

# PANASONIC WELDING ROBOTS

## Panasonic

### THE TM / TL SERIES - A NEW GENERATION OF ROBOTS

The TM / TL robot series combines the benefits of the present TA and TB series. By the TM-Series you can freely decide whether to use an externally, internally or even separately mounted torch cable in accordance to your application.

Fully digital communication with Panasonic power sources



TM-1400

#### Networking

Connection / Communication via Ethernet (DeviceNet, Profibus and CC-Link possible) included.



#### Teaching pendant

Windows CE based, intelligent teaching pendant with 7 inch TFT colour display.



TL-1800

#### Controller

Enhanced performance processing by 64 bit CPU. Maximum of 27 axes can be simultaneously controlled.



TM-1100



TM-1400



TM 1800

experts in productivity

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## TM-Series

Specifications

Model 6 Axes	TM-1100	TM-1400	TM-1800
Payload (kg)	6	6	6
Max. Speed	RT Swivel	225°/s	195°/s
	UA For/Backward	225°/s	197°/s
	FA Up/Downward	225°/s	205°/s
	RW Rotation	425°/s	425°/s
	BW Bending	425°/s	425°/s
	TW Twisting	629°/s	629°/s
Max. Reach (mm)	1.163	1.437	1.809
Repeatability	± 0,08 mm or less		
Approximate Weight (kg)	156	170	215



TL-1800



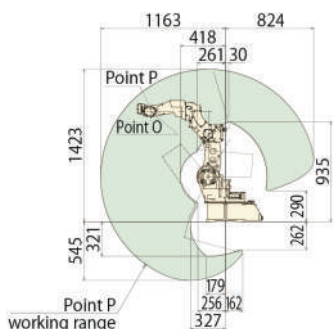
TL-2000

## TL-Series

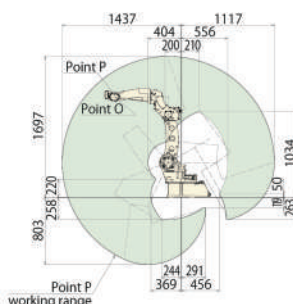
Specifications

Model 6 Axes	TL-1800	TL-2000
Traglast / Payload (kg)	8	6
Max. Speed	RT Swivel	195°/s
	UA For/Backward	197°/s
	FA Up/Downward	205°/s
	RW Rotation	385°/s
	BW Bending	375°/s
	TW Twisting	624°/s
Max. Reach (mm)	1.801	1.999
Repeatability	± 0,08 mm	± 0,15 mm
Approximate Weight (kg)	215	216

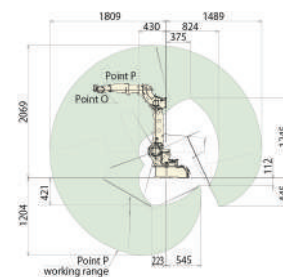
### TM-1100



### TM-1400

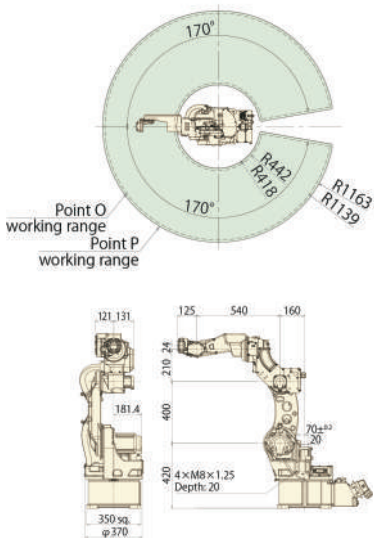


### TM-1800

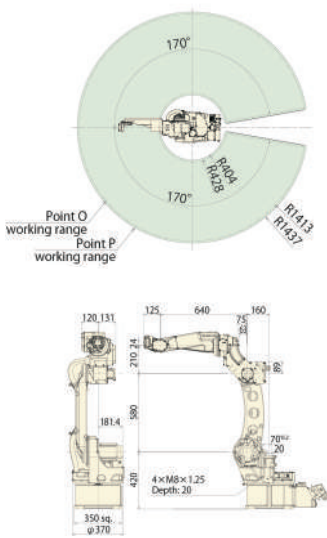


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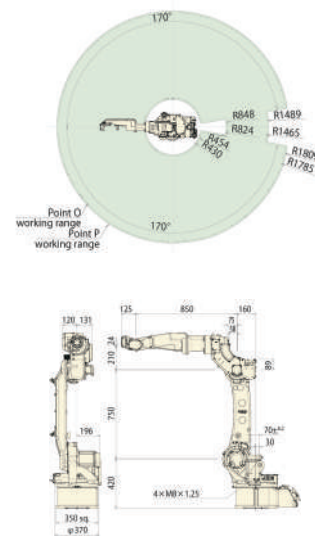
TM-1100



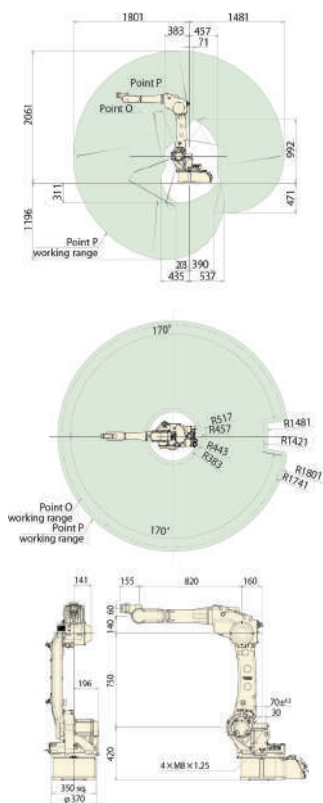
TM-1400



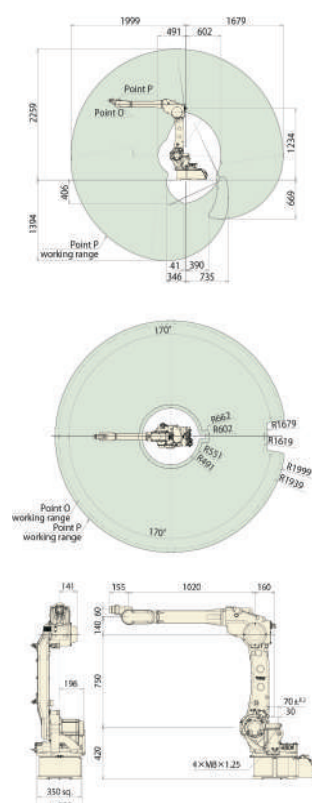
TM-1800



TL-1800



TL-2000



The benefits of the TM / TL Series in the overview:

- Highly rigid arm structure and more efficient servo motor offer more harmonious movements for the positioning of the welding torch
- Improved path accuracy (16 times higher than TA Series) thanks to highresolution encoder
- Increased axis speed by around 22% (compared to the TA Series)
- New torch safety holder with integrated safety shutdown for constant centre of the tool even by extreme cable assembly movements
- Wire feeding conduit can be wired through the robot stand to minimize the bend during fast movements of the robot