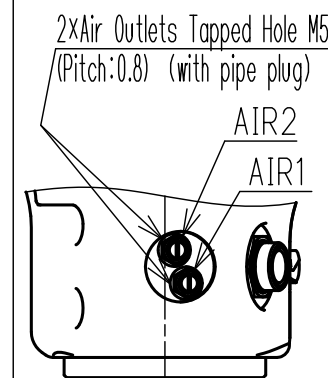


DWG.NO. HW1386598

A



**View D**  
(Scale=1/3)

Connector for I/O cable (S-2):  
RM15WTRZA-8S (with cap)  
Connector prepared by user:  
RM15WTPZA-8P or the equivalent

40<sup>+0.025</sup> dia. Hole  
(Depth:6)

Tapped Holes M6 (4 Holes)  
(Depth:10, Pitch:1.0)  
(Tightening torque for  
attachment:13.7N·m)

6<sup>+0.012</sup> dia. Holes (2 Holes)  
(Depth:6)

**View C (Scale=1/3)**

Detail of I/O Cable Connector

Connector-Base side

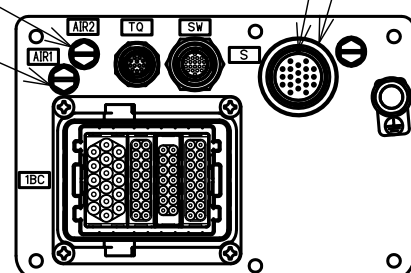
End-Flange side

1	0.2mm <sup>2</sup>	1	
2	0.2mm <sup>2</sup>	2	
3	0.2mm <sup>2</sup>	3	
4	0.2mm <sup>2</sup>	4	
5	0.2mm <sup>2</sup>	5	
6	0.2mm <sup>2</sup>	6	
7	0.2mm <sup>2</sup>	7	
8	0.2mm <sup>2</sup>	8	
9	0.3mm <sup>2</sup>	1	
10	0.3mm <sup>2</sup>	2	
11	0.3mm <sup>2</sup>	3	
12	0.3mm <sup>2</sup>	4	
13	0.3mm <sup>2</sup>	5	
14	0.3mm <sup>2</sup>	6	
15	0.3mm <sup>2</sup>	7	
16	0.3mm <sup>2</sup>	8	

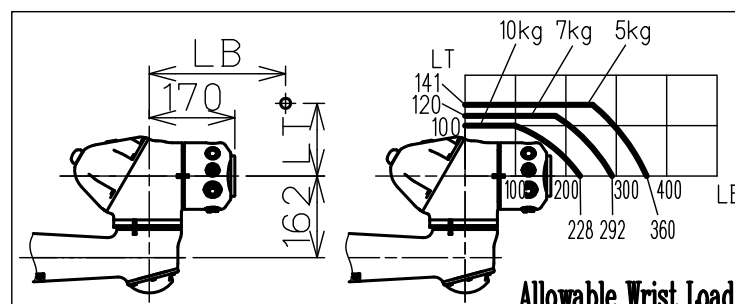
Connector for I/O cable (S):  
RM21WTR-20P (with cap)  
Connector prepared by user:  
RM21WTP-20S or the equivalent

Main Key (upper-side)

2XAir Inlets Tapped Hole M5  
(Pitch:0.8) (with pipe plug)

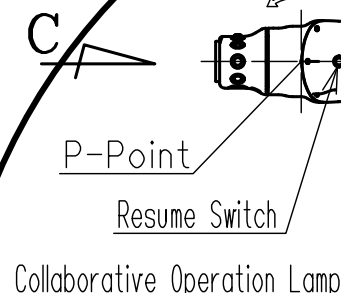
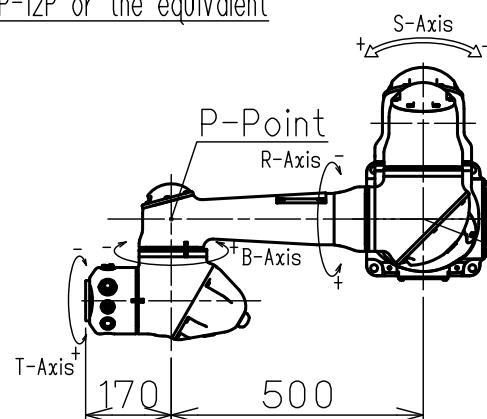


