600	2.3	0.18*	208
750	1.9	0.18*	216
900	1.6	0.09	200
1200	1.2	0.09	236
1500	0.9	0.09*	204
1800	0.8	0.09*	202
2400	0.6	0.09*	220

N.B.the powers marked with \* are higher than those that the gear allows, therefore the applicative choice must be made in accordance with the torque and not the power

The gear ratios are those most frequently requested. It is possible to obtain multiple combinations using the various ratios of the two single gears.

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## TORQUE ARM

TYPE	I	R	F	H	ØE	A	B	ØC	Ød	ØP	N°	Weight per kit kg.
CHT MV 25*	70	15	17.5	14	8	33.5	118.5	55	7	45	4	0.17
CHT MV 30*	85	15	24	14	8	38	138	65	7	55	8	0.18
CHT MV 40	100	18	31.5	14	10	44	162	75	7	60	8	0.24
CHT MV 50	100	18	38.5	14	10	50	168	85	9	70	8	0.27
CHT MV 63	150	18	49	14	10	55	223	95	9	80	8	0.57
CHT MV 75	200	30	47.5	25	20	70	300	115	9	95	8	1.10
CHT MV 90	200	30	57.5	25	20	80	310	130	11	110	8	1.26
CHT MV 110	250	35	62	30	25	100	385	165	11	130	8	1.92
CHT MV 130/150	250	35	69	30	25	125	410	215	14	180	8	2.23

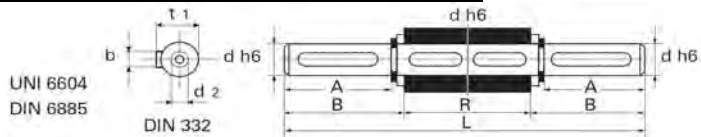
\* Without vibration resistant bushing  
 The arm anchoring point of the torque arm is equipped with a vibration resistant bushing

## SINGLE OUTPUT SHAFT KIT



TYPE	A	Ød	B	b	t1	R	L	d2	Weight per kit kg
CHT MVS 25	23	11	25.5	4	12.5	55.5	81	-	0.07
CHT MVS 30	30	14	32.5	5	16	69.5	102	M6x16	0.14
CHT MVS 40	40	18	43	6	20.5	85	128	M6x16	0.27
CHT MVS 50	50	25	53.5	8	28	99.5	153	M10x22	0.60
CHT MVS 63	50	25	53.5	8	28	119.5	173	M10x22	0.67
CHT MVS 75	60	28	63.5	8	31	128.5	192	M10x22	0.94
CHT MVS 90	80	35	84.5	10	38	149.5	234	M12x28	1.79
CHT MVS 110	80	42	84.5	12	45	164.5	249	M16x35	2.70
CHT MVS 130	80	45	85	14	48.5	180	265	M16x35	3.60

## DOUBLE OUTPUT SHAFT KIT



TYPE	A	Ød	B	R	b	t1	L	d2	Weight per kit kg
CHT MVD 25	23	11	25.5	50	4	12.5	101	-	0.11
CHT MVD 30	30	14	32.5	63	5	16	128	M6x16	0.16
CHT MVD 40	40	18	43	78	6	20.5	164	M6x16	0.34
CHT MVD 50	50	25	53.5	92	8	28	199	M10x22	0.75
CHT MVD 63	50	25	53.5	112	8	28	219	M10x22	0.84
CHT MVD 75	60	28	63.5	120	8	31	247	M10x22	1.2
CHT MVD 90	80	35	84.5	140	10	38	309	M12x28	2.5
CHT MVD 110	80	42	84.5	155	12	45	324	M16x35	3.44
CHT MVD 130	80	45	85	170	14	48.5	340	M16x35	4.25

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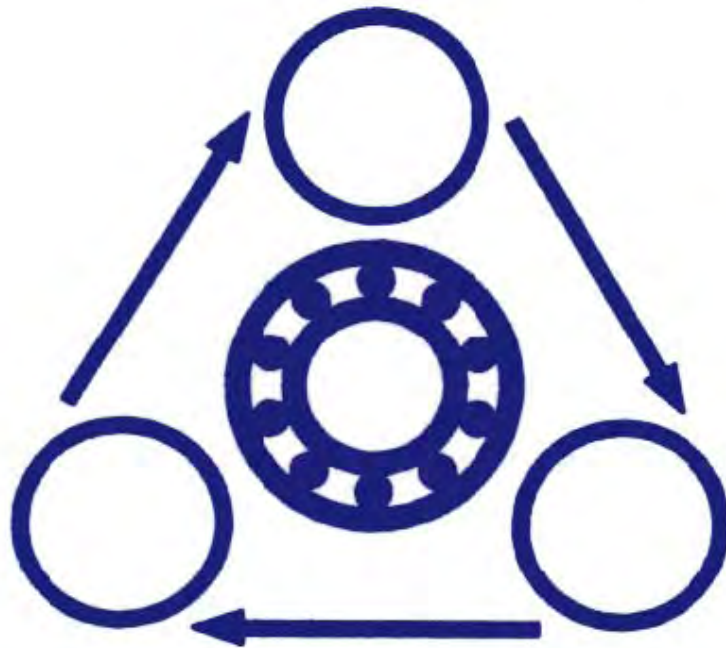
**ASHLEY POWER**



