Omron Cobots

Human and Machine in Perfect Harmony

OMRON

Global Logistic Service

Easy Programming
Drag & Click

Simple Safety Settings

Service Contract

Integrated Vision System

Risk Assessment*

LandMark

Big Portfolio
TM5-700/900, TM12 and TM14 DC Version SEMI S2 Version

Mobile Working Station

* Applicable for a select group of countries

OMRON

Versatile

Plug & Play Ecosystem.

The Omron Cobot is so versatile it can be assigned to almost any task.
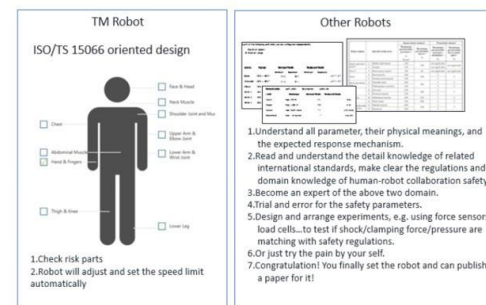
Quick Changeover

- Easy Teaching without Pendant.
- Quick & Easy programming.
- Designed to recognize a reference point (landmark).

Built-in Vision

- Faster setup with built-in vision.
- Fully integrated with Software.
- Pattern matching, barcode reading, and color classification.

Safe

Faster setup with software tools

Risk assessment service

Safety requirements specified in ISO 10218 and ISO/TS 15066.

Transportable

The mobility of the Omron Cobot allows you to easily relocate and recommission it for any new task.
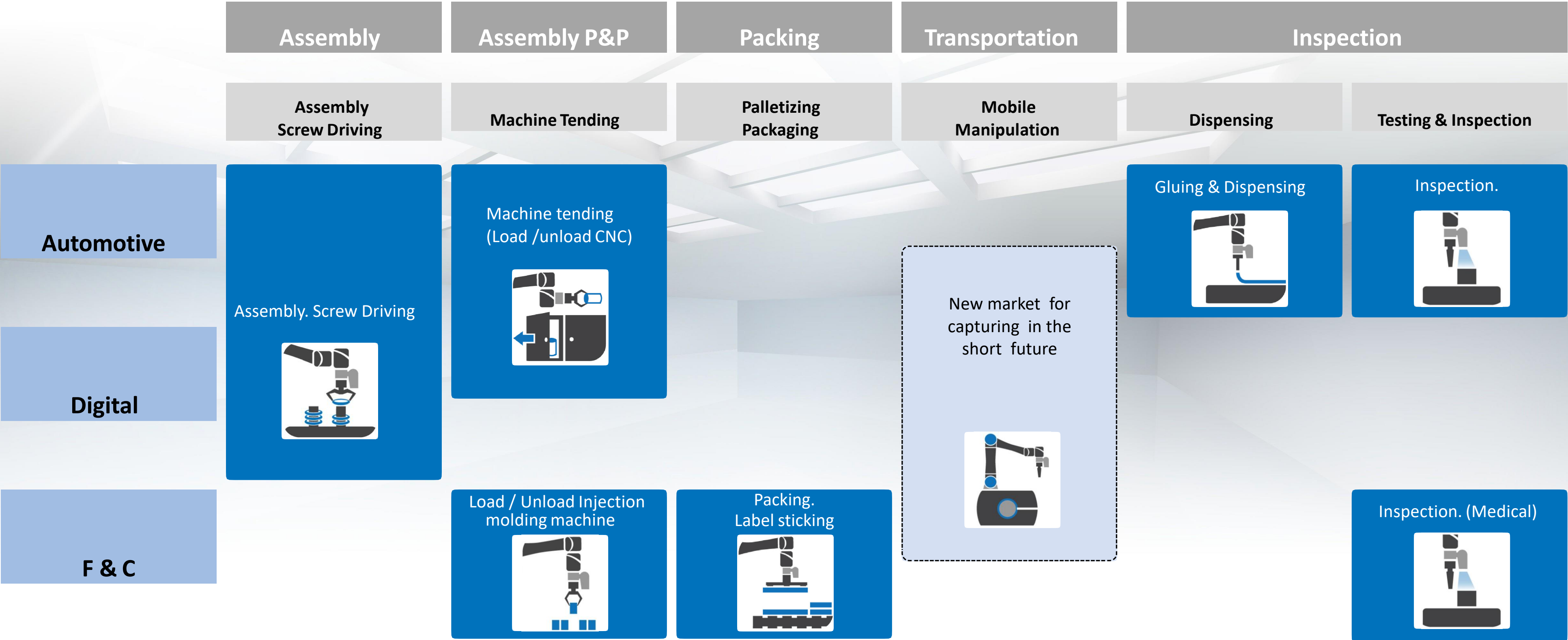
MOMA

Mobile Manipulator: Combination of Omron Cobot + Mobile provides maximum versatility in your workspace.

Omron Cobot Applications

The Omron Cobot is designed to adapt to almost any industry

	Assembly	Assembly P&P	Packing	Transportation	Inspection	
	Assembly Screw Driving	Machine Tending	Palletizing Packaging	Mobile Manipulation	Dispensing	Testing & Inspection
Automotive	Assembly. Screw Driving	Machine tending (Load /unload CNC)			Gluing & Dispensing	Inspection.
Digital				New market for capturing in the short future		
F & C		Load / Unload Injection molding machine	Packing. Label sticking			Inspection. (Medical)

Portfolio

4 models:

	Max Payload	Max Reach
TM5-700	6 kg	700 mm
TM5-900	4 kg	900 mm
TM12	12 kg	1300 mm
TM14	14 kg	1100 mm

3 different options each:

- Standard Option
- DC Option (To be used with the mobile robot)
- SEMI-S2 Certified Option (To be used for Semiconductor applications)

Omron Cobots

Additional features:

- Repeatability +/- 0.05 mm
- Degrees of freedom: 6 rotation joints
- I/O ports: 16/16 digital input/output and 2/1 analog input/output
- Robot arm IP54
- Control box IP32
- Power Consumption 220watts
- Temperature working range: 0-50 C degrees
- I/O Interface: 3xCOM, 1xHDMI, 3xLAN, 4xUSB2.0, 2xUSB3.0, 1xVGA
- Communication: RS232, Ethernet, MODBUS TCP/RTU (master & slave)
- Programming environment: Tmflow, Flow chart based
- Eye in Hand (Built-in): 1.2M/5M pixels, color camera
- Eye to Hand (Optional): Support Maximum 2 GigE cameras
- Certification: CE (by Regional Model), SEMI S2 (Option)