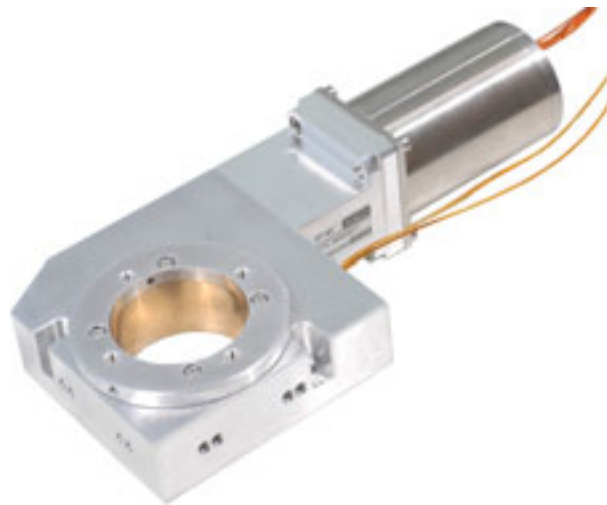


FACTS

Load characteristics	$F_x(N)$	$F_z(N)$	$M_x(Nm)$	$M_z(Nm)$	$kax(\mu rad/Nm)$
FV	10	20	5	0.1	150
10-6	10	20	5	0.1	150
HV	10	20	5	0.1	150
UHVG	10	20	5	0.1	150



The DT-80 Vacuum rotation stages are a low cost alternative to the PI miCos DT-65 N Vacuum and PRS-110 Vacuum high precision rotation stages. They are mainly developed for simple positioning in the laboratory. The large aperture of 40 mm diameter is suitable for many applications in the microscopy area. The worm screw and worm gear combination is preloaded to produce a near "zero-backlash" and smooth motion. Rotation stages of the DT-80 Vacuum series is driven by a special 2-phase stepper vacuum motor and are equipped with a reference switch.



KEY FEATURES

- Vacuum up to 10⁻⁹ hPa
- Uni-directional repeatability down to 0.01 °
- Maximum speed 10 °/sec
- Load capacity up to 2 kg
- Integrated mechanical reference switch
- Clear aperture 40 mm

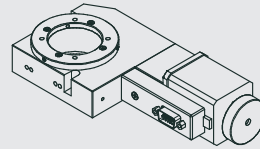
TECHNICAL DATA

Travel range (°)	360			
Flatness (Bearings) (μm)	± 30			
Eccentricity (Bearings) (μm)	± 30			
Wobble (Bearings) (μrad)	± 100			
Weight (kg)	0.8			

Vacuum type	FV	10-6	HV	UHVG
Speed max. (°/sec)	10	3.7	3.7	1.6
Resolution calculated (°)	0.01 (FS)	0.01 (FS)	0.01 (FS)	0.01 (FS)
Resolution typical (°)	0.004	0.004	0.004	0.004
Bi-directional Repeatability (°)	± 0.2	± 0.2	± 0.2	± 0.2
Uni-directional Repeatability (°)	0.01	0.01	0.01	0.01
Nominal Current (A)	1.2	1.2	1.2	1.2

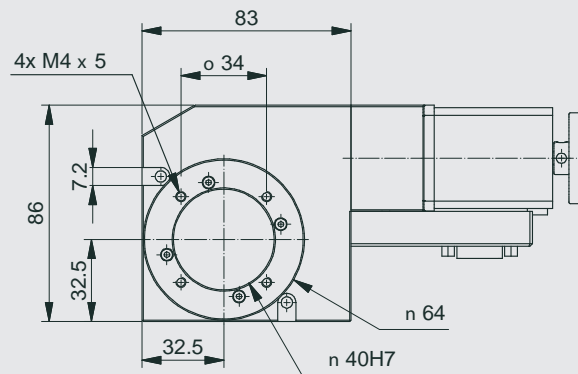
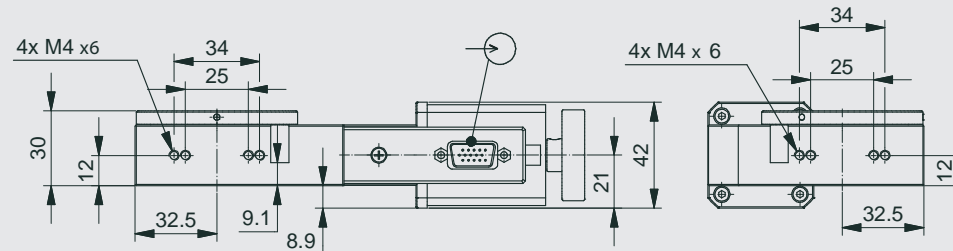
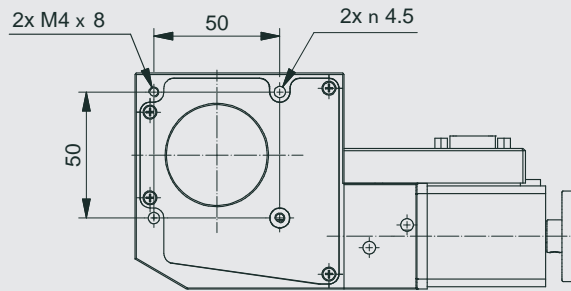
Accuracy	on request
Velocity range (mm/sec)	0.001 ... 10
Material	Aluminum, stainless steel, red brass

Vacuum Note: FS = full step, RE = rotary encoder
 More info: Detailed information concerning motors and encoders, see appendix.



PK245

drawings for the corresponding vacuum class must be requested separately.
The installed motor types are:
PK245 for FV
VSS 42.200.1.2-E for HV & UHVG



- APPLICATIONS
- CONTROLLERS
- ROBOTICS
- LINEAR STAGES
- ROTATION STAGES**
- PIEZO STAGES
- ACCESSORIES
- APPENDIX

- PRS-200
- PRS-110
- DT-65N
- RS-40
- DT-80**
- WT-120
- WT-90
- WT-100
- WT-85

Order No.	6443-V-	1	0	0	0
FV		1			
HV			2		
UHVG				3	