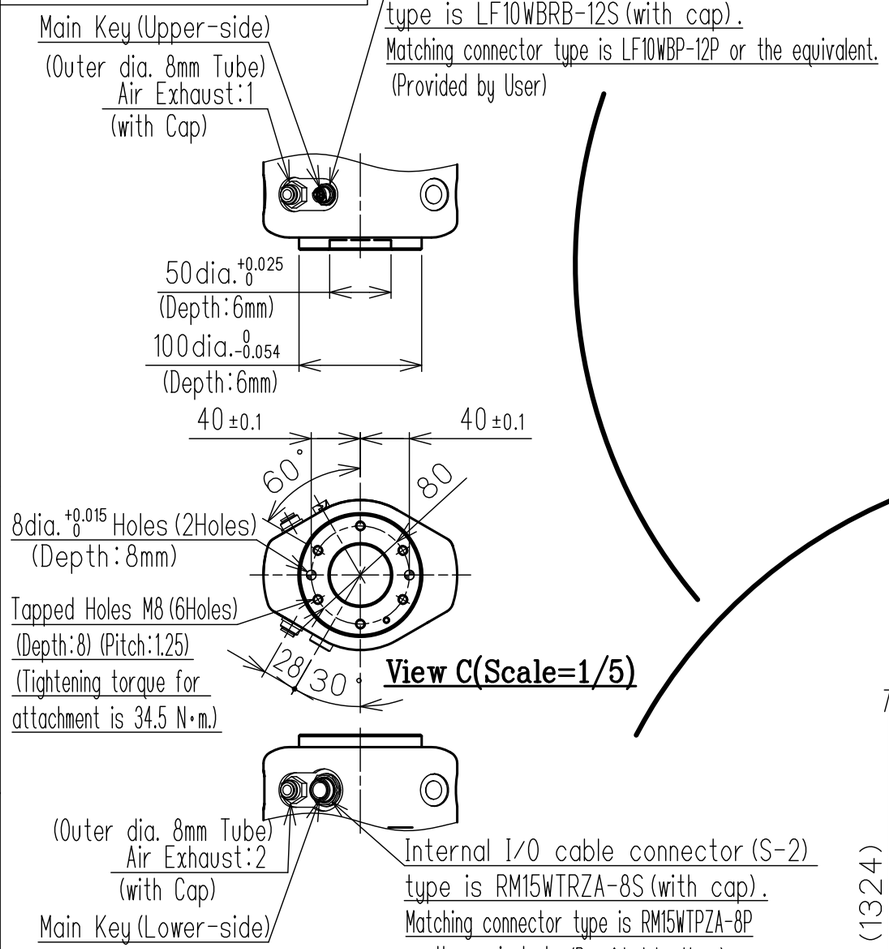
DWG.NO. HW1386258

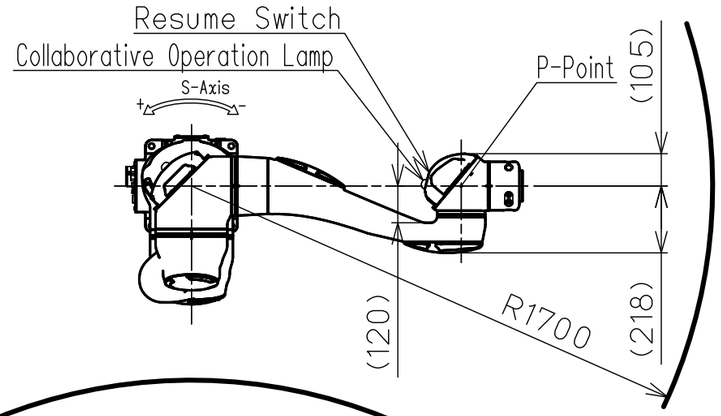
Type	Specification
YR-1-06VXHC20-B10	With Direct Teach Buttons IP67 Dust and Drip Proof Specification Built-in 2 Airtubes (Outer dia. 8mm) and I/O Cables (16 wires)