# Notes

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**ASHLEY POWER**



**COUPLINGS  
&  
UNIVERSAL JOINT  
CATALOGUE**

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**ASHLEY POWER**



# COUPLINGS & UNIVERSAL JOINTS





# Couplings & Universal Joints Contents

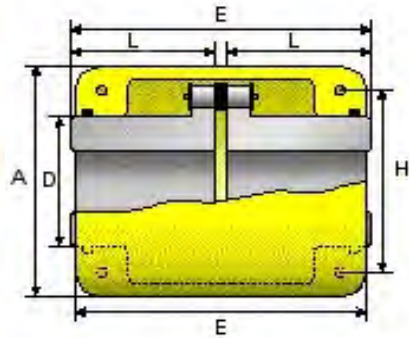
## **Couplings**

Chain Couplings.....	J4
Tyre Couplings.....	J5
Jaw Couplings.....	J6
HRC Couplings.....	J7
Nylon Sleeve Gear Couplings.....	J10

## **Universal Joints**

Single Joint Plain Bearings.....	J11
Single Joint Needle Bearings.....	J12
Single Joint Plain Bearings Long Unbored.....	J13
Double Joint Plain Bearings.....	J14
Double Joint Needle Bearings.....	J15
Double Joint Plain Bearings Long Unbored.....	J16
Protective Gaiters.....	J17

Please note: At Ashley Power we take care to ensure that all information is correct at time of printing however some errors and omissions excepted.



## Chain Couplings

Type	Coupling						Case			
	Bore Size		E	L	D	H	Weight kg	A	B	Weight kg
	Min	Max								
LRC4012	11	22	80	36	35	61	0.8	75	75	0.3
LRC4016	15	30	80	36	50	77	1.4	92	75	0.4
LRC5016	15	40	100	45	60	96	2.6	111	85	0.6
LRC5018	19	45	100	45	70	106	3.5	122	85	0.7
LRC6018	22	55	120	54	85	128	6.2	142	106	1
LRC6022	25	75	120	54	110	152	9.8	167	106	1.2
LRC8018	30	78	150	67	115	170	13.9	186	130	2.3
LRC8022	35	95	150	67	140	202	20.2	220	130	2.4

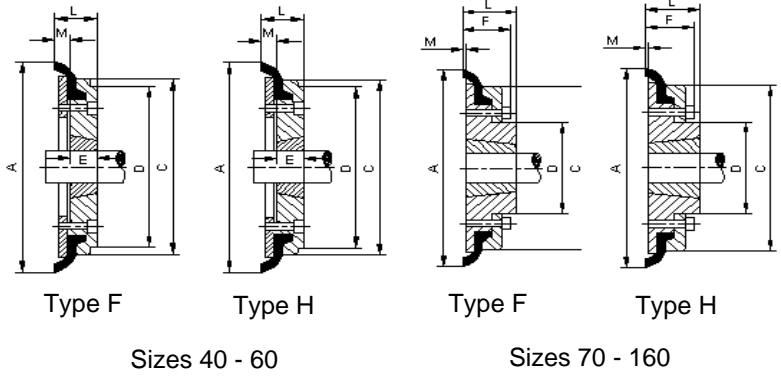
All dimensions in mm unless specified

If a dimension is critical to your application please contact our sales department for confirmation.

Please note : errors and omissions excepted.



