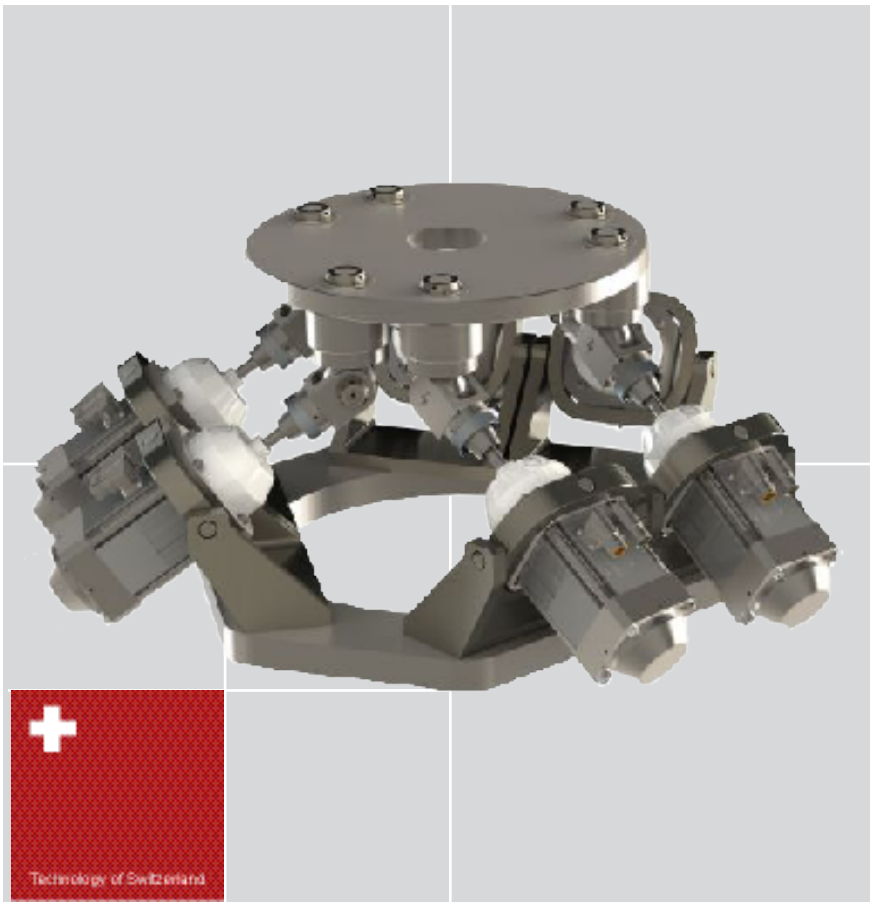


Hexamove 6dof Positioning-System

PE400

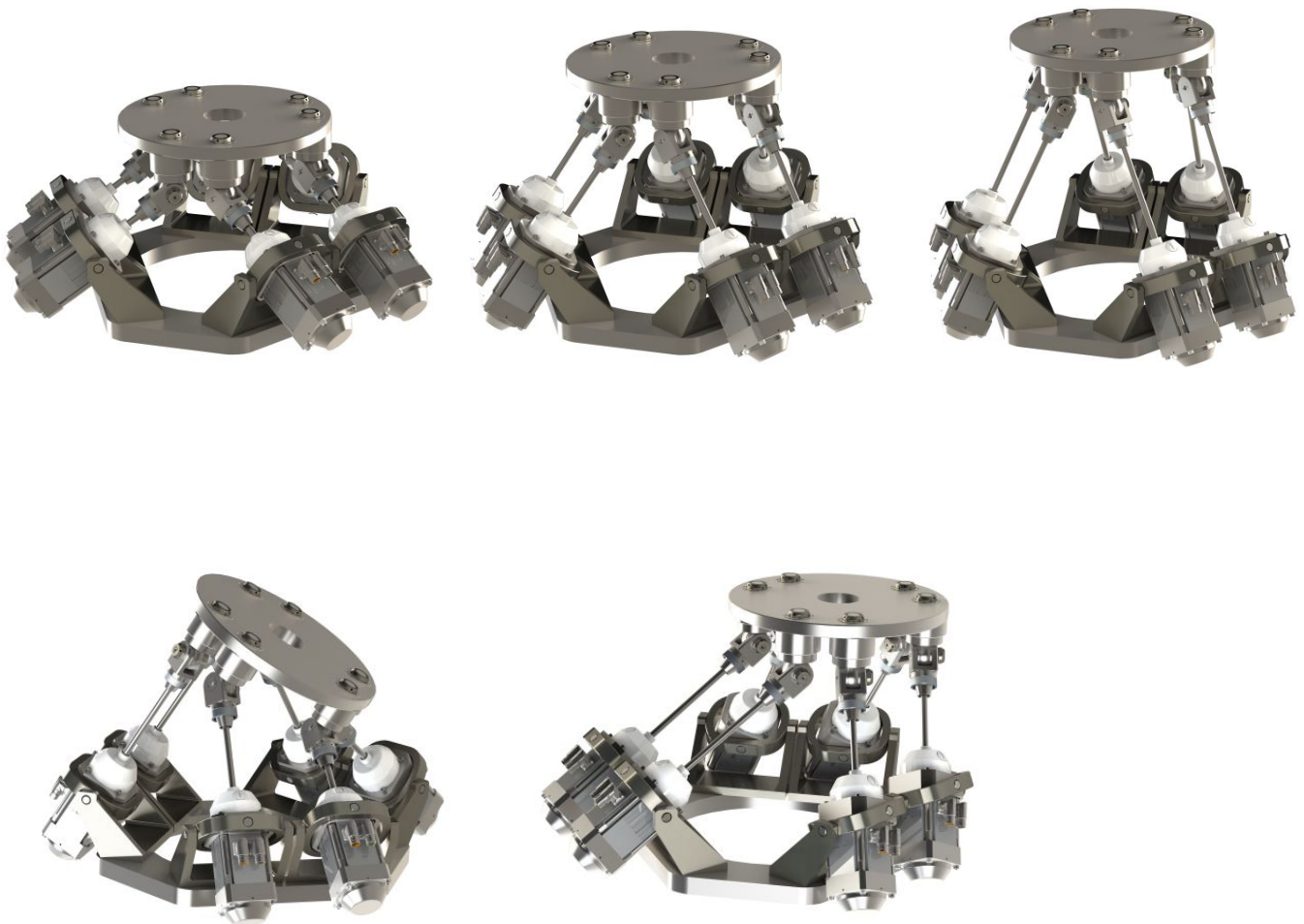


- 6dof Hexapod-System
- Compact design
- Large workspace
- High accuracy
- Payload up to 400 kg
- Electric drive technology

Hexamove PE400

The Hexamove system PE400 is designed as compact as possible while still offering a large workspace and high payloads. When retracted the distance between the bearing planes is less than 130 mm. In spite of the very compact design the vertical workspace reaches almost 200 mm and the platform can be inclined with ± 30 degrees. With up to 400 kg payload the system is perfect as robotic propulsion system for positioning-applications when only very little space is available.

These exceptional parameters are possible due to a special bearing design and very compact hollow shaft motors. The motors are in this case overbalancing the bearings and will slew in space. The actuators reach a very good repeatability. In linear translation direction any position can be refound with less than 5 microns deviation. The angular repeatability reaches around ± 0.005 degrees.





