

Robots



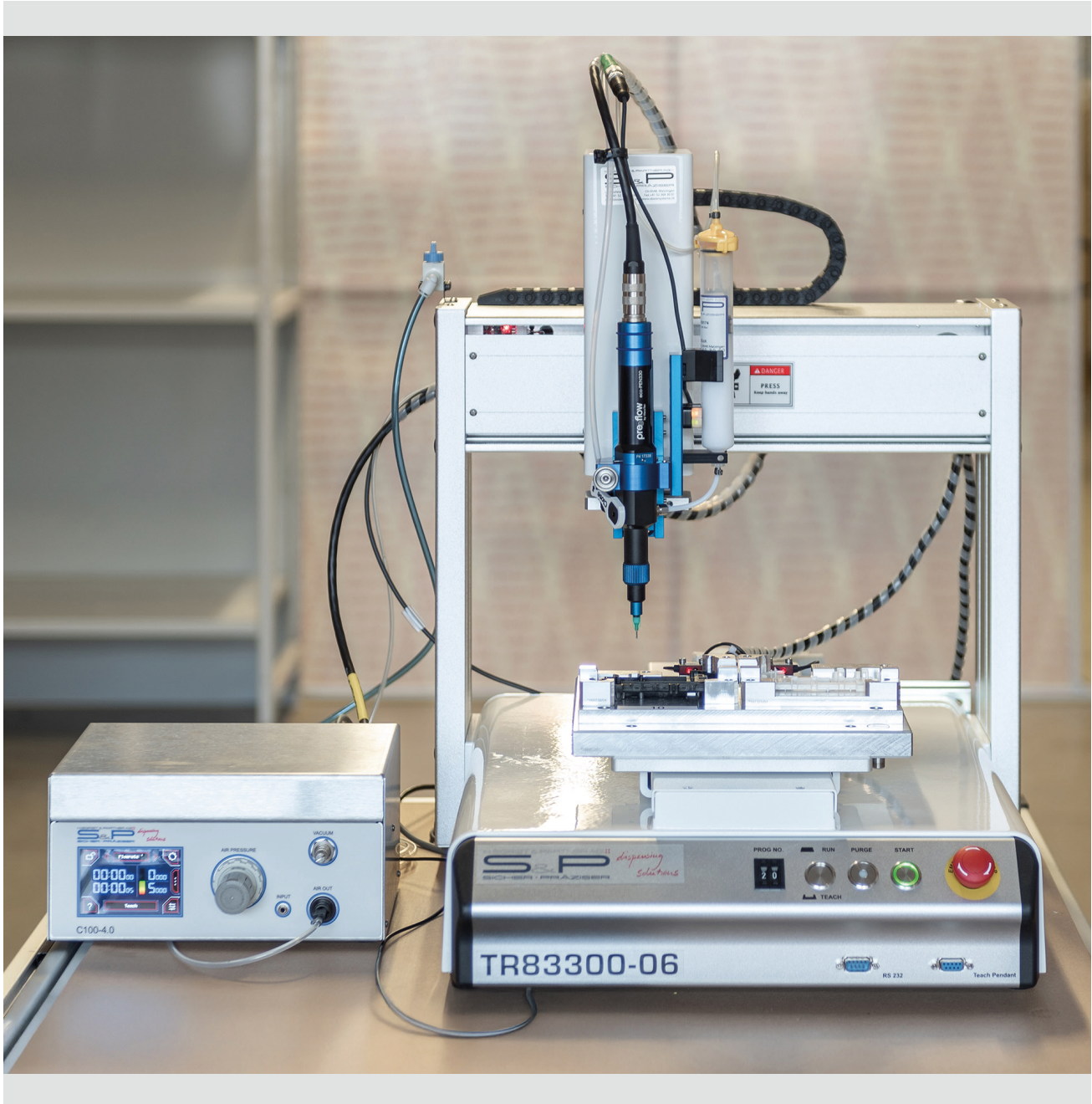
Robots

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Benchtop robot

Configuration for machinery integration



The system shown in the picture does not have a protective housing, which means that the prescribed safety requirements are not met.

Protective enclosures can be found on page 9.

TR83X00-06 XYZ

Description



The TR83X00-06 desktop robot models are equipped with a dispensing system tailored to your requirements and the medium to be processed. They offer a working range from $200 \times 200 \times 50$ mm up to $500 \times 500 \times 100$ mm. Suitable holders are available for the integration of the dispensing components. The internal memory allows storage of 100 dispensing programs, each with up to 4000 program points. Programming is easy, requires no special knowledge, and is carried out via the included teach pad or the optionally available software.

Scope of delivery

Article number	quantity	description
_DL100048	1	Piece test IEC EN 61010
BG3000845	1	Teachpad for TR robots
BG100043	1	Power cable 3 x 1 mm with plug type 12
EB3251011	1	Shorted connector TR Robot
BG3000846	1	Cable for dispensing unit for TR robot

If you have questions about the table-top robots' equipment, such as the external control box, needle alignment and other application-specific accessories, we would be happy to advise you.

