Lifting Systems Accessories

Contents

Motion Technologies Pty Limited
Web: www.motiontech.com.au
Email: sales@motiontech.com.au
Phone: (02) 9524 4782

Accessories Dimensions & Specifications

Standard Motor Specifications

* **Remarks:**

- CE certificate
- Standard voltage: 220V / 380V, 50Hz, 3Phase
- Custom-made Hertz: 50Hz, 60Hz
- Custom-made three phase voltage: 230V, 240V, 400V, 415V, 440V, 460V, 480V
- IP Level: IP55

4P 1500r/min

Type	Rated Power	Rated Speed	Eff.	Power Factor	Rated Current	Rated Torque	Locked-rotor Torque / Rated Torque	Max. Torque / Rated Torque	Locked-rotor Current / Rated Current	N.W.
	kW	RPM	η %	cosΦ	A	Nm	Ts / Tn	Tmax /Tn	Is / In	kg
YE2-631-4	0.12	1330	57.0	0.72	0.44	0.87	2.1	2.2	4.4	4.8
YE2-632-4	0.18	1330	60.0	0.73	0.62	1.31	2.1	2.2	4.4	5.1
YE2-711-4	0.25	1350	65.0	0.74	0.79	1.80	2.1	2.2	5.2	6.0
YE2-712-4	0.37	1350	67.0	0.75	1.12	2.66	2.1	2.2	5.2	6.3
YE2-801-4	0.55	1380	73.0	0.76	1.57	3.78	2.3	2.3	5.2	9.4
YE2-802-4	0.75	1400	79.6	0.76	1.88	5.12	2.3	2.3	6.6	10.8
YE2-90S-4	1.1	1440	81.4	0.77	2.67	7.30	2.3	2.3	6.8	12.0
YE2-90L-4	1.5	1440	82.8	0.77	3.57	9.95	2.3	2.3	7.0	14.2
YE2-100L1-4	2.2	1440	84.3	0.81	4.90	14.6	2.3	2.3	7.6	21.0
YE2-100L2-4	3	1440	85.5	0.82	6.50	19.9	2.3	2.3	7.6	24.5
YE2-112M-4	4	1440	86.6	0.82	8.56	26.5	2.2	2.3	7.8	45.0
YE2-132S-4	5.5	1450	87.7	0.83	11.5	36.2	2.0	2.3	7.9	67.0
YE2-132M-4	7.5	1450	88.7	0.84	15.3	49.4	2.0	2.3	7.5	79.0
YE2-160M-4	11	1460	89.8	0.84	22.2	72.0	2.2	2.3	7.7	116
YE2-160L-4	15	1460	90.6	0.85	29.6	98.1	2.2	2.3	7.8	131
YE2-180M-4	18.5	1470	91.2	0.86	35.8	120.2	2.0	2.3	7.8	170
YE2-180L-4	22	1470	91.6	0.86	42.4	142.9	2.0	2.3	7.8	182

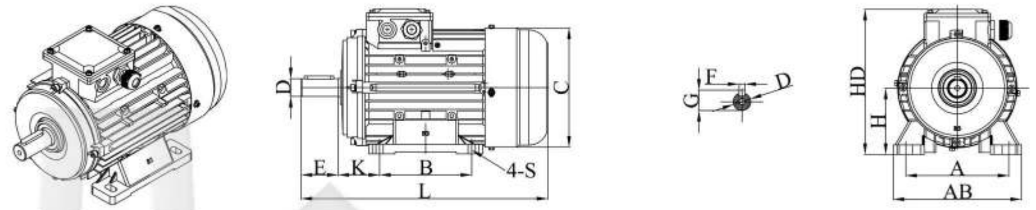
6P 1000r/min

Type	Rated Power	Rated Speed	Eff.	Power Factor	Rated Current	Rated Torque	Locked-rotor Torque / Rated Torque	Max. Torque / Rated Torque	Locked-rotor Current / Rated Current	N.W.
	kW	RPM	η %	cosΦ	A	Nm	Ts / Tn	Tmax/ Tn	Is / In	kg
YE2-711-6	0.18	850	56.0	0.66	0.74	2.02	1.9	2.0	4.0	6.5
YE2-712-6	0.25	850	59.0	0.68	0.95	2.81	1.9	2.0	4.0	7.5
YE2-801-6	0.37	885	62.0	0.70	1.30	3.97	1.9	2.0	4.7	9.0
YE2-802-6	0.55	885	65.0	0.72	1.79	5.90	1.9	2.1	4.7	11.0
YE2-90S-6	0.75	930	75.9	0.72	2.09	7.70	2.0	2.1	6.0	13.0
YE2-90L-6	1.1	940	78.1	0.72	2.97	11.2	2.0	2.1	6.0	14.5
YE2-100L-6	1.5	940	79.8	0.75	3.80	15.2	2.0	2.1	6.5	21.0
YE2-112M-6	2.2	960	81.8	0.76	5.38	21.9	2.0	2.1	6.6	45.0
YE2-132S-6	3	960	83.3	0.76	7.20	29.8	2.0	2.1	6.8	60.0
YE2-132M1-6	4	960	84.6	0.76	9.45	39.8	2.0	2.1	6.8	73.0
YE2-132M2-6	5.5	960	86.0	0.77	12.6	54.7	2.0	2.1	7.0	80.0
YE2-160M-6	7.5	970	87.2	0.78	16.8	73.8	2.0	2.1	7.0	113
YE2-160L-6	11	970	88.7	0.78	24.2	108.3	2.0	2.1	7.2	133
YE2-180L-6	15	970	89.7	0.81	31.4	147.7	2.0	2.1	7.3	175

Accessories Dimensions & Specifications

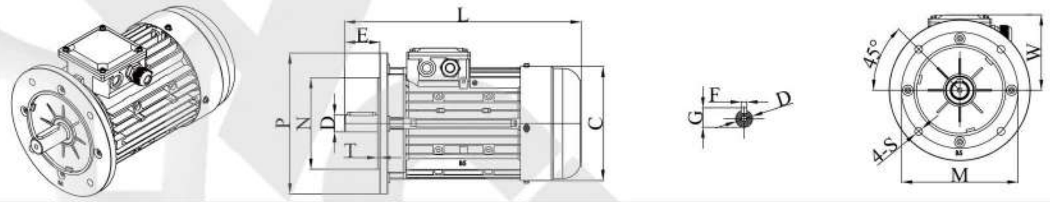
Standard Motor Dimensions

B3



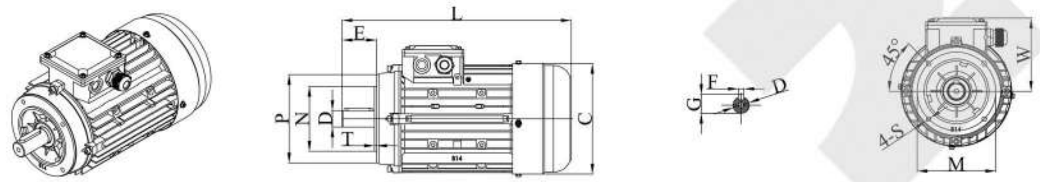
Frame	IEC Standard IM B3 Dimensions (mm)												
	A	AB	B	C	D	E	F	G	H	HD	K	L	S
63M	100	122	80	120	11	23	4	12.5	63	167	40	210	7
71M	112	136	90	130	14	30	5	16.0	71	180	45	245	7
80M	125	154	100	145	19	40	6	21.5	80	190	50	270	10
90S	140	180	100	160	24	50	8	27.0	90	205	56	316	10
90L	140	180	125	160	24	50	8	27.0	90	205	56	326	10
100L	160	205	140	185	28	60	8	31.0	100	240	63	360	12
112M	190	235	140	200	28	60	8	31.0	112	270	70	400	12
132S	216	261	140	245	38	80	10	41.0	132	310	89	470	12
132M	216	261	178	245	38	80	10	41.0	132	310	89	470	12
160M	254	320	210	320	42	110	12	45.0	160	450	108	640	14.5
160L	254	320	254	320	42	110	12	45.0	160	450	108	680	14.5
180M	279	355	241	360	48	110	14	51.5	180	500	121	790	14.5
180L	279	355	279	360	48	110	14	51.5	180	500	121	930	14.5

B5



Frame	IEC Standard IM B5 Dimensions (mm)											
	M	N	P	C	D	E	F	G	S	T	W	L
63M	115	95	140	120	11	23	4	12.5	10	3	104	220
71M	130	110	160	130	14	30	5	16.0	10	3.5	107	245
80M	165	130	200	145	19	40	6	21.5	12	3.5	115	270
90S	165	130	200	160	24	50	8	27.0	12	3.5	122	316
90L	165	130	200	160	24	50	8	27.0	12	3.5	122	326
100L	215	180	250	185	28	60	8	31.0	14.5	4	137	360
112M	215	180	250	200	28	60	8	31.0	14.5	4	155	400
132S	265	230	300	245	38	80	10	41.0	14.5	4	180	470
132M	265	230	300	245	38	80	10	41.0	14.5	4	180	470
160M	300	250	350	320	42	110	12	45.0	18.5	5	290	640
160L	300	250	350	320	42	110	12	45.0	18.5	5	290	680
180M	300	250	350	360	48	110	14	51.5	18.5	5	320	790
180L	300	250	350	360	48	110	14	51.5	18.5	5	320	930

B14



Frame	IEC Standard IM B14 Dimensions (mm)											
	M	N	P	C	D	E	F	G	S	T	W	L
63M	75	60	90	120	11	23	4	12.5	M5	2.5	104	210
71M	85	70	105	130	14	30	5	16.0	M6	2.5	107	245
80M	100	80	120	145	19	40	6	21.5	M6	3.0	115	270
90S	115	95	140	160	24	50	8	27.0	M8	3.0	122	316
90L	115	95	140	160	24	50	8	27.0	M8	3.0	122	326
100L	130	110	160	185	28	60	8	31.0	M8	3.5	137	360
112M	130	110	160	200	28	60	8	31.0	M8	3.5	155	400

Motion Technologies Pty Limited
Web: www.motiontech.com.au
Email: sales@motiontech.com.au
Phone: (02) 9524 4782

Accessories Dimensions & Specifications

Brake Motor Specifications

＊ Remarks:
- CE certificate ● Standard voltage: 220V / 380V, 50Hz, 3Phase ● Custom-made Hertz: 50Hz, 60Hz
- Custom-made three phase voltage: 230V, 240V, 400V, 415V, 440V, 460V, 480V ● IP Level: IP55

4P 1500r/min

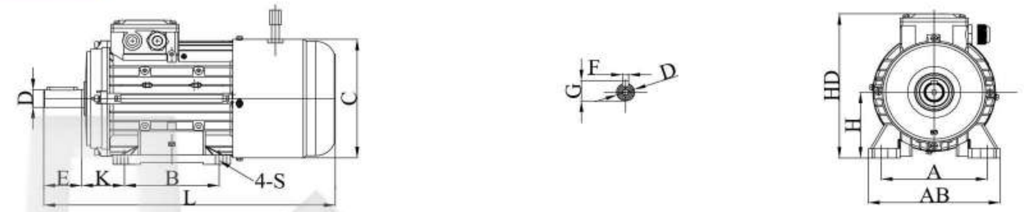
Type	Rated Power	Rated Speed	Eff.	Power Factor	Rated Current	Rated Torque	Locked-rotor Torque / Rated Torque	Max. Torque / Rated	Static Braking Torque DC	No-load Braking Time
	kW	RPM	η %	cosΦ	A	Nm	Ts / Tn	Tmax/Tn	Nm	S
YEJ-631-4	0.12	1360	57.0	0.72	0.44	0.84	2.2	2.0	3.5	0.10
YEJ-632-4	0.18	1360	60.0	0.73	0.62	1.26	2.2	2.0	3.5	0.10
YEJ-711-4	0.25	1375	65.0	0.74	0.79	1.74	2.2	2.0	4.0	0.10
YEJ-712-4	0.37	1375	67.0	0.75	1.12	2.57	2.2	2.0	4.0	0.10
YEJ-801-4	0.55	1405	71.0	0.75	1.57	3.74	2.2	2.4	7.5	0.10
YEJ-802-4	0.75	1405	73.0	0.76	2.02	5.10	2.2	2.4	7.5	0.10
YEJ-90S-4	1.1	1445	75.0	0.77	2.82	7.27	2.2	2.3	15.0	0.15
YEJ-90L-4	1.5	1445	78.0	0.79	3.70	9.91	2.2	2.3	15.0	0.15
YEJ-100L1-4	2.2	1440	80.0	0.81	5.16	14.6	2.2	2.3	30.0	0.15
YEJ-100L2-4	3	1440	82.0	0.82	6.78	19.9	2.2	2.3	30.0	0.15
YEJ-112M-4	4	1440	84.0	0.82	8.82	26.5	2.2	2.3	40.0	0.15
YEJ-132S1-4	5.5	1440	85.0	0.83	11.7	36.5	2.2	2.3	80.0	0.15
YEJ-132S2-4	7.5	1440	87.0	0.84	15.6	49.7	2.2	2.3	80.0	0.15
YEJ-160M1-4	11	1450	88.0	0.85	21.3	72.4	2.2	2.2	150.0	0.30
YEJ-160M2-4	15	1450	89.0	0.85	30.1	98.8	2.2	2.2	150.0	0.30
YEJ-180M-4	18.5	1455	90.5	0.86	36.5	121.4	2.2	2.2	150.0	0.30
YEJ-180L-4	22	1455	91.0	0.86	43.1	144.4	2.0	2.2	200.0	0.30