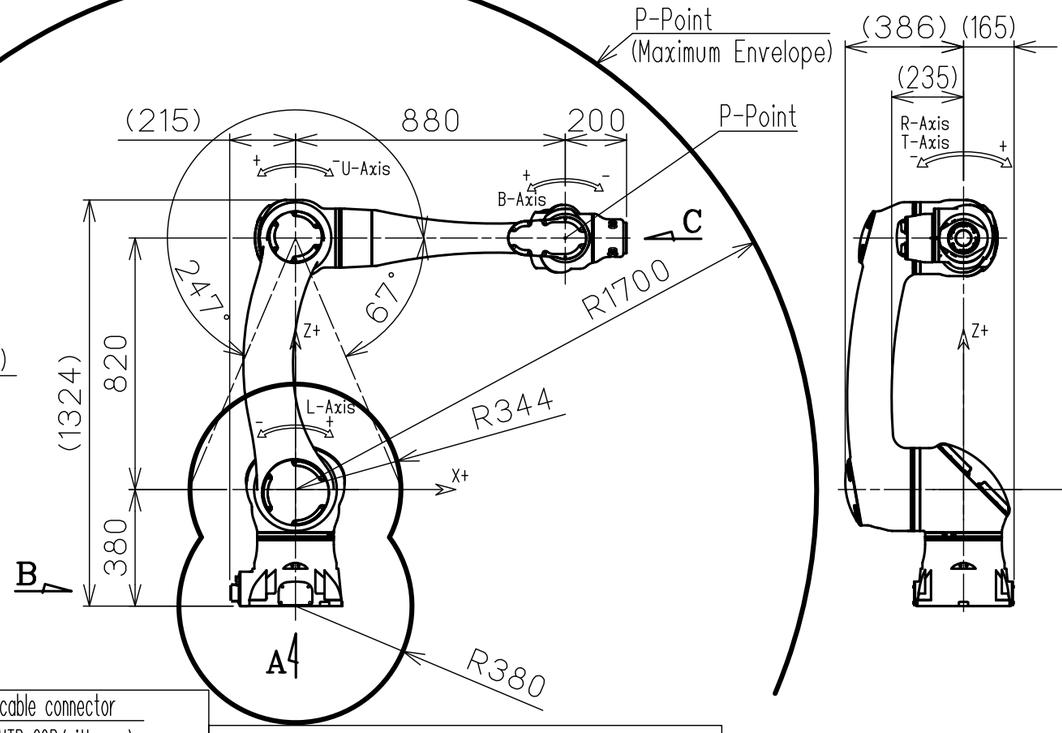


Internal I/O cable connector (S-1) type is LF10WBRB-12S (with cap).
Matching connector type is LF10WBP-12P or the equivalent. (Provided by User)

Internal I/O cable connector (S-2) type is RM15WTRZA-8S (with cap).
Matching connector type is RM15WTPZA-8P or the equivalent. (Provided by User)

View C(Scale=1/5)

