

High performances screw jacks series

- Load capacity ranging from 5 kN to 350 kN
- Linear speed up to 75mm/s (up to 150mm/s on request)
- Input speed up to 3000 r/min
- Operating duty cycle up to 40% over a 10 minute period, or 30% over a 1 hour period, at 25°C environment temperature
- High duty cycle up to 100% for continuous performances with ball screw option

Series MA Technical Specification

SIZE	MA 5	MA 10	MA 25	MA 50	MA 80	MA 100	MA 200	MA 350
Max lifting load kN	5	10	25	50	80	100	200	350
Acme lift screw dia × pitch	Tr 18 × 4	Tr 22 × 5	Tr 30 × 6	Tr 40 × 7	Tr 55 × 9	Tr 60 × 12	Tr 70 × 12	Tr 100 × 16
Ratio	RV RN RL	1 : 4 1 : 16 1 : 24	1 : 5 1 : 20 1 : 25	1 : 6 1 : 18 1 : 24	1 : 7 1 : 14 1 : 28	1 : 7 1 : 14 1 : 28	1 : 8 1 : 24 1 : 32	1 : 8 1 : 24 1 : 32
Stroke [mm] for 1 input turn	RV RN RL	1 0.25 0.166	1 0.25 0.20	1 0.333 0.25	1.28 0.64 0.32	1.5 0.5 0.375	1.5 0.5 0.375	1.5 1 0.5
Max permissible operating power [kW]	RV RN RL	0.40 0.20 0.17	0.60 0.30 0.25	1.2 0.7 0.6	2.4 1.7 1.2	2.5 1.8 1.2	3 2.6 2.3	4.5 4 3.8
Max starting torque required at full load [Nm]	RV RN RL	3.8 1.2 1	7.2 2.6 2.3	19.9 8.3 7.6	44.1 24.8 18	77 47 34	120 62 50	282 133 109
Starting efficiency	RV RN RL	0.21 0.16 0.13	0.22 0.15 0.14	0.20 0.16 0.13	0.18 0.15 0.11	0.18 0.15 0.11	0.20 0.13 0.12	0.17 0.12 0.11
Running efficiency at 1500 r/min	RV RN RL	0.36 0.28 0.25	0.37 0.28 0.27	0.34 0.27 0.25	0.32 0.28 0.23	0.31 0.27 0.22	0.36 0.29 0.26	0.33 0.26 0.24
Reactive torque of screw at max load [Nm]		8	20	65	165	368	525	1180
Housing material		Aluminium alloy EN 1706 - AC-AISI10Mg T6		Spheroidal graphite iron EN 1563 - GJS-500-7				
Weight without screw and protection tube [kg]		2.2	4.3	13	26	26	48	75
Weight for every 100 mm of screw [kg]		0.16	0.23	0.45	0.8	1.6	1.8	2.5
								5.2

Efficiency figures at other speeds on page 12

Series MA

Performance tables

Based upon the linear speed needed and maximum dynamic load applied, pick the effective lifting speed and input torque - power required from the relevant screwjack table below. Intermediate figures for input torque - power can be calculated by direct interpolation.

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n_1 = input speed T_1 = input torque required P_1 = input power required

