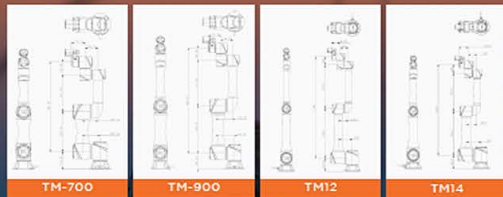


## DIMENSIONS



## TM5 STANDS



Custom stands for all models are available upon request.

## CONTROL BOX



## PLUG & PLAY END-EFFECTORS\*



ROBOTIQ

TOYO

SCHUNK

SCHMALZ

## SPECS



MODEL	TM5-700	TM5-900	TM12	TM14
WEIGHT (KG)	22.1	22.6	33.3	32.6
MAX PAYLOAD (KG)	6	4	12	14
REACH (MM)	700	900	1300	1100
MAX SPEED (M/S)	1.1	1.4	1.3	1.1
JOINT RANGES: J1	± 270°		± 270°	
J2, J4, J5	± 180°		± 180°	
J3	± 155°		± 166°	± 163°
J6	± 270°		± 270°	
JOINT SPEEDS: J1, J2	180°/s		120°/s	
J3	180°/s		180°/s	
J4, J5	225°/s		180°/s	150°/s
J6	225°/s		180°/s	
REPEATABILITY (MM)	± 0.05		± 0.1	
IP (ARM)	IP54			
OPERATING TEMPERATURE (°C)	0 to 50			
POWER SUPPLY	100-240 VAC, 50-60 Hz			
MAX POWER CAPACITY (W)	1400		2200	
I/O PORTS: (IN ITALICS)	Control Box/Tool			
DIGITAL IN	16/4			
DIGITAL OUT	16/4			
ANALOG IN	2/1			
ANALOG OUT	1/0			
I/O INTERFACE	3 X COM, 1 X HDMI, 3 X LAN, 4 X USB2.0, 2 X USB3.0			
COMMUNICATION	RS232, TCP/IP (Master), Modbus TCP/RTU (Master & Slave)			
INTEGRATED CAMERA	5M pixels, color (AOI tasks: 5M; Others: 1.2M)			
I/O POWER SUPPLY	24V 1.5A (Control Box and Tool)			
PROGRAMMING ENVIRONMENT	TM Flow, flow chart based			
SEM 52 CERTIFIED	Yes, as an option			

SMART | SIMPLE | SAFE



# TM-SERIES

HUMAN-MACHINE COLLABORATION  
TAKEN TO THE NEXT LEVEL.



PACKAGING  
MADE EASY

OMRON

\*Custom application based end-effectors and End-Of-Arm-Tooling (EOAT) available upon request.



## THE FIRST CHOICE FOR FLEXIBLE AUTOMATION APPLICATIONS

- Promotes a safe and harmonious workplace between humans and machines.
- Allows for quick startup and operation with an easy-to-use graphical programming environment.
- Enables visual servoing, inspection, and measurement operations with built-in, vision-based robot control.
- Allows truly flexible, fast changeover with TMvision and landmark.
- Provides the tools and versatility for many manufacturing needs with the Plug & Play ecosystem.
- Integrates with mobile robots, enabling fully autonomous machine tending & logistics handling applications.