6P 1000r/min

Type	Rated Power	Rated Speed	Eff.	Power Factor	Rated Current	Rated Torque	Locked-rotor Torque / Rated Torque	Max. Torque / Rated	Static Braking Torque DC	No-load Braking Time
	kW	RPM	η %	cosΦ	A	Nm	Ts / Tn	Tmax/Tn	Nm	S
YEJ-711-6	0.18	900	56.0	0.66	0.71	1.91	1.9	2.0	4.0	0.10
YEJ-712-6	0.25	900	59.0	0.68	0.95	2.65	1.9	2.0	4.0	0.10
YEJ-801-6	0.37	910	62.0	0.70	1.30	3.88	1.9	2.0	7.5	0.10
YEJ-802-6	0.55	910	65.0	0.72	1.79	5.77	1.9	2.1	7.5	0.10
YEJ-90S-6	0.75	930	69.0	0.72	2.26	7.70	2.1	2.1	15.0	0.15
YEJ-90L-6	1.1	940	72.0	0.72	3.14	11.2	2.1	2.1	15.0	0.15
YEJ-100L-6	1.5	940	76.0	0.76	3.95	15.2	2.2	2.1	30.0	0.15
YEJ-112M-6	2.2	960	79.0	0.76	5.57	21.9	2.2	2.1	30.0	0.15
YEJ-132S-6	3	960	81.0	0.76	7.40	29.8	2.2	2.1	40.0	0.15
YEJ-132M1-6	4	960	82.0	0.76	9.63	39.8	2.2	2.1	80.0	0.15
YEJ-132M2-6	5.5	960	84.0	0.77	12.9	54.7	2.2	2.1	80.0	0.30
YEJ-160M-6	7.5	970	86.0	0.78	17.0	73.8	1.8	2.1	150.0	0.30
YEJ-160L-6	11	970	87.5	0.78	24.3	108.3	1.9	2.1	150.0	0.30
YEJ-180L-6	15	970	89.0	0.81	31.6	147.7	2.1	2.1	150.0	0.30

Accessories Dimensions & Specifications

Brake Motor Dimensions

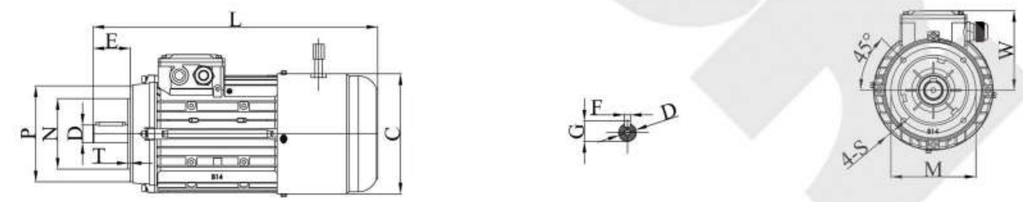


B3

Frame	A	AB	B	C	D	E	F	G	H	HD	K	L	S
	IEC Standard IM B3 Dimensions (mm)												
63M	100	135	80	120	11	23	4	12.5	63	167	40	270	7
71M	112	137	90	130	14	30	5	16.0	71	180	45	315	7
80M	125	155	100	145	19	40	6	21.5	80	190	50	340	10
90S	140	175	100	160	24	50	8	27.0	90	205	56	400	10
90L	140	175	125	160	24	50	8	27.0	90	205	56	400	10
100L	160	200	140	185	28	60	8	31.0	100	240	63	440	12
112M	190	230	140	200	28	60	8	31.0	112	270	70	480	12
132S	216	270	140	245	38	80	10	41.0	132	315	89	567	12
132M	216	270	178	245	38	80	10	41.0	132	315	89	567	12
160M	254	320	210	335	42	110	12	45.0	160	450	108	780	14.5
160L	254	320	254	335	42	110	12	45.0	160	450	108	780	14.5
180M	279	355	241	370	48	110	14	51.5	180	500	121	880	14.5
180L	279	355	279	370	48	110	14	51.5	180	500	121	880	14.5

B5

Frame	M	N	P	C	D	E	F	G	S	T	W	L
	IEC Standard IM B5 Dimensions (mm)											
63M	115	95	140	120	11	23	4	12.5	10	3	104	280
71M	130	110	160	130	14	30	5	16.0	10	3.5	107	315
80M	165	130	200	145	19	40	6	21.5	12	3.5	115	340
90S	165	130	200	160	24	50	8	27.0	12	3.5	122	400
90L	165	130	200	160	24	50	8	27.0	12	3.5	122	400
100L	215	180	250	185	28	60	8	31.0	14.5	4	137	440
112M	215	180	250	200	28	60	8	31.0	14.5	4	155	480
132S	265	230	300	245	38	80	10	41.0	14.5	4	180	567
132M	265	230	300	245	38	80	10	41.0	14.5	4	180	567
160M	300	250	350	320	42	110	12	45.0	18.5	5	290	780
160L	300	250	350	320	42	110	12	45.0	18.5	5	290	780
180M	300	250	350	360	48	110	14	51.5	18.5	5	320	880
180L	300	250	350	360	48	110	14	51.5	18.5	5	320	880



B14

Frame	M	N	P	C	D	E	F	G	S	T	W	L
	IEC Standard IM B14 Dimensions (mm)											
63M	75	60	90	120	11	23	4	12.5	M5	2.5	104	270
71M	85	70	105	130	14	30	5	16.0	M6	2.5	107	315
80M	100	80	120	145	19	40	6	21.5	M6	3.0	115	340
90S	115	95	140	160	24	50	8	27.0	M8	3.0	122	400
90L	115	95	140	160	24	50	8	27.0	M8	3.0	122	400
100L	130	110	160	185	28	60	8	31.0	M8	3.5	137	440
112M	130	110	160	200	28	60	8	31.0	M8	3.5	155	480

Accessories Dimensions & Specifications

Variable-frequency Motor Specifications

*** Remarks:**
- CE certificate
- Standard voltage: 220V / 380V, 50Hz, 3Phase
- Custom-made Hertz: 50Hz, 60Hz
- Custom-made three phase voltage: 230V, 240V, 400V, 415V, 440V, 460V, 480V
- IP Level: IP55

4P 1500r/min

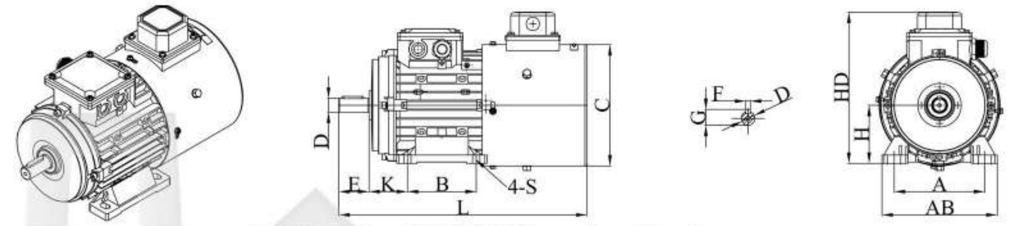
Type	Rated Power	Rated Speed	Eff.	Power Factor	Rated Current	Rated Torque	Locked-rotor Torque / Rated Torque	Max. Torque / Rated Torque	Inverter Fan Voltage		Speed
	kW	RPM	η %	cosΦ	A	Nm	Ts / Tn	Tmax/Tn	3PH	1PH	RPM
YVF$_2$-631-4	0.12	1360	57.0	0.72	0.44	0.84	2.2	2.0	380	220	2800
YVF$_2$-632-4	0.18	1360	60.0	0.73	0.62	1.26	2.2	2.0	380	220	2800
YVF$_2$-711-4	0.25	1375	65.0	0.74	0.79	1.74	2.2	2.0	380	220	2800
YVF$_2$-712-4	0.37	1375	67.0	0.75	1.12	2.57	2.2	2.0	380	220	2800
YVF$_2$-801-4	0.55	1405	71.0	0.75	1.57	3.74	2.2	2.4	380	220	2800
YVF$_2$-802-4	0.75	1405	73.0	0.77	2.02	5.10	2.2	2.4	380	220	2800
YVF$_2$-90S-4	1.1	1445	75.0	0.79	2.82	7.27	2.2	2.3	380	220	2800
YVF$_2$-90L-4	1.5	1445	78.0	0.79	3.70	9.91	2.2	2.3	380	220	2800
YVF$_2$-100L1-4	2.2	1440	80.0	0.81	5.16	14.6	2.2	2.3	380	220	2800
YVF$_2$-100L2-4	3	1440	82.0	0.82	6.78	19.9	2.2	2.3	380	220	2800
YVF$_2$-112M-4	4	1440	84.0	0.82	8.82	26.5	2.2	2.3	380	220	2800
YVF$_2$-132S1-4	5.5	1440	85.0	0.84	11.7	36.5	2.2	2.3	380	220	2800
YVF$_2$-132S2-4	7.5	1440	87.0	0.84	15.6	49.7	2.2	2.3	380	220	2800
YVF$_2$-160M-4	11	1450	88.0	0.85	21.3	72.4	2.2	2.2	380	220	2800
YVF$_2$-160L-4	15	1450	89.0	0.85	30.1	98.8	2.2	2.2	380	220	2800
YVF$_2$-180M-4	18.5	1455	90.5	0.86	36.5	121.4	2.2	2.2	380	220	2800
YVF$_2$-180L-4	22	1455	91.0	0.86	43.1	144.4	2.0	2.2	380	220	2800

6P 1000r/min

Type	Rated Power	Rated Speed	Eff.	Power Factor	Rated Current	Rated Torque	Locked-rotor Torque / Rated Torque	Max. Torque / Rated Torque	Inverter Fan Voltage		Speed
	kW	RPM	η %	cosΦ	A	Nm	Ts / Tn	Tmax/Tn	3PH	1PH	RPM
YVF$_2$-711-6	0.18	900	58.0	0.66	0.71	1.91	1.9	2.0	380	220	2800
YVF$_2$-712-6	0.25	900	59.0	0.68	0.95	2.65	1.9	2.0	380	220	2800
YVF$_2$-801-6	0.37	910	62.0	0.70	1.30	3.88	1.9	2.0	380	220	2800
YVF$_2$-802-6	0.55	910	65.0	0.72	1.79	5.77	1.9	2.1	380	220	2800
YVF$_2$-90S-6	0.75	930	70.0	0.72	2.26	7.70	2.1	2.1	380	220	2800
YVF$_2$-90L-6	1.1	940	73.0	0.73	3.14	11.2	2.1	2.1	380	220	2800
YVF$_2$-100L-6	1.5	940	76.0	0.76	3.95	15.2	2.2	2.1	380	220	2800
YVF$_2$-112M-6	2.2	960	79.0	0.76	5.57	21.9	2.2	2.1	380	220	2800
YVF$_2$-132S-6	3	960	81.0	0.76	7.40	29.8	2.2	2.1	380	220	2800
YVF$_2$-132M1-6	4	960	83.0	0.76	9.63	39.8	2.2	2.1	380	220	2800
YVF$_2$-132M2-6	5.5	960	84.0	0.77	12.9	54.7	2.2	2.1	380	220	2800
YVF$_2$-160M-6	7.5	970	86.0	0.78	17.0	73.8	1.8	2.1	380	220	2800
YVF$_2$-160L-6	11	970	87.0	0.79	24.3	108.3	1.9	2.1	380	220	2800
YVF2-180L-6	15	970	89.0	0.81	31.6	147.7	2.1	2.1	380	220	2800

Accessories Dimensions & Specifications

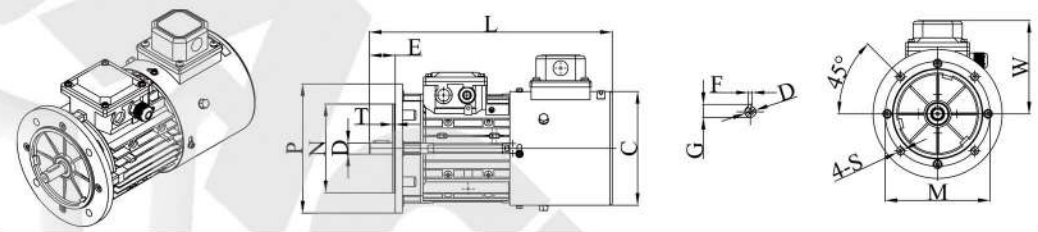
Variable-frequency Motor Dimensions



B3

Frame	A	AB	B	C	D	E	F	G	H	HD	K	L	S
63M	100	135	80	120	11	23	4	12.5	63	167	40	270	7
71M	112	137	90	130	14	30	5	16.0	71	178	45	315	7
80M	125	155	100	145	19	40	6	21.5	80	190	50	340	10
90S	140	175	100	160	24	50	8	27.0	90	205	56	400	10
90L	140	175	125	160	24	50	8	27.0	90	205	56	400	10
100L	160	200	140	185	28	60	8	31.0	100	240	63	440	12
112M	190	230	140	200	28	60	8	31.0	112	270	70	480	12
132S	216	270	140	245	38	80	10	41.0	132	315	89	567	12
132M	216	270	178	245	38	80	10	41.0	132	315	89	567	12
160M	254	320	210	335	42	110	12	45.0	160	450	108	850	14.5
160L	254	320	254	335	42	110	12	45.0	160	450	108	870	14.5
180M	279	355	279	370	48	110	14	51.5	180	500	121	880	14.5
180L	279	355	279	370	48	110	14	51.5	180	500	121	980	14.5

