

## TM5-900 AI, TM 6-axis robot incl. controller, reach 900mm, payload 4kg



The robot TM5-900 AI is based on the TM5-700 AI and allows a higher reach with a lower payload. The TM5-900 AI also combines functions similar to the human body of the hand, the eye and the brain in one system. The integrated camera system enables the TM5-900 AI robot to recognize reference point markings, among other things, and to use this information to adjust its position independently and automatically. The intuitive graphical user interface and the possibility of a manual teach-in allow an individual adaptation to the application process as well as a quick and easy operation of the industrial robot - just as easy as using a mobile phone.

## Future-proof! Your Cobot with Al.

The main benefits of AI Vision are an automated optical inspection (AOI), Quality assurance & consistency, an increase in production efficiency and a reduction in operating costs. Al-powered cobots recognize the presence and orientation of their environment and

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Products for the electronic industry







parts to perform visual inspections and dynamic pick-and-place tasks. Effortlessly apply Al to the production line and increase productivity, decrease costs, and shorten cycle times. Al vision can also read results from machines or test equipment and make appropriate decisions accordingly. Besides improving automation processes, an Al-driven cobot can track, analyze, and integrate data during production to prevent defects and improve product quality. Easily enhance your factory automation with a complete set of Al technology.

 Max. Speed: 1.4 m/s (4m/s) • Joint rotation: +/- 270° | +/- 180°

• Speed: 180°/s | 225°/s • Repeatability: +/- 0,05mm

Degrees of freedom: 6 rotation axes

• Communication: 3x COM, 1x HDMI, 1x EtherCAT, 2xGigE, 1x LAN, 4x USB 2.0, 2x USB 3.0, 1x VGA

• camera: 1.2 M / 5 M pixel color | fully integrated vision system with illumination

• I/O power supply: 24 V, 1.5 A

• IP class: IP54 (robot arm), IP32 (control unit)

 Clean room class: ISO Class 3 • Temperature range: 0 - 50° C

· Software: FMflow, TMFlow Editor and AOI

• TMFlow AI functions (identify, measure and OCR)

[https://www.youtube.com/watch?v=lkA2WSzAQI8&t=12slYou can find out more information here]

[https://www.youtube.com/watch?v=eEmN3xaBcm8|Information on screw application]

Robot series	Al series
item number	WL48027
model	TM5-900
manufacturer	TECHMAN
scope of supply	<ul><li>6-axis robot</li><li>Control unit</li><li>Connection cable</li><li>Control unit</li><li>IO cable (HW3.2)</li></ul>
order unit	1 piece
content unit	1 piece
self-weight	22.6 kg
power	220 W
output (to)	220 W
range	900 mm













camera resolution	1.2M/5M pixel, colour camera
load capacity	4 kg
interfaces	I/O interface: Digital in / Digital out / Analog in / Analog out Communication & Connections: RS232, Ethernet, Modbus TCP/RTU, PROFINET (optional), EtherNet/IP (optional)









