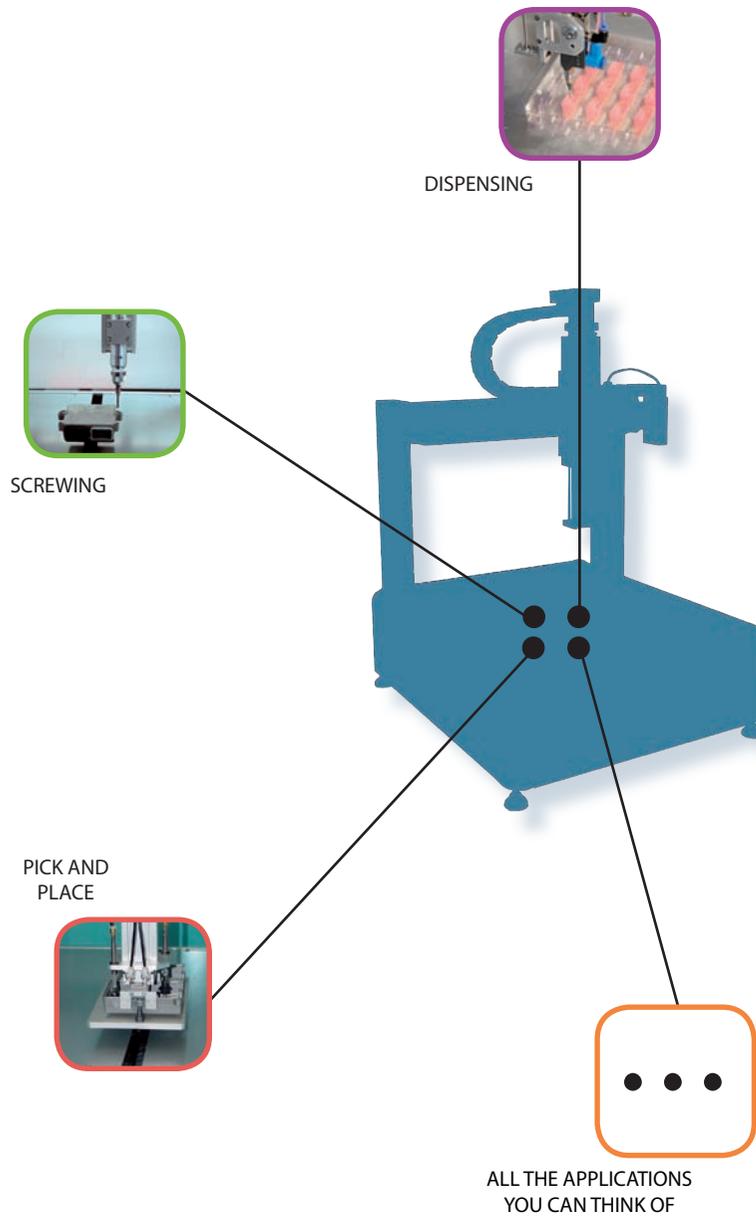
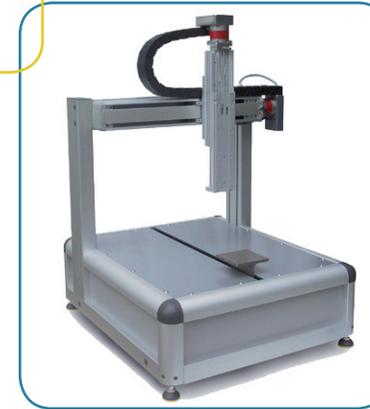


Applications



WR Family

- Ball screw 3-axis system
- Working area 300 x 300 x 150 mm (WR300)
500 x 500 x 150 mm (WR500)
- Max weight allowed 5 kg
- Resolution 6µm
- CE safety barrier (in the mechanical and optical versions)
- PC programming software included
- Programming PDA included



The WR300N, whose features include extreme flexibility, absolute precision and operation repeatability, is the ultimate expression of technology applied in the most diverse production contexts. The WR 300 model operates based on a three-axis Cartesian system. The system consists of screw axes with high rigidity ball screw linear guides. The load-bearing structure entirely consists of aluminium profiles. The system is governed by encoder-driven bipolar stepper motors. The machine is supplied with a PDA to control the main operating functions in the stand-alone mode. The fourth optional axis (Wrist) can rotate 360°. Working phases can be programmed using powerful, PC-compatible proprietary software supplied with the machine. Thanks to the intuitive graphic interface, extremely complex operations can be carried out quickly and efficiently. Programs developed with this procedure will be stored in memory and loaded into the robot, where they can be retrieved by the operator using the PDA. The WR300N - configuration shown in the figure - can be equipped with tools that can be controlled via software and used for dispensing, coating, screwing, milling and drilling, welding, pick and place. The base version models support 4in / 1 0 out, but the 1 6in/1 6out version is available upon request.

