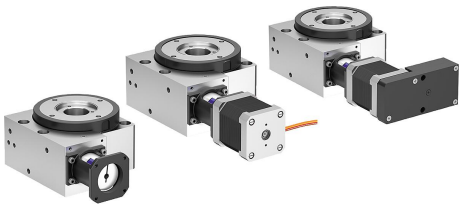
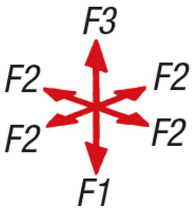
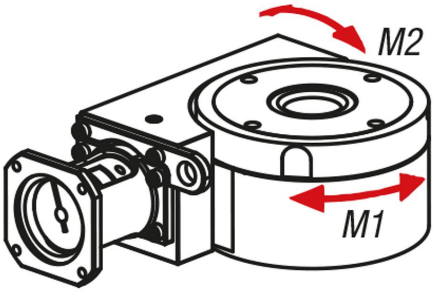
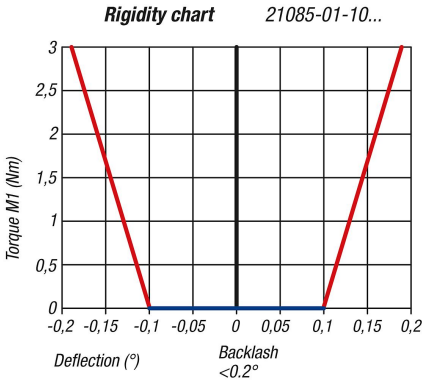
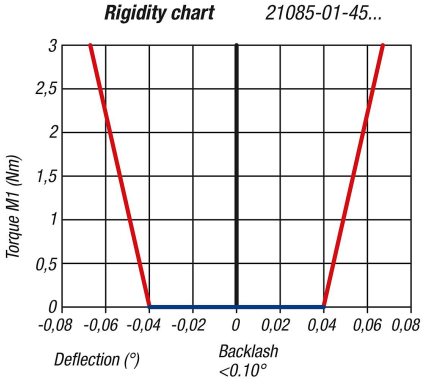
Item description/product images











Description

Material:
Base and rotary table aluminium alloy.
Hollow shaft stainless steel.
Pre-loaded worm gear steel.
Claw coupling aluminium with polyurethane coupling spider.

Version:
Aluminium alloy anodised.

Note for ordering:
The unit is supplied with the position of cable outlet or control unit as shown in the drawing.

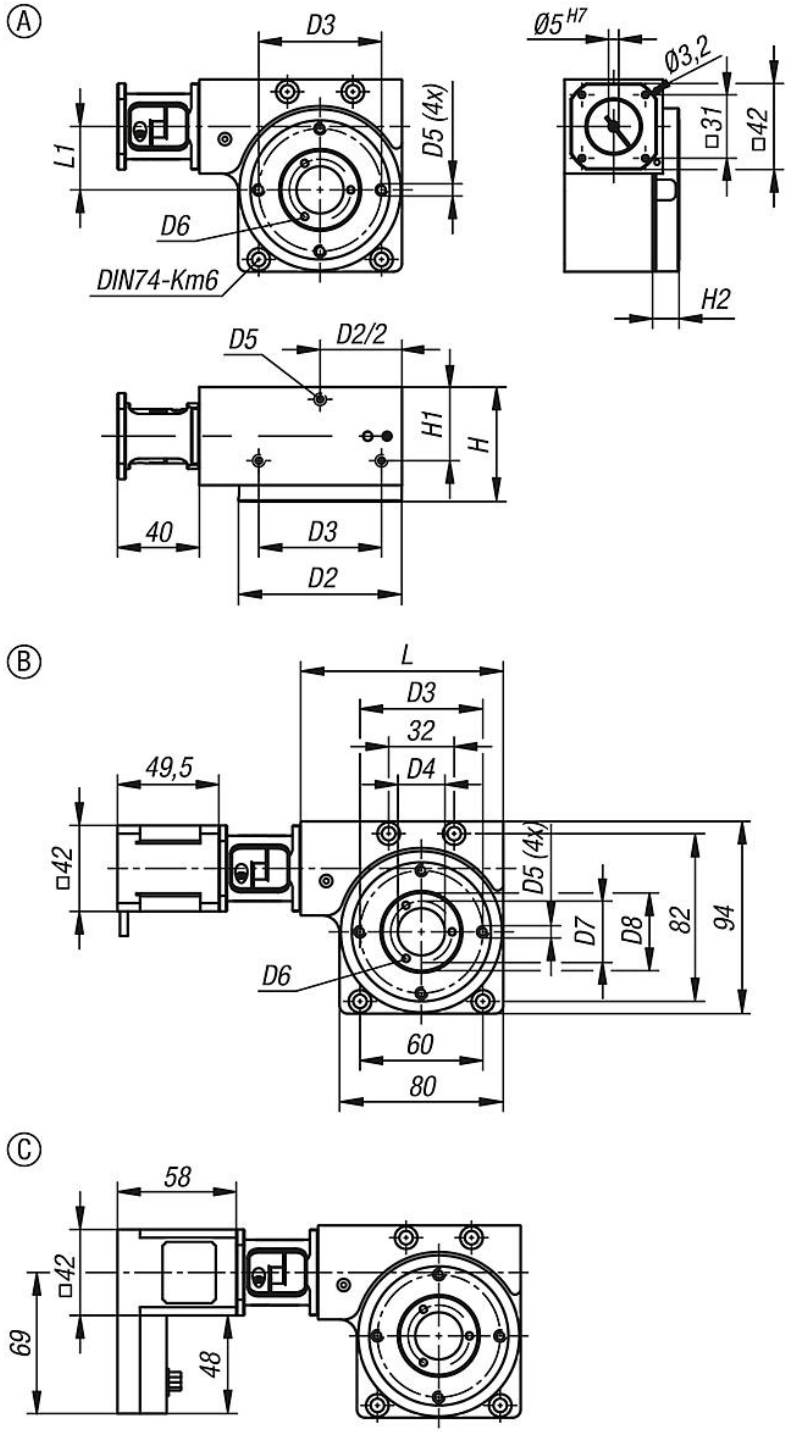
Note:
Rotary positioning stages for motorised adjustment and positioning tasks. The pre-loaded worm gear runs virtually play-free. The bearing of the worm shaft offers maximum radial rotational accuracy. Cables can be routed through the large bore in the hollow shaft. The adjustable positioning ring is used to determine the rotational reference point to the position of the assembled part. Proximity switches can be mounted with the optionally available sensor holder (21094). The suitable programming software and interface cable for the stepper motor with positioning control are available as accessories (25000-15).
The stepper motor with a resolution of 200 increments per rotation allows a single direction calculated positioning accuracy of 0.005 mm. The absolute single direction positioning accuracy is 0.01 mm. The system can be operated with a switch-on time of 100%.