**Taper Bore  
Tyre Couplings  
Industry Standard  
Rubber Tyre Couplings  
with Taper Bore Hubs**



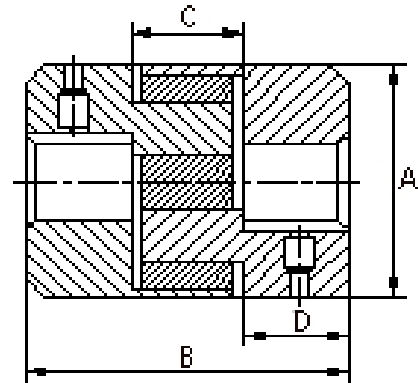
Taper Hub Flanges													
Size	Bush	Max Bore		Types F & H			A	C	D	F	G	M	Wt kg
	No.	Metric	Inch	L	E	J							
F40F	1008	25	1	33	22	29	104	82	-	-	-	11	0.8
F40H	1008	25	1	33	22	29	104	82	-	-	-	11	0.8
F50F	1210	32	1 1/4	38	25	38	133	100	79	-	-	12.5	1.2
F50H	1210	32	1 1/4	38	25	38	133	100	79	-	-	12.5	1.2
F60F	1610	42	1 5/8	42	25	38	165	125	103	-	-	16.5	2
F60H	1610	42	1 5/8	42	25	38	165	125	103	-	-	16.5	2
F70F	2012	50	2	44	32	42	187	144	80	50	13	11.5	3.1
F70H	1610	42	1 5/8	42	25	38	187	144	80	50	13	11.5	3
F80F	2517	60	2 1/2	58	45	48	211	167	95	54	16	12.5	4.9
F80H	2012	50	2	45	32	42	211	167	98	54	16	12.5	4.6
F90F	2517	60	2 1/2	59.5	45	48	235	188	108	60	16	13.5	7
F90H	2517	60	2 1/2	59.5	45	48	235	188	108	60	16	13.5	7
F100F	3020	75	3	65.5	51	55	254	216	120	62	16	13.5	9.9
F100H	2517	60	2 1/2	59.5	45	48	254	216	113	62	16	13.5	9.4
F110F	3020	75	3	63.5	51	55	279	233	134	62	16	12.5	11.7
F110H	3020	75	3	63.5	51	55	279	233	134	62	16	12.5	11.7
F120F	3525	100	4	79.5	65	67	314	264	140	67	16	14.5	16.5
F120H	3020	75	3	65.5	51	55	314	264	140	67	16	14.5	15.9
F140F	3525	100	4	81.5	65	67	359	311	178	73	17	16	22.3
F140H	3525	100	4	81.5	65	67	359	311	178	73	17	16	22.3
F160F	4030	115	4 1/2	92	77	80	402	345	197	78	19	15	32.5
F160H	4030	115	4 1/2	92	77	80	402	345	197	78	19	15	32.5

Tyres			
Size	Power kW / 100 rpm	Max. Speed (rpm)	Wt. kg
F40	0.22	4500	0.1
F45	0.39	4500	0.2
F50	0.56	4500	0.3
F60	1.11	4000	0.5
F70	1.7	3600	0.7
F80	2.65	3100	1
F85	3.2	3000	1
F90	3.82	2880	1.1
F100	5.29	2600	1.1
F110	7.46	2300	1.4
F120	12.4	2050	2.3
F140	19.7	1800	2.6
F160	32.6	1600	3.4

All dimensions in mm unless specified  
 If a dimension is critical to your application please contact our sales department for confirmation.  
 Please note : errors and omissions excepted.



## Parallel Bore Flexible Shaft Couplings JAW Type



Code	Min Bore	Max Bore	A	B*	C	D	Weight kg.	Rubber Insert	Hytrel Insert	Weight kg.
L050-S	6.35	15	27.4	43.7	11.9	15.9	0.22	yes	yes	0.02
L070-S	6.35	19	34.5	50.8	12.7	19.1	0.14	yes	yes	0.03
L075-S	6.35	22.2	44.5	54	12.7	20.6	0.23	yes	yes	0.07
L090-S	6.35	25.4	53.6	54	12.7	20.6	0.36	yes	yes	0.1
L095-S	11.1	28.6	53.6	63.5	12.7	25.4	0.4	yes	yes	0.1
L099-S	12.7	30.2	64.3	73	19.1	27	0.61	yes	yes	0.15
L100-S	12.7	35	64.3	89	19.1	34.9	0.81	yes	yes	0.15
L110-S	15.9	41.3	84.2	108	22.2	42.9	1.71	yes	yes	0.3
L150-S	15.9	47.6	95	114.5	25.4	44.5	2.28	yes	yes	0.63

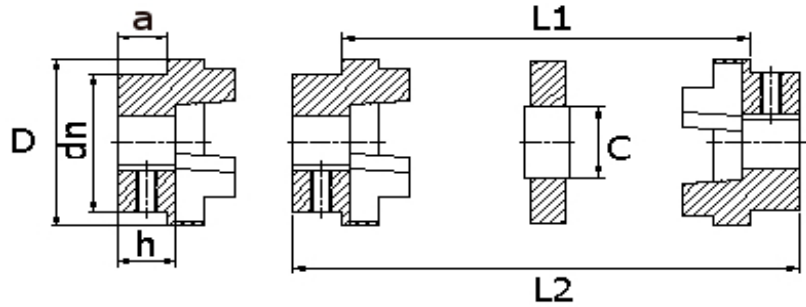
All dimensions in mm unless specified

\*Approximate overall length

Rubber, Hytrel and Urethane inserts available

If a dimension is critical to your application please contact our sales department for confirmation.

Please note : errors and omissions excepted.