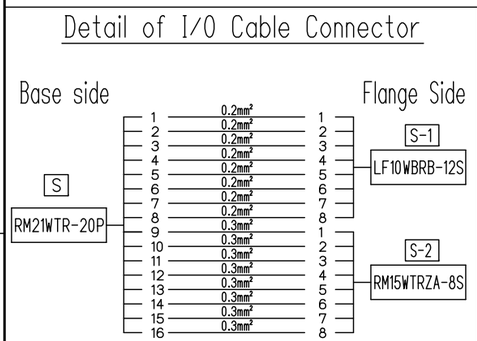


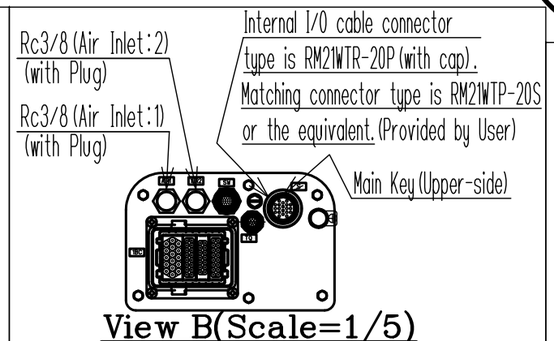


Item \ Model		Collaborative Robot MOTOMAN-HC20DT (Dust and Drip Proof)
Configuration		Vertically Articurated
Degree of Freedom		6
Payload		20kg
Repeatability *1		±0.15mm
Range of Motion	S-Axis (Turning)	-180° - +180° *3
	L-Axis (Lower Arm)	-180° - +180°
	U-Axis (Upper Arm)	-67° - +247°
	R-Axis (Roll)	-210° - +210°
	B-Axis (Pitch/Yaw)	-180° - +180°
	T-Axis (Twist)	-210° - +210°
Maximum Speed	S-Axis	1.40rad/s,80°/s
	L-Axis	1.40rad/s,80°/s
	U-Axis	2.09rad/s,120°/s
	R-Axis	2.27rad/s,130°/s
	B-Axis	3.14rad/s,180°/s
	T-Axis	3.14rad/s,180°/s
Allowable Moment	R-Axis	58.8N·m (6.0kgf·m)
	B-Axis	58.8N·m (6.0kgf·m)
	T-Axis	29.4N·m (3.0kgf·m)
Allowable Inertia ($GD^2/4$)	R-Axis	4.0 kg·m²
	B-Axis	4.0 kg·m²
	T-Axis	2.0 kg·m²
Approx. Robot Mass		140kg
Protected Structure		All axes: IP67
Cleanliness (Referance) *4		Equivalent to ISO Class 5
Mounting Method		Floor-mounted, Wall-mounted, Tilt-mounted, Ceiling-mounted
Ambient Conditions	Temperature	0 to 40° C
	Humidity	20 to 80%RH (Non-Condensing)
	Vibration	Less than 4.9m/s² (0.5G)
	Altitude	1000m or less
	Others	·Free from explosive and corrosive gas or liquid. ·Free from electrical noise. ·Free from strong magnetic fields.
Power Requirements		1.5kVA
Applicable Controller		YRC1000/YRC1000micro

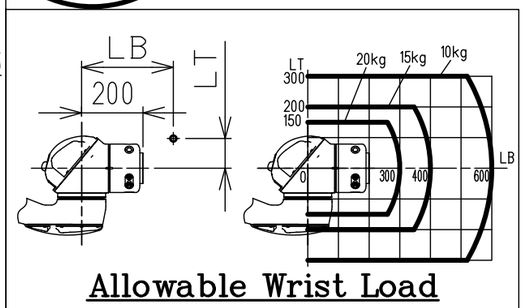
*1 Repeatability is conformed to ISO 9283.
*2 The manipulator is in the home position.
*3 When the manipulator is installed on a tilt or a wall, the motion of S-axis will be limited.
*4 Cleanliness is for reference and not guaranteed.
*5 Tolerance is applied only to 12 dia.+0.018 0 holes.

Detail of I/O Cable Connector

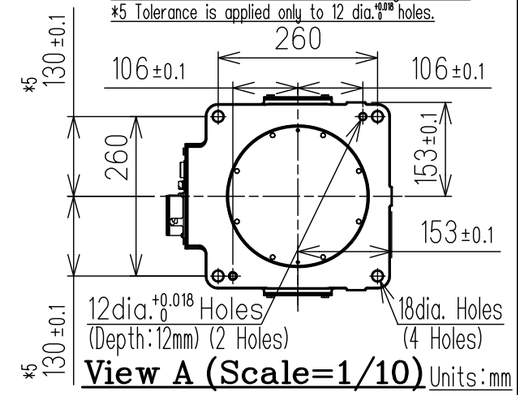




View B(Scale=1/5)



Allowable Wrist Load



View A (Scale=1/10) Units: mm

Note:
1. All rights reserved.
2. Please note that the data is subject to be deleted without advance notice.
3. No warranty is given in relation to the data including the specification.
4. We are not responsible for any damages or loss caused by the use of the data.

FOR STUDY PURPOSE ONLY

SCALE 1:20

YASKAWA
株式会社 安川電機

Reference Drawing

TITLE MOTOMAN-HC20DT (Dust and Drip Proof)
DIMENSION DIAGRAM

DRWN DATE Oct. 7. '19
DWG.NO. HW1386258

SIZE A3