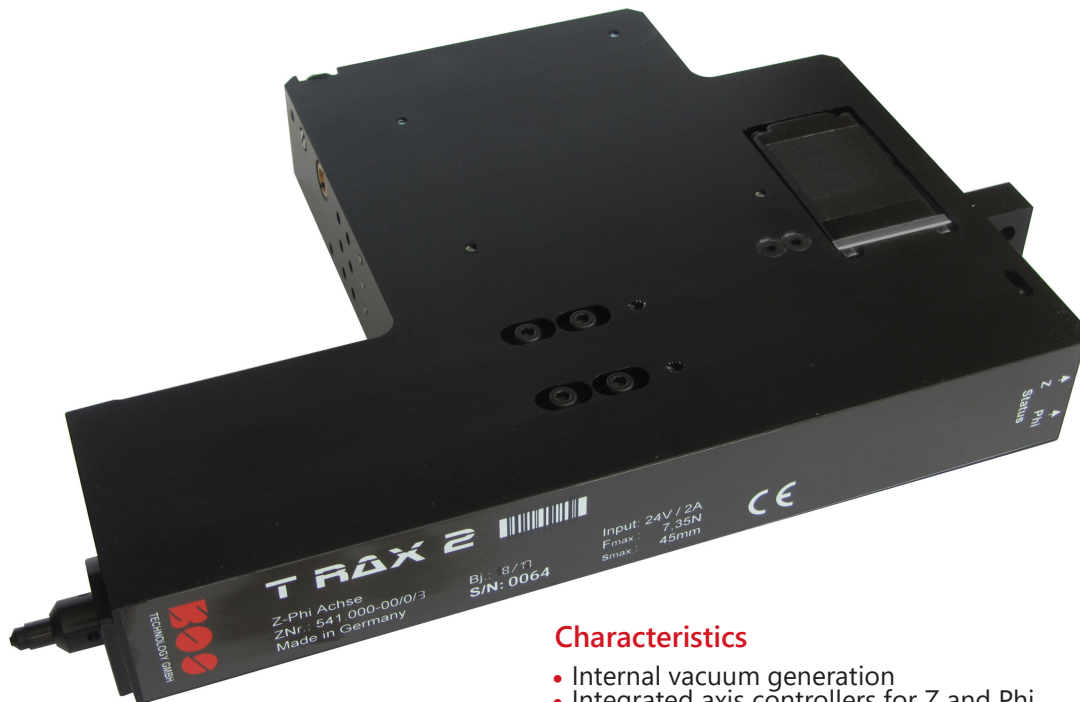


# T-RAX 2

## Z-PHI AXIS

### Linear Rotary Axis

- Precision Z = 0.01 mm
- Precision Phi ( $\varphi$ ) = 0.045°
- Endless rotation
- 30 million strokes min (verified)
- Max force 7.35 N at 45 mm stroke
- Positioning time Z: 50 ms at 45 mm stroke
- Positioning time Phi ( $\varphi$ ): 48 ms (90°)



### Characteristics

- Internal vacuum generation
- Integrated axis controllers for Z and Phi
- Integrated analogue vacuum sensor incl. analysis/interpretation in the integrated controller
- CAN interface (optional external CAN-to-Ethernet converter available)
- Detection, if Z axis is up: additional integrated sensor independent from controller

### Key Features

- Pick, Rotate, Place, Press with adjustable force, Softtouch
- Processing of electric components with different sizes
- Handling various material types
- Simultaneous Z and Phi movement possible – even depending on position; integrated communication capability between both integrated axis controllers
- Customized configuration of parameters for velocity, position, force, torque, and holding torque



Z-PHI – LINEAR ROTARY AXIS

Flexible adjustment to individual customer requirements

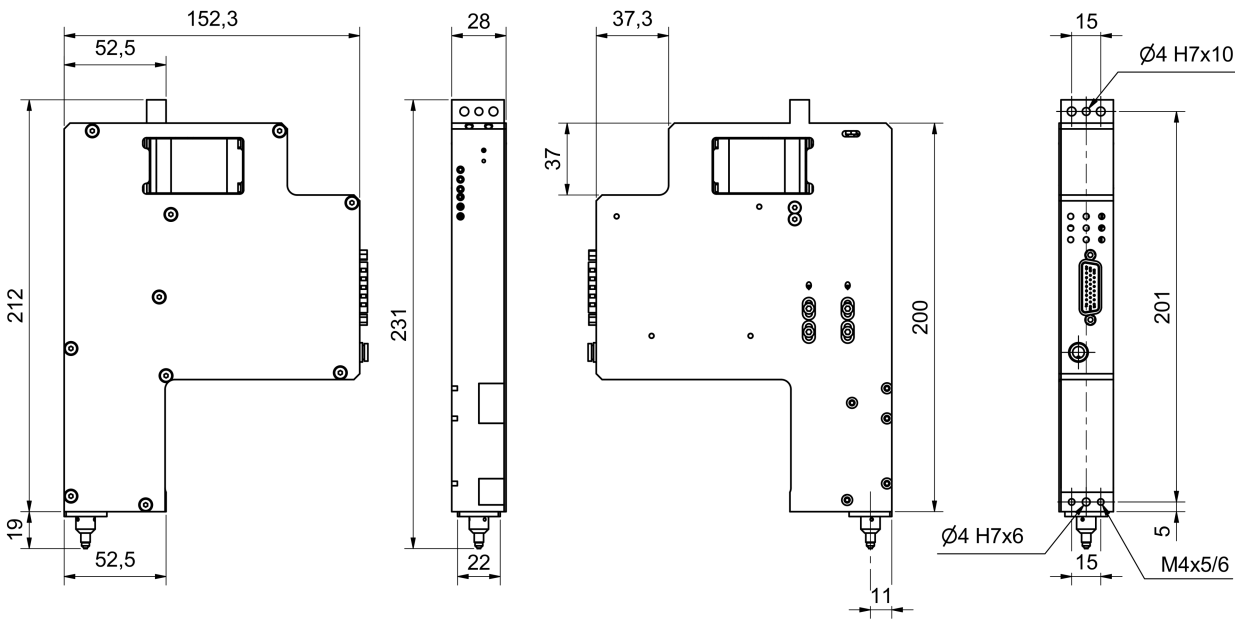
- Integration of additional customized processes
- Adjustment of process sequences
- Easy configuration via appropriate software interface

Customized configuration of processes

- Homing
- Teaching
- Pick-up component
- Place component
- Measure component (press into testing socket)
- Position Z-Phi Axis incl. rotate component (position correction after external image recognition)

Technical Data

Dimensions W/H/D [ca. mm]	233 x 28 x 157
Weight	0.86 kg
DC	24 V / < 1 A
Compressed air	6 bar Ø 6 mm (filtered 5 µm)
Max. vacuum	70 %
(Linear) Stroke	45 mm
Force at max. stroke (linear)	7.35 N
Holding torque (Phi axis)	0.018 Nm



Also available – T RAX mini

- Z-Phi axis with smaller extent
- External axis controllers for Z and Phi

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