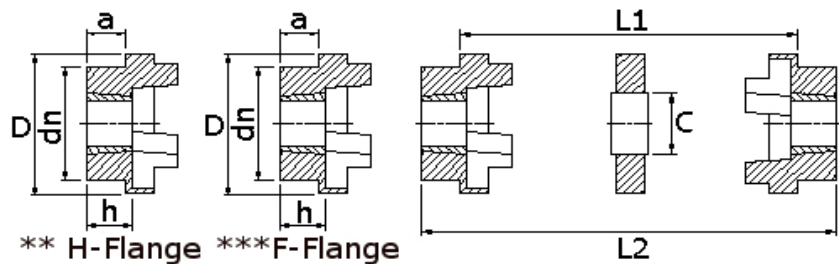


**Parallel Bore  
Flexible Shaft Couplings  
HRC Type**

Size of Coupling	Min Bore	Max Bore	D	dn	a	h	C	L1	L2*
HRC70B	10	32	69	55	21	25	31	25	68
HRC90B	10	38	85	60	20	34	32	31	91
HRC110B	10	48	112	80	19	44	45	45	117
HRC130B	20	55	130	90	18	50	50	53	136
HRC150B	28	65	150	104	24	58	62	60	155
HRC180B	28	75	180	120	35	68	77	73	184
HRC230B	45	95	225	150	40	85	99	86	229
HRC280B	55	130	275	206	51	106	119	106	286

\*Approximate overall length

**Taper Bore  
Flexible Shaft Couplings  
HRC Type**



Size of Coupling	Bush Ref.	Bore Min	Bore Max	D	dn	a	h	C	L1	L2
HRC70	1008	9	25	69	55	21	24	31	25	65
HRC90	1108	9	28	85	60	20	24	32	31	70
HRC110	1610	12	42	112	80	19	27	45	45	82
HRC130	1610	12	42	130	90	18	27	50	53	89
HRC150	2012	14	50	150	104	24	34	62	60	107
HRC180	2517	16	65	180	120	35	47	77	73	142
HRC230	3020	25	75	225	150	40	53	99	86	165
HRC280	3525	28	90	275	206	51	67	119	106	208

\*Approximate overall length

\*\*H = Flange for external bush assembly

\*\*\*F = Flange for internal bush assembly

All dimensions in mm unless specified

If a dimension is critical to your application please contact our sales department for confirmation.

Please note : errors and omissions excepted.



## Flexible Shaft Couplings

### Technical Data

Technical Data								
Size of Coupling	Bush Size	Torque		Max. Speed*	Moment of Inertia**		Weight of Coupling**	
Type	No.	Nominal Nm	Max. Nm	rpm	Bush Type kgm <sup>2</sup>	Std. Type kgm <sup>2</sup>	Bush Type k.g	Std. Type k.g
HRC70	1008	33	73	7700	0.00085	0.00078	1	1.1
HRC90	1108	84	85	6300	0.00115	0.00108	1.7	1.7
HRC110	1610	168	370	5000	0.004	0.00344	5	4.2
HRC130	1610	331	728	4100	0.0078	0.0085	5.5	6.3
HRC150	2012	630	1490	3600	0.0181	0.02112	7.1	9.5
HRC180	2517	998	2300	3000	0.0434	0.0482	16.6	15
HRC230	3020	2100	4800	2600	0.12068	0.14052	26	28
HRC280	3525	3308	7000	2200	0.44653	0.5479	50	63

\*At speeds exceeding allowable maximum speed, please consult our technical department.

\*\* Including bush with a medium bore.

Permissible Misalignment Tolerances in mm									
Size of Coupling	7	9	11	13	15	18	23	28	
Axial Misalignment	+0.2	+0.5	+0.6	+0.8	+0.9	+1.1	+1.3	+1.7	
Radial Misalignment	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	
Angular Misalignment	0.5	0.5	1	1	1.5	1.5	2	2.5	

### Coupling Selection Procedure

1. Select service factor (Table 1).
2. Nominal power multiplied by service factor equals temporary designed power K.
3. Designed power K should then be multiplied by factor L (Table 2) and S (Table 3). K x L x S gives the design power which is used for coupling selection in Table 4.
4. Check from dimensional tables that chosen coupling has room to be mounted.

Service Factors (Table 1)				
Type of Load	Driven	Driver		
		Electric motors, Light Turbines	Internal Combustion Engine >=4 cylinders	Internal Combustion Engine 1-3 cylinders
Uniform <i>No Vibration</i>	Agitators, conveyors, centrifugal pumps and compressors, centrifugal fans, generators and machine tools	1	1.4	1.8
Moderate <i>No Vibration</i>	Agitators, conveyors, hoisting equipment, bucket elevators, textile machines, mixers, printing machinery, sawmill machinery, rotary pumps	1.4	2	2.4
Substantial <i>Vibrations</i>	Hoisting equipment, calendars, crushers, dredgers, revolving furnaces, print presses, cutting presses, rotary compressors	2	2.4	2.8
Heavy <i>Shocks &amp; Vibration</i>	Crushers, extruders, rubber mixers, reciprocating pumps and conveyors, reciprocating compressors, vibrating screens	2.4	2.8	3.2



## Flexible Shaft Couplings

### Technical Data

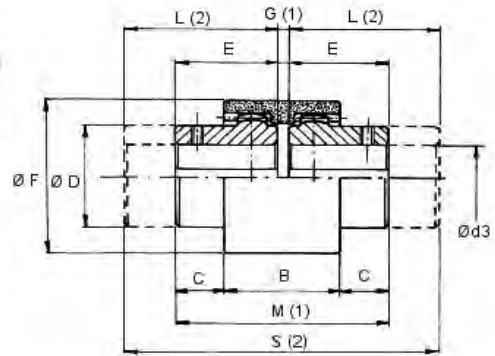
Operating Hours Factor (Table 2)				
>	-	2	8	16
<=	2	8	16	-
L	0.9	1	1.1	1.2