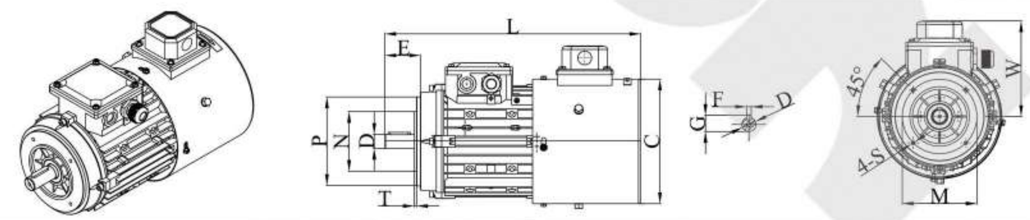
IEC Standard IM B3 Dimensions (mm)



B5

IEC Standard IM B5 Dimensions (mm)

Frame	M	N	P	C	D	E	F	G	S	T	W	L
63M	115	95	140	120	11	23	4	12.5	10	3	104	280
71M	130	110	160	130	14	30	5	16.0	10	3.5	107	315
80M	165	130	200	145	19	40	6	21.5	12	3.5	115	340
90S	165	130	200	160	24	50	8	27.0	12	3.5	122	400
90L	165	130	200	160	24	50	8	27.0	12	3.5	122	400
100L	215	180	250	185	28	60	8	31.0	14.5	4	137	430
112M	215	180	250	200	28	60	8	31.0	14.5	4	155	480
132S	265	230	300	245	38	80	10	41.0	14.5	4	180	567
132M	265	230	300	245	38	80	10	41.0	14.5	4	180	567
160M	300	250	350	335	42	110	12	45.0	18.5	5	290	850
160L	300	250	350	335	42	110	12	45.0	18.5	5	290	870
180M	300	250	350	370	48	110	14	51.5	18.5	5	340	880
180L	300	250	350	370	48	110	14	51.5	18.5	5	340	980



B14

IEC Standard IM B14 Dimensions (mm)

Frame	M	N	P	C	D	E	F	G	S	T	W	L
63M	75	60	90	120	11	23	4	12.5	M5	2.5	104	270
71M	85	70	105	130	14	30	5	16.0	M6	2.5	107	315
80M	100	80	120	145	19	40	6	21.5	M6	3.0	115	340
90S	115	95	140	160	24	50	8	27.0	M8	3.0	122	400
90L	115	95	140	160	24	50	8	27.0	M8	3.0	122	400
100L	130	110	160	185	28	60	8	31.0	M8	3.5	137	440
112M	130	110	160	200	28	60	8	31.0	M8	3.5	155	480

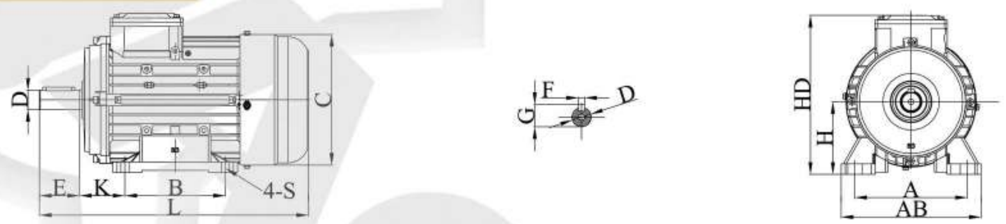
Accessories Dimensions & Specifications

Single-phase Motor Specifications

*** Remarks:**
- CE certificate ● Standard voltage: 220V / 380V, 50Hz, 3Phase ● Custom-made Hertz: 50Hz, 60Hz
- Custom-made three phase voltage: 230V, 240V, 400V, 415V, 440V, 460V, 480V ● IP Level: IP55

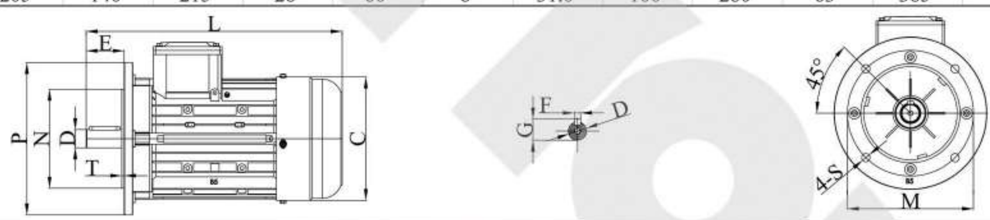
Type	Rated Power		Rated Speed	Eff.	Power Factor	Rated Current	Rated Torque	Locked-rotor Torque / Rated Torque	Max. Torque / Rated Torque	Locked-rotor Current / Rated Current
	kW	HP	RPM	η %	cosΦ	A	Nm	Ts / Tn	Tmax / Tn	Is / In
ML6314	0.12	0.16	1400	55	0.90	1.24	0.78	1.8	1.8	6.0
ML6324	0.18	0.24	1400	56	0.90	1.43	1.17	1.8	1.8	6.0
ML7114	0.25	0.34	1400	62	0.92	1.99	1.62	1.8	1.8	6.0
ML7124	0.37	0.50	1400	65	0.92	2.81	2.40	1.8	1.8	6.0
ML8014	0.55	0.75	1400	68	0.92	4.00	3.56	1.8	1.8	6.0
ML8024	0.75	1.00	1400	71	0.92	5.22	4.86	1.8	1.8	6.0
ML90S-4	1.10	1.50	1400	73	0.95	7.21	7.13	1.8	1.8	6.0
ML90L-4	1.50	2.00	1400	75	0.95	9.57	9.72	1.8	1.8	6.0
ML100L1-4	2.20	3.00	1400	76	0.95	13.9	14.26	1.8	1.8	6.0
ML100L2-4	3.00	4.00	1400	77	0.95	18.6	19.44	1.8	1.8	6.0

Single-phase Motor Dimensions



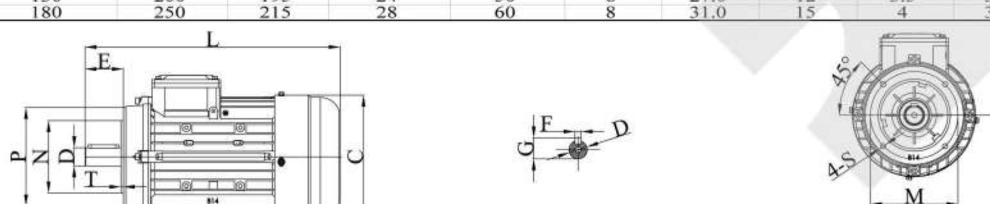
B3

Frame	IEC Standard IM B3 Dimensions (mm)												
	A	AB	B	C	D	E	F	G	H	HD	K	L	S
63M	100	126	80	124	11	23	4	12.5	63	161	40	211	7
71M	112	144	90	137	14	30	5	16.0	71	178	45	247	7
80M	125	155	100	156	19	40	6	21.5	80	202	50	275	9
90S	140	184	100	176	24	50	8	27.0	90	219	56	302	9
90L	140	184	125	176	24	50	8	27.0	90	219	56	326	9
100L	160	205	140	215	28	60	8	31.0	100	280	63	385	12



B5

Frame	IEC Standard IM B5 Dimensions (mm)										
	M	N	P	C	D	E	F	G	S	T	L
63M	115	95	140	130	11	23	4	12.5	10	3	225
71M	130	110	160	145	14	30	5	16.0	10	3.5	250
80M	165	130	200	175	19	40	6	21.5	12	3.5	295
90S	165	130	200	195	24	50	8	27.0	12	3.5	315
90L	165	130	200	195	24	50	8	27.0	12	3.5	340
100L	215	180	250	215	28	60	8	31.0	15	4	385



B14

Frame	IEC Standard IM B14 Dimensions (mm)										
	M	N	P	C	D	E	F	G	S	T	L
63M	75	60	90	130	11	23	4	12.5	M5	2.5	225
71M	85	70	105	145	14	30	5	16.0	M6	2.5	250
80M	100	80	120	175	19	40	6	21.5	M6	3.0	295
90S	115	95	140	195	24	50	8	27.0	M8	3.0	315
90L	115	95	140	195	24	50	8	27.0	M8	3.0	340
100L	130	110	160	215	28	60	8	31.0	M8	3.5	385

Accessories Dimensions & Specifications

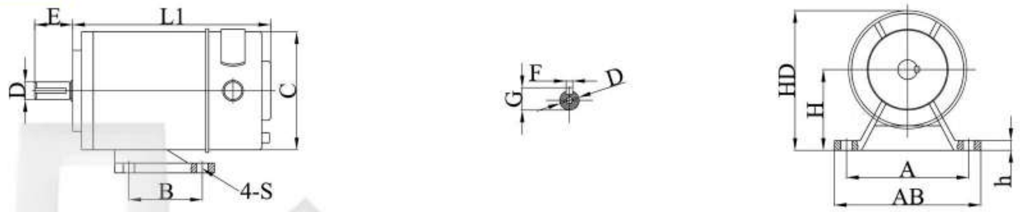
DC Motor Specifications

*** Remarks:**
- DC Motor with 12V, 1.5KW, 1500RPM, Continue working time less than 30 minutes.
- DC Motor with 12V, 2.2KW, 3000RPM, Continue working time less than 30 minutes.
- DC Motor with 24V, 1.8KW, 1500RPM, Continue working time less than 30 minutes.
- DC Motor with 24V, 3.0KW, 3000RPM, Continue working time less than 30 minutes.

Type	Power	Output Speed	Voltage		Current ≤		Torque	Speed Tolerance	Weight ≤
	W	RPM	V		A (12V)	A (24V)	mN.m	RPM	kg
70ZYT01	50	3000	12	24	5.00	2.50	159	200	1.6
70ZYT51	70	3000	12	24	7.00	3.50	223	200	1.8
90ZYT01	50	1500	12	24	5.00	2.50	318	100	2.8
90ZYT05	92	3000	12	24	9.20	4.60	293	200	2.8
90ZYT51	80	1500	12	24	8.00	4.00	509	100	3.5
90ZYT56	150	3000	12	24	15.00	7.50	478	200	3.5
90ZYT105	230	3000	12	24	23.00	11.50	732	200	4.2
90ZYT106	125	1500	12	24	12.50	6.25	796	100	4.2
110ZYT01	123	1500	12	24	12.30	6.15	783	100	4.5
110ZYT05	200	3000	12	24	20.00	10.00	637	200	4.5
110ZYT51	185	1500	12	24	18.50	9.25	1178	100	5.5
110ZYT55	308	3000	12	24	30.80	15.40	980	200	5.5
110ZYT56	180	1500	12	24	18.00	9.00	1146	100	5.5
110ZYT105	400	3000	12	24	40.00	20.00	1273	200	6.0
110ZYT106	250	1500	12	24	25.00	12.50	1592	100	6.0
110ZYT155	700	3000	12	24	70.00	35.00	2228	200	8.0
110ZYT156	375	1500	12	24	37.50	18.75	2388	100	8.0
130ZYT01	400	1500	12	24	40.00	20.00	2547	100	13
130ZYT03	800	3000	12	24	80.00	40.00	2547	200	13
130ZYT55	1000	3000	12	24	100.00	50.00	3183	200	15
130ZYT56	550	1500	12	24	55.00	27.50	3502	100	15
130ZYT105	700	1500	12	24	70.00	35.00	4457	100	17
130ZYT106	1100	3000	12	24	110.00	55.00	3502	200	17
130ZYT153	1500	3000	12	24	150.00	75.00	4775	200	20
130ZYT155	1000	1500	12	24	100.00	50.00	6367	100	20
130ZYT156	1200	3000	12	24	120.00	60.00	3820	200	20
130ZYT185	1200	1500	12	24	120.00	60.00	7640	100	20
130ZYT186	1500	1500	12	24	150.00	75.00	9550	100	20
130ZYT187	1800	1500		24		90.00	11460	100	20
130ZYT188	2200	3000	12	24	220.00	110.00	7003	200	20
130ZYT189	3000	3000		24		150.00	9550	200	20