Assembly



Dispensing



Machine Tending



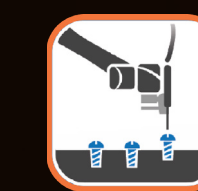
Palletizing



Pick & Place



Screwdriving



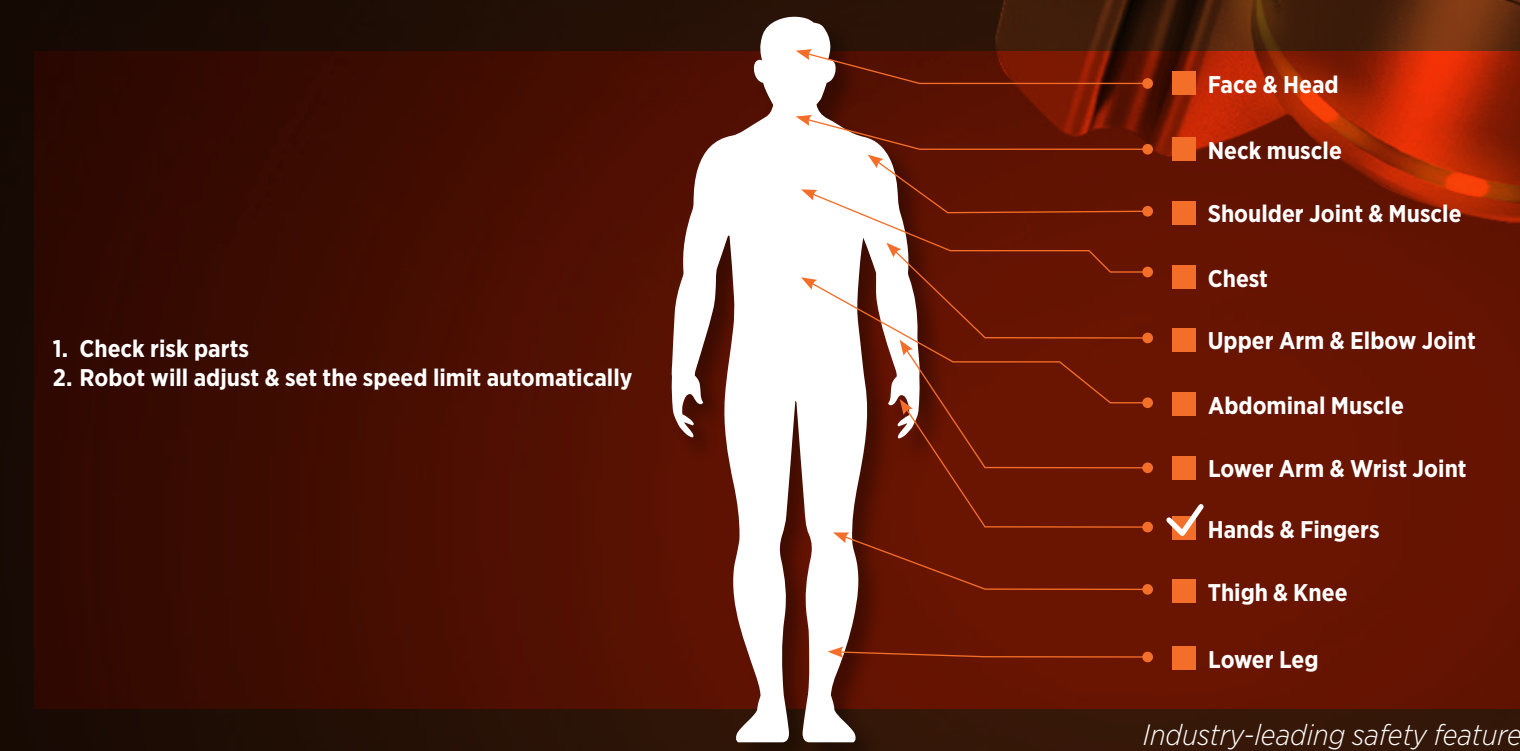
Visual Inspection

## PERFECT FOR

- Packaging
- Computer industry
- Communications industry
- Consumer industry
- Food industry
- CNC industry
- Automobile industry
- Semi-conductor
- Your industry here



Easy hand-guided programming.



