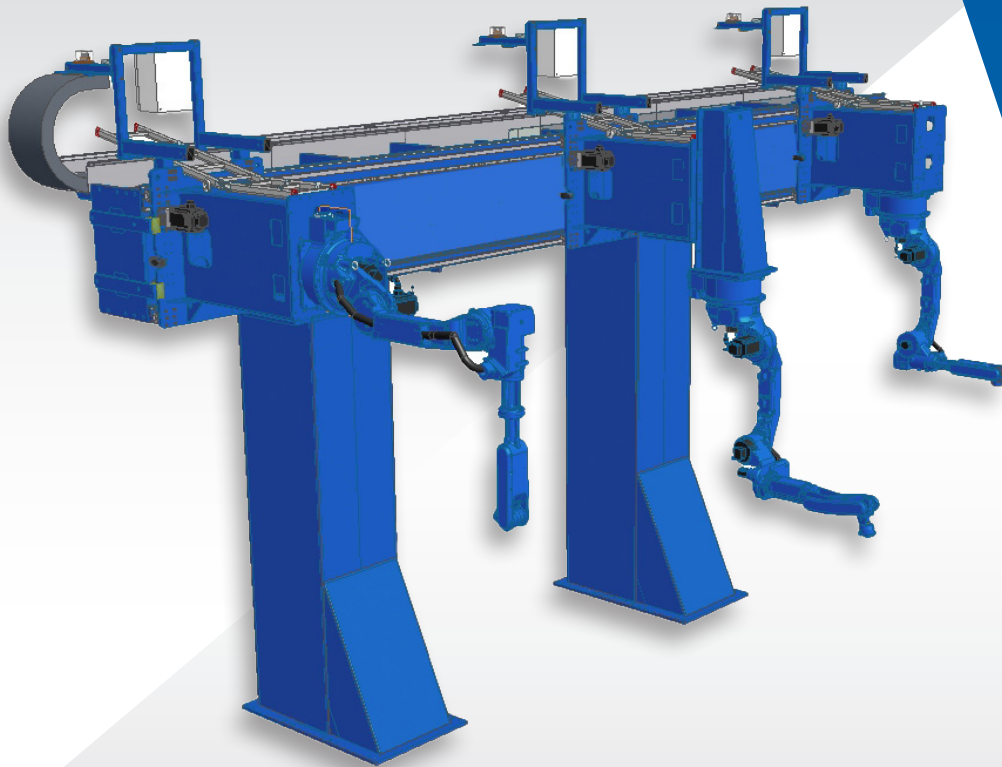


# YASKAWA

## TSG Gantry

Providing reliable and accurate extension of the robot's working area.



Controlled by  
YRC1000

New generation  
Sigma-7

# TSG-Y, TSG-YX, TSG-YZ and TSG-YZX

The TSG gantry is designed for reliable, accurate and economic robotic welding of very large components such as excavators, containers and earth moving equipment etc.

The TSG is built up by two and four meter modules to any desired length with a suitable number of supporting pillars. They are servo powered and fully synchronized with the robot controller.