Starting Frequency Factor (Table 3)				
>	-	1	30	60
<=	1	30	60	-
S	1	1.2	1.3	1.5

rpm	Size of Coupling							
	KW							
	70	90	110	130	150	180	230	280
100	0.35	0.88	1.75	3.44	6.59	10.43	22	34.65
200	0.69	1.75	3.52	6.88	13.18	20.86	44.02	69.3
400	1.39	3.51	7.04	13.77	26.37	41.72	88.04	138.6
600	2.08	5.25	10.6	20.65	39.55	62.58	132.06	207.9
800	2.78	7	14.1	27.53	52.73	83.44	176.08	277.2
1000	3.47	8.75	17.6	34.42	65.92	104.3	220.1	346.5
1200	4.16	10.5	21.1	41.3	79.1	125.2	264.12	415.8
1400	4.86	12.25	24.6	48.18	92.28	146.02	308.13	485.1
1600	5.55	14	27.1	55.07	105.47	166.88	352.15	554.1
1800	6.25	15.76	31.7	61.95	118.65	187.74	396.17	623.7
2000	6.94	17.51	35.2	68.83	131.83	208.6	440.19	693
2200	7.64	19.26	38.7	75.72	145.01	229.46	484.21	762.3
2400	8.33	21	42.2	82.6	158.2	250.32	528.23	-
2600	9.02	22.76	45.7	89.48	171.38	271.18	572.25	-
2800	9.72	24.51	49.3	96.37	184.57	292.04	-	-
3000	10.41	26.26	52.8	103.25	197.75	312.9	-	-
3500	12.15	30.64	61.6	120.46	230.71	-	-	-
4000	13.88	35.01	70.4	136.67	-	-	-	-
4500	15.62	39.39	79.1	-	-	-	-	-
5000	17.35	43.76	87.9	-	-	-	-	-
5500	19.09	48.14	-	-	-	-	-	-
6000	20.82	52.52	-	-	-	-	-	-
6500	25.56	-	-	-	-	-	-	-
7000	24.3	-	-	-	-	-	-	-
7500	26.03	-	-	-	-	-	-	-

Dynamic Balance Required

If a dimension is critical to your application please contact our sales department for confirmation.  
Please note : errors and omissions excepted.



## Nylon Sleeve Gear Couplings

### Industry Standard

Coupling Type	Nominal Bore <sup>(3)</sup>	Max. Bore	Standard Hubs								Long Hubs		Number of Teeth	Tooth O/D mm	Tooth Length mm
			B	C	Ø D	E	Ø F	G <sup>(1)</sup>	M <sup>(1)</sup>	L <sup>(2)</sup>	S <sup>(2)</sup>				
GF14	6	14	38	6.5	25	23.5	41	4	51	30	64	21	33.8	8	
GF19	8	19	38	8.5	32	25.5	48	4	55	40	84	26	41.3	8	
GF24	10	24	42	7.5	36	26.5	52	4	57	50	104	28	44.5	8	
GF28	10	28	48	19	45	41	68	4	86	60	124	35	54.5	10	
GF32	12	32	48	18	50	40	75	4	84	60	124	38	58.8	10	
GF38	14	38	50	17	58	40	85	4	84	80	164	44	67.6	12	
GF42	20	42	50	19	63	42	95	4	88	110	224	47	71.6	12	
GF48	20	48	50	27	68	50	100	4	104	110	224	50	76	12	
GF55	25	55	65	29.5	82	60	120	4	124	110	224	46	94.7	15	
GF65	25	65	72	36	95	70	140	4	144	140	284	56	115	18	

All dimensions in mm unless specified

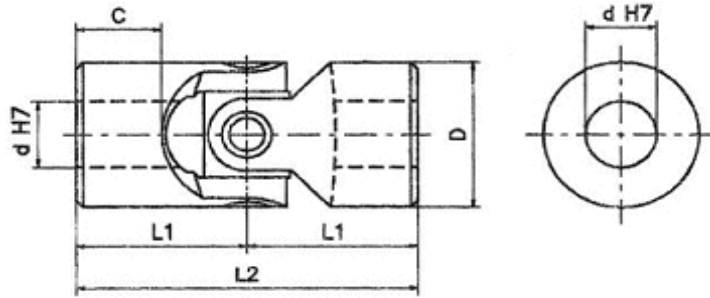
(1) Assembled length.

(2) Coupling hub length to fully fit standard shafts of UNEL-MEC range of motors.

(3) Finished bores to H7 tolerance and keyways on request.

If a dimension is critical to your application please contact our sales department for confirmation.

Please note : errors and omissions excepted.

