

**YASKAWA**



**Real size, infinite possibilities**

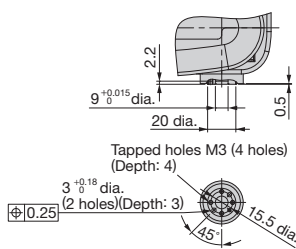
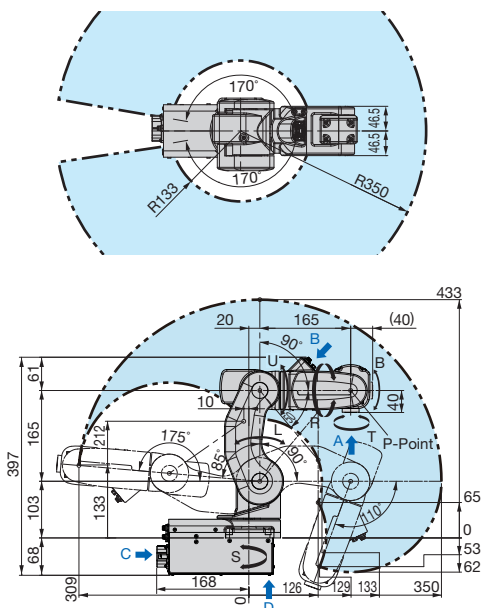
**NEW**



**Small Robot**

**Moto MINI**

Dimensions Units: mm  : P-point Maximum Envelope

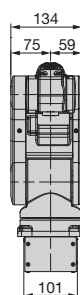


View A

Connector for internal user I/O wiring harness:  
DE-9SF-N  
Matching connector:  
DE-9PF-N  
(provided by users)

2×Air inlet (M5 tapped hole, with pipe plug)

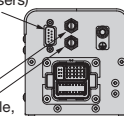
View B



View C

Connector for internal user I/O wiring harness:  
DE-9SF-N  
Matching connector:  
DE-9PF-N  
(provided by users)

2×Air inlet (M5 tapped hole, with pipe plug)



View D

Specifications		MotoMINI
Type		YR-1-06VX05-A00
Controlled Axis		6 (vertically articulated)
Payload		0.5 kg*4
Repeatability*1		±0.02 mm
Range of Motion	S-axis (turning)	-170° - +170°
	L-axis (lower arm)	-85° - +90°
	U-axis (upper arm)	-50° - +90°
	R-axis (wrist roll)	-140° - +140°
	B-axis (wrist pitch/yaw)	-30° - +210°
	T-axis (wrist twist)	-360° - +360°
Maximum Speed	S-axis (turning)	5.5 rad/s, 315°/s
	L-axis (lower arm)	5.5 rad/s, 315°/s
	U-axis (upper arm)	7.3 rad/s, 420°/s
	R-axis (wrist roll)	10.5 rad/s, 600°/s
	B-axis (wrist pitch/yaw)	10.5 rad/s, 600°/s
	T-axis (wrist twist)	10.5 rad/s, 600°/s
Allowable Moment	R-axis (wrist roll)	0.42 N·m (0.043 kgf·m)
	B-axis (wrist pitch/yaw)	0.42 N·m (0.043 kgf·m)
	T-axis (wrist twist)	0.37 N·m (0.038 kgf·m)

Specifications		MotoMINI
Allowable Inertia (GD <sup>2</sup> /4)	R-axis (wrist roll)	0.00378 kg·m <sup>2</sup>
	B-axis (wrist pitch/yaw)	0.00378 kg·m <sup>2</sup>
	T-axis (wrist twist)	0.00299 kg·m <sup>2</sup>
Approx. Mass		7 kg
IEC Protection Class		IP30
Ambient Conditions	Temperature	0°C to +40°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s <sup>2</sup> or less
	Others	<ul style="list-style-type: none"> <li>Free from corrosive gas or liquid, or explosive gas or liquid</li> <li>Free from exposure to water, oil, or dust</li> <li>Free from excessive electrical noise (plasma)</li> <li>Free from strong magnetic fields</li> </ul>
Power Requirements*2		0.5 kVA
Mounting*3		Floor, wall, ceiling, tilt

\*1: Conforms to ISO 9283.  
\*2: Varies in accordance with applications and motion patterns.  
\*3: There are motion limitations on S-axis for wall, tilt mounting type.  
\*4: Maximum payload is 1 kg when the T-axis faces downward.  
Note: SI units are used for the specifications.