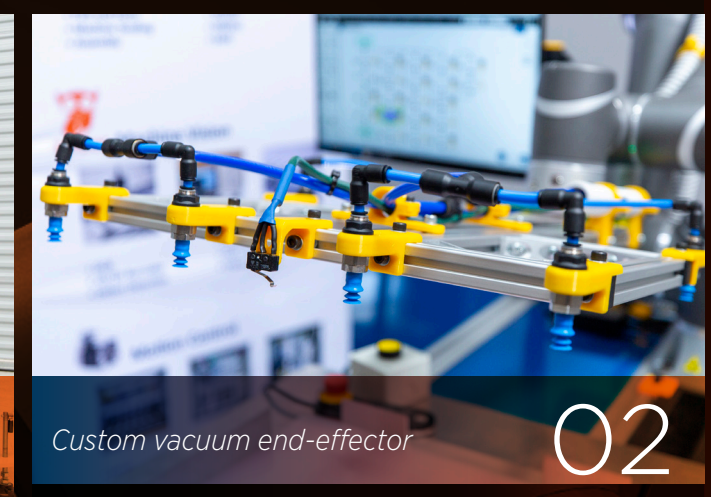
Industry-leading safety features

## FOR ASSEMBLY, PACKAGING INSPECTION & PALLETIZING



Custom and standard base.

01



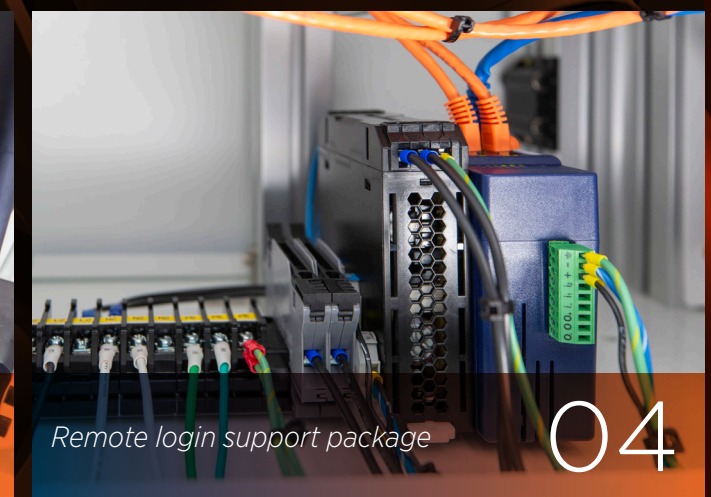
Custom vacuum end-effector

02



Integrated Area safety scanner

03



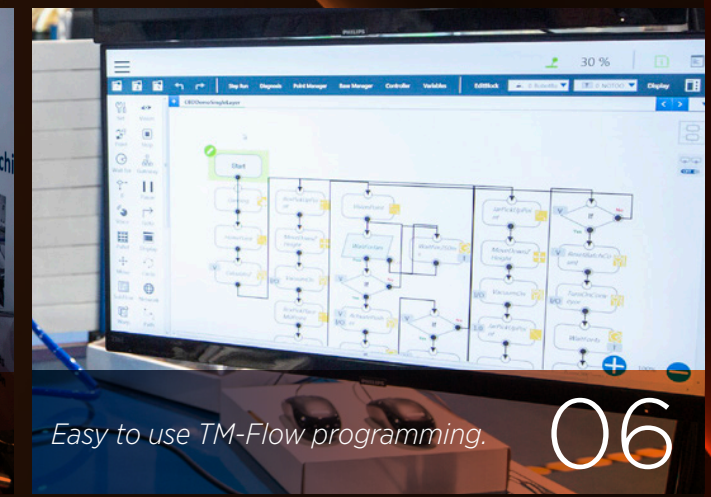
Remote login support package

04



Custom vacuum end-effector lifting a batch of 8 filled jars

05



Easy to use TM-Flow programming.

06

# SMART

With the powerful built-in vision system and TM flow™ user interface, the TM Robot can see, process, and complete automation tasks alongside humans with ease.

# SIMPLE

Create your automation task with tm's intuitive user interface—an all-graphic flow chart based hmi. The tm robot is also equipped with hand-guiding functions.

# SAFE

TM series robots comply with the iso 10218 human-robot safety requirement, bringing us into the era of true human-robot collaboration.