CE RoHS

Magnet Gripper
for Collaborative Robots

Compliant with the TM Series
OMRON Corporation
collaborative robot and the TM Series
TECHMAN ROBOT Inc.
collaborative robot

Plug and Play
configuration for immediate use

TMComponent Easy programming

TMPlug&Play
CERTIFIED

MHM-X7400A-TM

Plug and Play

Magnet Gripper
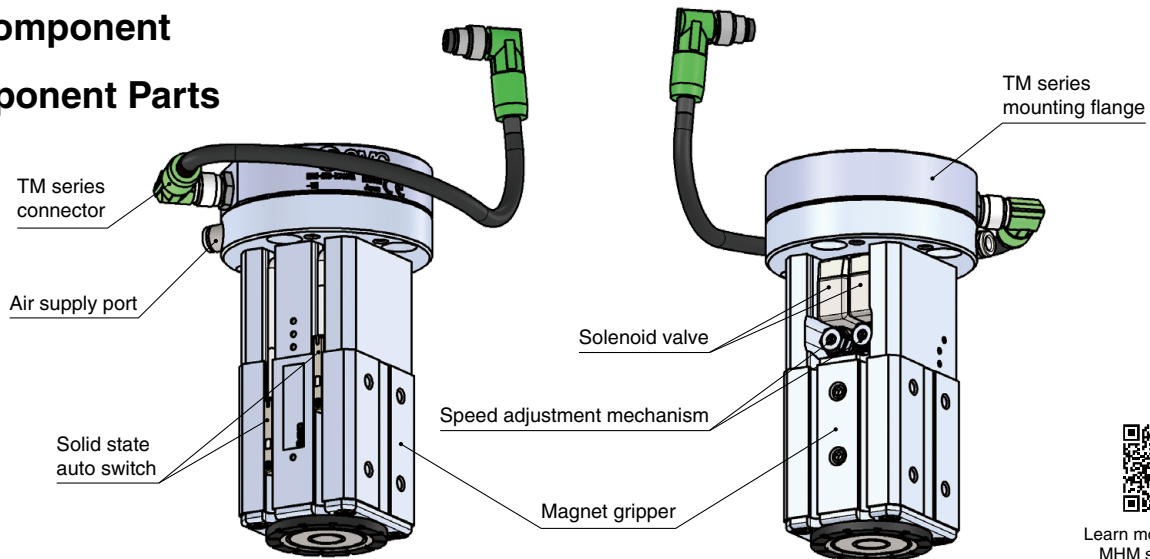
for Collaborative Robots

OMRON Corporation and TECHMAN ROBOT Inc.

TM5, TM12, and TM14 compliant

- **Attracts and holds heavy objects with a magnet**
- **Supports workpieces with holes and uneven surfaces**
- **Compact with high holding force**

  | Holding force: Max. 200 N (ø25, Workpiece thickness 6 mm)

- **Continues to hold workpieces even when the air is shut off**
- **Operate by simply connecting 1 air supply tube and an electrical wiring M8 connector.**
- **Integrated solenoid valve, auto switch, and piston speed adjustment mechanism**
- **TMComponent**
- **Component Parts**

TM series
connector

Air supply port

Solid state
auto switch

Solenoid valve

Speed adjustment mechanism

Magnet gripper

TM series
mounting flange

Learn more about the
MHM series here.

How to Order

CE RoHS

MHM‑25D‑X7400A‑TM

Specifications

Fluid		Air
Action		Double acting
Operating pressure [MPa]		0.2 to 0.6
Proof pressure [MPa]		0.9
Ambient and fluid temperatures [°C]		−10 to 50 (No freezing)
Holding force [N]	Workpiece thickness: 2 mm	160
	Workpiece thickness: 6 mm	200
Residual holding force [N]		0.3 or less
Lubrication		Non-lube
Weight [g]		590
Standards		ISO 9409-1-50-4-M6
Auto switch model		D-M9N
Connector type		M8 8-pin connector (Plug)