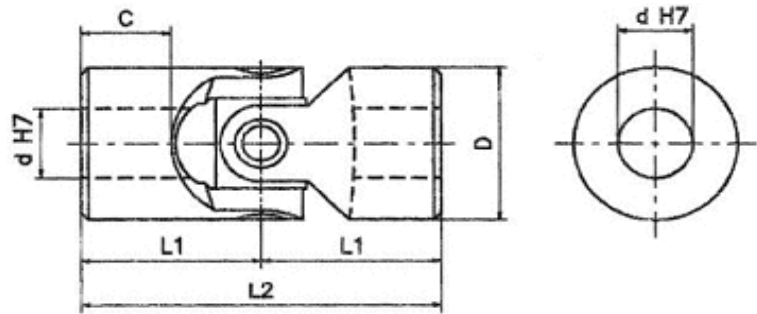


**Single Joint  
Plain Bearings  
Type UJSP in Steel**

UJSP Properties		Further bore types as below available on request	
Maximum working angle	45 degrees		
Maximum speed	1000 rpm		
Maximum power	6kW		
Maximum torque	600 Nm		
Higher power and torques are available using larger diameter or needle roller bearing joints : please enquire			
NB : It is recommended that all plain bearing joints should be used with a protective gaiter to assist lubrication and help arrest the ingress of dirt.			

Stock No	Bore d H7	Diameter D	Overall length L2	Pivot centre L1	Hub length C	Weight KG	Gaiter type
UJSP16X6	6	16	34	17	8	0.05	UJG01M16
UJSP16X8	8	16	40	20	11	0.05	UJG01M16
UJSP22X10	10	22	48	24	12	0.1	UJG03M22
UJSP25X12	12	25	56	28	13	0.16	UJG04M25
UJSP28X14	14	28	60	30	14	0.2	UJG05M28
UJSP32X16	16	32	68	34	16	0.3	UJG1M32
UJSP36X18	18	36	74	37	17	0.45	UJG2M36
UJSP42X20	20	42	82	41	18	0.6	UJG3M42
UJSP45X22	22	45	95	47.5	22	0.95	UJG4M45
UJSP50X25	25	50	108	54	26	1.2	UJG5M50

For further sizes please enquire  
 All dimensions in mm unless specified  
 If a dimension is critical to your application please contact our sales department for confirmation.  
 Please note : errors and omissions excepted.

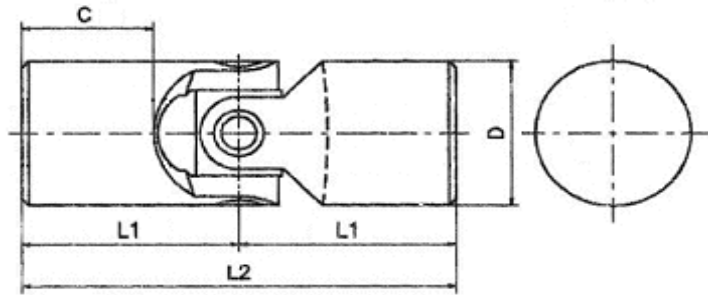


**Single Joint  
Needle Roller Bearings  
Type UJSN in Steel**

UJSN Properties		Further bore types as below available on request		
Maximum working angle	45 degrees			
Maximum speed	4000 rpm			
Maximum power	40kW			
Maximum torque	200 Nm			
Higher power and torques are available using larger diameter or needle roller bearing joints : please enquire				
NB: Protective gaiters are unnecessary for most applications				

Stock No	Bore d H7	Diameter D	Overall length L2	Pivot centre L1	Hub length C	Weight KG
UJSN22X10	10	22	48	24	12	0.1
UJSN25X12	12	25	56	28	13	0.16
UJSN28X14	14	28	60	30	14	0.2
UJSN32X16	16	32	68	34	16	0.3
UJSN36X18	18	36	74	37	17	0.45
UJSN42X20	20	42	82	41	18	0.6
UJSN45X22	22	45	95	47.5	22	0.95
UJSN50X25	25	50	108	54	26	1.2

For further sizes please enquire  
 All dimensions in mm unless specified  
 If a dimension is critical to your application please contact our sales department for confirmation.  
 Please note : errors and omissions excepted.

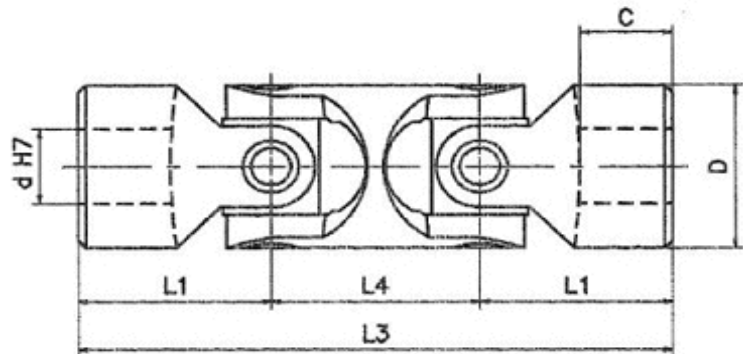


**Single Joint  
Plain Bearings  
UNBORED LONG  
Type UJSPL in Steel**

UJSPL Properties		Further bore types as below available on request	
Maximum working angle	45 degrees		
Maximum speed	1000 rpm		
Maximum power	6kW		
Maximum torque	600 Nm		
Higher power and torques are available using larger diameter or needle roller bearing joints : please enquire			
NB : It is recommended that all plain bearing joints should be used with a protective gaiter to assist lubrication and help arrest the ingress of dirt.			

