

Feb. 2017

NEW

3m ARM WELDING ROBOT

The Arc Welding Robot System
TAWERS

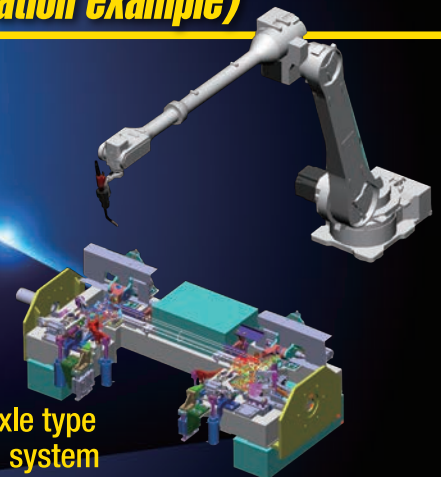
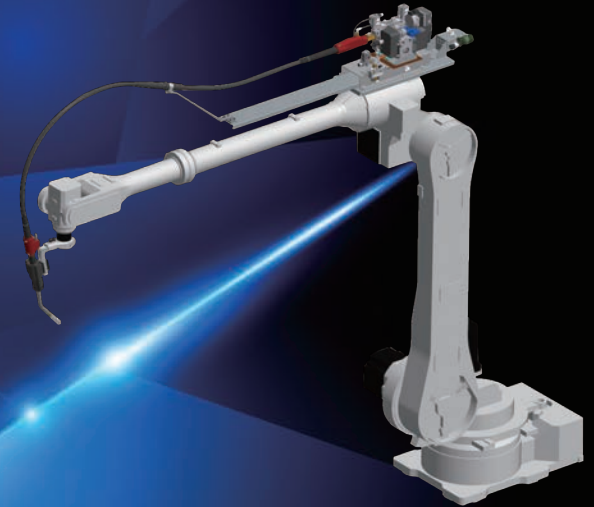
» *with Wire feeder*

» *Suitable for larger work
(application example)*

Payload
20 kg
HH020L



WGIII- HH020L



for Beam axle type
suspension system

[Maximum Reach for Welding : 3281mm]

» **TAWERS technologies "WGIII controller & Wire feeder" are adopted**

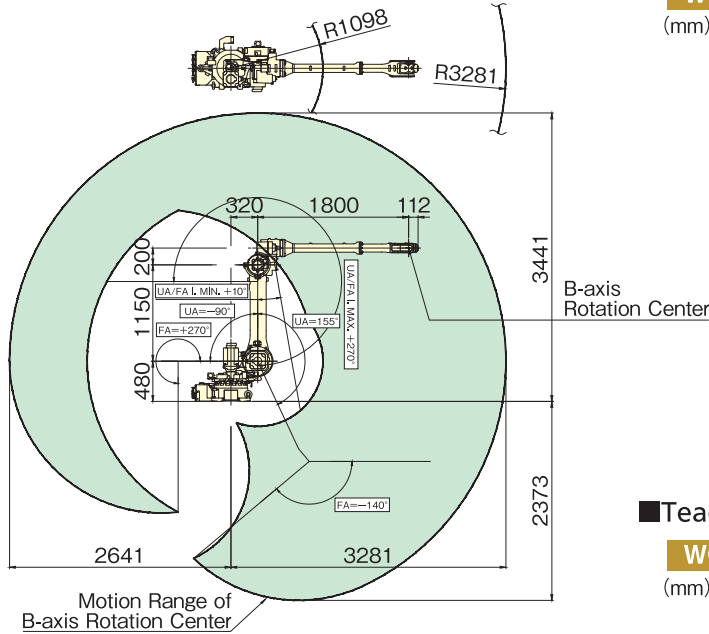
Realize almost same welding ability as the conventional standard TAWERS
Weaving function, Arc Sensor at groove, Extended Touch Sensor (groove start, groove width)