MA 5			LIFTING LOAD																		
			5kN				4kN				3kN				1kN						
n_1	Lifting speed mm/s		Ratios			Ratios			Ratios			Ratios			Ratios						
	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1			
r/min	RV	RN	RL	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW		
3000	50.0	12.5	8.3	2.0	0.63	0.7	0.20	0.5	0.15	1.6	0.50	0.5	0.16	0.4	0.12	1.2	0.38	0.4	0.12	0.3	0.09
1500	25.0	6.3	4.2	2.2	0.35	0.7	0.11	0.5	0.08	1.8	0.28	0.6	0.09	0.4	0.07	1.3	0.21	0.4	0.07	0.3	0.05
1000	16.7	4.2	2.8	2.3	0.24	0.7	0.08	0.6	0.06	1.9	0.20	0.6	0.06	0.4	0.05	1.4	0.15	0.4	0.05	0.3	0.03
750	12.5	3.1	2.1	2.4	0.19	0.7	0.05	0.6	0.05	1.9	0.15	0.6	0.05	0.5	0.04	1.4	0.11	0.4	0.04	0.3	0.03
500	8.3	2.1	1.4	2.5	0.13	0.8	0.04	0.6	0.03	2.0	0.11	0.6	0.03	0.5	0.03	1.5	0.08	0.5	0.02	0.4	0.02
300	5.0	1.3	0.8	2.6	0.08	0.8	0.03	0.7	0.02	2.1	0.07	0.7	0.02	0.5	0.02	1.6	0.05	0.5	0.02	0.4	0.01
100	1.7	0.4	0.3	2.8	0.03	0.9	0.01	0.8	0.01	2.2	0.02	0.7	0.01	0.6	0.01	1.7	0.02	0.5	0.01	0.5	0.01

MA 10			LIFTING LOAD																		
			10kN				8kN				6kN				2kN						
n_1	Lifting speed mm/s		Ratios			Ratios			Ratios			Ratios			Ratios						
	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1			
r/min	RV	RN	RL	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW		
3000	50.0	12.5	10.0	3.9	1.22	1.3	0.42	1.1	0.36	3.1	0.98	1.1	0.33	0.9	0.29	2.3	0.73	0.8	0.25	0.7	0.21
1500	25.0	6.3	5.0	4.4	0.68	1.4	0.23	1.2	0.19	3.5	0.55	1.1	0.18	0.9	0.15	2.6	0.41	0.9	0.13	0.7	0.11
1000	16.7	4.2	3.3	4.6	0.48	1.5	0.16	1.2	0.13	3.6	0.38	1.2	0.13	1.0	0.10	2.7	0.29	0.9	0.09	0.7	0.08
750	12.5	3.1	2.5	4.7	0.37	1.6	0.12	1.3	0.10	3.8	0.30	1.2	0.10	1.0	0.08	2.8	0.22	0.9	0.07	0.8	0.06
500	8.3	2.1	1.7	5.0	0.26	1.6	0.09	1.4	0.07	4.0	0.21	1.3	0.07	1.1	0.06	3.0	0.16	1.0	0.05	0.8	0.04
300	5.0	1.3	1.0	5.1	0.16	1.8	0.05	1.5	0.05	4.1	0.13	1.4	0.04	1.2	0.04	3.1	0.10	1.1	0.03	0.9	0.03
100	1.7	0.4	0.3	5.5	0.06	2.0	0.02	1.6	0.02	4.4	0.05	1.6	0.02	1.3	0.01	3.3	0.03	1.2	0.01	1.0	0.01

MA 25			LIFTING LOAD																		
			25kN				20kN				15kN				5kN						
n_1	Lifting speed mm/s		Ratios			Ratios			Ratios			Ratios			Ratios						
	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1			
r/min	RV	RN	RL	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW		
3000	50.0	16.7	12.5	10.5	3.29	4.4	1.39	3.6	1.12	8.4	2.63	3.5	1.11	2.8	0.89	6.3	1.97	2.7	0.83	2.1	0.67
1500	25.0	8.3	6.3	11.7	1.83	4.8	0.76	3.9	0.61	9.3	1.47	3.9	0.60	3.1	0.49	7.0	1.10	2.9	0.45	2.3	0.37
1000	16.7	5.6	4.2	12.2	1.28	5.0	0.53	4.1	0.43	9.8	1.03	4.0	0.42	3.3	0.34	7.3	0.77	3.0	0.32	2.5	0.26
750	12.5	4.2	3.1	12.7	1.00	5.2	0.41	4.2	0.33	10.2	0.80	4.2	0.33	3.4	0.27	7.6	0.60	3.1	0.24	2.5	0.20
500	8.3	2.8	2.1	13.5	0.71	5.5	0.29	4.5	0.24	10.8	0.56	4.4	0.23	3.6	0.19	8.1	0.42	3.3	0.17	2.7	0.14
300	5.0	1.7	1.3	14.1	0.44	5.8	0.18	4.8	0.15	11.3	0.35	4.6	0.15	3.9	0.12	8.5	0.27	3.5	0.11	2.9	0.09
100	1.7	0.6	0.4	15.1	0.16	6.5	0.07	5.5	0.06	12.1	0.13	5.2	0.05	4.4	0.05	9.0	0.09	3.9	0.04	3.3	0.03

