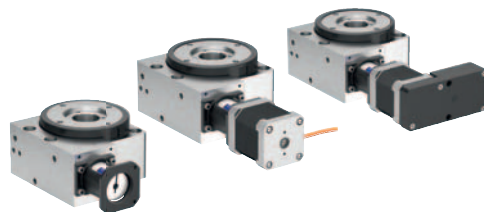


# Rotary stages with coaxial electric drive,

high load



## 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.

## Sample order:

nIm 21085-01-10120

## 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 duty cycle of 100%.

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

## Technical data:

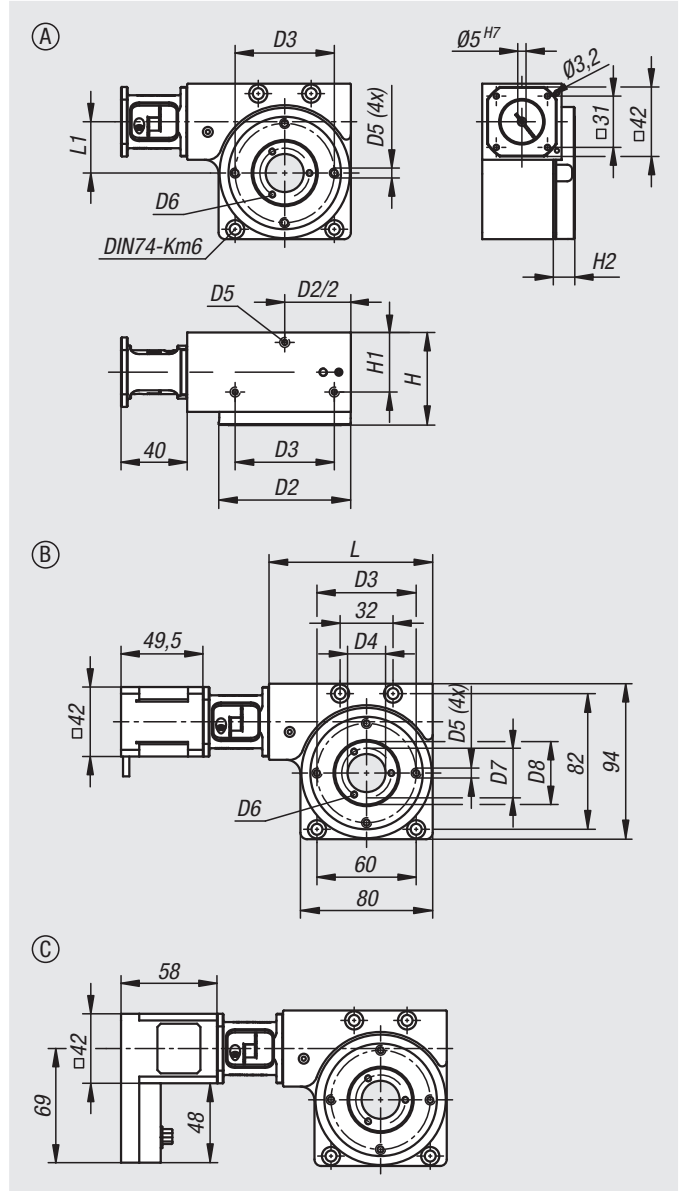
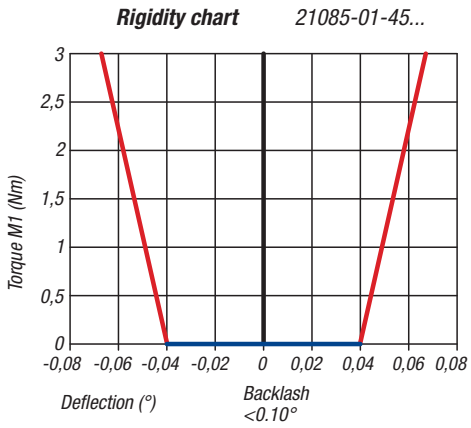
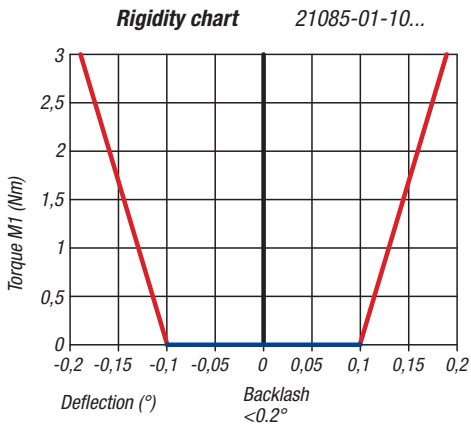
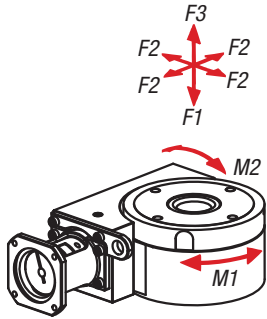
21085-01-10\*:  
Transmission ratio: 10:1  
Backlash: <math><0.2^\circ</math>  
Radial play: <math><0.02\text{ mm}</math>  
Max. input speed: 600 rpm  
Max. duty cycle: 100 %  
Required input torque: 0.13 Nm  
Rigidity: see diagram  
Rotation: 360°, infinite  
Application temperature: +10 °C to +50 °C

21085-01-45\*:  
Transmission ratio: 45:1  
Backlash: <math><0.6^\circ</math>  
Radial play: <math><0.02\text{ mm}</math>  
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

Order No. Transmission ratio 10:1	Order No. Transmission ratio 45:1	Size	Form	Form-Type	Cable outlet alignment	Control alignment
21085-01-10120	21085-01-45120	12	A	without motor	-	-
21085-01-101211	21085-01-451211	12	B	with stepper motor	right	-
21085-01-101212	21085-01-451212	12	B	with stepper motor	beneath	-
21085-01-101213	21085-01-451213	12	B	with stepper motor	left	-
21085-01-101214	21085-01-451214	12	B	with stepper motor	above	-
21085-01-101221	21085-01-451221	12	C	stepper motor with control	-	right
21085-01-101222	21085-01-451222	12	C	stepper motor with control	-	beneath
21085-01-101223	21085-01-451223	12	C	stepper motor with control	-	left
21085-01-101224	21085-01-451224	12	C	stepper motor with control	-	above

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## 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

20000 21000 22000 23000 24000 26000 27000 28000 29000 31000 32000 33000