







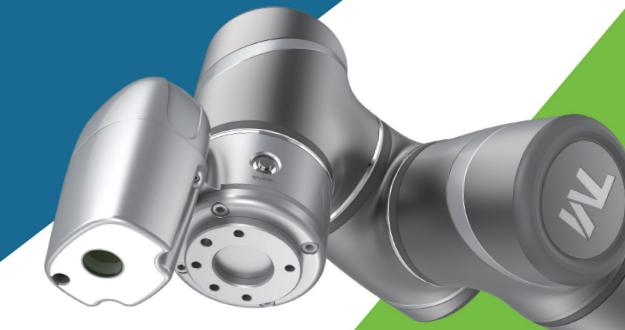






# TM5

The most intelligent collaborative robot with built-in vision



## **SMART**

Built-in vision system, Masters in robot vision

## **SIMPLE**

Revolutionary user interface, Easy to deploy



Complies with ISO10218-1 & ISO/TS 15066



## **SIMPLE**

### SAFE

#### **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.

#### Revolutionary user interface. Easy to deploy

You can implement your automation task with our revolutionary intuitive user interface, an all-graphic flow chart based HMI. Tm Robot equipped with 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. TM robot is so simple to program and very easily deployed into different applications, remarkably reducing your time-to-production and saving your total cost in automation.

#### Safety is our priority

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

## TM5 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.

- Achievable range: 700mm, 900mm
  Load capability: 6kg, 4kg
- Industrial application: 3C industry, Automobile industry, Food industry, Other

# **Specification**

Model		TM5-700	TM5-900
Weight		22.1kg	22.6kg
Payload		6kg	4kg
Reach		700mm	900mm
Max Speed		1.1m/s	1.4m/s
Joint Ranges	J1	+/- 270°	
	J2,J4,J5	+/- 180°	
	J3	+/- 155°	
	J6	+/- 270°	
Speed	J1~J2	180°/s.	
	J3	180°/s.	
	J4~J5	225°/s.	
	J6	225°/s.	
Repeatability		+/- 0.05mm	
Degrees of Freedom		6 Rotating Joints	
I/O Ports		Control Box	Tool Conn.
	Digital in	16	3/4(by regional model)
	Digital out	16	3/4(by regional model)
	Analog in	2	1
	Analog out	1	0
I/O Power Supply		24V 1.5A for control box and 24V 1.5A for tool	
IP Classification		IP54(Arm)	
Power Consumption		Typical 220 watts	
Maximum Power Capacity <sup>①</sup>		Max. 1300/1400 watts(by regional model)	
Temperature		The robot can work in a temperature range of 0-50°C	
Power Supply		100-240 VAC, 50-60 Hz(Regular Model) / DC24V/48V(Mobile Model)	
I/O Interface		$3 \times COM, 1 \times HDMI, 3 \times LAN, 4 \times USB2.0, 2 \times USB3.0$	
		1×VGA(Reginal model)	
Certification		CE(regional model), SEMI S2(Option)	
Variation Models		X: without hand eye camera, M: Mobile(DC Version), SEMI: SEMI S2 certified	
Robot Vision			
Eye in Hand (Built-in)		1.2M/5M pixels, color camera	
Eye to Hand (option)		Support Maximum 2 GigE cameras	
1 Maximum power	r capacity is the maxir	num output capacity of the power supply s	vstem designed in the control box.

SFMI S2











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