Max duty cycle for series MA is 40% over a 10 minute period or 30% over a 1 hour period at 25°C ambient

Series MA

Performance tables

Based upon the linear speed needed and maximum dynamic load applied, pick the effective lifting speed and input torque - power required from the relevant screwjack table below. Intermediate figures for input torque - power can be calculated by direct interpolation.

PLEASE, NOTE! The red figures in the tables indicates operational restrictions due to thermal limits. Selection of screw jacks using these figures should only be carried out in consultation with our office.

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n_1 = input speed T_1 = input torque required P_1 = input power required

MA 50			LIFTING LOAD																								
			50kN				35kN				25kN				10kN												
n_1	Lifting speed mm/s		Ratios						Ratios						Ratios												
			RV	RN	RL	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1								
r/min	RV	RN	RL	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW								
3000	50.0	25.0	12.5	21.5	6.76	12.4	3.91	7.7	2.40	15.1	4.73	8.7	2.73	5.4	1.68	10.8	3.38	6.2	1.95	3.8	1.20	4.3	1.35	2.5	0.78	1.5	0.48
1500	25.0	12.5	6.3	25.0	3.92	14.4	2.26	8.5	1.34	17.5	2.74	10.0	1.58	6.0	0.94	12.5	1.96	7.2	1.13	4.3	0.67	5.0	0.78	2.9	0.45	1.7	0.27
1000	16.7	8.3	4.2	26.5	2.78	15.3	1.60	9.1	0.96	18.6	1.94	10.7	1.12	6.4	0.67	13.3	1.39	7.6	0.80	4.6	0.48	5.3	0.56	3.1	0.32	1.8	0.19
750	12.5	6.3	3.1	27.4	2.15	16.0	1.25	9.5	0.74	19.2	1.51	11.1	0.87	6.6	0.52	13.7	1.08	7.9	0.62	4.7	0.37	5.5	0.43	3.2	0.25	1.9	0.15
500	8.3	4.2	2.1	28.8	1.51	16.4	0.86	10.0	0.52	20.2	1.06	11.5	0.60	7.0	0.37	14.4	0.75	8.2	0.43	5.0	0.26	5.8	0.30	3.3	0.17	2.0	0.11
300	5.0	2.5	1.3	30.5	0.96	17.4	0.55	10.8	0.34	21.3	0.67	12.2	0.38	7.6	0.24	15.2	0.48	8.7	0.27	5.4	0.17	6.1	0.19	3.5	0.11	2.1	0.07
100	1.7	0.8	0.4	33.0	0.35	19.3	0.20	12.5	0.13	23.1	0.24	13.5	0.14	8.8	0.09	16.5	0.17	9.7	0.10	6.3	0.07	6.6	0.07	3.9	0.04	2.5	0.03

