

## TS/TM/TL SERIES GIII

# INDUSTRIAL ROBOTS

Combination with full digital welding power source achieves stable and high quality



## TECHNICAL DETAILS

	TS SERIES		TM SERIES					TL SERIES		YS/HS/HH SERIES			
MODEL	TS-800	TS-950	TM-1100	TM-1400	TM-1600	TM-1800	TM-2000	TL-1800	TL-2000	YS-080	HS-220	HH-020	
MOTION RANGE (MM)	841	971	1100	1400	1600	1800	2000	1800	2000	2240	2666	3281	
PAYLOAD (KG)	8		6		4		6		8		20		
WORKING RANGE	RT (ROTATING TRUNK)	± 170°		± 170°					± 170°		± 180°	± 178°	± 180°
	UA (UPPER ARM)	- 70° ~+ 150°		- 90° ~+ 155°			- 90° ~+ 165°		- 90° ~+ 165°		- 80° ~+ 155°	+ 80° ~- 65°	- 90° ~+ 155°
	FA (FOREARM)	- 130° ~+ 225°		- 165° ~+ 210°	- 240° ~+ 195°	- 195° ~+ 240°		- 205° ~+ 240°		- 140° ~+ 230°		+ 230° ~- 130°	- 140° ~+ 270°
	RW (ROTATING WRIST)	± 190°		± 190°					± 270°		± 360°		
	BW (BENDING WRIST)	- 155° ~+ 60°		- 130° ~+ 110°					- 160° ~+ 95°		± 125°	± 128°	± 135°
	TW (TWISTING WRIST)	± 400°		± 400°					± 400°		± 360°		
	RT (ROTATING TRUNK)	326 °/s		225 °/s		210 °/s		195 °/s		170 °/s		120 °/s	175 °/s
MAX. MOTION SPEED	UA (UPPER ARM)	326 °/s		225 °/s		210 °/s		197 °/s		140 °/s		105 °/s	175 °/s
	FA (FOREARM)	510 °/s		225 °/s		215 °/s		205 °/s		160 °/s		110 °/s	180 °/s
	RW (ROTATING WRIST)	518 °/s		425 °/s		425 °/s		385 °/s		230 °/s		145 °/s	360 °/s
	BW (BENDING WRIST)	518 °/s		425 °/s		425 °/s		375 °/s		230 °/s		145 °/s	380 °/s
TW (TWISTING WRIST)	1040 °/s		629 °/s					624 °/s		350 °/s		220 °/s	600 °/s
POSITION REPEATABILITY (MM)	± 0.05		± 0.08 or less					± 0.10 or less		± 0.08 or less		± 0.15	± 0.08
BODY WEIGHT (APX.) (KG)	55	56	156	170	180	215	217	215	216	645	955	535	
INSTALLATION POSITION	FLOOR/CEILING/WALL		FLOOR/CEILING					FLOOR/CEILING		FLOOR			

## GIII CONTROLLER WITH HIGH PERFORMANCE



- Faster CPU reduces start-up time to about 30 seconds (50% reduction from previous model)
- Optional memory allows storing 800,000 teaching points in addition to the standard 40,000 points
- Teach pendant with enhanced operability
- Integrated Ethernet connection
- Optional Profi-Bus, Profi-Net, Link51, device-net communication

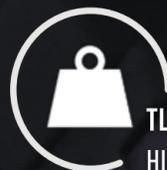
TS/TM/TL SERIES GIII

# INDUSTRIAL ROBOTS

Selectable from three torch types. Focused on wire feedability and reduced cable interference.



**TM SERIES -**  
TORCH TYPE SELECTABLE TO FIT YOUR  
APPLICATION: SEPERATE TYPE,  
THROUGH-ARM TYPE, EXTERNAL TYPE



**TL-SERIES - LONG-ARM &**  
**HIGH PAYLOAD**



**A VARIETY OF FEATURES**  
SPECIALIZED FOR ARC WELDING



**ENHANCED BASIC PERFORMANCE -**  
**INCREASED MOTION SPEED**



**ARM SPECIALIZED FOR WELDING -**  
CANTILEVER STRUCTURE MAKES ARM  
COMPACT AND IMPROVES  
ACCESSIBILITY TO WORKPIECES.



**STRUCTURE SPECIALIZED FOR**  
WELDING - CLEAN CABLE  
MANAGEMENT

**SIMPLY WELDING**  
**INDUSTRIAL ROBOTS**

