

Technical data

Trapezoidal screws and ball screws

Trapezoidal screws

		MULI 1	MULI 2	MULI 3	MULI 4	MULI 5	JUMBO 1	JUMBO 2	JUMBO 3	JUMBO 4	JUMBO 5
Maximum lifting capacity [kN] ²⁾		5	10	25	50	100	150	200	250	350	500
Screw diameter and pitch [mm]		18 x 4	20 x 4	30 x 6	40 x 7	55 x 9	60 x 9	70 x 10	80 x 10	100 x 10	120 x 14
Stroke in mm per full turn of the worm shaft [mm]	Ratio H ¹⁾	1	1	1	1	1	1	1	1	1	1
	Ratio L ¹⁾	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Gear ratio	Ratio H ¹⁾	4:1	4:1	6:1	7:1	9:1	9:1	10:1	10:1	10:1	14:1
	Ratio L ¹⁾	16:1	16:1	24:1	28:1	36:1	36:1	40:1	40:1	40:1	56:1
Efficiency [%] ³⁾	Ratio H ¹⁾	31	29	29	26	24	23	22	20	19	19
	Ratio L ¹⁾	25	23	23	21	19	18	17	15	15	15
Weight [kg] (zero stroke)		1.2	2.1	6	17	32	41	57	57	85	160
Weight [kg per 100 mm stroke]		0.26	0.42	1.14	1.67	3.04	3.1	4.45	6.13	7.9	11.5
Idling torque [Nm]	H	0.04	0.11	0.15	0.35	0.84	0.88	1.28	1.32	1.62	1.98
	L	0.03	0.10	0.12	0.25	0.51	0.57	0.92	0.97	1.10	1.42

Ball screws

		MULI 1	MULI 2	MULI 3	MULI 4		MULI 5	JUMBO 3
Maximum lifting capacity [kN] ²⁾		5	10	12.5	22	42	65	78
Screw diameter and pitch [mm]		1605	2005	2505	4005	4010	5010	8010
Stroke in mm per full turn of the worm shaft [mm]	Ratio H ¹⁾	1.25	1.25	0.83	0.71	1.43	1.1	1
	Ratio L ¹⁾	0.31	0.31	0.21	0.18	0.36	0.28	0.25
Gear ratio	Ratio H ¹⁾	4:1	4:1	6:1	7:1		9:1	10 : 1
	Ratio L ¹⁾	16:1	16:1	24:1	28:1		36:1	40 : 1
Efficiency [%] ³⁾	Ratio H ¹⁾	57	56	55	53	56	47	45
	Ratio L ¹⁾	46	44	43	43	45	37	34
Weight [kg] (zero stroke)		1.3	2.3	7	19		35	63
Weight [kg per 100 mm stroke]		0.26	0.42	1.14	1.67		3.04	6.13
Idling torque [Nm]	H	0.04	0.11	0.15	0.35		0.84	1.32
	L	0.03	0.10	0.12	0.25		0.51	0.97

1) H = High speed, L = Low speed.

2) Depending on speed of travel, operating hours etc..

3) The specified efficiencies are average values.