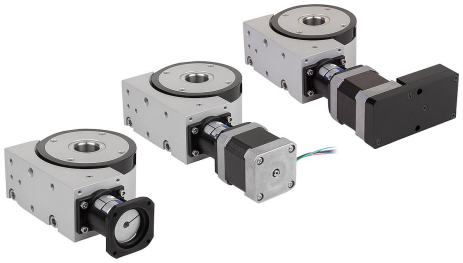
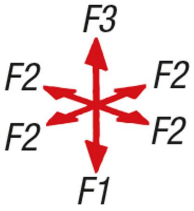
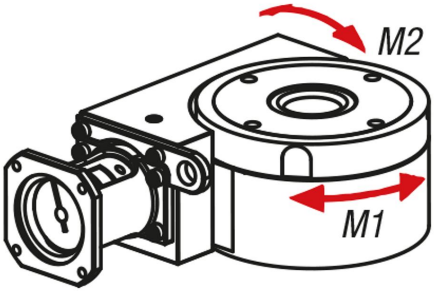
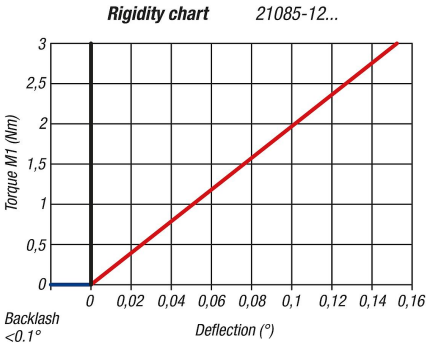
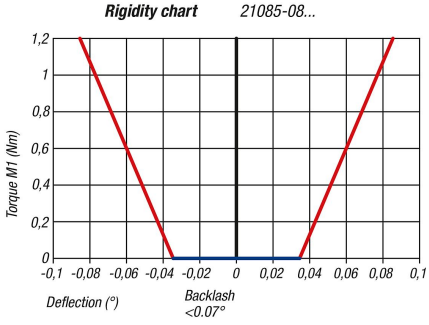
Item description/product images











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.

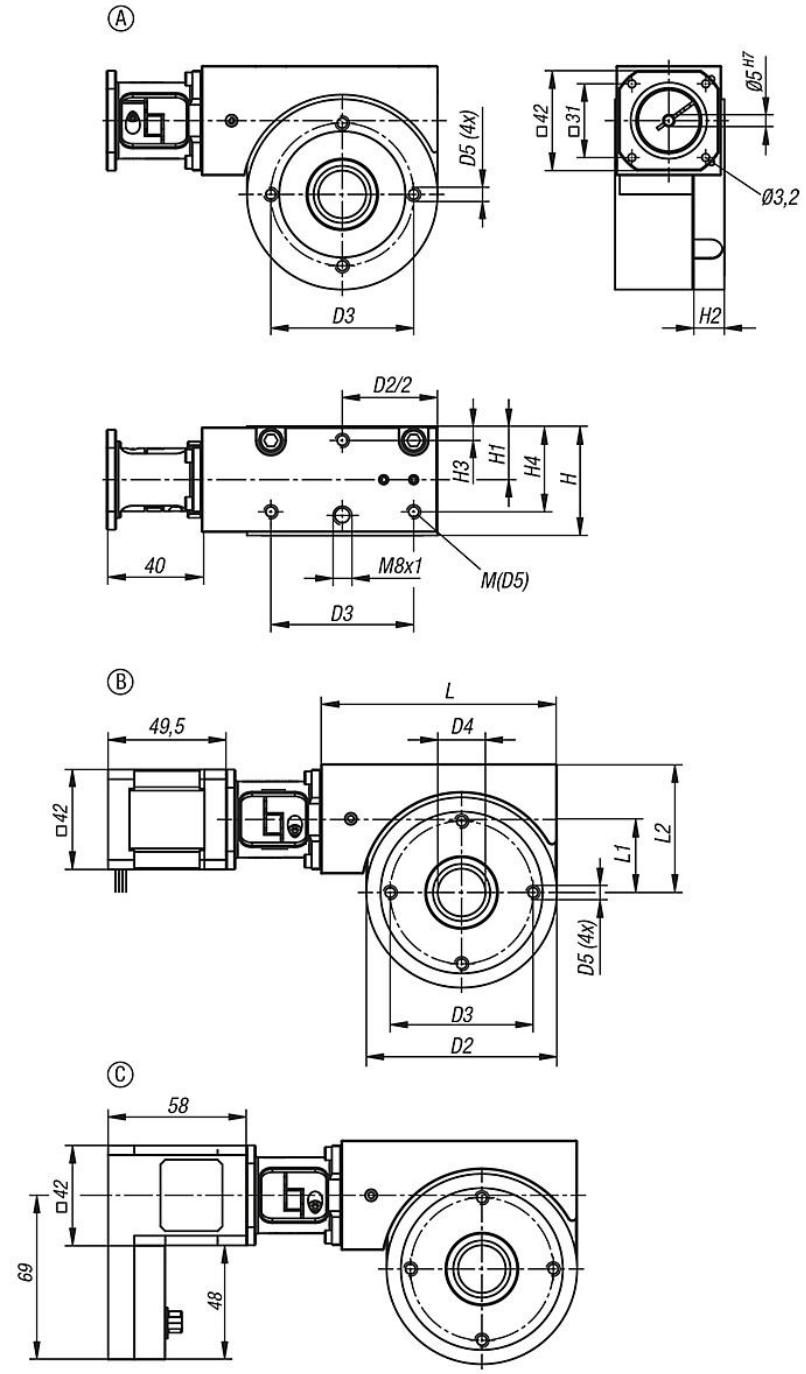
Note:
Rotary positioning stages for motorised adjustment and positioning tasks. The pre-loaded worm gear runs virtually play-free. The bearing of the worm shaft offers maximum radial rotational accuracy. Cables can be routed through the large bore in the hollow shaft. The adjustable positioning ring 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.

