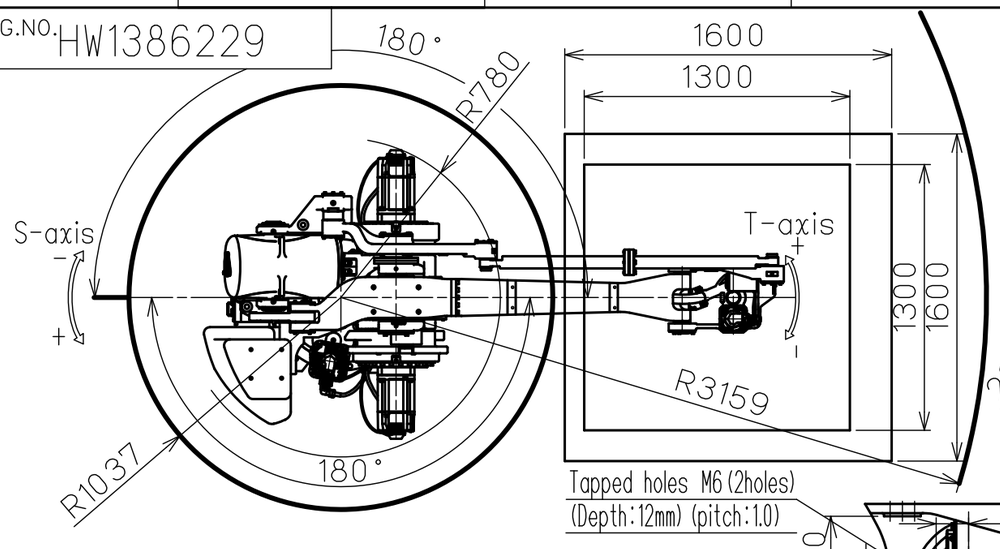
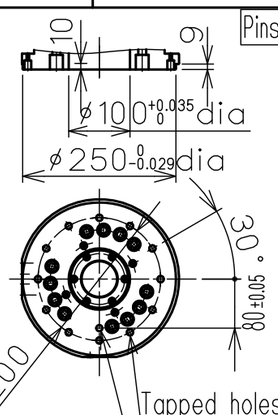
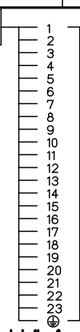
DWG.NO. HW1386229



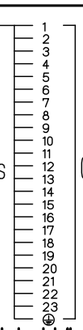


Pins used



0.5mm² x23pins

Pins used



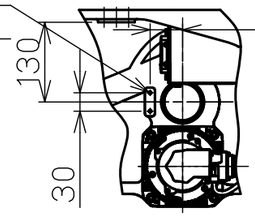
0.5mm² x23pins

Sockets details for internal user wiring harness (Base side)

Sockets details for internal user wiring harness (Wrist side)

Tapped holes M12 (12holes)
(Depth: 18mm) (pitch: 1.75)
10 +0.015 0 dia. (1hole)
(Depth: 10mm)

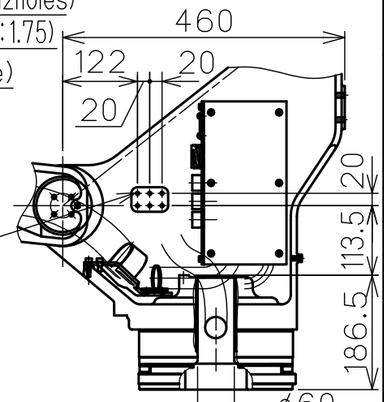
Tapped holes M6 (2holes)
(Depth: 12mm) (pitch: 1.0)



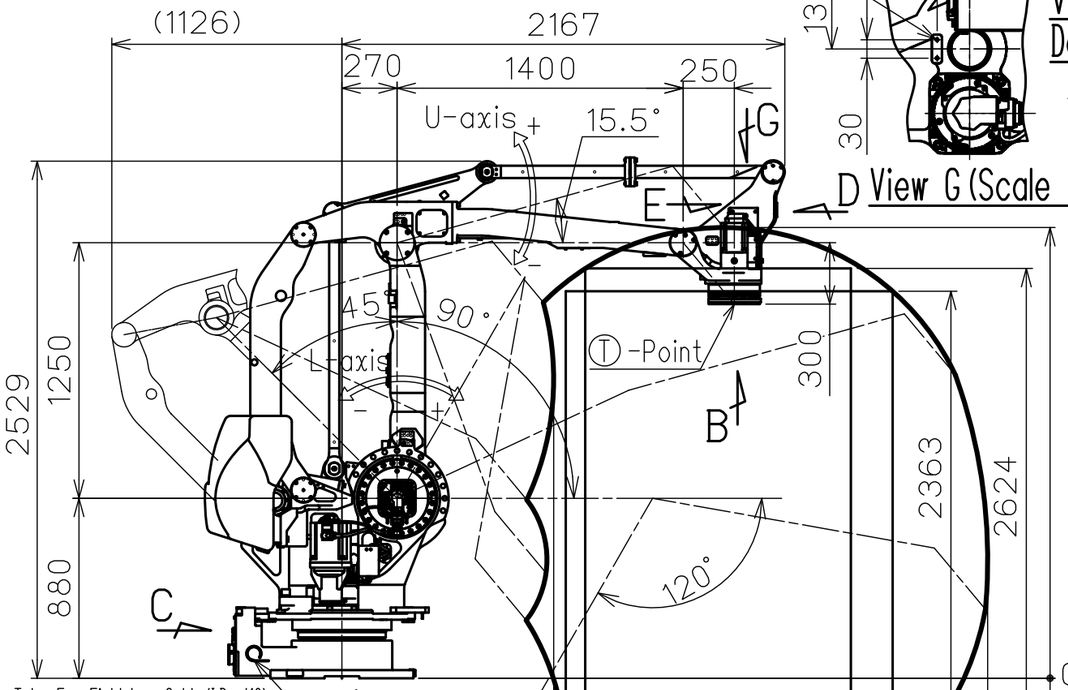
View B (Scale 1:10)

