



**This welding robot series features an externally or internally mounted torch cable, and a high resolution encoder with a highly rigid arm.**

## **TM series**

Panasonic presents the TM Welding Robot Series, this being the all new and unique generation of robots. Customers have the possibility to decide freely whether to use an externally or internally mounted torch cable to match requirements of their applications. Additionally the robot series benefit from a highly rigid arm structure and an improved and efficient servo motor, which provides an enhanced harmonious movement for the positioning of the welding torch. With an all new high resolution encoder working in combination with the highly rigid arm, the TM robots provide improved path accuracy. Through this the TM robot fits optimally the requirements of a flexible and efficient welding process.

## TM series

<https://eu.connect.panasonic.com/pl/en/robot-welding/industrial-robots/tm-series>

<b>Payload</b>	TM 1100: 6kg
	TM 1400: 6kg
	TM 1600: 4kg
	TM 1800: 6kg
	TM 2000: 6kg
<b>Repeatability</b>	TM 1100: ± 0.08mm
	TM 1400: ± 0.08mm
	TM 1600: ± 0.08mm
	TM 1800: ± 0.08mm
	TM 2000: ± 0.10mm
<b>Weight</b>	TM 1100: 156kg
	TM 1400: 170kg
	TM 1600: 180kg
	TM 1800: 215kg
	TM 2000: 217kg
<b>Max. Reach</b>	TM 1100: 1.163mm
	TM 1400: 1.437mm
	TM 1600: 1.639mm
	TM 1800: 1.809mm
	TM 2000: 2.011mm
<b>Max. Speed Swivel</b>	TM 1100: 225°/s
	TM 1400: 225°/s
	TM 1600: 210°/s
	TM 1800: 195°/s
	TM 2000: 195°/s
<b>Max. Speed For/Backward</b>	TM 1100: 225°/s
	TM 1400: 225°/s
	TM 1600: 197°/s
	TM 1800: 197°/s
	TM 2000: 197°/s
<b>Max. Speed Up/Downward</b>	TM 1100: 225°/s
	TM 1400: 225°/s
	TM 1600: 205°/s
	TM 1800: 205°/s
	TM 2000: 205°/s
<b>Max. Speed Rotation</b>	TM 1100: 425°/s
	TM 1400: 425°/s
	TM 1600: 425°/s
	TM 1800: 425°/s
	TM 2000: 425°/s
<b>Max. Speed Bending</b>	TM 1100: 425°/s
	TM 1400: 425°/s
	TM 1600: 425°/s
	TM 1800: 425°/s
	TM 2000: 425°/s
<b>Max. Speed Twisting</b>	TM 1100: 629°/s
	TM 1400: 629°/s
	TM 1600: 629°/s
	TM 1800: 629°/s
	TM 2000: 629°/s