BASE MODEL	VERSION	ADDITIONAL FEATURES
WR300	WR300N	base model (illustrated in the figure)
	WR300	with mechanical safety barrier
	WR300OPT	with optical safety barrier
	WR300P	with wrist and mechanical safety barrier
	WR300PN	with wrist
	WR300P-OPT	with wrist and optical safety barrier
WR500	WR500N	base model
	WR500	with mechanical safety barrier
	WR500NH15	portal height increased compared to the WR500N model
	WR500OPT	with optical safety barrier
	WR500P	with wrist and mechanical safety barrier
	WR500PN	with wrist
	WR500P-OPT	with wrist and optical safety barrier

TL5050

- Ball screw 3-axis system
- Work area 300 x 300 x 150 mm
- Max weight allowed 5 kg
- Resolution 6µm
- CE optical safety barrier
- PC programming software included
- Programming PDA included
- 16in/16out integrated card



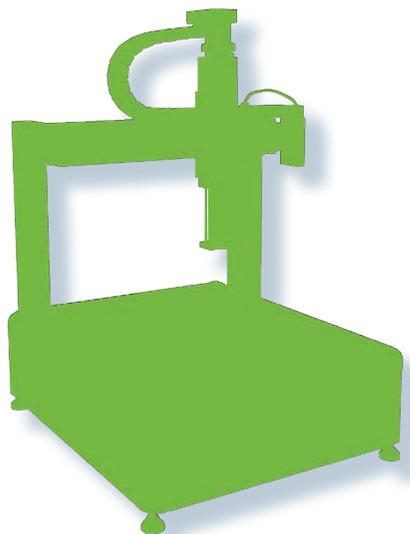
The TL5050P is a three-axis Cartesian robot for the most diverse production applications. Its operation can be flexibly programmed by the end user. The system consists of screw axes with high rigidity ball screw linear guides. The load-bearing structure entirely consists of aluminium profiles. The system is governed by encoder-driven bipolar stepper motors. The fourth optional axis (Wrist) can rotate 360°. The axis arrangement in the "portal" configuration allows the robot to be used in automatic lines, in addition to the stand-alone modality. Thanks to the powerful proprietary PC-compatible software supplied, the TL5050 stores up to 255 different work cycles (programs). Each program consists of a sequence of movements along the 4 axes, which may depend upon the status of the inputs, and an activation/deactivation sequence of the 16 outputs. The robot can be completely programmed using a PC fitted with dedicated software. To make programming easier, specific working masks have been developed to create points, lines, areas, arcs and circles in addition to conditional and relative lines. .DXF format files can be imported. Some of the main parameters of the robot programs can be modified and monitored via a programming PDA provided. The TL5050 can be used for dispensing, coating, screwing, milling and drilling, welding, pick and place. The system is supplied with class 2 optical safety barrier.

BASE MODEL	VERSION	ADDITIONAL FEATURES
TL5050	TL5050	base model (illustrated in the figure)
	TL5050P	with wrist

The Philosophy

The Philosophy

The main interpretation of our work philosophy is found in its flexibility, which is made possible by the ease with which the same handling platform, properly fitted, can be transformed from a highly precise dosing system into an efficient screwing system with torque control.



The programming software, provided together with the AEB desktop robots, represents an important evolution compared to similar systems available on the market.

Thanks to the programming software included, the work profiles can be created on a PC starting directly from the CAD .dxf format drawings and optimised using the graphic editor supplied with the machine. Additional working adjustments can be made on board the machine using the PDA supplied.

The programs generated this way can then be saved directly on the robot and called up by the operator, up to 255 at the most, without additional technical interventions being necessary.

In the case it is necessary to use more than 255 works, it is sufficient to transfer the new profiles from the PC on which there are no limitations at all. All data on the robot will be automatically and safely filed on the PC for subsequent necessities.

The work profiles contain not only information about positioning and speed, but also include the status of the inputs and outputs to which the tools are connected.

This is why it is possible, for example, to control all the dispensing parameters of the profile point by point using the software that controls the positioning.

In this way the production processes can achieve maximum repeatability with extreme simplicity.



AEB Robotics has always believed that automation is the key to competitiveness and subsequent entrepreneurial and industrial development.

AEB Robotics' goal is to supply machines for robotized assembly that are characterised by flexibility, an excellent quality to price ratio and most of all, a simple, user-friendly interface. These characteristics allow even small businesses to take advantage of automation while raising the level of skills of operators, who thus become integral to improving the production process.

Only easily programmable machines can be used in the most diverse production processes with the maximum possible return on investment.

The proprietary software applications supplied together with the AEB desktop robots allow the installed working system to be controlled in a sophisticated way, while their programming, which is developed in a visual environment, is extremely intuitive and versatile. The online updatability of the software applications also helps make all AEB Robotics systems a long-lasting and advantageous investment.

The ISO 9001 - VISION 2000 certification guarantees the excellence of AEB Robotics production processes and products, ensuring Quality not only of the finished product and all its production stages, but also of the technical and sales support.



DESKTOP ROBOTS

Proudly made in Italy



DCRBTWRIT02

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