Detail of wrist frange

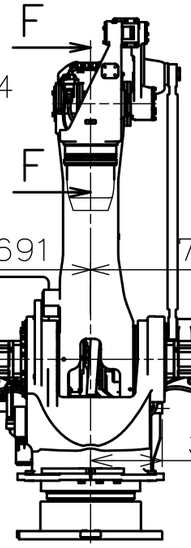
Tapped holes M6 (6holes)
(Depth: 15mm) (pitch: 1.0)

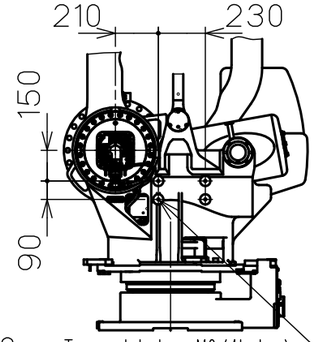


Cross Section F-F (Scale 1:10)



D View G (Scale 1:10)





Item \ Model		MOTOMAN-PL500
Configuration		Vertically articulated
Degree of Freedom		4
Payload	Wrist	500kg
Repeatability (※1)		±0.5 mm
Range of Motion	S-Axis (Turning)	-180° - +180°
	L-Axis (Lower Arm)	-45° - +90°
	U-Axis (Upper Arm)	-120° - +15.5°
	T-Axis (Twist)	-360° - +360°
Max Speed	S-Axis	1.48rad/s (85°/s)
	L-Axis	1.48rad/s (85°/s)
	U-Axis	1.48rad/s (85°/s)
	T-Axis	3.40rad/s (195°/s)
Allowable Inertia (GD²/4)	T-Axis	200kg·m²
Approx.Robot mass		2390 kg
Protected structure		Body: IP54 Wrist: IP54
Mounting method		Floor-mounted
Ambient Conditions	Temperature	0 to +45℃
	Humidity	20 to 80%RH (Non-condensing)
	Vibration	4.9m/s² (0.5G) or less
	Altitude	1000m or less
	Others	·Free from explosive or corrosive gas and liquid. ·Free from dust,soot,oil,or water. ·Free from electrical noise. ·Free from strong magnetic fields.
Power Requirements		8.0KVA
Controller		YRC1000

※1 Repeatabilitiy is conformed to ISO 9283.
※2 The manipulator is in the home position.

Type	Note
YR-1-04LXH500-A00	Standard

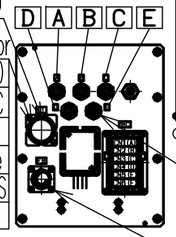
Units: mm

Tube For Field bus Cable (I.D. ø12)
(In Base)

Main key (Upper side)

Internal user wiring connector
(Base side)
type is JL05-2A24-28PC
(with cap)

Matching connector type
is JL05-6A24-28S
(provided by users)

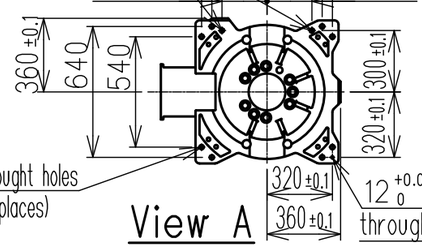


Air inlet Rc3/8
(A,B,C,D,E)
with pipe plug

Tube For Field bus Cable (I.D. ø12) (In Base)

View C (Scale 1:10)

20 +0.021 0 dia. (2holes)
through holes



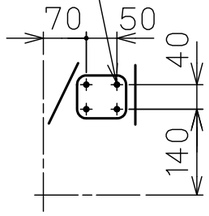
22dia throught holes
(2holes) (4places)

12 +0.018 0 dia.
through holes

View A

Tapped holes M8 (4holes)
(Depth: 15mm) (pitch: 1.25)

Tapped holes M12 (4holes)
(Depth: 20mm) (pitch: 1.75)

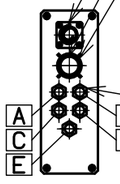


View D (Scale 1:10)

Tube For Field bus Cable (I.D. ø12)
(In Box)
Main key (Upper side)

Internal user wiring connector (Wrist side)
type is JL05-2A24-28SC (with cap)
Mating connector type is JL05-6A24-28P
(provided by users)

Air outlet Rc3/8
(A,B,C,D,E)
with pipe plug



View E (Scale 1:10)

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 :30

YASKAWA
株式会社 安川電機

Reference Drawing

TITLE MOTOMAN-PL500
DIMENSION DIAGRAM

DRWN DATE Jan.28.'19

DWG.NO. HW1386229

SIZE A3