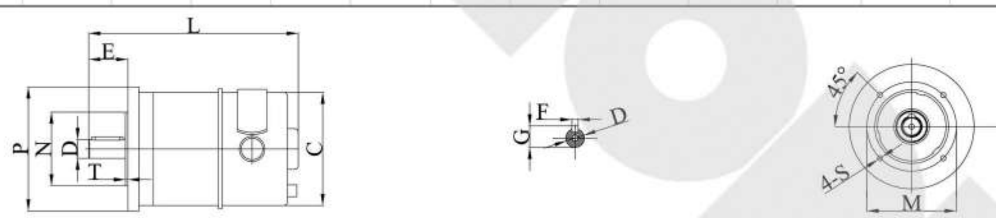
Accessories Dimensions & Specifications

DC Motor Dimensions



B3

Type	IEC Standard IM B3 (A1 - Foot Mounted) Dimensions (mm)											
	A	AB	B	C	D	E	F	G	H	HD	h	L1	S
90ZYT01-49	100	116	44	90	8	18	2	8.80	50	97.5	3	127	7
90ZYT51-99	100	116	44	90	8	18	2	8.80	50	97.5	3	147	7
90ZYT101-149	100	116	44	90	8	18	2	8.80	50	97.5	3	172	7
110ZYT01-49	115	130	70	110	14	22	4	15.5	63	120.5	4	152	7
110ZYT51-99	115	130	70	110	14	22	4	15.5	63	120.5	4	172	7
110ZYT101-149	115	130	70	110	14	22	4	15.5	63	120.5	4	188	7
110ZYT151-199	115	130	70	110	14	22	4	15.5	63	120.5	4	218	7
130ZYT01-49	140	162	90	130	14	24	5	16.0	75	143.0	4	204	9
130ZYT51-99	140	162	90	130	14	24	5	16.0	75	143.0	4	224	9
130ZYT101-149	140	162	90	130	14	24	5	16.0	75	143.0	4	244	9
130ZYT151-159	140	162	90	130	19	24	6	21.5	75	143.0	4	274	9



B5 / B14

Type	IEC Standard IM B5, B14 Dimensions (mm)											IEC Flange Code
	M	N	P	C	D	E	F	G	S	T	L	
90ZYT	75	60	90	90	11	23	4	12.5	M5	2.5	190	63B14
110ZYT	85	70	105	110	14	30	5	16.0	M6	2.5	240	71B14
130ZYT	130	110	160	130	14	30	5	16.0	M8	3.5	255	71B5

Accessories Dimensions & Specifications

DC Gear Motor Specifications

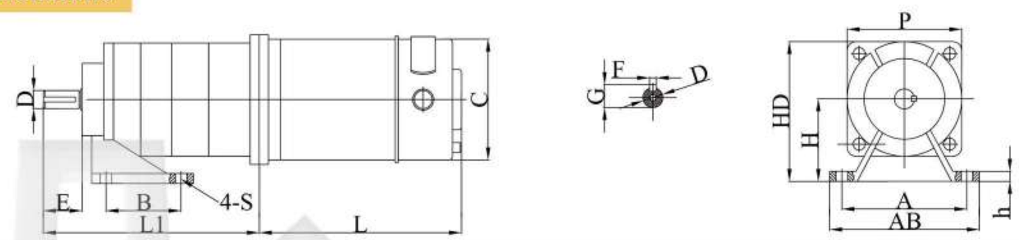
*** Remarks:**

- DC Motor with 12V, 1.5KW, 1500RPM, Continue working time less than 30 minutes.
- DC Motor with 12V, 2.2KW, 3000RPM, Continue working time less than 30 minutes.
- DC Motor with 24V, 1.8KW, 1500RPM, Continue working time less than 30 minutes.
- DC Motor with 24V, 3.0KW, 3000RPM, Continue working time less than 30 minutes.

Type	Power	Output Speed	Voltage		Current ≤		Torque	Speed Tolerance	Weight ≤
	W	RPM	V		A (12V)	A (24V)	mN.m	RPM	kg
70ZYT01	50	3000	12	24	5.00	2.50	159	200	1.6
70ZYT51	70	3000	12	24	7.00	3.50	223	200	1.8
90ZYT01	50	1500	12	24	5.00	2.50	318	100	2.8
90ZYT05	92	3000	12	24	9.20	4.60	293	200	2.8
90ZYT51	80	1500	12	24	8.00	4.00	509	100	3.5
90ZYT56	150	3000	12	24	15.00	7.50	478	200	3.5
90ZYT105	230	3000	12	24	23.00	11.50	732	200	4.2
90ZYT106	125	1500	12	24	12.50	6.25	796	100	4.2
110ZYT01	123	1500	12	24	12.30	6.15	783	100	4.5
110ZYT05	200	3000	12	24	20.00	10.00	637	200	4.5
110ZYT51	185	1500	12	24	18.50	9.25	1178	100	5.5
110ZYT55	308	3000	12	24	30.80	15.40	980	200	5.5
110ZYT56	180	1500	12	24	18.00	9.00	1146	100	5.5
110ZYT105	400	3000	12	24	40.00	20.00	1273	200	6.0
110ZYT106	250	1500	12	24	25.00	12.50	1592	100	6.0
110ZYT155	700	3000	12	24	70.00	35.00	2228	200	8.0
110ZYT156	375	1500	12	24	37.50	18.75	2388	100	8.0
130ZYT01	400	1500	12	24	40.00	20.00	2547	100	13
130ZYT03	800	3000	12	24	80.00	40.00	2547	200	13
130ZYT55	1000	3000	12	24	100.00	50.00	3183	200	15
130ZYT56	550	1500	12	24	55.00	27.50	3502	100	15
130ZYT105	700	1500	12	24	70.00	35.00	4457	100	17
130ZYT106	1100	3000	12	24	110.00	55.00	3502	200	17
130ZYT153	1500	3000	12	24	150.00	75.00	4775	200	20
130ZYT155	1000	1500	12	24	100.00	50.00	6367	100	20
130ZYT156	1200	3000	12	24	120.00	60.00	3820	200	20
130ZYT185	1200	1500	12	24	120.00	60.00	7640	100	20
130ZYT186	1500	1500	12	24	150.00	75.00	9550	100	20
130ZYT187	1800	1500		24		90.00	11460	100	20
130ZYT188	2200	3000	12	24	220.00	110.00	7003	200	20
130ZYT189	3000	3000		24		150.00	9550	200	20

Accessories Dimensions & Specifications

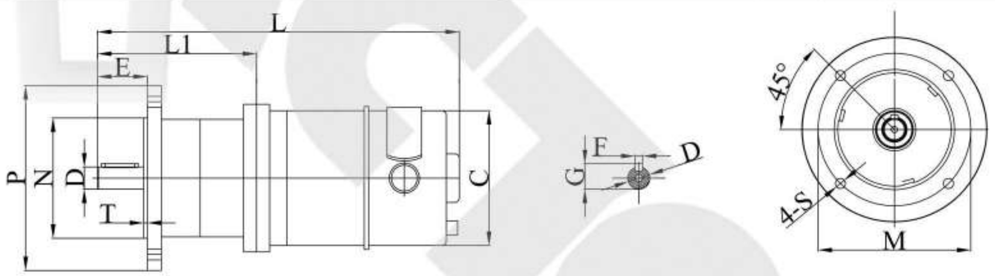
DC Gear Motor Dimensions



B3

Type	IEC Standard IM B3 (A1 - Foot Mounted) Dimensions (mm)							
	A	AB	B	C	D	E	F	G
90-PX	111	124	50	90	12 (16)	23	4 (5)	13.5 (18.0)
110-PX	116	140	60	110	22	52	6	25
130-PX	136	160	78	130	28	52	8	31

Type	H	HD	L1 / L			P	S	h
			Level 1 4:1(6:1)	Level 2 16:1(36:1)	Level 3 64:1(216:1)			
90-PX	56	101	80.5 / 143.5(168.5)	94.5 / 143.5(168.5)	108.5 / 143.5(168.5)	92	7	9
110-PX	71	128.5	145 / 190(214)	170 / 190(214)	195 / 190(214)	112	11	12
130-PX	85	153	158 / 219(229)	190 / 219(229)	222 / 219(229)	134	13	13



B5 / B14

Type	IEC Standard IM B5, B14 Dimensions (mm)							
	M	N	P	C	D	E	F	G
70-PX	115(75)	95(60)	140(90)	70	11	23	4	12.5
90-PX	130(85)	110(70)	160(105)	90	14	30	5	16.0
110-PX	165(100)	130(80)	200(120)	110	19	40	6	21.5
130-PX	165(115)	130(95)	200(140)	130	24	50	8	27.0

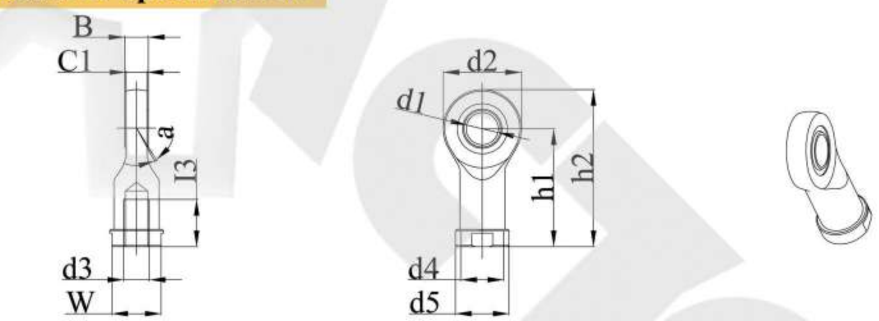
Type	S	T	L1 / L			IEC Flange Code
			Level 1 4:1(6:1)	Level 2 16:1(36:1)	Level 3 64:1(216:1)	
70-PX	9.5	3	82.5 / 193.5(203.5)	96.5 / 207.5(217.5)	110.5 / 221.5(231.5)	63B5(63B14)
90-PX	10	3.5	80.5 / 224(249)	94.5 / 238(263)	108.5 / 252(277)	71B5(71B14)
110-PX	12	3.5	145 / 335(359)	170 / 360(384)	195 / 385(409)	80B5(80B14)
130-PX	12	3.5	158 / 377(387)	190 / 409(419)	222 / 441(451)	90B5(90B14)

Accessories Dimensions & Specifications

Fork End Dimensions & Specifications

Type	Dimensions (mm)								
	A	B	C	ΦD	E	F	H	H1	h
5 kN / 0.5 Ton	M12	24	24	12	12	24	48	62	24
10 kN / 1 Ton	M14	27	27	14	14	27	56	72	28
25 kN / 2.5 Ton	M20x1.5	40	40	20	20	40	80	105	40
50 kN / 5 Ton	M30x2	60	60	30	30	60	120	160	60
100 kN / 10 Ton	M36x3	70	70	35	36	70	144	188	72
150 kN / 15 Ton	M42x3	85	85	45	42	85	168	232	84

Rod End Dimensions & Specifications



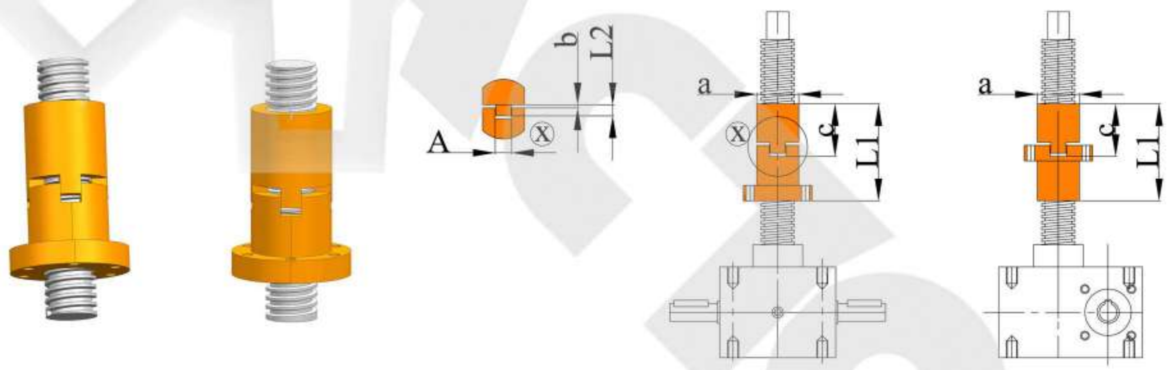
Jack Models	Rod End Type	Dimensions (mm)												Rated Load(kN)	
		d1	d3	B	C1	I3	W	d2	h1	h2	d4	d5	a°	Dynamic	Static
2.5 kN / 0.25 Ton	SI 8E	8	M8	8	6	15	14	24	36	48	12.5	16	15	5.5	12.9
5 kN / 0.5 Ton	SI 12E	12	M12	10	8	23	19	34	50	67	17.5	22	11	10.8	24.5
10 kN / 1 Ton	SI 15ES	15	M14	12	10	30	22	40	61	81	21	26	8	17	36
25 kN / 2.5 Ton	SI 20ES	20	M20x1.5	16	13	40	32	53	77	103.5	27.5	35	9	30	60
50 kN / 5 Ton	SI 30ES	30	M30x2	22	19	56	41	73	110	146.5	40	50	6	62	110
100 kN / 10 Ton	SI 35ES	35	M36x3	25	21	60	50	82	125	166	47	58	6	80	146
150 kN / 15 Ton	SI 45ES	45	M42x3	32	27	65	60	102	145	196	58	70	7	127	240
200 kN / 20 Ton	SI 50ES	50	M45x3	35	30	68	65	112	160	216	62	75	6	156	290
250 kN / 25 Ton	SI 60ES	60	M52x3	44	38	70	75	135	175	242.5	70	88	6	245	450
350 kN / 35 Ton	SI 70ES	70	M56x3	49	42	80	85	160	200	280	80	98	6	315	610
500 kN / 50 Ton	SI 80ES	80	M64x4	55	47	85	100	180	230	320	95	110	6	400	750

Accessories Dimensions & Specifications

Safety Nut Dimensions & Specifications

Screw Jacks carry the load (compression or tension) axially along their trapezoidal screw. Either the “lifting nut” for rotating screw jacks or “worm gear” for translating screw jacks is the mating part, which converts the rotary motion to linear motion. These two parts are also wearing components.
For certain applications (whenever people are present within/on the installation) the use of a safety nut is a requirement. Safety nuts increase the operating safety of the screw jacks. A safety nut on a screw jack is an auxiliary nut, which follows the “lifting nut” on a rotating screw jack or the “worm gear” on a translating screw jack. As the safety nut cannot absorb any axial load, it virtually runs wear-free alongside the travelling nut. In the event of excessive wear on the nut thread the load will be transferred from the standard nut to the safety nut. This will also provide visual wear indication as the gap between the safety nut decreases to zero as the standard lifting nut wears. Should thread failure occur in the travelling nut (extreme wear and tear, lubrication deficiency, contamination, overheating ...) the safety nut will sustain the whole load.