Sales Department

## HEAD OFFICE

2-1 Kurosaki-Shiroishi, Yahatanishi-ku, Kitakyushu, Fukuoka 806-0004, Japan  
Phone: +81-93-645-7703 Fax: +81-93-645-7802

## YASKAWA America, Inc. (Motoman Robotics Division)

100 Automation Way, Miamisburg, OH 45342, U.S.A.  
Phone: +1-937-847-6200 Fax: +1-937-847-6277

## YASKAWA Europe GmbH (Robotics Division)

Yaskawastrasse 1, 85391, Allershausen, Germany  
Phone: +49-8166-90-100 Fax: +49-8166-90-103

## YASKAWA Nordic AB

Verkstadsгатan 2, Box 504, SE-385 25 Torsås, Sweden  
Phone: +46-480-417-800 Fax: +46-486-414-10

## YASKAWA Electric (China) Co., Ltd.

22F, One Corporate Avenue, No.222 Hubin Road, Huangpu District, Shanghai 200021, China  
Phone: +86-21-5385-2200 Fax: +86-21-5385-3299

## YASKAWA SHOUANG ROBOT CO., LTD.

No.7 Yongchang North Road, Beijing E&T Development Area China 100176  
Phone: +86-10-6788-2858 Fax: +86-10-6788-2878

## YASKAWA India Private Ltd. (Robotics Division)

#426, Udyog Vihar Phase-IV, Gurgaon, Haryana, India  
Phone: +91-124-475-8500 Fax: +91-124-475-8542

## YASKAWA Electric Korea Corporation

35F, Three IFC, 10 Gukjegeumyung-ro, Yeongdeungpo-gu, Seoul, Korea 07326  
Phone: +82-2-784-7844 Fax: +82-2-784-8495

## YASKAWA Electric Taiwan Corporation

12F, No.207, Sec. 3, Beishin Rd., Shindian District, New Taipei City 23143, Taiwan  
Phone: +886-2-8913-1333 Fax: +886-2-8913-1513

## YASKAWA Electric (Singapore) PTE Ltd

151 Lorong Chuan, #04-02A New Tech Park, Singapore 556741  
Phone: +65-6282-3003 Fax: +65-6289-3003

## YASKAWA Electric (Thailand) Co., Ltd.

59, 1st-5th Floor, Flourish Building, Soi Ratchadapisek 18, Ratchadapisek Road, Huaykwang, Bangkok 10310, Thailand  
Phone: +66-2-017-0099 Fax: +66-2-017-0199

## PT. YASKAWA Electric Indonesia

Secure Building-Gedung B Lantai Dasar & Lantai 1 Jl. Raya Protokol Halim Perdanakusuma, Jakarta 13610, Indonesia  
Phone: +62-21-2982-6470 Fax: +62-21-2982-6471

# YASKAWA

YASKAWA ELECTRIC CORPORATION

In the event that the end user of this product is to be the military and said product is to be employed in any weapons systems or the manufacture thereof, the export will fall under the relevant regulations as stipulated in the Foreign Exchange and Foreign Trade Regulations. Therefore, be sure to follow all procedures and submit all relevant documentation according to any and all rules, regulations and laws that may apply. Specifications are subject to change without notice for ongoing product modifications and improvements.

© 2017 YASKAWA ELECTRIC CORPORATION