» **Realize the simple system (External axis is unnecessary)**

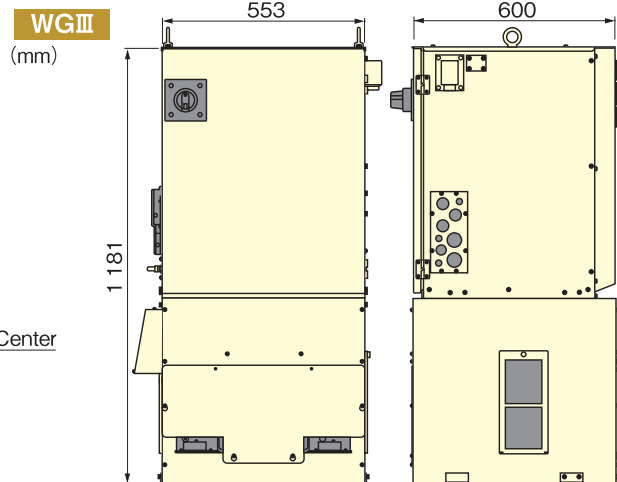
Dimensions & Work Envelope

(Unit: mm)

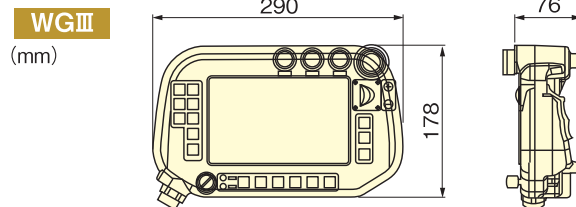
Long Type HH020L



Controller (with power unit)



Teach Pendant



Manipulator General Specifications

Model	HH020L	
Payload	20 kg	
Structure	6 axis articulated	
Working Range	RT (Rotating trunk)	±180°
	UA (Upper arm)	+180° ~ -65°
	FA (Forearm)	+260° ~ -160°
	RW (Rotating wrist)	±195°
	BW (Bending wrist)	±135°
	TW (Twisting wrist)	±360°
Max. Motion Speed	RT (Rotating trunk)	175°/s
	UA (Upper arm)	175°/s
	FA (Forearm)	180°/s
	RW (Rotating wrist)	360°/s
	BW (Bending wrist)	380°/s
	TW (Twisting wrist)	600°/s
Position Repeatability	±0.15 mm	
Maximum Reach	3 281 mm	
Weight (Approx.)	535 kg	

Controller / Welder Technical Specifications

Model	WGIII
Dimensions*	W 553 mm x D 600 mm x H 1181 mm
Weight**	163 kg
Memory Capacity	40 000 points
Position Control	Software servo control
External Memory	Teach Pendant: one SD memory card slot, two USB 2.0 ports (USB 2.0. Hi-Speed not supported)
Control Axes	6 axes simultaneously (Max. 27 axes)
Input and Output	Input: 40 points (Optionally expandable up to 2048 points) Output: 40 points (Optionally expandable up to 2048 points)
Input Power	3 phase, 200 V AC±20 V AC, 22 kVA, 50/60 Hz
Welding Process	CO ₂ / MAG / Stainless steel MIG / Pulse MAG / Stainless pulse MIG
Output Current Range	30 to 350 A DC
Output Voltage Range	12 to 36 V DC
Duty Cycle	CV: 80 % @ 350 A Pulse: 60 % @ 350 A

*Protruding portions not included. **Teach pendant and connection cable not included.

! Safety precautions ● Before attempting to use any welding product always read the manual to ensure correct use.

Panasonic Factory Solutions Company of America
1701 Golf Road, Suite 3-1200 Rolling Meadows, IL 60008 USA
TEL: 1-847-637-9700 FAX: 1-847-637-9601
http://www.panasonicfa.com

Panasonic Corporation
Process Automation Business Division, Business Innovation Center
1-1, 3-chome, Inazu-cho, Toyonaka, OSAKA 561-0854 Japan
TEL: 81-6-6866-8505 FAX: 81-6-6866-0709

● Specifications are subject to change without notice.
● Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Catalog No. **IRHH-WGIII**

Printed in Japan [2017.2] 1-001P