TR83X00-06 XYZ

Technical specifications



Designation	TR83200-06	TR83300-06
Working range X / Y / Z (mm):	200 / 200 / 50	300 / 300 / 100
Load capacity Y-axis / Z-axis:	3 kg / 2 kg	6 kg / 3 kg
Speed X/Y/Z (mm/sec):	300 / 200	600 / 320
Repeat accuracy:	+/- 0.01 mm per axis	+/- 0.01 mm per axis
Resolution:	0.001 mm per axis	0.001 mm per axis
Storage capacity:	4000 points/program 100 programs,	4000 points/program 100 programs,
Display:	Teachpad-LCD	Teachpad-LCD
Drive system/stepper motor:	Micro-stepping motor	Micro-stepping motor
Control:	*PTP & CP	*PTP & CP
Interpolation, linear/circular:	3 axes (3D)	3 axes (3D)
Teaching method:	Teachpad	Teachpad
Input/output signals (I/O):	8 input / 8 output	8 input / 8 output
External interface:	RS232, EtherNet/IP	RS232, EtherNet/IP
Power supply:	AC 95–132V, 200W AC 180–250V, 200W	AC 95–132V, 300W AC 180–250V, 300W
Operating temperature:	0–40°C	0–40°C
Relative humidity, without condensation:	20–90% without condensation	20–90% without condensation
Dimensions (WxDxH):	350 × 330 × 490 mm	485 × 500 × 600 mm
Weight:	18 kg	32 kg



TR83400-06	TR83500-06	Special editions
400 / 400 / 100	500 / 500 / 100	Benchtop robots optionally come with extended side rails for handling taller workpieces.
6 kg / 3 kg	10 kg / 5 kg	
600 / 320	0.1- 600 / 300	
+/- 0.01 mm per axis	+/- 0.01 mm per axis	
0.001 mm per axis	0.001 mm per axis	
4000 points/program	4000 points/program	
100 programs,	100 programs,	
Teachpad-LCD	Teachpad-LCD	
Micro-stepping motor	Micro-stepping motor	
*PTP & CP	*PTP & CP	
3 axes (3D)	3 axes (3D)	
Teachpad	Teachpad	
8 input / 8 output	8 input / 8 output	
RS232, EtherNet/IP	RS232, EtherNet/IP	
AC 95–132V, 300W	AC 110–220V, 300W	
AC 180–250V, 300W		
0–40°C	0–40°C	
20–90% without condensation	20–90% without condensation	
585 × 600 × 600 mm	685 × 700 × 600 mm	
40 kg	45 kg	

* PTP (Point-to-Point) und CP (Continuous Movement)

Technical changes reserved.

TR83X00-06 XYZ

Assembly systems

XYZ mounting kit for TR83X00-06

Article number

BG100139



XYZ mounting kit for TR83X00-06

Article number

BG100142

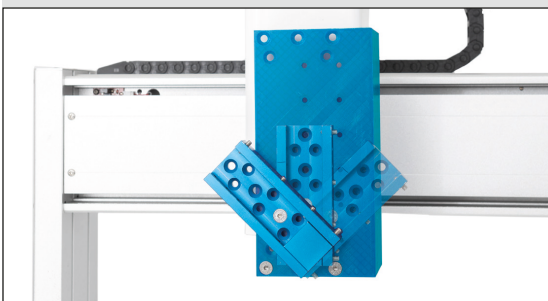


Mounting kit for TR83X00-06

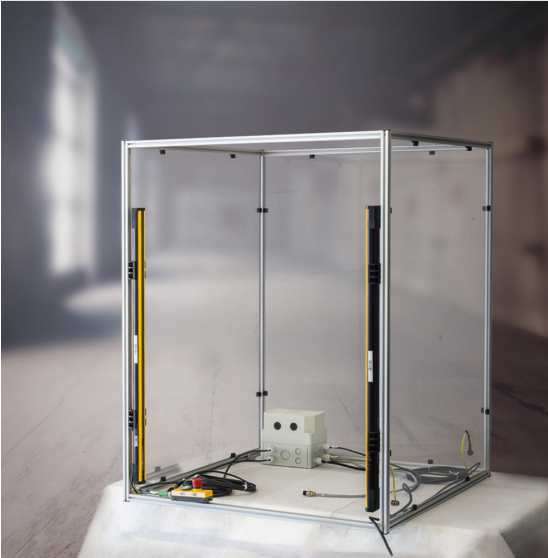
Article number

BG100144

without XYZ support



Protective enclosures for workstations



Desktop workstation

- Performance level: PL c (ISO 13849-1)
- External dimensions: 800 × 800 × 1000
- With electrostatically dissipative discs
- Top without cover
- Incl. external control box: start, emergency stop
- Incl. equipped terminal box
- The housing must be screwed to the surface!



Machine cell

The machine cell can be equipped with various modules as required, such as robots, processing stations or measuring systems. This makes it easy to adapt to changing production requirements.

Optionally available accessories

Article number	description
BG3200002	Cable socket foot switch round 3 poles
BG3200024	Cable socket I/O robot round 7 poles
BG8200002	Mechanical Z-adjustment
BG8200004	TipFinder - Needle calibration for TR83X00-06
BG8000000	TR Robot Editor for TR83X00-06
EB9005066	D-Sub cable assembled (25-pin, 3 m)
ME8000003	Mounting kit EDG50, TR83X00-06



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