MA 80			LIFTING LOAD																								
			80kN				60kN				40kN				20kN												
n_1	Lifting speed mm/s		Ratios						Ratios						Ratios												
			RV	RN	RL	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1								
r/min	RV	RN	RL	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW								
3000	64.3	32.1	16.1	42.0	13.2	24.8	7.80	15.1	4.74	31.5	9.90	18.6	5.85	11.3	3.56	21.0	6.60	12.4	3.90	7.00	2.37	10.5	3.30	6.21	1.95	3.77	1.99
1500	32.1	16.1	8.0	50.2	7.88	29.1	4.57	16.3	2.56	37.6	5.91	21.8	3.43	12.2	1.92	25.1	3.94	14.6	2.29	8.15	1.28	12.5	1.97	7.28	1.14	4.07	0.64
1000	21.7	10.7	5.4	53.4	5.59	30.2	3.16	17.0	1.78	40.0	4.19	22.6	2.37	12.7	1.33	26.7	2.80	15.1	1.58	8.49	0.89	13.3	1.40	7.55	0.79	4.24	0.44
750	16.1	8.0	4.0	53.8	4.22	32.6	2.56	17.7	1.39	40.3	3.17	24.4	1.92	13.3	1.04	26.9	2.11	16.3	1.28	8.86	0.70	13.4	1.06	8.15	0.64	4.43	0.35
500	10.7	5.4	2.7	58.2	3.05	34.0	1.78	18.5	0.97	43.7	2.29	25.5	1.33	13.9	0.73	29.1	1.52	17.0	0.89	9.26	0.48	14.6	0.76	8.49	0.44	4.63	0.24
300	6.4	3.2	1.6	63.7	2.00	35.1	1.10	22.3	0.70	47.7	1.50	26.3	0.83	16.8	0.53	31.8	1.00	17.5	0.55	11.2	0.35	15.9	0.50	8.77	0.28	5.58	0.18
100	2.1	1.1	0.5	66.2	0.69	37.6	0.39	24.0	0.25	49.7	0.52	28.2	0.30	18.0	0.19	33.1	0.35	18.8	0.20	12.0	0.13	16.6	0.17	9.40	0.10	5.99	0.06

MA 100			LIFTING LOAD																								
			100kN				80kN				50kN				20kN												
n_1	Linear speed mm/s		Ratios						Ratios						Ratios												
			RV	RN	RL	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1	T_1	P_1								
r/min	RV	RN	RL	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW								
3000	75.0	25.0	18.8	58.2	18.3	24.9	7.81	19.9	6.25	46.6	14.6	19.9	6.25	15.9	5.00	29.1	9.15	12.4	3.91	10.0	3.12	11.6	3.66	5.0	1.56	4.0	1.25
1500	37.5	12.5	9.4	66.5	10.4	28.2	4.43	22.5	3.54	53.2	8.36	22.6	3.55	18.0	2.83	33.2	5.22	14.1	2.22	11.3	1.77	13.3	2.09	5.6	0.89	4.5	0.71
1000	25.0	8.3	6.3	70.8	7.42	30.0	3.14	24.1	2.52	56.7	5.93	24.0	2.52	19.2	2.02	35.4	3.71	15.0	1.57	12.0	1.26	14.2	1.48	6.0	0.63	4.8	0.50
750	18.8	6.3	4.7	73.5	5.77	31.3	2.46	25.3	1.99	58.8	4.61	25.1	1.97	20.2	1.59	36.7	2.88	15.7	1.23	12.6	0.99	14.7	1.15	6.3	0.49	5.0	0.40
500	12.5	4.2	3.1	77.0	4.03	32.9	1.72	26.6	1.39	61.6	3.23	26.3	1.38	21.3	1.12	38.5	2.02	16.4	0.86	13.5	0.70	15.4	0.81	6.6	0.34	5.3	0.28
300	7.5	2.5	1.9	82.3	2.59	35.2	1.11	28.7	0.90	65.9	2.07	28.2	0.88	22.9	0.72	41.2	1.29	17.6	0.55	14.3	0.45	16.5	0.52	7.0	0.22	5.7	0.18
100	2.5	0.8	0.6	89.1	0.93	40.0	0.42	33.0	0.34	71.3	0.75	32.0	0.33	26.4	0.28	44.5	0.47	20.0	0.21	16.5	0.17	17.8	0.19	8.0	0.08	6.6	0.07