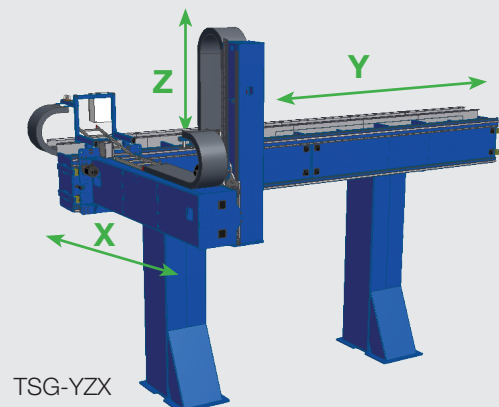
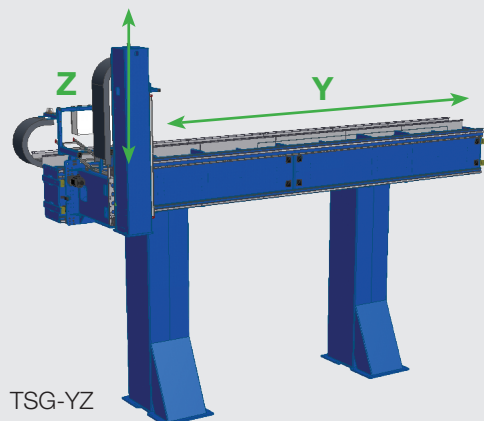
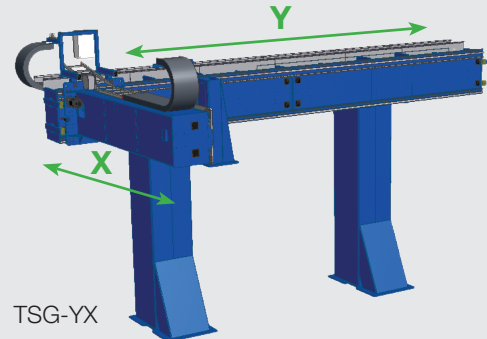
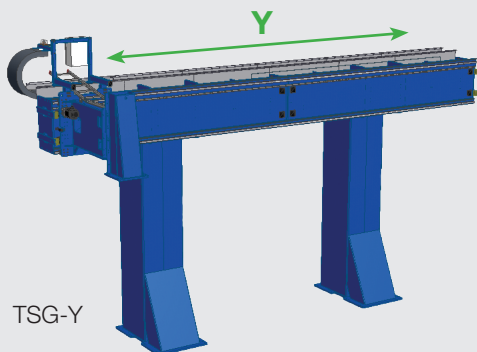
In twin systems, with several robots applied to the Y-beam, the robots can either work together or independent of each other.

## Key benefits

- Outstanding speed.
- Single or twin robots.
- Cost efficient.