- **Attention:**
  - * Please state direction of load when ordering.
  - * The safety nut is only available in combination with the travelling nut for spares requirements.

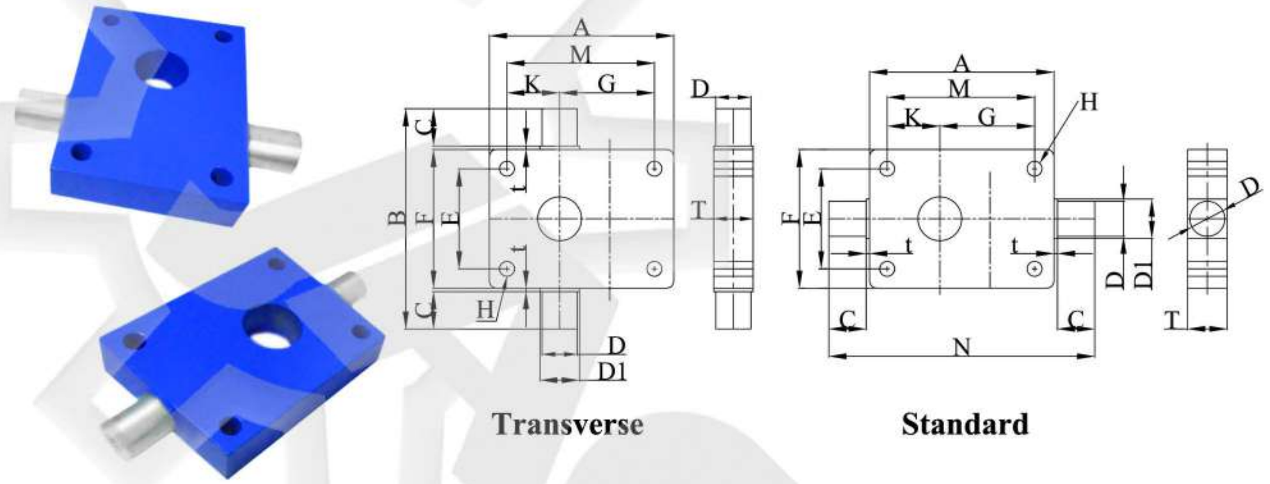


Type	Dimensions (mm)					
	Φa	b	c	A	L1	L2
JTC5	28	1	45	10	79	10
JTC10	32	1	45	10	79	10
JTC25	38	1.5	47.5	12	83.5	10
JTC50	63	1.75	74.75	16	132.75	15
JTC100	72	2.25	99.25	20	180.25	16
JTC150	90	2.25	102.25	20	185.25	16
JTC200	95	2.5	102.5	25	182.5	20
JTC250	105	2.5	112.5	25	202.5	20
JTC350	130	2.5	132.5	30	237.5	25
JTC500	160	3.5	163.5	40	298.5	25

Accessories Dimensions & Specifications

Trunnion Mounting Plate Dimensions & Specifications

In order to allow worm gear screw jacks to carry out swiveling and tipping movements, the screw jacks must be secured at two points and permitted to move. The moment of flexion resulting from the swiveling motion should be minimized as much as possible by means of low-friction articulations. In a trunnion mounting arrangement, the screw has a pivot on the end and the jack base is mounted on a trunnion plate. This type of mounting is particularly common in the antenna industry. In practice, the pivot should be as close to the centerline of the internal worm gear as design permits. This will eliminate moment loads caused by loose threads.



Transverse

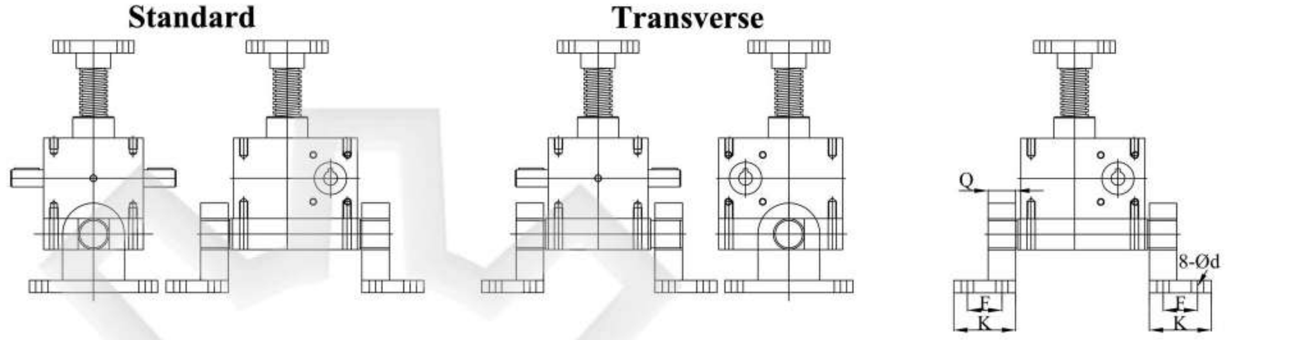
Standard

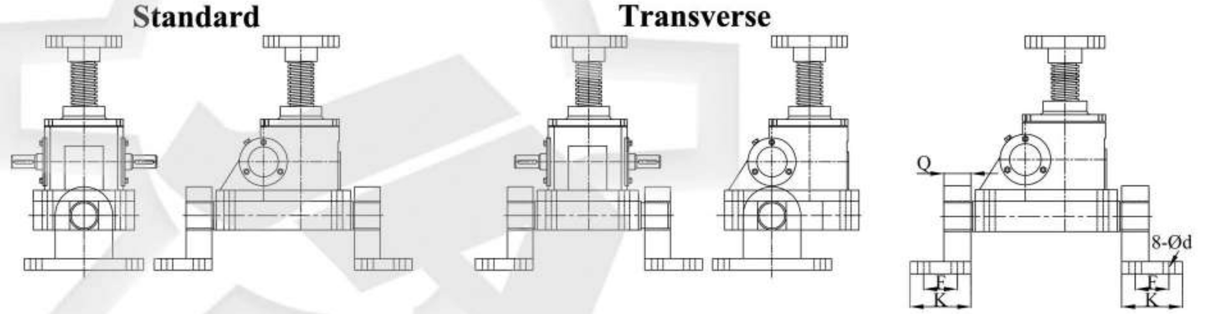
- Standard Trunnion Mounting Plate with A3 steel material. Custom Stainless steel 316, 304.

Type	Dimensions (mm)													
	ΦD	ΦD1	T	t	C	M	A	E	F	ΦH	K	G	B	N
JTC2.5	10	13	15	2	10	48	60	38	50	8	16	32	72	82
JTC5	15	18	20	2	15	60	80	52	72	10	21	39	104	112
JTC10	20	23	25	2	20	78	100	63	85	10	29	49	127	142
JTC25	25	28	30	2	20	106	130	81	105	12	42	64	147	172
JTC50	35	38	40	2	30	150	180	115	145	14	63	87	207	242
JTC100	45	48	50	2	35	166	200	131	165	18	66	100	237	272
JTC150	50	56	60	2	40	166	200	131	165	18	66	100	247	282
JTC200	70	76	80	2	45	190	240	170	220	33	75	115	312	332
JTC250	70	76	80	2	45	190	240	170	220	33	75	115	312	332
JTC350	80	88	90	2	60	230	290	190	250	39	95	135	372	412
JTC500	90	96	100	2	80	290	360	230	300	45	115	175	462	522

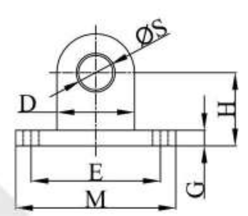
Accessories Dimensions & Specifications

Trunnion Mounting Feet Dimensions & Specifications





* Standard Trunnion Mounting Feet with steel material. Custom Stainless steel 316, 304.

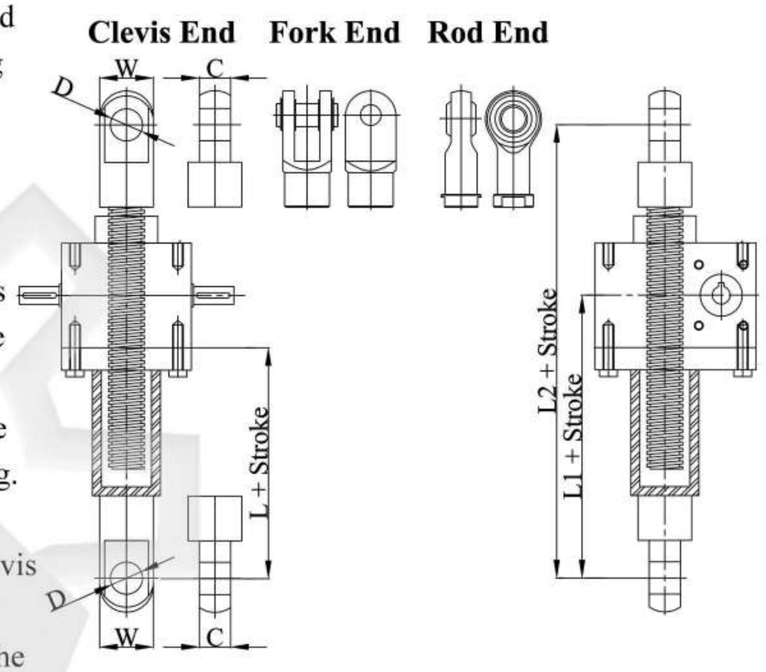


Model	Dimensions (mm)									
	D	E	F	G	H	K	M	Q	ΦS	8-Φd	Bolt size
10 kN / 1 Ton	50	80	30	12	60	54	104	20	20	11	M10
25 kN / 2.5 Ton	70	110	40	12	80	70	134	20	25	11	M10
50 kN / 5 Ton	90	150	50	18	85	90	186	30	35	18	M16
100 kN / 10 Ton	120	170	60	24	120	100	210	35	45	22	M20
150 kN / 15 Ton	140	190	65	26	130	110	240	40	50	22	M20
200 kN / 20 Ton	160	230	70	28	140	120	280	45	70	26	M24
250 kN / 25 Ton	180	270	90	36	170	150	330	45	70	33	M30
350 kN / 35 Ton	220	320	120	50	200	220	400	60	80	45	M42
500 kN / 50 Ton	220	400	120	50	210	220	500	80	90	45	M42

Accessories Dimensions & Specifications

Double Clevis Screw Jacks (JTC Series) Dimensions & Specifications

Double clevis screw jacks have less load capacity than the other common mounting configurations. They are used when it is necessary to move a load through an arc, such as angle tilt adjustment, tracking antennas, hinged doors or air dampers.
A double-clevis jack has pivots or clevises at both ends: One clevis is mounted on the end of the lifting screw and the other clevis is welded to a heavy duty protective tube,which is welded/bolted to the housing. Double clevis jacks are limited both in capacity and maximum length.Double-clevis mounting different from trunnion mounts because the pivot is located farther from the jack base.