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Series MA

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n_1 = input speed T_1 = input torque required P_1 = input power required

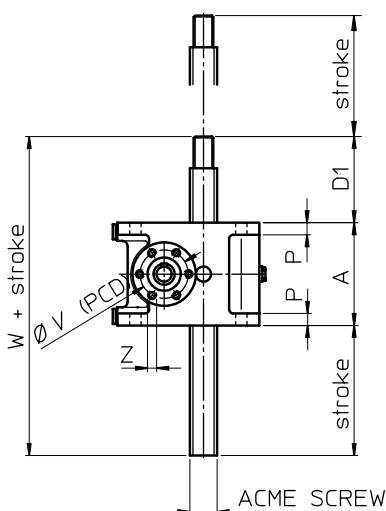
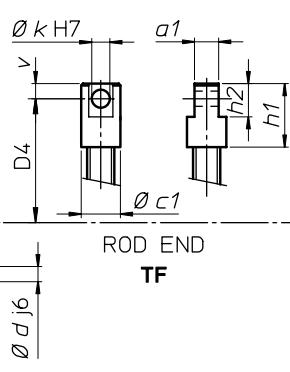
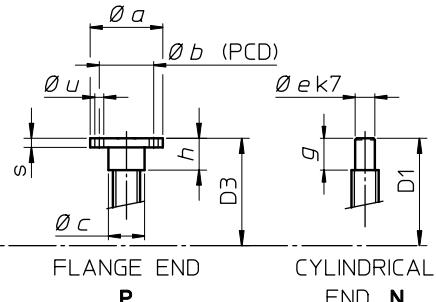
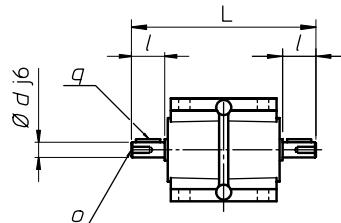
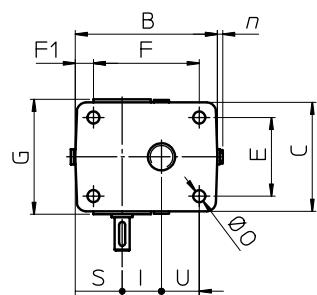
MA 200			LIFTING LOAD												
			200kN			150kN			100kN			50kN			
n_1	Lifting speed mm/s		Ratios			Ratios			Ratios			Ratios			
	RV	RN	RL	T ₁	P ₁	T ₁	P ₁	T ₁	T ₁	P ₁	T ₁	T ₁	P ₁	T ₁	
r/min	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm
3000	75.0	25.0	18.8	126	39.5	51.3	16.1	42.6	13.4	94.2	29.6	38.5	12.1	32.0	10.1
1500	37.5	12.5	9.4	144	22.6	60.5	9.51	48.9	7.68	108	16.9	45.4	7.13	36.7	5.76
1000	25.0	8.3	6.3	153	16.0	65.0	6.80	52.1	5.48	114	12.0	48.7	5.10	39.1	4.09
750	18.8	6.3	4.7	159	12.5	68.6	5.39	54.8	4.30	119	9.37	51.4	4.04	41.1	3.22
500	12.5	4.2	3.1	167	8.77	71.4	3.74	57.7	3.02	125	6.58	53.5	2.80	43.2	2.26
300	7.5	2.5	1.9	178	5.62	76.1	2.39	61.8	1.94	134	4.21	57.1	1.79	46.4	1.46
100	2.5	0.8	0.6	195	2.05	87.3	0.92	72.3	0.76	146	1.54	65.9	0.69	54.3	0.57