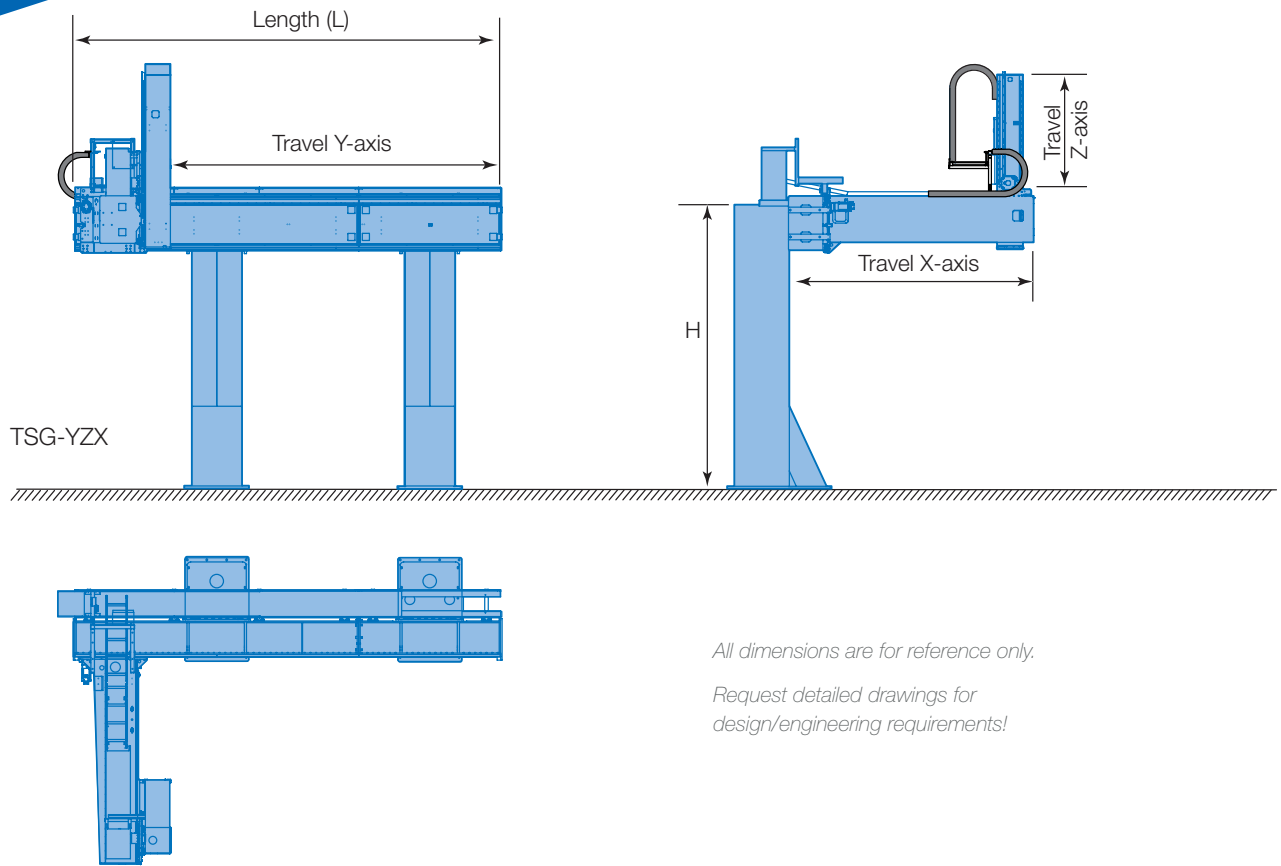
## Options

- Pillar height (H): 4300, 4600 or 4900 mm.
- Additional carriage.
- Zone limitations (up to four zones).
- Bracket mount for TSG-Y.
- Accompanying wire barrel.



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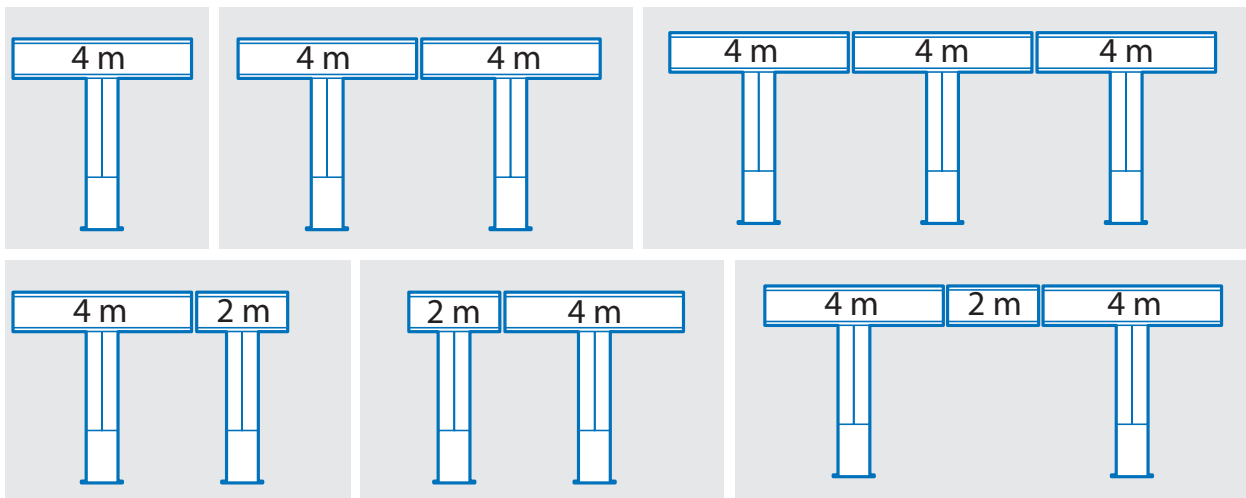
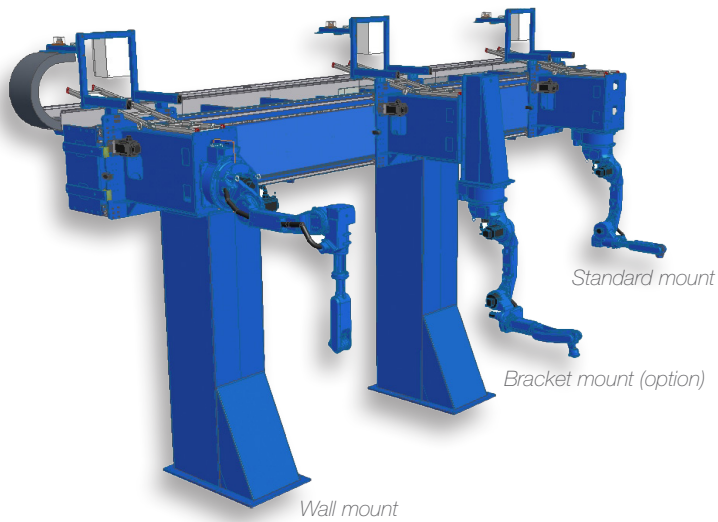
All dimensions are for reference only.