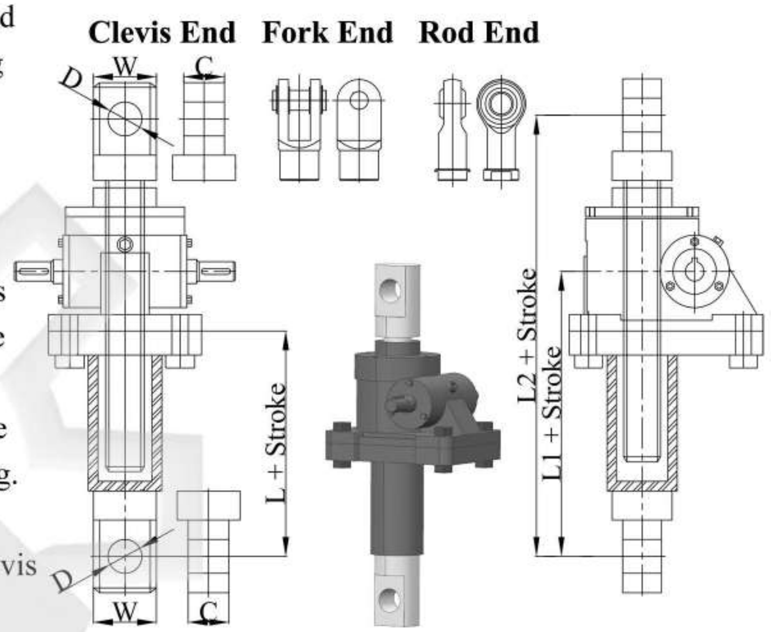
- **ST:** Standard type.
- **AR:** Anti-rotation with Square Tube.
- **LS:** With Limit Switches.
- Maximum stroke for ths type: 500 mm
- Axis of pivoting: PW and RW
  PW: Pivoting support tube parallel to the worm shaft
  RW: Pivoting support tube right-angle to the worm shaft
- Clevis end, Forked end and Rod end for choice. About forked end and rod end specifications and dimensions, please check screw jacks accessories pages.

Type		Dimensions (mm)					
		ΦD	W	C	L	L1	L2
JTC5	**ST**	12	28	15	82	113	224
	AR	12	28	15	97	128	239
	LS	12	28	15	152	183	297
JTC10	**ST**	14	38	24	94	131.5	262
	AR	14	38	24	114	151.5	282
	LS	14	38	24	166	203.5	334
JTC25	**ST**	20	50	30	98	139	303
	AR	20	50	30	118	159	323
	LS	20	50	30	170	211	375
JTC50	**ST**	30	60	35	137	195.5	398
	AR	30	60	35	167	225.5	428
	LS	30	60	35	219	277.5	480
JTC100	**ST**	35	80	40	157	237	503
	AR	35	80	40	187	267	533
	LS	35	80	40	219	299	565

Accessories Dimensions & Specifications

Double Clevis Screw Jacks (JTW Series) Dimensions & Specifications

Double clevis screw jacks have less load capacity than the other common mounting configurations. They are used when it is necessary to move a load through an arc, such as angle tilt adjustment, tracking antennas, hinged doors or air dampers.
A double-clevis jack has pivots or clevises at both ends: One clevis is mounted on the end of the lifting screw and the other clevis is welded to a heavy duty protective tube,which is welded/bolted to the housing. Double clevis jacks are limited both in capacity and maximum length.Double-clevis mounting different from trunnion mounts because the pivot is located farther from the jack base.



- **ST:** Standard type ● **SN:** With Stop Nut ● Maximum stroke for ths type: 500 mm
- Axis of pivoting: PW and RW

PW: Pivoting support tube parallel to the worm shaft
RW: Pivoting support tube right-angle to the worm shaft

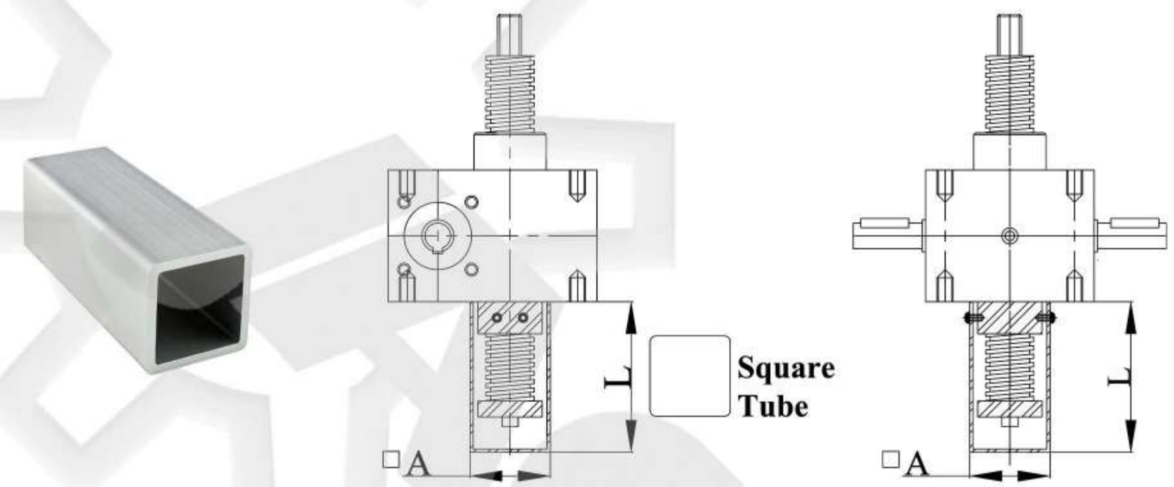
* Clevis end, Forked end and Rod end for choice. About forked end and rod end specifications and dimensions, please check screw jacks accessories pages.

Type	Dimensions (mm)								
	ΦD	W	C	L		L1		L2	
				ST	SN	ST	SN	ST	SN
JTW-2.5T	25	50	30	90	110	135	155	255.5	275.5
JTW-5T	35	65	42	113	138	174.5	199.5	335	360
JTW-10T/15T	50	90	60	125	155	195	225	385	415
JTW-20T	60	110	75	135	175	222	262	427	467
JTW-25T	70	130	90	150	200	252	302	509	559

Accessories Dimensions & Specifications

Anti-rotation Device (Square Tube + Nut) Dimensions & Specifications

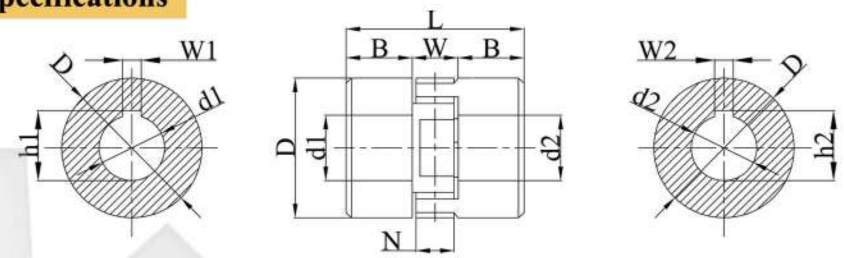
The keyed screw jack causes greater than normal wear on the internal worm gear threads, somewhat reducing screw jack life. There is another anti-rotation device that prevents rotation of the screw shaft. A square guide tube is attached to either the top or bottom of the screw jack. A square nut is attached to the end of the lifting screw which is then fitted inside the tube, preventing rotation. Please note input torques required will increase by approximately 8%, and the square protective tube is supplied with lubricating grease nipples.



Type	Dimensions (mm)		
	A (Without Limit Switches)	A (With Limit Switches)	L
JTC5	40 x 40	40 x 40	Stroke + 80
JTC10	40 x 40	40 x 40	Stroke + 80
JTC25	50 x 50	50 x 50	Stroke + 120
JTC50	80 x 80	80 x 80	Stroke + 120
JTC100	80 x 80	100 x 100	Stroke + 120
JTC150	80 x 80	100 x 100	Stroke + 120
JTC200	100 x 100	120 x 120	Stroke + 150
JTC250	100 x 100	120 x 120	Stroke + 150
JTC350	160 x 160	160 x 160	Stroke + 160

Accessories Dimensions & Specifications

FC Coupling Dimensions & Specifications



- Model example: FC19(type)-Y16(shaft end 1 dia.)-Y16(shaft end 2 dia.).
- Note: The dimensions of W1 and h1, W2 and h2, they are international standard key and keyway sizes (metric, mm) according to drive shaft sizes Φd1 / Φd2 (mm, Customized).

Type	Dimensions (mm)					
	Φd1 / Φd2	B	L	D	N	W
FC14	5, 6, 7, 8, 9, 10, 11, 12, 12.7, 14, 15, 16	11	35	30	10	13
FC19	9, 10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19, 20, 22, 24	25	66	40	12	16
FC24	10, 12, 12.7, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28	30	78	55	14	18
FC28	14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38	35	90	65	15	20
FC38	18, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45	45	114	80	18	24
FC42	19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50, 55	50	126	95	20	26
FC48	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50, 55, 60	56	140	105	21	28
FC55	22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50, 55, 60, 65, 70	65	160	120	22	30
FC65	24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50, 55, 60, 65, 70, 75	75	185	135	26	35
FC75	30, 32, 35, 38, 40, 42, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90	85	210	160	30	40
FC90	35, 38, 40, 42, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100	100	245	200	34	45

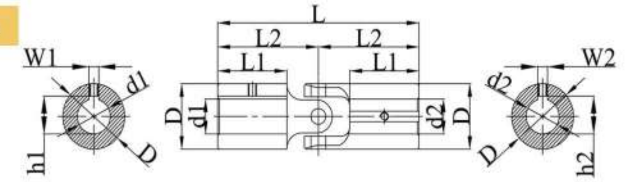
- **Note:** For Types FC19 to FC48, they are available in C45 steel material. For all types,Custom stainless steel 316,or 304

Type	Material	Rated Torque (Nm)	Max. Torque (Nm)	Moment of Inertia (Kg·m²)	Allowable Angular Misalignment	Allowable Axial Misalignment (mm)	Allowable Radial Misalignment (mm)	N.W. (kg)
FC14	Aluminum Alloy (Anodizing)	6.5	13	$6.2*10^{-6}$	1°	0.60	0.02	0.06
FC19		32	64	$3.9*10^{-5}$	1°	0.80	0.02	0.16
FC24		46	92	$1.6*10^{-3}$	1°	0.80	0.02	0.35
FC28		109	218	$3.8*10^{-3}$	1°	0.80	0.02	0.60
FC38		135	270	$1.8*10^{-3}$	1°	1.00	0.02	1.0
FC42		260	520	$2.0*10^{-3}$	1°	1.00	0.02	1.65
FC48		430	860	$3.2*10^{-3}$	1°	1.00	0.02	2.65
FC55	C45 Steel (Black Surface)	685	880	$4.5*10^{-3}$	3.2°	1.00	0.02	12.5
FC65		940	1250	$3.8*10^{-2}$	3.2°	1.00	0.02	18.5
FC75		1920	1950	$8.2*10^{-2}$	3.2°	1.00	0.02	28
FC90		3600	4800	$23.8*10^{-2}$	3.2°	1.00	0.02	52

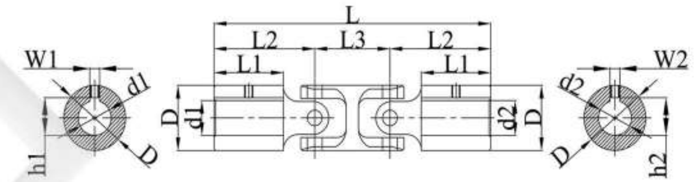
Accessories Dimensions & Specifications

Universal Joint Dimensions & Specifications

UJ Type:



UJD Type:

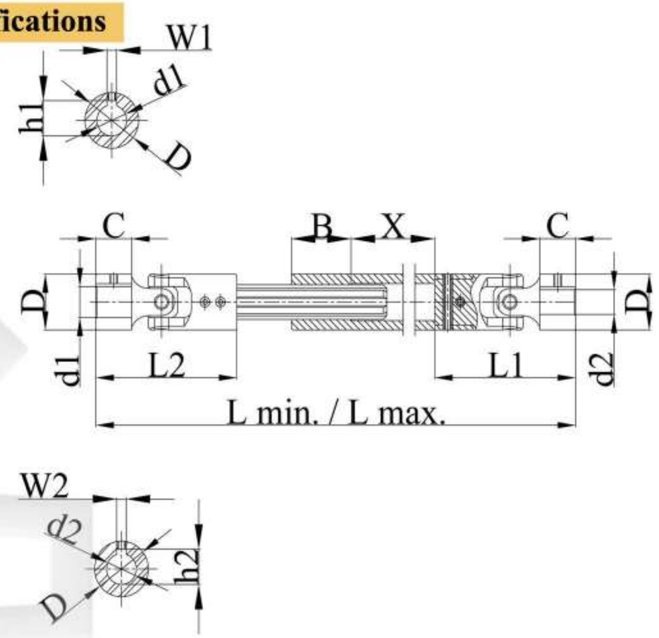


- Model example: UJ3(type)-Y16(shaft end 1 dia.)-Y16(shaft end 2 dia.).
- Standard universal joints material: 42CrMo steel. Customized stainless steel 316, or 304.
- Single UJ series can compensate for angular misalignment of up to 45 degrees between the input and output shaft, While our Double UJD series can compensate for angular misalignment of up to 90 degrees between the input and output shaft
- Standard surface treatment process with blackening. Optional galvanizing.
- The dimensions of W1 and h1, W2 and h2, they are international standard key and keyway sizes (metric, mm) according to shaft sizes Φd1 / Φd2 (mm, customized).
- Standard dimensions of L1, L2 and L are following this table. Customized L1, L2 and L length following your order. Customized larger sizes universal joints.

