



TECHMAN
ROBOT



SMART
SIMPLE
SAFE

Industrial 4.0 enabled

Highly flexible deployment
and quick job change

Low automation and maintenance costs



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“We have decided to take a different path from the very beginning”

- Ho Shi-Chi, Chairman, Techman Robot. -

Our Company

Techman Robot entered the world of robotics in 2012 with the aim of revolutionising the market. Our robots combine 4 years' worth of research and development, utilising our 100+ team of experts focused on eliminating the traditional inconveniences often associated with industrial robotics. Guided by Chairman Ho Shi-Chi, we have managed to deliver the world's first collaborative robot with built-in vision as standard.

Quality, Innovation, and Service

As the world focused on industrial type robots that have been utilised for decades, Techman focused on investing in the development of collaborative robotics. Traditional industrial robots are often costly, require total safe guarding and are notoriously hard to programme and repurpose. utilising our extensive expertise and innovation from design, through to development and production, Techman have produced the number 1 choice in robotics for future industry 4.0 smart factories.

Our Future

Based on innovative science and technology, through our brand we hope to improve productivity and efficiency across a variety of applications and industries. In response for the global call for industry 4.0, IoT and cloud computing, Techman are invested in continuously creating industry innovations.





SMART

Built-in vision system

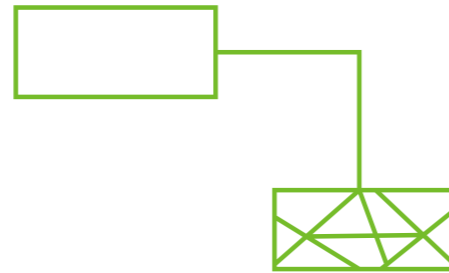
TM Robot is equipped with a built-in vision system, which integrates into both the hardware and software perfectly, whereas traditional add-on vision solutions to robotics are complicated, time consuming and costly to implement.

Masters in robot vision

Many standard robot vision functions are already built into our system: pattern matching, object localisation, image enhancement, bar code reading, colour recognition, etc. All these functions have been integrated into our remarkably easy-to-use user interface.

5 Minutes to achieve a visual pick & place task

Combining our smart vision system and our hand-guiding functions, everyone, even those without robotic programming experience, can achieve a visual pick & place task within 5 minutes.



SIMPLE

Revolutionary user interface

No more coding! You can implement your automation task with our revolutionary simple-to-use user interface, an all-graphic flow chart based HMI. Users, even those without coding experience with industrial robots, can learn to use TM Robot easily and quickly. You can program every built-in vision function on the GUI. Furthermore, the traditional heavy umbilical wired pendant is gone. Our user interface can be operated on PCs, notebooks or tablets.

Use your hand

Another reason TM Robot is more simple to program than the other modern robots is our well designed hand-guiding functions with servo assist. You can lock selected axes to allow adjustment in defined planes and then fine tune the co-ordinates with easy editing of those co-ordinates within the programming package.

Easy to deploy

Because TM Robot is so simple to program, it is very easily deployed into different applications, reducing your time-to-production and saving your total cost in automation.



SAFE

Force limiting

TM Robot complies with the ISO 10218-1 & ISO/TS 15066 human-robot co-operation safety requirements for collaborative robots, allowing the robot to be programmed with both speed and force limits.