Can be combined with all other parts of the same size.

Technical data:
21085-01-10*:
Transmission ratio: 10:1
Backlash: <0,2°
Radial play: <0.02 mm
Max. input speed: 600 rpm
Max. duty cycle: 100 %
Required input torque: 0.13 Nm
Rigidity: see diagram
Rotation: 360°, infinite
Application temperature: +10 °C to +50 °C

21085-01-45*:
Transmission ratio: 45:1
Backlash: <0,6°
Radial play: <0.02 mm
Max. input speed: 600 rpm
Max. duty cycle: 100 %
Required input torque: 0.13 Nm
Rigidity: see diagram
Rotation: 360°, infinite
Application temperature: +10 °C to +50 °C

Drawings



Overview of items

Order No.	Transmission ratio	Size	Form	Form-Type	Cable outlet alignment	Control alignment
21085-01-10120	10:1	12	A	without motor	-	-
21085-01-101211	10:1	12	B	with stepper motor	right	-
21085-01-101212	10:1	12	B	with stepper motor	beneath	-
21085-01-101213	10:1	12	B	with stepper motor	left	-
21085-01-101214	10:1	12	B	with stepper motor	above	-
21085-01-101221	10:1	12	C	stepper motor with control	-	right
21085-01-101222	10:1	12	C	stepper motor with control	-	beneath
21085-01-101223	10:1	12	C	stepper motor with control	-	left

Overview of items

Order No.	Transmission ratio	Size	Form	Form-Type	Cable outlet alignment	Control alignment
21085-01-101224	10:1	12	C	stepper motor with control	-	above
21085-01-45120	45:1	12	A	without motor	-	-
21085-01-451211	45:1	12	B	with stepper motor	right	-
21085-01-451212	45:1	12	B	with stepper motor	beneath	-
21085-01-451213	45:1	12	B	with stepper motor	left	-
21085-01-451214	45:1	12	B	with stepper motor	above	-
21085-01-451221	45:1	12	C	stepper motor with control	-	right
21085-01-451222	45:1	12	C	stepper motor with control	-	beneath
21085-01-451223	45:1	12	C	stepper motor with control	-	left
21085-01-451224	45:1	12	C	stepper motor with control	-	above

Specifications

Size	D2	D3	D4	D5	D6	D7	D8	H	H1	H2	L	L1
12	79,8	60	23H7	M6	M4	30	38,01H7	56	36	13	99	31

Force tables

Size	F1 N	F2 N	F3 N	M1 Nm	M2 Nm
12	600	600	300	3	3