Type	Torque (Nm)	Dimensions (mm)						Moment of Inertia (kg·m²)	
		Φd1 / Φd2	D	L	L1	L2	L3	UJ	UJD
UJ1	11.2	5, 6, 7, 8, 9, 10	16	60	22	30	20	0.05	0.07
UJD1				80					
UJ2	22.4	5, 6, 7, 8, 9, 10, 11, 12	20	64	22	32	26	0.09	0.15
UJD2				90					
UJ3	45	5, 6, 7, 8, 9, 10, 11, 12, 14	25	80	27	40	32	0.15	0.22
UJD3				112					
UJ4	71	7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18	32	92	30	46	38	0.32	0.49
UJD4				130					
UJ5	140	10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 22	40	116	38	58	48	0.59	0.91
UJD5				164					
UJ6	280	14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28	50	138	44	69	58	1.03	1.64
UJD6				196					
UJ7	560	16, 17, 18, 19, 20, 22, 24, 25, 28, 30, 32, 35	60	182	60	91	70	2.31	3.38
UJD7				252					
UJ8	1120	22, 24, 25, 28, 30, 32, 35, 38, 40, 42	75	244	84	122	92	4.41	6.63
UJD8				336					

Accessories Dimensions & Specifications

Telescopic Universal Joint Dimensions & Specifications



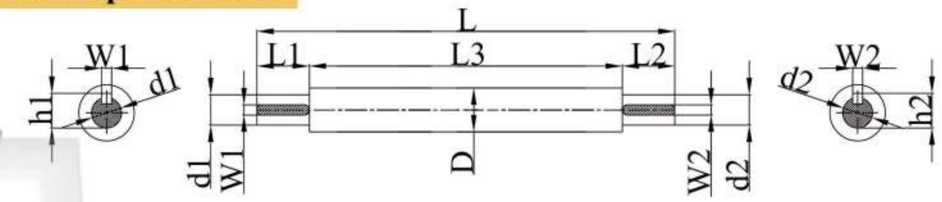
- X = Stroke.
- X ≤ (L max. - L1 - L2 - B) / 2
- L min. = L1 + L2 + B + X
- L min. ≥ (L max. + L1 + L2 + B) / 2

- Model example: TUJ5(type)-Y16(shaft end 1 dia.)-Y16(shaft end 2 dia.)-350/450(L min./ L max).
- Standard Telescopic Universal Joints material: 42CrMo steel. Customized stainless steel 316, or 304.
- TUJ Series are basically two single Universal Joints coupled together with a set of telescopic tubes. They act as a Double Universal Joints at any angle up to 90 degrees between the input and output shaft.
- Standard surface treatment process with blackening. Optional galvanizing.
- The dimensions of W1 and h1, W2 and h2, they are international standard key and keyway sizes (metric, mm) according to shaft sizes Φd1 / Φd2 (mm, customized). Customized splines, square holes, or circular holes etc.
- Standard dimensions of C, L1, L2 are following this table. Customized C, L1, L2 and L min./ L max length following your order. Customized larger sizes telescopic universal joints

Type	Torque (Nm)	Dimensions (mm)						
		Φd1 / Φd2	D	C	L1	L2	B	L min. / L max.
TUJ1	25	5, 6, 7, 8, 9, 10	22	12	48	48	30	
TUJ2	45	5, 6, 7, 8, 9, 10, 11, 12	25	13	56	56	40	
TUJ3	55	5, 6, 7, 8, 9, 10, 11, 12, 14	28	13	60	60	40	
TUJ4	71	6, 7, 8, 9, 10, 11, 12, 14, 15, 16	32	16	68	68	40	
TUJ5	100	7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18	36	17	74	74	40	
TUJ6	150	8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20	42	18	82	82	45	Following Clients' Orders.
TUJ7	210	10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 22	45	22	95	95	50	
TUJ8	280	11, 12, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25	50	26	108	108	50	
TUJ9	550	14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28, 30	58	29	122	122	60	
TUJ10	1000	16, 17, 18, 19, 20, 22, 24, 25, 28, 30, 32, 35	70	35	140	140	70	
TUJ11	1200	18, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40	80	40	160	160	80	
TUJ12	1500	22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50	95	50	190	190	90	

Accessories Dimensions & Specifications

Connecting Shaft Dimensions & Specifications



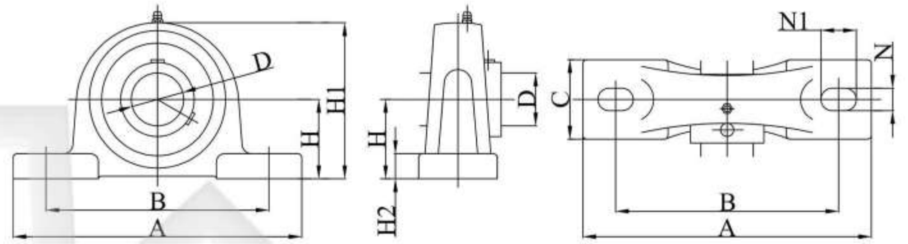
- Model example: CS30(type)-L500(overall length 500mm)-Y16(shaft end 1 dia.)-Y16(shaft end 2 dia.).
- Quality hardened bearing steel material as standard. Customized Stainless Steel 316, or 304.
- The surface(chrome plated) is smooth, high precision, high strength, resistant to rust and corrosion.
- About dimensions of W1 and h1, W2 and h2, they are international standard key and keyway sizes (metric, mm) according to shaft sizes Φd1 / Φd2 (mm, Customized).
- L, L3: Required length which is according to center distance between two supports. L1, L2: Customized length which is used to match both sides of couplings.
- Exceeds maximum distance between supports. Pillow blocks are required. Type CS40 to CS70 connecting shafts length ≥ 1000mm, Pillow blocks are recommended to fix themselves weight.

Type	Dia. (mm)	Shaft Torque	Max. Distance Between Supports (1500rpm Input)	Max. Distance Between Supports (300rpm Input)	Combined with Couplings size-Type-Nominal Torque
	D	(Nm)	(mm)	(mm)	(Nm)
CS20	20	6.5 - 32	1500	1800	FC14 & FC19
CS25	25	32 - 46	1500	1800	FC19 & FC24
CS30	30	32 - 46	1800	2000	FC19 & FC24
CS35	35	46 - 109	1800	2000	FC24 & FC28
CS40	40	109 - 135	1800	2000	FC28 & FC38
CS45	45	135 - 260	1800	2000	FC38 & FC42
CS50	50	260 - 430	1200	1500	FC42 & FC48
CS55	55	430 - 685	1200	1500	FC48 & FC55
CS60	60	685 - 940	1200	1500	FC55 & FC65
CS65	65	940 - 1920	1200	1500	FC65 & FC75
CS70	70	1920 - 3600	1000	1200	FC75 & FC90

Motion Technologies Pty Limited
Web: www.motiontech.com.au
Email: sales@motiontech.com.au
Phone: (02) 9524 4782

Accessories Dimensions & Specifications

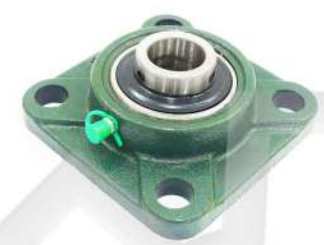
Bearing Block (UCP Type) Dimensions & Specifications

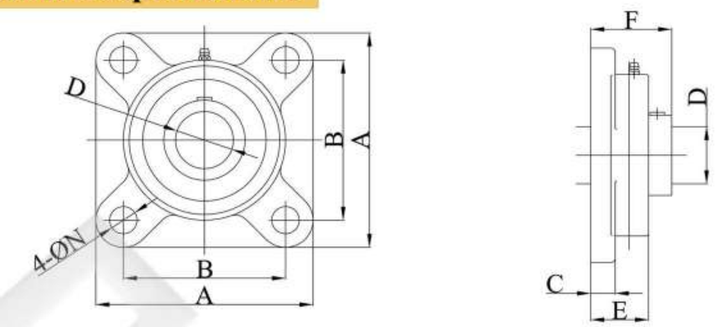


Type	Shaft Dia. (mm)	Dimensions (mm)								Weight (kg)	Bearing No.	Dynamic Load	Static Load	Critical Speed
	D	A	B	C	H	H1	H2	N	N1			(kN)	(kN)	RPM
UCP201	12	127	95	38	30	62	14	13	19	0.33	UC201	9.88	6.20	4000
UCP202	15	127	95	38	30	62	14	13	19	0.33	UC202	9.88	6.20	4000
UCP203	17	127	95	38	30	62	14	13	19	0.33	UC203	9.88	6.20	4000
UCP204	20	127	95	38	33	65	14	13	19	0.46	UC204	9.88	6.20	4000
UCP205	25	140	105	38	36.5	71	15	13	19	0.60	UC205	10.78	6.98	3400
UCP206	30	165	121	48	42.9	83	17	17	21	0.97	UC206	14.97	10.04	2800
UCP207	35	167	127	48	47.6	93	18	17	21	1.00	UC207	19.75	13.67	2400
UCP208	40	184	137	54	49.2	98	18	17	21	1.30	UC208	22.71	15.94	2200
UCP209	45	190	146	54	54.0	106	20	17	21	1.40	UC209	24.36	17.71	1900
UCP210	50	206	159	60	57.2	114	21	20	25	1.83	UC210	26.98	19.84	1800
UCP211	55	219	171	60	63.5	126	23	20	25	2.40	UC211	33.37	25.11	1600
UCP212	60	241	184	70	69.8	138	25	20	25	2.80	UC212	36.74	27.97	1500
UCP213	65	265	203	70	76.2	151	27	25	29	3.50	UC213	44.01	34.18	1400
UCP214	70	266	210	72	79.4	157	27	25	31	4.45	UC214	46.79	37.59	1300
UCP215	75	275	217	74	82.6	163	28	25	31	4.90	UC215	50.85	41.26	1200
UCP216	80	292	232	78	88.9	175	30	25	31	5.80	UC216	55.04	45.09	1100
UCP217	85	310	247	83	95.2	187	32	25	31	6.90	UC217	64.01	53.28	1000
UCP218	90	327	262	88	102	200	33	27	33	8.10	UC218	73.83	60.76	950

Accessories Dimensions & Specifications

Bearing Block (UCF Type) Dimensions & Specifications

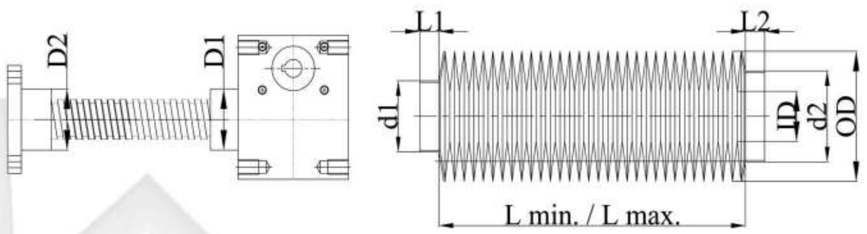




Type	Shaft Dia. (mm)	Dimensions (mm)						Weight (kg)	Bearing No.	Dynamic Load	Static Load	Critical Speed
	D	A	B	C	E	F	N			(kN)	(kN)	RPM
UCF201	12	86	64	12	25.5	33.3	12	0.60	UC201	9.88	6.20	4000
UCF202	15	86	64	12	25.5	33.3	12	0.60	UC202	9.88	6.20	4000
UCF203	17	86	64	12	25.5	33.3	12	0.60	UC203	9.88	6.20	4000
UCF204	20	86	64	12	25.5	33.3	12	0.60	UC204	9.88	6.20	4000
UCF205	25	95	70	14	27.0	35.8	12	0.86	UC205	10.78	6.98	3400
UCF206	30	108	83	14	31.0	40.2	12	1.12	UC206	14.97	10.04	2800
UCF207	35	117	92	16	34.0	44.4	14	1.60	UC207	19.75	13.67	2400
UCF208	40	130	102	16	36.0	51.2	16	1.90	UC208	22.71	15.94	2200
UCF209	45	137	105	18	38.0	52.2	16	2.40	UC209	24.36	17.71	1900
UCF210	50	143	111	18	40.0	54.6	16	2.60	UC210	26.98	19.84	1800
UCF211	55	162	130	20	43.0	58.4	19	3.50	UC211	33.37	25.11	1600
UCF212	60	175	143	20	48.0	68.7	19	4.28	UC212	36.74	27.97	1500
UCF213	65	187	149	20	50.0	69.7	19	5.30	UC213	44.01	34.18	1400
UCF214	70	193	152	24	54.0	75.4	19	5.85	UC214	46.79	37.59	1300
UCF215	75	200	159	24	56.0	78.5	19	6.91	UC215	50.85	41.26	1200
UCF216	80	208	165	24	58.0	83.3	23	7.70	UC216	55.04	45.09	1100
UCF217	85	220	175	26	63.0	87.6	23	9.66	UC217	64.01	53.28	1000
UCF218	90	235	187	26	68.0	96.3	23	12.06	UC218	73.83	60.76	950

Accessories Dimensions & Specifications

Bellow Boots Dimensions & Specifications



- D: Lifting screw shaft diameter
- S: Stroke.
- D1: Housing cover diameter. D2: Lifting screw end diameter
- ID: Inner diameter. OD: Outer diameter.
- Φd1 and Φd2: Collars diameter.
- L1 and L2: Collars length.
- L max: Fully extend length. L min: Fully retract length.