Request detailed drawings for design/engineering requirements!

Technical data	TSG-Y	TSG-YX	TSG-YZ	Standard TSG-YZX	XL TSG-YZX
<b>Y AXIS</b>					
<b>Travel length (TL)</b>	<b>L -975 mm</b>	<b>L -1100 mm</b>	<b>L -1100 mm</b>	<b>L -1100 mm</b>	<b>L -1100 mm</b>
<b>Standard length (L) in 2 meter steps</b>	4-24 m	4-24 m	4-24 m	4-24 m	4-24 m
<b>Standard pillar height</b>	4 meter	4 meter	4 meter	4 meter	4 meter
<b>Maximum speed</b> 50% duty cycle	1.56 m/s	1.56 m/s	1.56 m/s	1.56 m/s	1.56 m/s
<b>Acceleration</b>	1.48 m/s <sup>2</sup>	1.48 m/s <sup>2</sup>	1.48 m/s <sup>2</sup>	1.48 m/s <sup>2</sup>	1.48 m/s <sup>2</sup>
<b>Travel</b>	0.5 / 1.0 / 1.5 m 2.0 / 2.5 / 3.0 m 3.5 / 4.0 m	1.07 / 1.50 / 1.87 s 2.24 / 2.61 / 2.99 s 3.36 / 3.74 s	1.07 / 1.50 / 1.87 s 2.24 / 2.61 / 2.99 s 3.36 / 3.74 s	1.07 / 1.50 / 1.87 s 2.24 / 2.61 / 2.99 s 3.36 / 3.74 s	1.07 / 1.50 / 1.87 s 2.24 / 2.61 / 2.99 s 3.36 / 3.74 s
<b>X AXIS</b>					
<b>Travel length (TL)</b>		2000 mm		2000 mm	3100 mm
<b>Maximum speed</b> 50% duty cycle		1.50 m/s		1.50 m/s	1.50 m/s
<b>Acceleration</b>		1.76 m/s <sup>2</sup>		1.76 m/s <sup>2</sup>	1.76 m/s <sup>2</sup>
<b>Travel</b>	0.5 / 1.0 m 1.5 / 2.0 m	0.94 / 1.31 s 1.64 / 1.97 s		0.94 / 1.31 s 1.64 / 1.97 s	0.94 / 1.31 s 1.64 / 1.97 s
<b>Z AXIS</b>					
<b>Travel length (TL)</b>			1500 mm	1500 mm	1500 mm
<b>Maximum speed</b> 50% duty cycle			0.57 m/s	0.57 m/s	0.57 m/s
<b>Acceleration</b>			1.90 m/s <sup>2</sup>	1.90 m/s <sup>2</sup>	1.90 m/s <sup>2</sup>
<b>Travel</b>	0.5 / 1.0 / 1.5 m		1.22 / 2.09 / 2.97 s	1.22 / 2.09 / 2.97 s	1.22 / 2.09 / 2.97 s

# Pillar combinations & Robot mounting positions

## Robot mounting positions



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