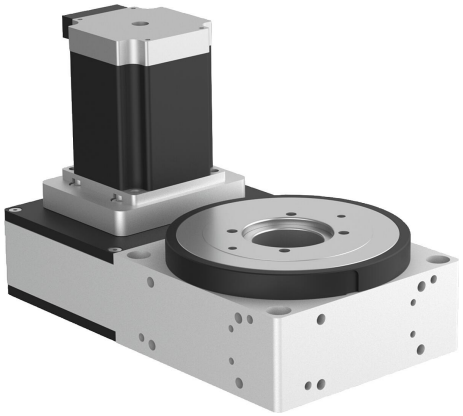
Item description/product images



Description

Material:
Housing made of aluminium.
Rotary disc and hollow shaft made of stainless steel.

Version:
Anodised aluminium.

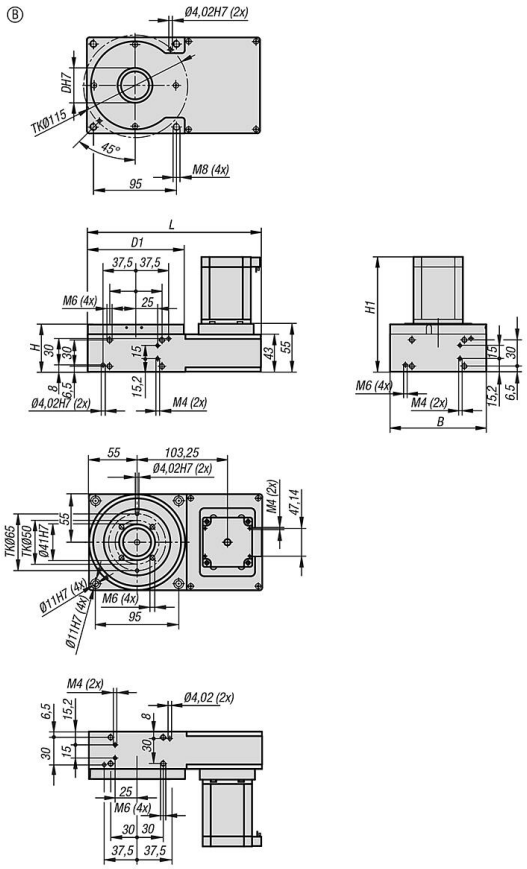
Note:
Rotary positioning stages with toothed belt drive are suitable for precise and fast positioning of workpieces. The rotary disc of the motorised rotary table is driven by a stepper motor and a toothed belt drive. The angular style allows the pivot shaft to be installed in a wide variety of machine designs.
Pneumatic and electrical lines can be routed through the large hollow shaft bore without affecting the function of the rotary table. In addition, the bore is designed with the dimension H7 to serve as a centring device for the turned part. With the adjustable positioning ring the rotational reference point can be set, in relation to the position of the assembled part, as desired.
Mounting is done by cross roller bearings.
Proximity switches can be mounted with the optionally available sensor holder (21085-02-901).
Programming software available as free download.

The stepper motor with its resolution of 200 increments per revolution allows for a calculated positioning accuracy of 0.005 mm when coming from one direction. The absolute positioning accuracy when coming from one direction is 0.01 mm. The system can be operated with a duty cycle of 100 %.

Technical data:
21085-10*:

Gear ratio: 2:1
Backlash: <0.2°
Concentricity of rotary disc: <0.02 mm
max. input speed: 600 U/min
max. duty cycle: 100 %
required input torque: 0.13 Nm
Rigidity: see diagram
Rotation: 360°, infinite
operating temperature: +10 °C bis +60 °C
efficiency ratio η: 0.85

Drawings



Overview of items

Order No.	Form	Form definition	Transmission ratio	L	B	H	H1	D	D1	F1 N	F2 N	F3 N	M1 Nm	M2 Nm
21085-10-1	B	with stepper motor on the top	2:1	198	110	55	131,50	32	110	5000	3000	5000	10	100