**View B (Scale=1/3)**

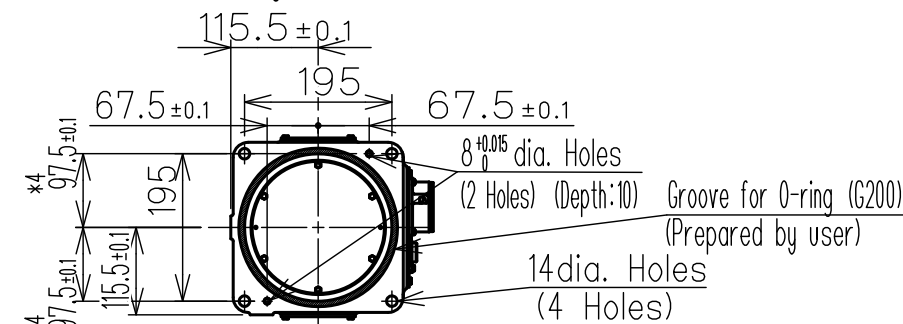


**Allowable Wrist Load**

Connector for I/O cable (S-1):  
LF10WBRB-12S (with cap)  
Connector prepared by user:  
LF10WBP-12P or the equivalent



Type	Specification
YR-1-06VXHC10-F10	<ul style="list-style-type: none"> <li>With Direct Teach Button</li> <li>Special surface treatment and food grade specifications</li> <li>Built-in Air Hoses and I/O (16wires) Cables</li> </ul>



**View A (Scale=1/10)**

Units:mm

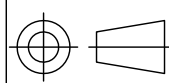
Item	Model	MOTOMAN-HC10DTF
Configuration		Vertically Articulated
Degree of Freedom		6
Payload		10kg
Repeatability *1		0.05mm
Range of Motion	S-Axis (Turning) *3	-180° - +180°
	L-Axis (Lower Arm)	-180° - +180°
	U-Axis (Upper Arm)	-95° - +265°
	R-Axis (Roll)	-180° - +180°
	B-Axis (Pitch/Yaw)	-180° - +180°
	T-Axis (Twist)	-180° - +180°
Maximum Speed	S-Axis	2.27rad/s, 130°/s
	L-Axis	2.27rad/s, 130°/s
	U-Axis	3.14rad/s, 180°/s
	R-Axis	3.14rad/s, 180°/s
	B-Axis	4.36rad/s, 250°/s
	T-Axis	4.36rad/s, 250°/s
Allowable Moment	R-Axis	27.4N·m (2.8kgf·m)
	B-Axis	27.4N·m (2.8kgf·m)
	T-Axis	9.8N·m (1.0kgf·m)
Allowable Inertia (GD <sup>2</sup> /4)	R-Axis	0.78 kg·m <sup>2</sup>
	B-Axis	0.78 kg·m <sup>2</sup>
	T-Axis	0.1 kg·m <sup>2</sup>
Approx. Mass		58kg
Protected Structure		IP67
Cleanliness (Reference) *5		Equivalent to ISO class 5
Mounting Method		Floor-, Tilt-, Wall-, Ceiling-mounted
Ambient Conditions	Temperature	0 °C to 40 °C
	Humidity	20%RH to 80%RH (Non-Condensing)
	Vibration	4.9m/s <sup>2</sup> (0.5G) or less
	Altitude	1000m or less
	Others	<ul style="list-style-type: none"> <li>Free from explosive and corrosive gas or liquid.</li> <li>Free from excessive electrical noise (plasma).</li> <li>Free from strong magnetic field.</li> </ul>
Power Requirements		1.0kVA
Controller		YRC1000/YRC1000micro

\*1 Repeatability conforms to ISO 9283.  
\*2 The manipulator is in the home position on this drawing.  
\*3 Range of motion for S-axis will be limited when the manipulator is tilt- or wall-mounted.  
\*4 The tolerance applies to 8<sup>+0.015</sup> dia. holes.  
\*5 The cleanliness is for reference and not guaranteed.

F

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3.No warranty is given in relation to the data including the specification.  
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FOR STUDY PURPOSE ONLY



SCALE 1:15

**YASKAWA**  
株式会社 安川電機

Reference Drawing

TITLE MOTOMAN-HC10DTF  
DIMENSION DIAGRAM

DRWN DATE Oct. 07, 2019

DWG.NO. HW1386598

SIZE A 3