■ **Included parts:** Mounting bolt, Positioning pin, Piping tube (ø4 x 2 m), Piping fittings (1 type)
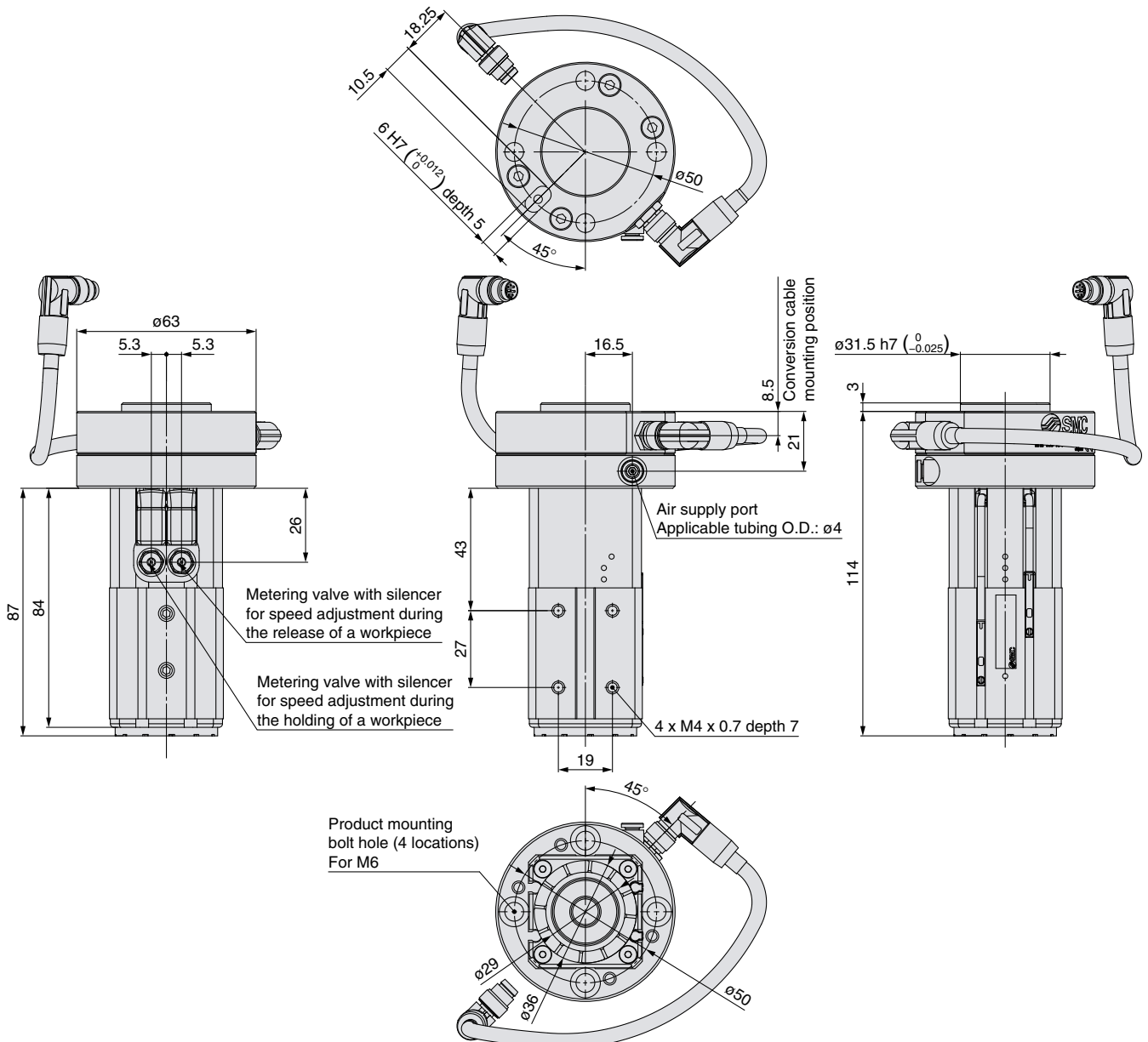
SMC

Characteristics

Holding force

The holding force graph shows the theoretical value for low-carbon steel plates.
Holding forces vary depending on the material and shape of the workpiece. Please
perform a holding test while referring to the value selected based on the graph.