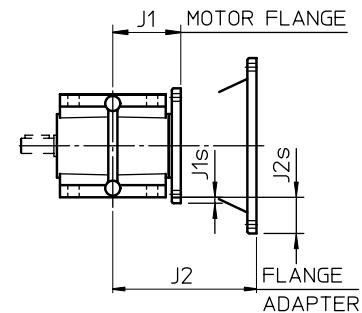
MA 350			LIFTING LOAD												
			350kN			250kN			150kN			100kN			
n_1	Lifting speed mm/s		Ratios			Ratios			Ratios			Ratios			
	RV	RN	RL	T ₁	P ₁	T ₁	P ₁	T ₁	T ₁	P ₁	T ₁	T ₁	P ₁	T ₁	
r/min	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm
3000	75.0	50.0	25.0	214	67.3	164	51.5	96.0	30.2	153	48.1	117	36.8	68.6	21.6
1500	37.5	25.0	12.5	264	41.5	191	30.0	113	17.7	188	29.6	136	21.4	80.9	12.7
1000	25.0	16.7	8.3	281	29.4	201	21.1	120	12.6	201	21.0	144	15.1	86.1	9.02
750	18.8	12.5	6.3	293	23.0	210	16.5	127	9.99	209	16.4	150	11.7	90.8	7.13
500	12.5	8.3	4.2	308	16.1	223	11.7	134	7.04	220	11.5	159	8.37	96.1	5.03
300	7.5	5.0	2.5	331	10.4	242	7.61	144	4.53	236	7.44	173	5.43	103	3.24
100	2.5	1.7	0.8	369	3.87	269	2.82	166	1.75	264	2.76	192	2.01	119	1.25

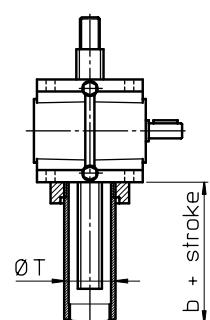
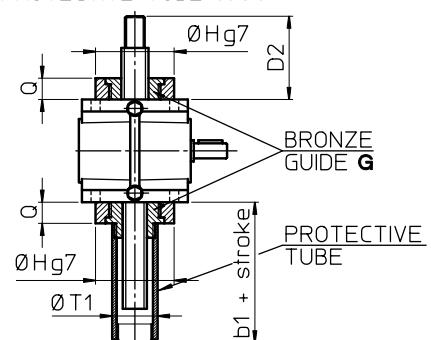
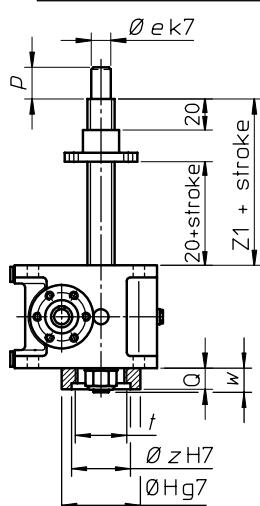
Max duty cycle for series MA is 40% over a 10 minute period or 30% over a 1 hour period at 25°C ambient