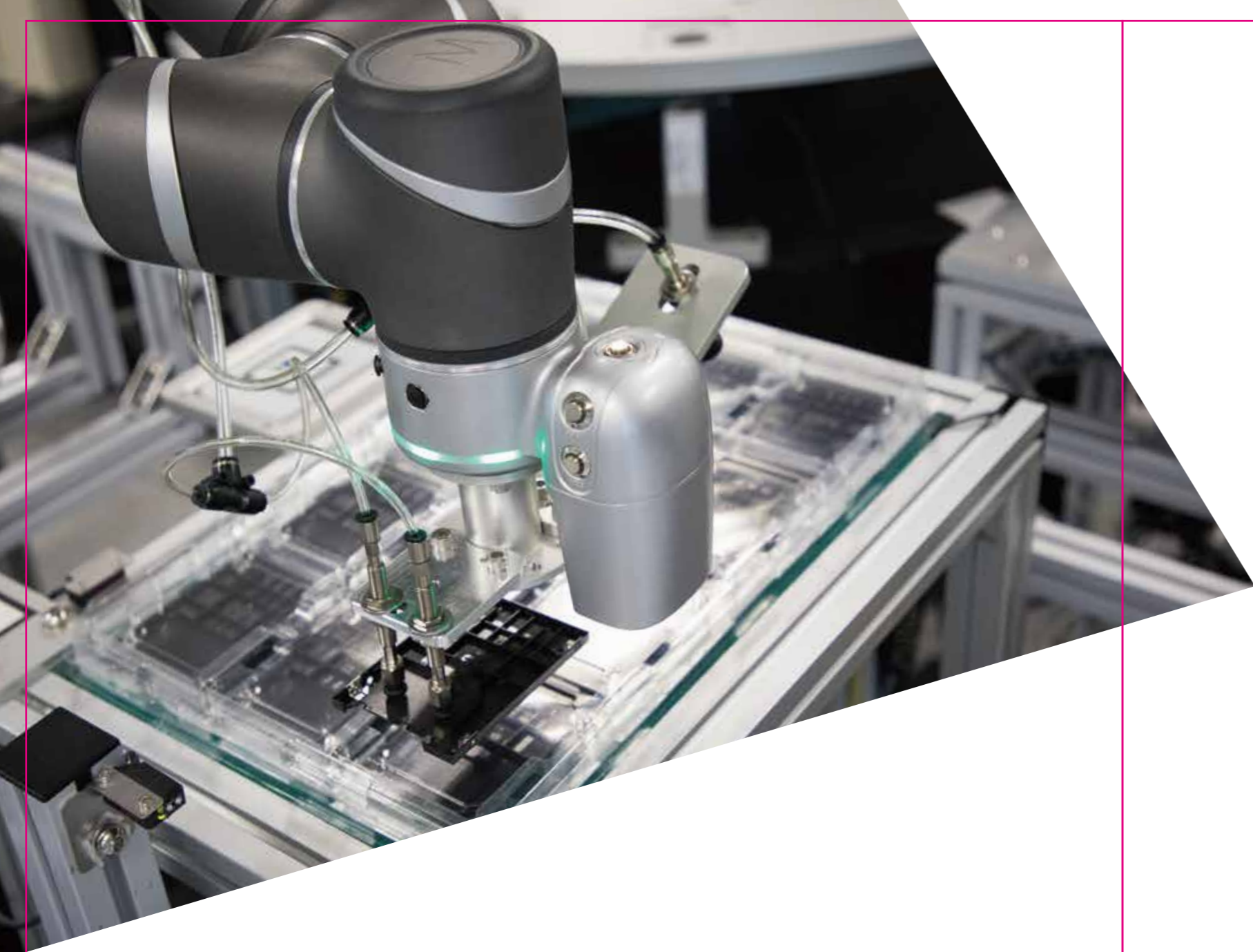
Safety is our priority

TM Robot is serious about safety in every aspect of the design of the whole robot system, through hardware, software and operational design.

Ergonomic design

TM Robots are physically designed to be safe to their surroundings, soft end caps and no sharp edges are all part of the collaborative experience.





TM5

The most intelligent collaborative robot with built-in vision



The first choice for flexible automation applications

The TM5 collaborative robot features simple programming, innovative integrated vision capabilities together with the latest safety functionality, all leading to rapid deployment in a huge variety of applications. Having vision identification functionality completely integrated within the collaborative robot platform, provides an easy and intuitive way to achieve robot calibration to work piece or tooling, product selection, 1D or 2D barcodes and a host of other vision applications, delivering a true Industry 4.0 solution.

- Reach: 700mm, 900mm
- Payload: 6kg, 4kg

Industrial application:

- 3C industry
- Automobile industry
- Food industry
- Other

High Payload Series

Greater payload capability with increased reach

Featuring a payload capability greater than other collaborative robots on the market with a similar arm length, the TM12 and TM14 still remain simple, smart and safe. These robots are easy to operate and still offer rapid redeployment, reducing your automation and maintenance costs whilst increasing precision and production for various industries.

Built-in vision system

The TM built-in vision system offers template matching, item positioning, image enhancement, barcode identification and colour categorisation. All these functions have been integrated into our remarkably easy-to-use user interface for simple programming.

TM12

Strong load function + wide work area

- Reach: 1300mm
- Payload: 12kg
- Payload is greater than similar arm length collaborative robots on the market

Industrial application:

- Semiconductor industry
- Panel industry
- CNC industry
- Other



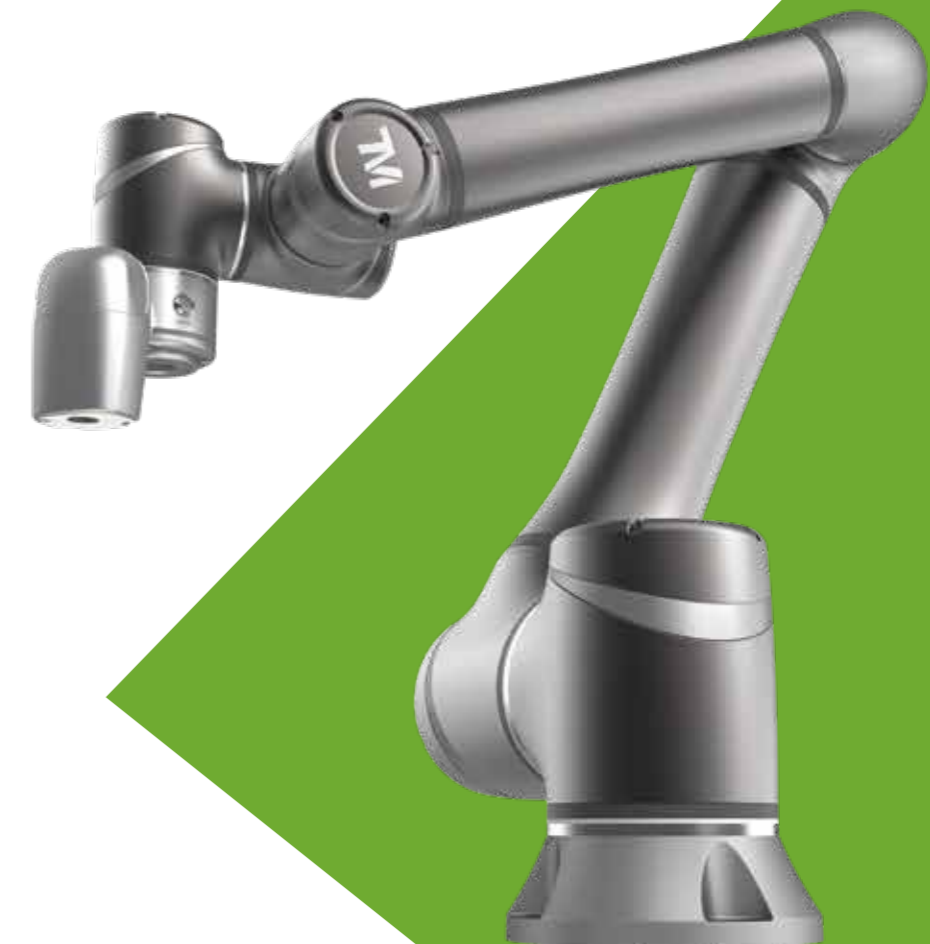
TM14

The highest load capability in the TM product series

- Reach: 1100mm
- Payload: 14kg

Industrial application:

- Semiconductor industry
- Panel industry
- CNC industry
- Other



TM Mobile Series

The ultimate solution for integrating collaborative robots with automated guided vehicles

TM5M, TM12M, TM14M

Highly flexible and compatible thanks to DC power design.

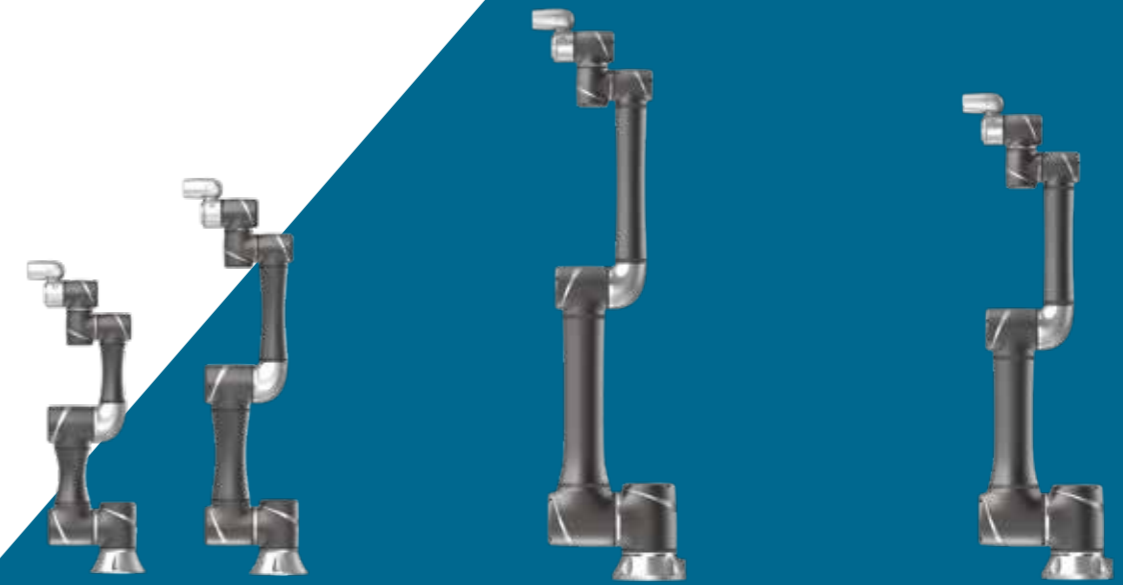
TM Robot's high performance mobile series utilise an inbuilt vdc supply, making them compatible with most brands of AGV/MR in the market today.

Built in vision for precision positioning

By utilising the "TM Landmark" , the mobile robot can orientate itself within a 3D space, like an auto datum sequence, to multiple machine surfaces. This allows the TM-M robots to operate between two or more locations seamlessly. This solution is optimal for mobile stacking and machine tending applications.

SEMI S2 certified (Option)

Now with SEMI S2 certification for the semiconductor wafer industry, making the TM Robot of choice for automation transferring applications between different work stations.



TM5M :
Applicable for electronic industry mobile assembly.

TM12M :
Applicable for mobile stacking and mobile Machine Tending.

TM14M :
Applicable for heavy load pickup/ placement and semiconductor wafer box automatic transfer.