Stock No	Bore	Diameter D	Overall length L2	Pivot centre L1	Hub length C	Weight KG	Gaiter type
UJSPL16XSOL	SOLID	16	56	28	19	-	UJG01M16
UJSPL22XSOL	SOLID	22	76	38	26	-	UJG03M22
UJSPL25XSOL	SOLID	25	86	43	28	-	UJG04M25
UJSPL28XSOL	SOLID	28	90	45	29	-	UJG05M28
UJSPL32XSOL	SOLID	32	95	47.5	29.5	-	UJG1M32
UJSPL36XSOL	SOLID	36	108	54	34	-	UJG2M36
UJSPL42XSOL	SOLID	42	127	63.5	40.5	-	UJG3M42
UJSPL45XSOL	SOLID	45	127	63.5	38	-	UJG4M45
UJSPL50XSOL	SOLID	50	140	70	42	-	UJG5M50
UJSPL58XSOL	SOLID	58	166	83	51	-	UJG5M58

For further sizes please enquire  
 All dimensions in mm unless specified  
 If a dimension is critical to your application please contact our sales department for confirmation.  
 Please note : errors and omissions excepted.

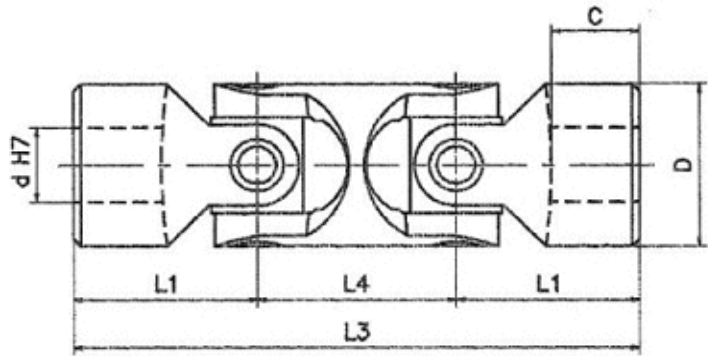


**Double Joint  
Plain Bearings  
Type UJDP in Steel**

UJDP Properties		Further bore types as below available on request
Maximum working angle	90 degrees	
Maximum speed	1000 rpm	
Maximum power	6kW	
Maximum torque	600 Nm	
Higher power and torques are available using larger diameter or needle roller bearing joints : please enquire		
NB : It is recommended that all plain bearing joints should be used with a protective gaiter to assist lubrication and help arrest the ingress of dirt.		

Stock No	Bore d H7	Diameter D	Overall length L3	Pivot to face centre L1	Pivot to pivot centre L4	Hub length C	Weight KG	Gaiter type
UJDP16X6	6	16	56	17	22	8	0.08	UJG01M16
UJDP16X8	8	16	62	20	22	11	0.08	UJG01M16
UJDP22X10	10	22	74	24	26	12	0.15	UJG03M22
UJDP25X12	12	25	86	28	30	13	0.25	UJG04M25
UJDP28X14	14	28	96	30	36	14	0.4	UJG05M28
UJDP32X16	16	32	104	34	36	16	0.45	UJG1M32
UJDP36X18	18	36	114	37	40	17	0.7	UJG2M36
UJDP42X20	20	42	128	41	46	18	1	UJG3M42
UJDP45X22	22	45	145	47.5	50	22	1.55	UJG4M45
UJDP50X25	25	50	163	54	55	26	2	UJG5M50

For further sizes please enquire  
 All dimensions in mm unless specified  
 If a dimension is critical to your application please contact our sales department for confirmation.  
 Please note : errors and omissions excepted.

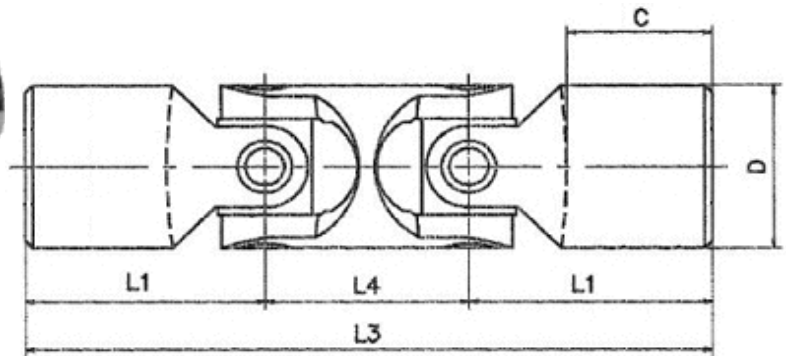
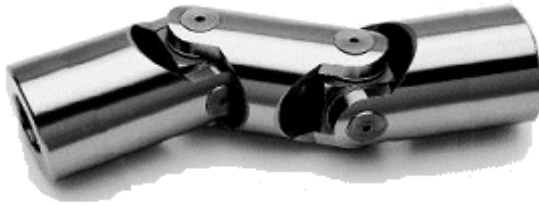