MHM-25

Holding force F [N] vs. Workpiece thickness t [mm]

Dimensions

Metering valve with silencer for speed adjustment during the release of a workpiece

Metering valve with silencer for speed adjustment during the holding of a workpiece

ø63
5.3   5.3
26
87
84

16.5
8.5
21
Conversion cable mounting position
43
27
19
Air supply port
Applicable tubing O.D.: ø4
4 x M4 x 0.7 depth 7

ø31.5 h7 $\left(^{0}_{-0.025}\right)$
3
114

18.25
10.5
6 H7 $\left(^{+0.012}_{0}\right)$ depth 5
45°
ø50

Product mounting bolt hole (4 locations) For M6
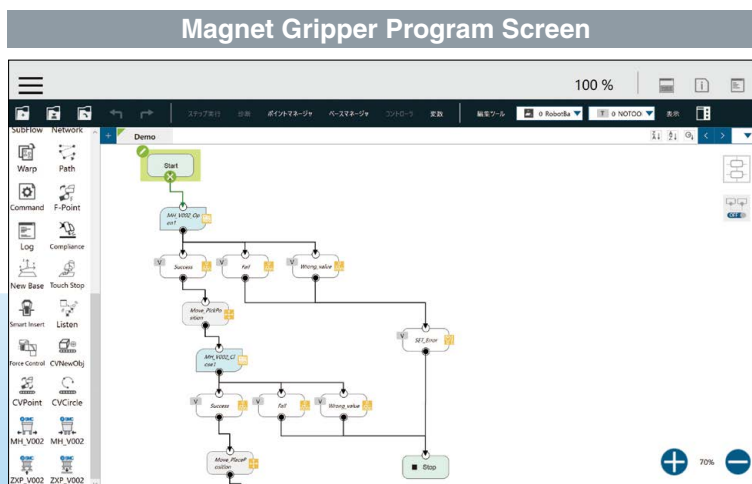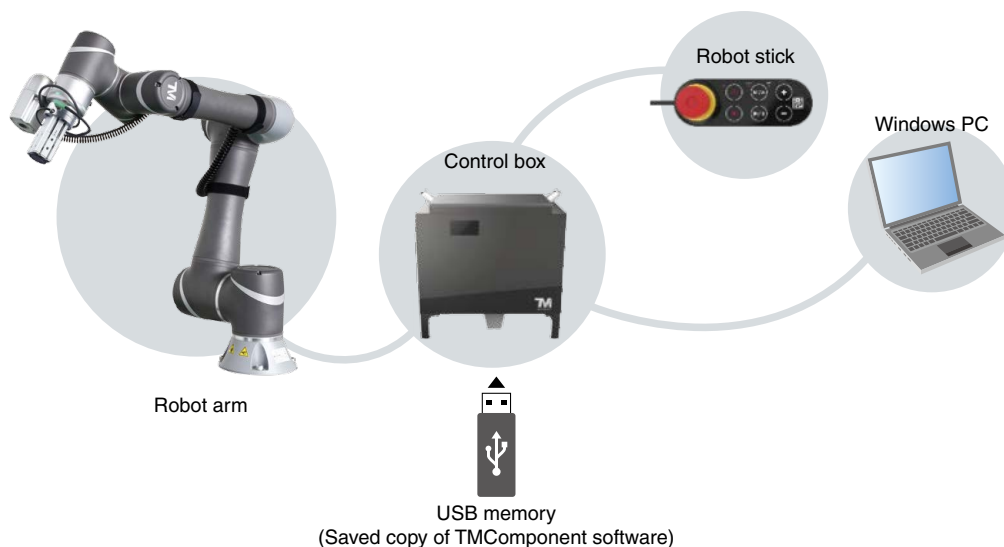45°
ø29
ø36
ø50

TMComponent

Easy programming

Using the certified software TMComponent of OMRON Corporation and TECHMAN ROBOT Inc., various operations and sensor signals can be easily programmed by using a control box equipped with the dedicated software tool "TMflow" or by using graphical flowcharts on a Windows computer.
You can easily install the software by inserting a USB with the TMComponent software package into a control box or Windows computer.

∗ Please download the TMComponent software package from the SMC website, and save it to a USB memory.

Robot stick

Windows PC

Control box

Robot arm

USB memory
(Saved copy of TMComponent software)

Magnet Gripper Program Screen

TMPlug&Play
CERTIFIED

⚠ **Safety Instructions** | Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

SMC Corporation