

# MICOS

MOTION CONTROL & OPTICS **USA**

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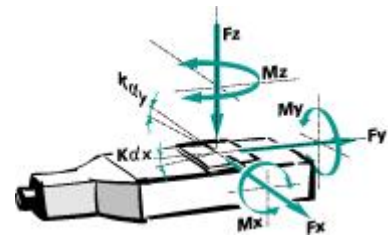
Linear Stage APT-65

Manual Positioners



### Key features

- Travel range 25 mm
- Load capacity 30 kg
- Dove tail slide
- Module combination



### FACTS

Load Characteristics	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
LD-010	140	150	300	30	30	30

### DESCRIPTION

The Linear Stage **APT-65** is a low cost model of a translation element with a travel range of 25 mm. Equipped with fine thread screw that runs upon two thrusts bearings to eliminate backlash. The positioning stage can be moved very sensitively. The dove tail slide is easily adjusted, or as required, clamped with help of double-end studs.

To eliminate the reverse backlash of the fine thread screw, there are two strong pressure strings integrated inside the Positioning Stage APT-65. XY and XYZ-manipulators are quickly and easily mounted due to alignment dowels in actuator and case.

Technical data

<b>Travel Range (mm)</b>	<b>25</b>
Accuracy per 25 mm ( $\mu\text{m}$ )	+/- 10
Straightness / Flatness ( $\mu\text{m}$ )	+/- 5
Pitch (mrad)	1
Yaw (mrad)	1
Leadscrew Pitch (mm)	0.25

**Sensitivity ( $\mu\text{m}$ )**

Lead screw	+/- 2.5
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**Material**

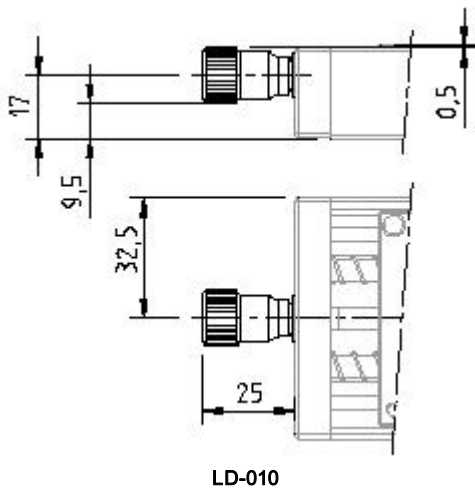
Special Alu, black anodized

**Weight (kg)**

0.7

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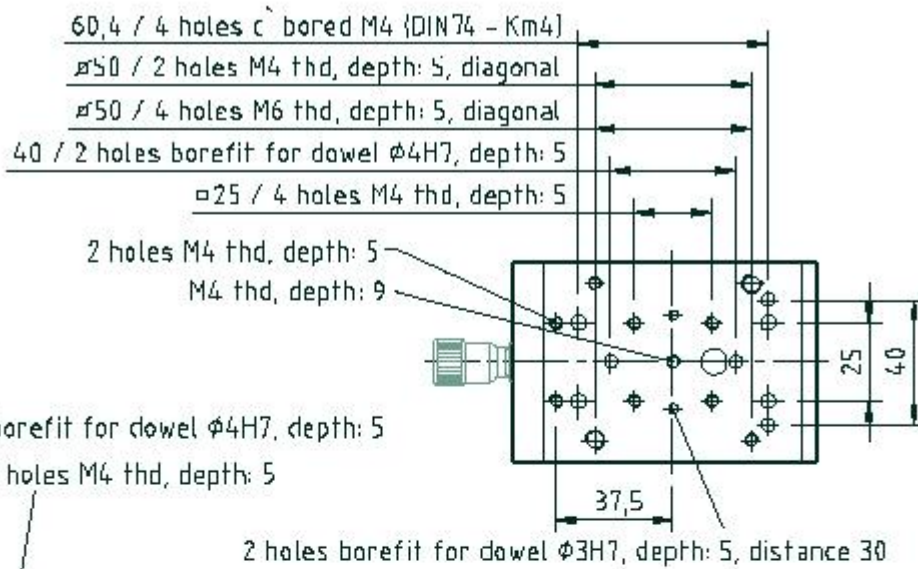
APT-65 Knobs



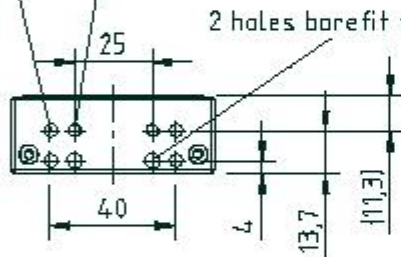
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APT-65 Base