Technical Specification

Workspace

Translation TX:	± 190 mm
Translation TY:	± 200 mm
Translation TZ (vertical):	256 mm
Rotation RX:	± 30 degree
Rotation RY:	± 30 degree
Rotation RZ:	± 30 degree

Accuracy

Repeatability Translation:	± 0.005 mm
Repeatability Rotation:	± 0.005 degree

Payload

up to 400 kg

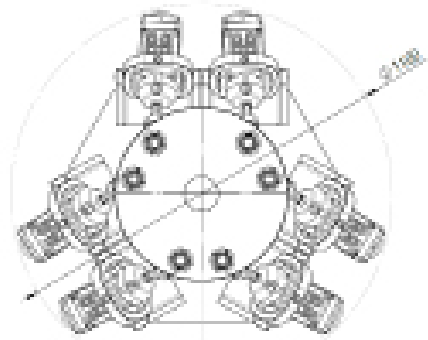
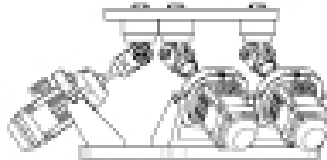
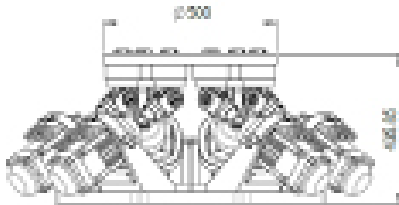
General Data

Type of drive:	Precision hollow shaft motor
Stroke:	200 mm
Encoder:	absolute signal (no reference run necessary)
Spindle pitch:	2 or 4 mm
Installation position:	arbitrary (check forces when sideward installation)
Joints:	Roller bearings (low friction)

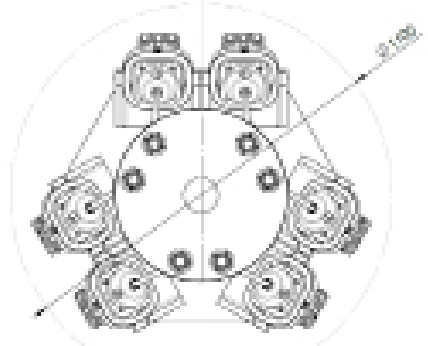
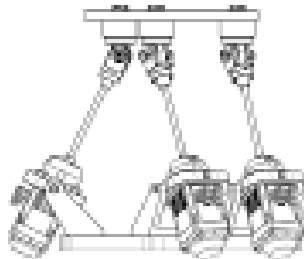
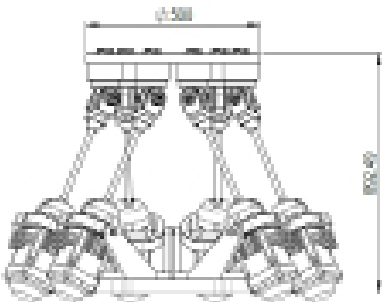
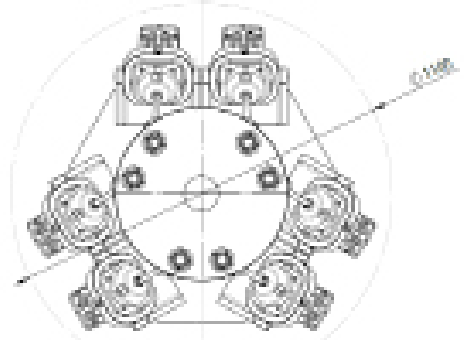
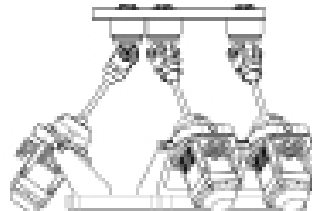
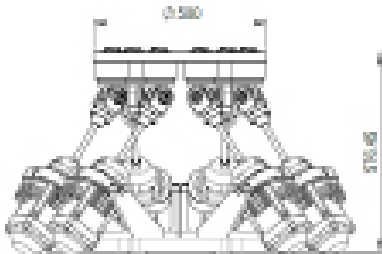


Dimensions

retracted



middle position



extended



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