**Double Joint  
Needle Roller Bearings  
Type UJDN in Steel**

UJDN Properties		Further bore types as below available on request		
Maximum working angle	90 degrees			
Maximum speed	4000 rpm			
Maximum power	40kW			
Maximum torque	200 Nm			
Higher power and torques are available using larger diameter or needle roller bearing joints : please enquire				
NB: Protective gaiters are unnecessary for most applications				

Stock No	Bore d H7	Diameter D	Overall length L3	Pivot to face centre L1	Pivot to pivot centre L4	Hub length C	Weight KG
UJDN22X10	10	22	74	24	26	12	0.15
UJDN25X12	12	25	86	28	30	13	0.25
UJDN28X14	14	28	96	30	36	14	0.4
UJDN32X16	16	32	104	34	36	16	0.45
UJDN36X18	18	36	114	37	40	17	0.7
UJDN42X20	20	42	128	41	46	18	1
UJDN45X22	22	45	145	47.5	50	22	1.55
UJDN50X25	25	50	163	54	55	26	2

For further sizes please enquire  
All dimensions in mm unless specified  
If a dimension is critical to your application please contact our sales department for confirmation.  
Please note : errors and omissions excepted.

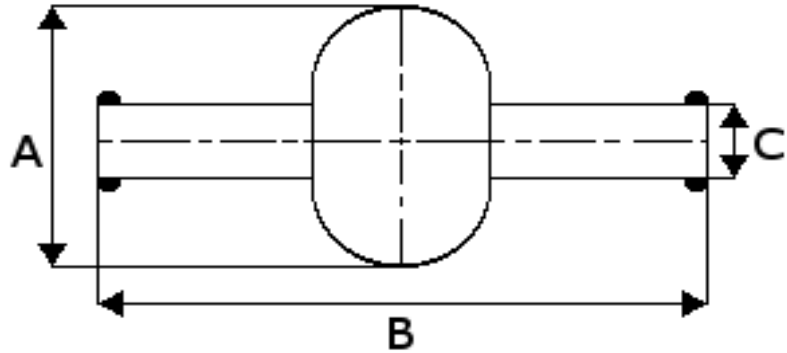


**Double Joint  
Plain Bearings  
UNBORED LONG  
Type UJDPL in Steel**

UJDPL Properties		Further bore types as below available on request	
Maximum working angle	90 degrees		
Maximum speed	1000 rpm		
Maximum power	6kW		
Maximum torque	600 Nm		
Higher power and torques are available using larger diameter or needle roller bearing joints : please enquire			
NB : It is recommended that all plain bearing joints should be used with a protective gaiter to assist lubrication and help arrest the ingress of dirt.			

Stock No	Bore	Diameter D	Overall length L2	Pivot centre L1	Pivot to pivot centre L4	Hub length C	Weight KG	Gaiter type
UJDPL16XSOL	SOLID	16	67	22.5	22	13.5	-	UJG01M16
UJDPL22XSOL	SOLID	22	115	44.5	26	32.5	-	UJG03M22
UJDPL25XSOL	SOLID	25	123	46.5	30	31.5	-	UJG04M25
UJDPL28XSOL	SOLID	28	130	47	36	31	-	UJG05M28
UJDPL32XSOL	SOLID	32	143	53	37	35	-	UJG1M32
UJDPL36XSOL	SOLID	36	155	57.5	40	37.5	-	UJG2M36
UJDPL42XSOL	SOLID	42	162	57.5	47	34.5	-	UJG3M42
UJDPL45XSOL	SOLID	45	173	61.5	50	36	-	UJG4M45
UJDPL50XSOL	SOLID	50	220	82.5	55	54.5	-	UJG5M50
UJDPL58XSOL	SOLID	58	245	88.5	68	55	-	UJG5M58

For further sizes please enquire  
 All dimensions in mm unless specified  
 If a dimension is critical to your application please contact our sales department for confirmation.  
 Please note : errors and omissions excepted.



## Protective Gaiters

### Type UJG in Polychloroprene Rubber

Stock No	Diameter A	Length B	Bore C	Joint Outside Diameter
UJG01M16	28	34	15	16
UJG02M18	32	40	16.5	18
UJG03M22	40	45	20.5	22
UJG04M25	48	50	24.5	25
UJG05M28	52	56	27.5	28
UJG1M32	56	65	30.5	32
UJG2M36	66	72	35.5	36
UJG3M42	75	82	40	42
UJG4M45	84	95	45	45
UJG5M50	92	108	50	50

For further sizes please enquire

All dimensions in mm unless specified

If a dimension is critical to your application please contact our sales department for confirmation.

Please note : errors and omissions excepted.