Series MA – efficiency figures

n ₁ [r/min]	MA5 Ratios			MA10 Ratios			MA25 Ratios			MA50 Ratios			MA80 Ratios			MA100 Ratios			MA200 Ratios			MA350 Ratio		
	RV	RN	RL	RV	RN	RL	RV	RN	RL	RV	RN	RL	RV	RN	RL	RV	RN	RL	RV	RN	RL	RV	RN	RL
3000	0.40	0.31	0.27	0.41	0.30	0.28	0.38	0.30	0.28	0.37	0.32	0.26	0.39	0.33	0.27	0.41	0.32	0.30	0.38	0.31	0.28	0.39	0.34	0.29
1500	0.36	0.28	0.25	0.37	0.28	0.27	0.34	0.27	0.25	0.32	0.28	0.23	0.34	0.28	0.23	0.36	0.29	0.26	0.33	0.26	0.24	0.32	0.29	0.24
1000	0.34	0.27	0.24	0.35	0.26	0.25	0.32	0.26	0.24	0.30	0.26	0.22	0.31	0.26	0.21	0.34	0.26	0.25	0.31	0.24	0.23	0.29	0.27	0.23
750	0.33	0.26	0.23	0.34	0.25	0.25	0.31	0.25	0.23	0.29	0.25	0.21	0.30	0.25	0.20	0.32	0.25	0.24	0.30	0.23	0.22	0.28	0.26	0.22
500	0.31	0.25	0.21	0.32	0.24	0.23	0.29	0.24	0.22	0.28	0.24	0.20	0.27	0.23	0.19	0.31	0.24	0.22	0.28	0.22	0.21	0.27	0.25	0.21
300	0.30	0.24	0.20	0.31	0.23	0.22	0.28	0.23	0.20	0.26	0.23	0.18	0.25	0.22	0.17	0.29	0.23	0.21	0.27	0.21	0.19	0.25	0.23	0.19
100	0.28	0.22	0.17	0.29	0.20	0.19	0.26	0.20	0.18	0.24	0.21	0.16	0.24	0.20	0.15	0.27	0.20	0.18	0.24	0.18	0.16	0.22	0.21	0.17
50	0.27	0.20	0.16	0.28	0.19	0.18	0.25	0.19	0.17	0.23	0.19	0.15	0.22	0.18	0.15	0.25	0.18	0.16	0.23	0.17	0.15	0.22	0.20	0.15
Starting	0.21	0.16	0.13	0.22	0.15	0.14	0.2	0.16	0.13	0.18	0.15	0.11	0.18	0.15	0.11	0.2	0.13	0.12	0.17	0.12	0.11	0.16	0.14	0.10

Model A - TRAVELLING SCREW

THREADED END NF

Vers.1
Single input shaft

CYLINDRICAL END N

Vers.2
Double input shaft

Vers.3
Motor flange
or
Flange adapter

Vers.4
Motor flange
or
+ 2nd shaft
Flange adapter

PROTECTIVE TUBE T

BRONZE GUIDES
+
PROTECTIVE TUBE G/TG

Model B - TRAVELLING NUT

BRONZE NUT MB

SIZE	MA 5	MA 10	MA 25	MA 50	MA 80	MA 100	MA 200	MA 350
ØT	45	55	70	90	90	110	150	180
exec. T	25	25	25	25	25	35	35	35
exec. T + SN	75	75	105	105	115	105	115	135
exec. T + AR	80	85	95	105	125	115	145	175
exec. T + FCM	82	86	-	-	-	-	-	-
exec. T + FCP	85	86	94	96	96	100	105	110
exec. T+AR+FCP	90	96	114	126	146	140	175	210
ØT1 (see NOTE)	36 (40)	45 (50)	55	55	90	90	90	160
exec. TG	50	51	59	61	61	65	90	125
b1 exec. TG + FCM	100	101	115	-	-	-	-	-
b1 exec. TG + FCP	100	101	109	111	111	115	140	165