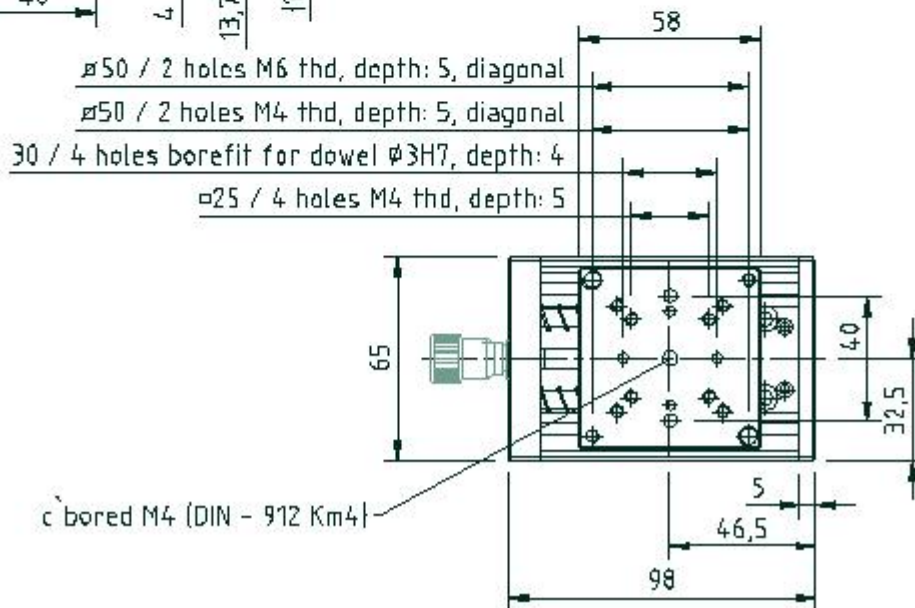
Travel range  
25 mm



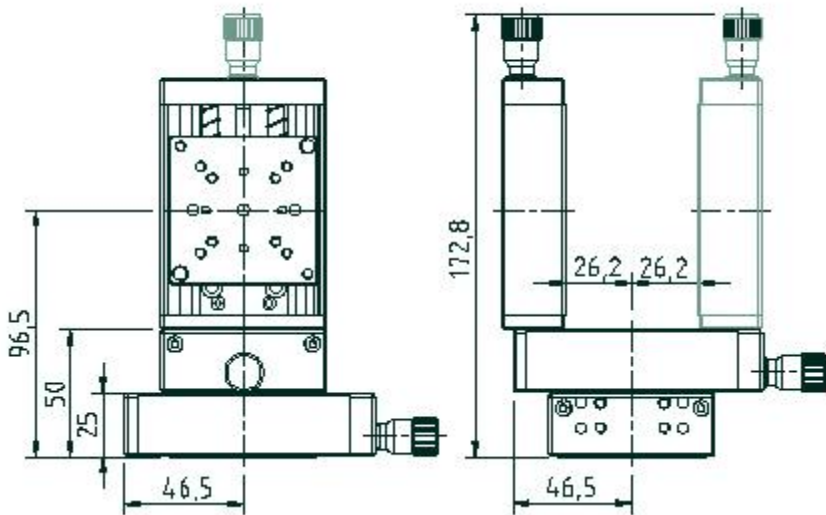
4 holes borefit for dowel  $\varnothing 4H7$ , depth: 5  
 2 holes M4 thd, depth: 5



2 holes borefit for dowel  $\varnothing 4.5H7$ , depth: 5

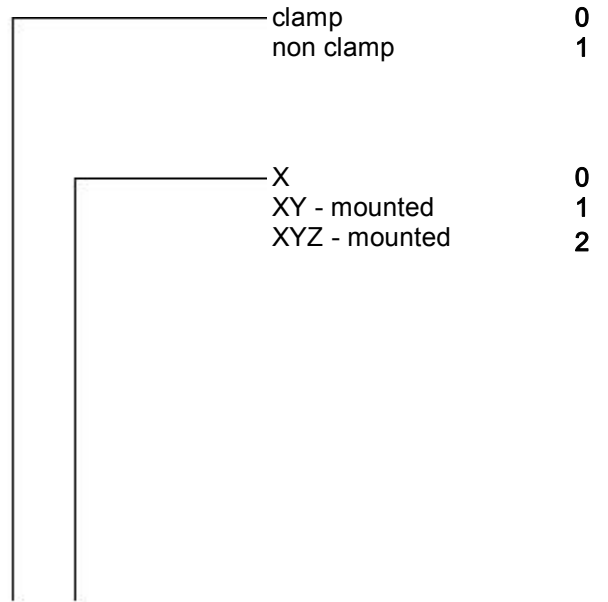


x-y-z mounting



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APT-65 Ordering information



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Founded in 1990, MICOS specializes in the development, manufacturing and marketing of ultra-high precision positioning components and systems for research and industry. We are experts in vacuum, ultra-high vacuum, clean room, and extreme climate environments down to 77 Kelvin. ▶▶