

Ground Precision Miniature Ballscrew Drives: Made to your specifications and drawings in single and series production.



MÄDLER delivers miniature ballscrew drives matching your specifications and thus especially suited for your system. The production is carried out with utmost precision and under strict quality control.

Delivered at short notice, as today's market requires.

We will be pleased to inform and advise you.

Miniature Ballscrew Drives (on request)

These ballscrew drives with hardened and ground spindle are made to the customer's specifications. They can be optionally equipped with single nut, long nut with screw-in thread or with flange nut. (all hardened). The drawing below only serves as an example and shows the smallest size of each type. The other drawings can be sent if required. The lengths L_1 , L_2 and L_3 can be altered. Price and delivery times on request.

Necessary specifications for your request:

Size, lead, thread length L_1 (if requires also L_2 and L_3). Version of the nut, version low axial backlash or zero axial backlash, amount.

Technical Data for Miniature Ballscrew Drives

	Ø 6 mm*	Ø 8 mm*	Ø 8 mm*	Ø 10 mm*	Ø 12 mm*	Ø 12 mm**
Lead	1 mm	1 mm	2 mm	2 mm	1 mm	2 mm
Lead Angle	2°56'	2°13'	4°23'	3°32'	1°30'	2°58'
Lead Direction	Right Hand	Right Hand	Right Hand	Right Hand	Right Hand	Right Hand
Ball Diameter	0.8 mm	0.8 mm	1.6 mm	1.6 mm	0.8 mm	1.6 mm
Number of Ball Rotations	1x2	1x3	1x2	1x3	1x3	1x3
Dynamic Load Rating	600 N	700 N	900 N	1500 N	700 N	1700 N
Static Load Rating	900 N	1300 N	1500 N	2900 N	1300 N	3700 N
Axial Play****	0/0.010 max.	0/0.010 max.	0/0.010 max.	0/0.010 max.	0/0.010 max.	0/0.010 max.

	Ø 12 mm**	Ø 12 mm**	Ø 12 mm**	Ø 16 mm**	Ø 16 mm**	Ø 16 mm**
Lead	2.5 mm***	4 mm***	5 mm***	2 mm	2.5 mm***	4 mm***
Lead angle	3°40'	6°4'	7°33'	2°13'	2°51'	4°33'
Lead Direction	Right Hand	Right Hand	Right Hand	Right Hand	Right Hand	Right Hand
Ball Diameter	1.6 mm	2.5 mm	2.5 mm	1.6 mm	1.6 mm	2.5 mm
Number of Ball Rotations	1x3	1x3	1x3	1x3	1x3	1x3
Dynamic Load Rating	1700 N	2400 N	2400 N	2700 N	2700 N	7000 N
Static Load Rating	3700 N	4300 N	4300 N	6450 N	6450 N	8500 N
Axial Play****	0/0.010 max.	0/0.020 max.	0/0.020 max.	0/0.010 max.	0/0.010 max.	0/0.020 max.

* Ball nuts without wiper.

** Ball nuts with wiper made from plastic PA6.

*** For this lead we can only supply single nuts or flange nuts (no screw-in thread available).

**** When ordering please state whether low backlash or zero backlash is required.

Miniature Ballscrew Drives, Standard Versions of Nuts

Materials:

Spindle: Cf53, induction hardened.

Nut: 100Cr6, hardened.

Other models available on request.



with cylindrical single nut



with screw-in thread



with flange nut

Example Drawing showing size Ø 6 with with cylindrical, single nut.