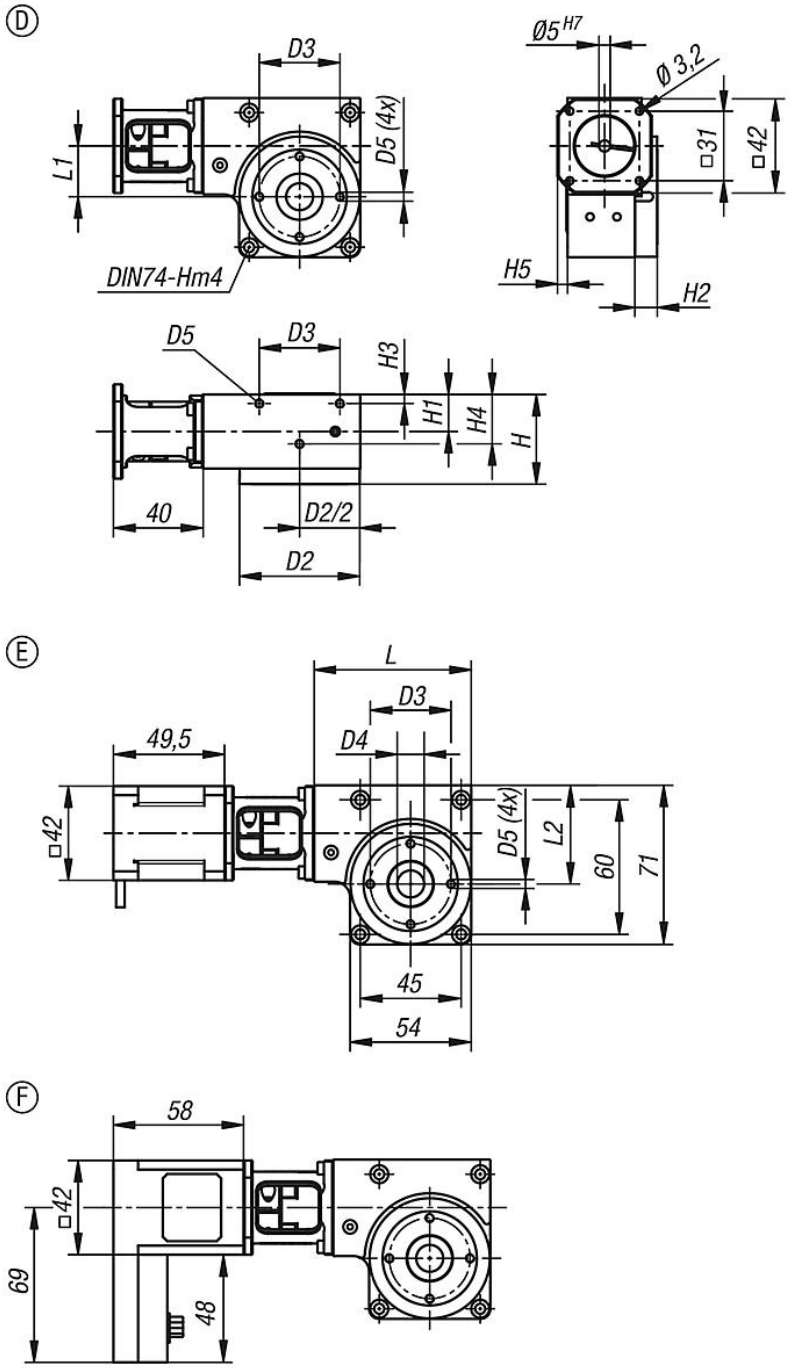
Technical data:
21085-08*:
Transmission ratio: 40:1
Backlash: <0,12°
Radial play: <0.02 mm
Max. input speed: 600 rpm
Max. duty cycle: 100 %
Required input torque: 0.15 Nm
Rigidity: see diagram
Rotation: 360°, infinite
Application temperature: +10 °C to +50 °C