NOTE: Values ØT1 under brackets referred to exec. TG + FCP

Series MA
Dimensions

SIZE	MA 5	MA 10	MA 25	MA 50	MA 80	MA 100	MA 200	MA 350
ACME SCREW	Tr 18 × 4	Tr 22 × 5	Tr 30 × 6	Tr 40 × 7	Tr 55 × 9	Tr 60 × 12	Tr 70 × 12	Tr 100 × 16
A	80	100	126	160	160	200	230	280
B	124	140	175	235	235	276	330	415
C	80	105	130	160	160	200	230	300
D1 (closed)	39	44	58	58	68	68	78	98
D2 (closed)	54	60	82	84	94	98	113	138
D3 (closed)	40	45	60	60	70	70	80	100
D4 (closed)	65	75	95	105	120	150	170	220
E	62	80	100	120	120	150	175	230
F	95	110	140	190	190	220	270	330
F1	12.5	14	17.5	23	23	26	30	42
G	100	114	136	165	165	205	256	326
Ø H	65	80	100	120	120	160	190	240
I	30	40	50	63	63	80	100	125
L	149	179	221.5	269	269	330	378	490
Ø O	9	9	13	17	17	21	28	34
P	10	12	15	19	19	22	26	30
Q	15	16	24	26	26	30	35	40
S	46.5	46	57.5	80	80	91	113	121
U	31	38	50	70	70	75	87	126
Ø V (PCD)	42	46	64	63	63	74	110	118
W	119	144	184	218	228	268	308	378
Z (thread × depth)	M5 × 10	M5 × 12	M5 × 10	M6 × 14	M6 × 14	M6 × 14	M10 × 20	M10 × 25
Z1	80	85	90	115	140	140	170	200
Ø a	68	75	100	120	150	150	180	250
a1	20	25	30	40	50	60	75	100
Ø b (PCD)	45	55	75	85	110	110	130	180
Ø c	25	30	40	50	70	70	85	115
Ø c1	32	38	48	68	78	90	108	138
Ø d	10	14	19	24	24	28	32	38
Ø e	12	15	20	30	40	40	50	70
Ø f	30	40	50	60	75	80	100	150
g	19	24	38	38	48	48	58	78
h	20	25	40	40	50	50	60	80
h1	60	75	100	120	140	180	210	280
h2	30	40	50	70	80	100	120	160
i	M12 × 1.75	M16 × 1.5	M20 × 1.5	M30 × 2	M42 × 3	M42 × 3	M56 × 3	M80 × 3
Ø k	14	20	25	35	40	50	60	80
l	22	30	40	50	50	60	60	80
Ø m	68	75	100	120	130	150	180	250
n	-	-	10	10	10	12	10	10
o (thread × depth)	M5 × 10	M6 × 14	M8 × 16	M8 × 16	M8 × 16	M8 × 16	M10 × 24	M12 × 32
p	19	24	40	40	45	50	60	65
q	3 × 3 × 15	5 × 5 × 20	6 × 6 × 30	8 × 7 × 40	8 × 7 × 40	8 × 7 × 40	10 × 8 × 40	10 × 8 × 60
Ø r (PCD)	50	56	75	90	105	120	140	200
s	8	10	12	15	20	20	25	35
t	M45 × 1.5	M55 × 1.5	M70 × 2	M90 × 2	M90 × 2	M110 × 2	M150 × 3	M180 × 3
t1	40	45	50	75	100	100	130	160
t2	28	33	35	50	80	70	95	115
Ø u × n° holes	Ø 7 × 4	Ø 9 × 4	Ø 11 × 4	Ø 17 × 4	Ø 21 × 4	Ø 21 × 4	Ø 26 × 6	Ø 30 × 6
Ø u1 × n° holes	Ø 7 × 4	Ø 9 × 4	Ø 11 × 4	Ø 17 × 4	Ø 21 × 4	Ø 21 × 4	Ø 26 × 6	Ø 30 × 6
v	15	20	25	35	40	50	60	80
w	15	17	25	36	38	41	42	45
Ø z	50	60	77	95	95	120	160	200
J1	62	69	102	100	100	120	142	-
J1s	63 B5: 30 63 B14: 5	63 B5: 20 63 B14: -	63 B5: 7 71 B5: 17	80 B5: 20	80 B5: 20 90 B5: - 90 B5: -	80 B5: - 90 B5: - 100/112 B5: 10	90 B5: -	-
J2	71 B5: 122 71 B14: 131	71 B5: 129 71 B14: 138	80/90 B5: 182 80 B14: 176 90 B14: 182	90 B5/B14: 200 100 B5/B14: 220	90 B5/B14: 200 112 B5/B14: 220	100/112 B5: 240 100/112 B14: 240	132 B5: 297	-
J2s	71 B5: 40 71 B14: 13	71 B5: 30 71 B14: 3	80/90 B5: 37 80 B14: - 90 B14: 7	90 B5: 20 100 B5: 45 90/100 B14: -	90 B5: 20 112 B5: 45 B14: -	112 B5: 25 112 B14: -	132 B5: 35	-