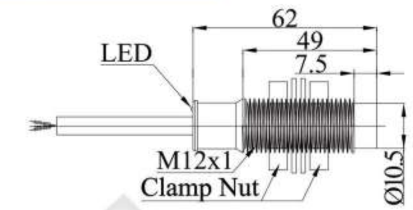
- **Note:**

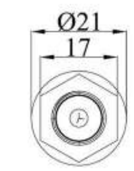
* Bellows boots protect the lifting screw from dust, dirt, and help maintain lubrication.
* Sewn Bellows (Black) as Standard, Custom Sewn Zippered Bellows.
* Easy mounting with two clamps (for collar ends), Custom square collars, round collars etc.
* Guides are recommended for all horizontal applications where travel exceeds 600 mm or if the boot needs to remain centered around the screw. The recommended number of guides is one guide for each 600 mm of travel length
* Typical rotating jack applications require two boots,one between the housing and the travel nut and one from the travel nut to the end of the lift shaft.

Collars (mm)	Dimensions (mm)					
Φd1 / Φd2	**ΦID**	**ΦOD**	**L1**	**L2**	**Lmin**	**Lmax**
Φd1 = D1 + 5mm to 10mm Φd2 = D2 + 5mm to 10mm Custom Collars Diameter	ΦID = ΦD + 10mm Custom Dia.	ΦOD = ΦD + 70mm Custom Dia.	L1 = 10mm to 20mm L2 = 10mm to 20mm Custom Collar Length		Lmax = S * 1.1 Lmin = S * 0.1 Custom Length	

Accessories Dimensions & Specifications

Proximity Switches Dimensions & Specifications

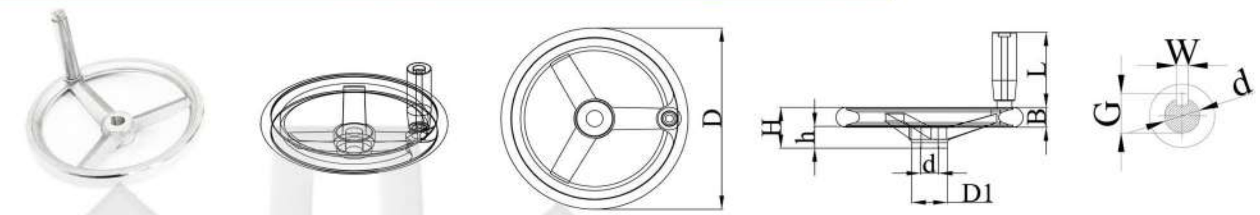




Dimension				M12	
Mounting Way				Screen Shield Type	Non-Screen Shield Type
Type	DC	NPN	NO	LJ12A3-2-Z/BX	LJ12A3-4-Z/BX
			NC	LJ12A3-2-Z/AX	LJ12A3-4-Z/AX
			NO+NC	LJ12A3-2-Z/CX	LJ12A3-4-Z/CX
		PNP	NO	LJ12A3-2-Z/BY	LJ12A3-4-Z/BY
			NC	LJ12A3-2-Z/AY	LJ12A3-4-Z/AY
			NO+NC	LJ12A3-2-Z/CY	LJ12A3-4-Z/CY
		Two Wire	NO	LJ12A3-2-Z/EX	LJ12A3-4-Z/EX
			NC	LJ12A3-2-Z/DX	**LJ12A3-4-Z/DX**
	AC	Two Wire	NO	LJ12A3-2-J/EZ	LJ12A3-4-J/EZ
			NC	LJ12A3-2-J/DZ	LJ12A3-4-J/DZ
Detection Distance				2 mm +/-10%	4 mm +/-10%
Set Distance				0-1.6mm	0-3.6mm
Detection Object				Iron 12x12x1mm (Standard)	Iron 15x15x1mm (Standard)
Response Frequency				DC: 0.5kHz, AC: 25Hz	DC: 0.5kHz, AC: 25Hz
Delay Distance				10% below of the detection distance	
Detection Object				Magnetic metal (detection distance decreases if it is non-magnetic metal)	
Power Supply Voltage				DC type: DC12-24V(6-36V) Pulse(p-p) 10% below AC type: AC110-220V (36-250V) 50/60Hz	
Consumption Current				N.P type: 13mA below, D type: 0.8mA below, A type: 1.7mA below	
Control Output				N.P type: 300mA below, D type: 200mA below, A type: 400mA below	
Loop Protection				N.P.D type: Reverse connection protection, Surge absorption, Load short-circuit protection. A type: Surge absorption	
Ambient Temperature and Humidity				During operation, Storage: -30 - +65 Deg.C (No frozen, No dew) During operation, Storage: 35~95%RH	
Insulation Resistance				More than 50MΩ (DC500 megohmmeter) charging part and the housing	
Withstand Voltage				AC1000V 50/60Hz 1min charging part and the housing	
Temperature Influence				Temp. range: -30-+65 Deg.C. At +23 Deg.C, +/-15% detection distance Temp. range: -25-+60 Deg.C. At +23 Deg.C, +/-10% detection distance	
Voltage Influence				Within +/-15% rated supply voltage range, at rated supply voltage value Within +/-10% detection distance	
Protection Structure				IP65 (IEC specifications)	
Material				Housing: Nickel plated brass. Detection surface: ABS	
Cable Length				1.2 Meter	

Accessories Dimensions & Specifications

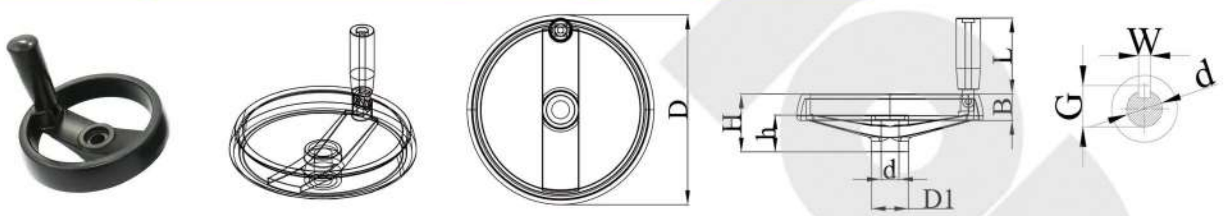
Hand Wheel (Material : Cast Iron) Dimensions & Specifications



- Model example: HW300(type)-Y20(drive shaft dia.).
- Standard with Cast Iron material (Chrome Plating), Custom-made Stainless Steel 316, 304 handwheels
- Round rim Handwheels are as Standard. Option square rim Handwheels.
- All cast iron handwheels with Revolving Handles are as Standard.
- Handwheels with a Set Screw to secure the Handwheel to a Shaft.
- Three Spokes, Four Spokes and Five Spokes Handwheels, depends on Handwheel Diameter.
- The dimensions of W and G are international standard key and keyway sizes (metric, mm) according to shaft sizes Φd (mm, customized).

Type	Dimensions (mm)							Weight (kg)
	d	D	D1	h	H	B	L	
HW125	9, 10, 12, 14, 15	125	37	20	44	29	80	0.65
HW160	10, 12, 14, 15, 16	160	44	20	48	38	80	0.95
HW175	12, 14, 15, 16, 18	175	45	24	52	43	80	1.25
HW200	14, 15, 16, 18, 20	200	47	25	54	46	80	1.65
HW250	15, 16, 18, 20, 25	250	53	28	67	51	80	2.55
HW300	15, 16, 18, 20, 25, 28, 30	300	63	30	80	58	100	3.55
HW350	16, 18, 20, 25, 28, 30, 32	350	72	38	80	59	100	6.55
HW400	18, 20, 25, 28, 30, 32, 35, 38	400	72	44	93	60	100	7.55
HW500	20, 25, 28, 30, 32, 35, 38	500	80	48	100	65	100	11.55

Hand Wheel (Material : Aluminum) Dimensions & Specifications



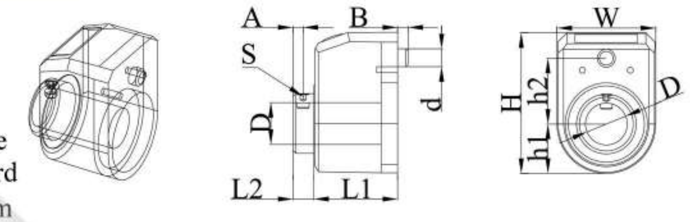
- Model example: HWA125(type)-Y10(drive shaft dia.).
- Two spoke handwheel with folding handle.
- Standard with aluminum alloy material (black, mild corrosion resistance, lightweight, non-magnetic).
- Handwheels with a Set Screw to secure the Handwheel to a Shaft.
- The dimensions of W and G are international standard key and keyway sizes (metric, mm) according to shaft sizes Φd (mm, customized).

Type	Dimensions (mm)							Weight (kg)
	d	D	D1	h	H	B	L	
HWA100	9, 10, 12	100	27	18	40	20	50	0.14
HWA125	9, 10, 12, 14, 15	125	30	18	44	22	63	0.28
HWA160	12, 14, 15, 16	160	36	20	48	25	80	0.39
HWA200	14, 15, 16, 18, 20	200	42	25	54	28	80	0.56

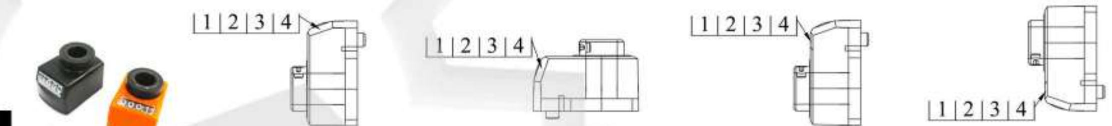
Accessories Dimensions & Specifications

Position Indicator Dimensions & Specifications

*** Remarks:**
- Standard Color: Orange, Black
- Rotation Direction: I (Clockwise, Increase), E (Counterclockwise, Decrease)
- Vertical Shaft, and Horizontal Shaft are Available
- Four Mounting Types (12, 14, 16, 17) As Standard
- Shaft Diamter: 14 mm, 20 mm, 25 mm and 30 mm

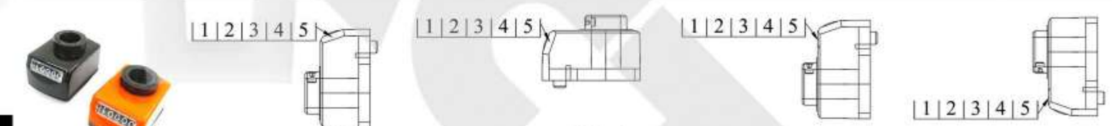


Type	Dimensions (mm)										
	D	A	B	d	H	h1	h2	L1	L2	S	W
04	14	4	5	6	47	16	22	24 / 38	7	M4	33
09	20	4.5	5	6	68	26	30	32 / 42	8	M5	48
10	25 / 30	7	8	8	75	26.8	40	44	20	M5	55.8



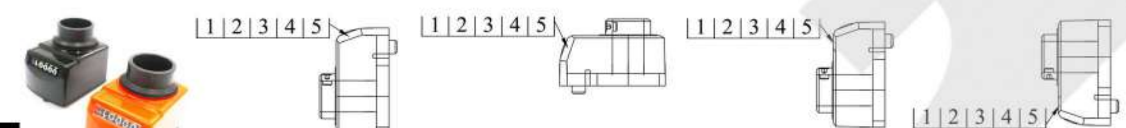
04 Type 0412 0414 0416 0417

Axial Pitch	No. of Digits	Display (after one revolution)	Max. Speed	Material	Color	Bore Diameter	Weight
mm			RPM			mm	g
1.0	4	001.0	1500	Plasitc and Metal	O = Orange S = Black	14	55
1.25	4	001.2/5	1200				
1.5	4	001.5	1000				
1.75	4	001.7/5	850				
2.0	4	002.0	750				
2.5	4	002.5	600				
3.0	4	003.0	500				
4.0	4	004.0	375				
5.0	4	005.0	300				
6.0	4	006.0	250				
10.0	4	010.0	150				



09 Type 0912 0914 0916 0917

Axial Pitch	No. of Digits	Display (after one revolution)	Max. Speed	Material	Color	Bore Diameter	Weight
mm			RPM			mm	g
1.0	5	0001.0	1500	Plasitc and Metal	O = Orange S = Black	20	110
1.25	5	0001.2/5	1200				
1.5	5	0001.5	1000				
2.0	5	0002.0	750				
2.5	5	0002.5	600				
3.0	5	0003.0	500				
4.0	5	0004.0	375				
5.0	5	0005.0	300				
6.0	5	0006.0	250				
8.0	5	0008.0	180				
10.0	5	0010.0	150				



10 Type 1012 1014 1016 1017

Axial Pitch	No. of Digits	Display (after one revolution)	Max. Speed	Material	Color	Bore Diameter	Weight
mm			RPM			mm	g
1.0	5	0001.0	1500	Plasitc and Metal	O = Orange S = Black	25 / 30	230
2.0	5	0002.0	750				
2.5	5	0002.5	600				
3.0	5	0003.0	500				
4.0	5	0004.0	375				
5.0	5	0005.0	300				