21085-12*:
Transmission ratio: 55:1
Backlash: <0,1°
Radial play: <0.02 mm
Max. input speed: 600 rpm
Max. duty cycle: 100 %
Required input torque: 0.15 Nm
Rigidity: see diagram
Rotation: 360°, infinite
Application temperature: +10 °C to +50 °C

Drawings


A
D5 (4x)
D3
□42
□31
Ø5 H7
Ø3,2
H2
D2/2
H3
H1
H4
H
40
M8x1
M(D5)
D3
B
L
49,5
D4
□42
L1
L2
D5 (4x)
D3
D2
C
58
□42
69
48

Drawings



Overview of items

Order No.	Size	Form	Form-Type	Cable outlet alignment	Control alignment
21085-080	8	D	without motor	-	-
21085-0811	8	E	with stepper motor	right	-
21085-0812	8	E	with stepper motor	beneath	-
21085-0813	8	E	with stepper motor	left	-
21085-0814	8	E	with stepper motor	above	-
21085-0821	8	F	stepper motor with control	-	right
21085-0822	8	F	stepper motor with control	-	beneath
21085-0823	8	F	stepper motor with control	-	left
21085-0824	8	F	stepper motor with control	-	above
21085-120	12	A	without motor	-	-

Overview of items

Order No.	Size	Form	Form-Type	Cable outlet alignment	Control alignment
21085-1211	12	B	with stepper motor	right	-
21085-1212	12	B	with stepper motor	beneath	-
21085-1213	12	B	with stepper motor	left	-
21085-1214	12	B	with stepper motor	above	-
21085-1221	12	C	stepper motor with control	-	right
21085-1222	12	C	stepper motor with control	-	beneath
21085-1223	12	C	stepper motor with control	-	left
21085-1224	12	C	stepper motor with control	-	above

Specifications

Size	D2	D3	D4	D5	H	H1	H2	H3	H4	H5	L	L1	L2
8	53,6	36	12H7	M4	40	10	10	4	22	4,5	70	18	44
12	80	60	20	M6	46	22,5	13	6	36	-	99	31	54

Force tables

Size	F1 N	F2 N	F3 N	M1 Nm	M2 Nm
8	200	200	80	1,2	1,8
12	500	500	200	3	3