YASKAWA

KEY BENEFITS

hand guiding

enabling switch

and accessories

of accessories

Smart safety

in each joint

MotoSim EG VRC

software functions

Pendant

products

• Simple programming with Smart Pendant incl. Smart Frame and

• Complex programming with Teach

• Pendants with standard 3-position

• Ecosystem of Plug & Play partner

• ISO flange for easy connection

Yaskawa simulation software

• PL d Cat. 3 certification with

25 safety-related hardware and

• High-resolution torque sensors

such as definition of ranges,

manipulator and gripper

Two retract movements:

Easy configuration of the safety unit,

plains and precise envelopes for

Retract & Clamp Release function

• Pushback function for pushing the

• Wizard programming for applications

Easy-to-use

MOTOMAN HC10DTFP

Human-Collaborative Robot for sensitive Environments **6 integrated Sensors**

with internal Cable Routing



The MOTOMAN HC10DTFP is the ideal cobot for use in special environmental conditions in the food and pharmaceutical industries. The special surface coating allows the manipulator to be cleaned and disinfected with common cleaners, while the food-grade gear grease meets high food industry requirements. The robot arm is waterproof and dustproof (IP67 -DIN EN 60529). With 10 kg payload and 1,379 mm max. reach, this cobot covers a very wide range of applications and achieves excellent repeatability. Adapting tools like grippers is easy due to the common ISO tool flange design and configuration wizard software apps. Thanks to the integrated torque sensors in each joint, the robot can be used in humanrobot collaboration without any protection fence.

was developed for easy entry into robotic automation. In addition to the simple programming philosophy with hand guidance/operator buttons on the robot's wrist, online tutorials and application builders on the web make it easier to take the first steps in robot automation. The convenient tablet-based Smart Pendant guides you intuitively through the individual steps from programming to safety configuration, simple menus provide the perfect overview of your application. Simply set up the cobot, after connecting the robot and all components, you're ready to start programming the task. Many compatible accessories - supplied either by Yaskawa or ecosystem partners - make it easy to set up robot installations for many applications.

for hybrid operation

• Powder coating for cleaning in sensitive working environments

robot away during operation

• Food grade grease

Industrial design

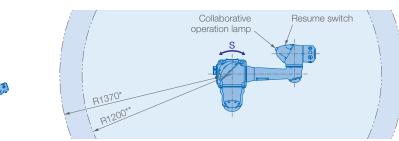
- IP67 protection class with high-quality seals
- · Robust aluminium cast in lightweight
- Powerful Yaskawa 200 V servo drives
- Internal media routing
- Automatic calibration • Fast axis speeds
- Industrial control options YRC1000 and YRC1000micro

The MOTOMAN HC robot series from Yaskawa

Controlled by YRC1000

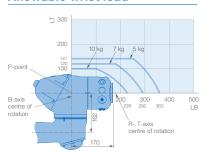


MOTOMAN HC10DTFP 170 (152) 500 U В P End-Flange (1064)(301)(239)275 R1370* R Z+ Working range (309)Point P Absolute reach: S/L-Axis center of rotation to R/T-Axis center of rotation Effective reach: S/L-Axis center of rotation to Point P

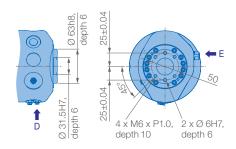




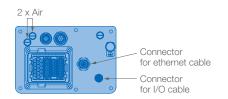
Allowable wrist load



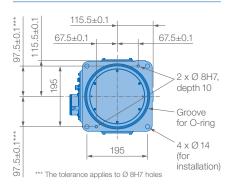
View A



View B



View C

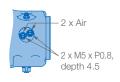


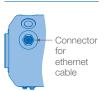
Mounting options: Floor, ceiling, wall, tilt* IP Protection: IP67

* S Axis motion limits – see table left side

View D

View E





Specifications HC10DTFP						
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	6
					Max. payload (on U-axis) [kg]	10
s	±210	130	-	-	Repeatability [mm]	±0.05
L	±180	130	-	-	Max. working range R [mm]	1370*/1200**
U	±290	180	-	-	Temperature [°C]	0 to +40
R	±210	180	27.4	0.78	Humidity [%]	20 – 80
В	±180	250	27.4	0.78	Weight [kg]	58
Т	±210	250	9.8	0.1	Power supply, average [kVA]	1.0

^{*} Absolute reach: S/L-Axis center of rotation to R/T-Axis center of rotation ** Effective reach: S/L-Axis center of rotation to Point P

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