JANATICS

WORLD CLASS

The future is here,

TM AI COBOT

Native AI engine + Robotic arm + Vision system

All in **ONE**

"Recognized globally: Winner of Taiwan Excellence, Red Dot Design, iF Product Design, Golden Pin Design, and COMPUTEX D&I Gold Awards."

TM AI Cobot (Regular Series)

TM5-700
- Payload: 6 kg
- Reach: 946 mm

TM5-900
- Payload: 6 kg
- Reach: 946 mm

TM12
- Payload: 12 kg
- Reach: 1300 mm

TM14
- Payload: 14 kg
- Reach: 1100 mm

TM16
- Payload: 16 kg
- Reach: 917 mm

TM20
- Payload: 20 kg
- Reach: 1300 mm

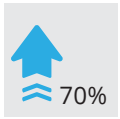
Easy to Use

Hand Guide: The **Hand Guide** mode simplifies the process of setting points and tasks for the robot. By utilizing buttons on the cobot arm, users can easily guide it into position, allowing the software to automatically record the coordinates.

Integrated Vision System: Our **Integrated Vision System** simplifies pick-and-place tasks through hand guidance and landmark positioning, enhancing object localization for quick redeployment in high-mix, low-volume production without recalibration.

Graphical interface: TMflow simplifies cobot interaction with its **graphical interface**, offering versatile operation modes and ready-to-use functions like Vision Control and Force Control for seamless application development.

Boosted Efficiency:
Achieve **25% faster** cycle times with enhanced motor speed.
The 6th axis now operates at 450°/s, doubling its previous speed of 225°/s.



Achieve Precision:
Experience up to a **70%** improvement in repeatability, now at 0.03 mm for TM5S/TM7S/TM12S/TM14S models

Safety Features: Benefit from up to **31 certified safety functions**, meeting TÜV and SGS certifications for ISO 13849-1, ISO 10218-1, UL, CSA, and CE standards. Our system ensures easy safety assessments and flexible safety functions, reducing safety control configuration costs, with TÜV certification up to PL=d, Cat.3.

Introducing the new Robot Stick:
Enhanced safety with a 3-position Enabling Switch and RESET button.
Seamlessly integrates with **TM Screen** for intuitive teaching and control.

TM AI Cobot (S Series)

TM5S
- Payload: 5 kg
- Reach: 946 mm

TM7S
- Payload: 7 kg
- Reach: 758 mm

TM12S
- Payload: 12 kg
- Reach: 1300 mm

TM14S
- Payload: 14 kg
- Reach: 1100 mm

TM25S
- Payload: 25 kg
- Reach: 1902 mm

TM30S
- Payload: 30 kg
- Reach: 1702 mm

Built-In Vision System

Counting Shape

Counting Blobs

Counting Images

Object Classification

Anomaly detection

AI Inspection

1D Bar-code / QR Code

OCR

Angle

Object based Orientation

Conveyor tracking

Multi Camera Support

AI Vision Features

Assembly Inspection

Checking if the tires are wrapped with PE film

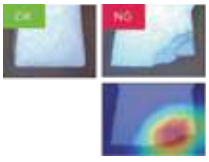
Checking if all wires are connected correctly

Classification

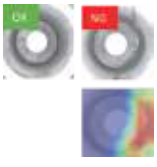
Sorting different materials of wood

Recognition of pizza flavor and crust

Defect Inspection

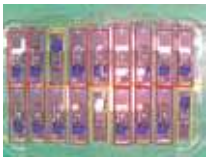


Identifying objects with damage on the edges



Checking if there are metal scrap on the surface

Counting / Detection



Counting the amount of the object in the tray

Objects detection and 3D positioning

Scratches / Cut / Dent Inspection

Checking the dents on metal parts

Checking scratches on DRAM gold fingers

AI OCR

Label text reading

Label text reading

Techman Robot is a registered trademark for Techman Robot Inc., Which retails all the rights and interests of this trademark. The product information is for reference only, and Techman Robot Inc. & JANATICS is not responsible for any error or omission. Product data is subject to change without prior notice.

Industrial Segments

- 3D Bin Picking
- AGV
- Pick & Place
- Assembly
- Packaging
- Palletizing
- Conveyor Tracking
- Machine Tending
- Quality Inspection
- PCB Handling
- Polishing & De-burring
- Glue Dispensing
- Injection Molding
- Screw Driving
- Welding

Industrial Applications

Electronics	CNC	Machinery	Automotive
Food / Pharma	Warehousing / FMCG	Semiconductor	& Much more

Case Studies

Factory Applications

Demonstrations

TM ROBOT

JANATICS

SOVEREIGN
ELECTRO ELECTRONICS

+91 8760334488

www.sovereignpneumatics.in