TSG-yxz

TSG-y

TSG-yx

TSG-yz

■ Outstanding speed

■ Single or twin robots

■ Cost efficient

This is a gantry designed for reliable, accurate and economic welding solutions for large components such as excavators, containers and earth moving equipment etc. The TSG is servo powered and fully synchronized with the robot controller.

The TSG is built up by two and four meter modules to any desired length with a suitable number of supporting pillars. In the twin systems, with several robots applied to the Y-beam, the robots can work together or independant of each other.

Options
- Pillar height (H): 4300, 4600 or 4900 mm
- Additional carrier
- Zone limitations (up to four zones)
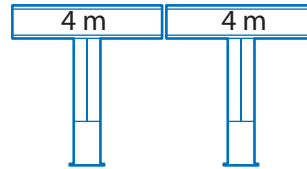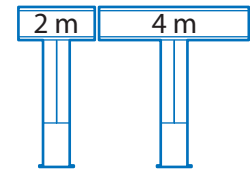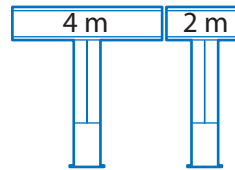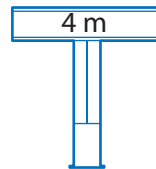- Bracket mount for TSG-y
- Accompaning wire barrel

Technical data			TSG-y	TSG-yx	TSG-yz	TSG-yxz
		y-axis				
Travel length		mm	L-975	L-1100	L-1100	L-1100
Standard length (L) in 2 meter steps		meter	4-24	4-24	4-24	4-24
Standard pillar height		meter	4	4	4	4
Maximum speed, 50% duty cycle		m/s	1.5	1.5	1.5	1.5
Acceleration		m/s^2	1.5	1.5	1.5	1.5
Travel	0.5 / 1.0 meter	s	1.24 / 1.72	1.24 / 1.72	1.24 / 1.72	1.24 / 1.72
Travel	1.2 / 1.5 meter	s	1.87 / 2.08	1.87 / 2.08	1.87 / 2.08	1.87 / 2.08
		x-axis				
Travel length		mm	--	2000	--	2000
Maximum speed, 50 % duty cycle		m/s	--	1.5	--	1.5
Acceleration		m/s^2	--	2.5	--	2.5
Travel	0.5 / 1.0 meter	s	--	0.98 / 1.35	--	0.98 / 1.35
Travel	1.2 / 1.5 meter	s	--	1.49 / 1.69	--	1.49 / 1.69
		z-axis				
Travel length		mm	--	--	1500	1500
Maximum speed, 20% duty cycle		m/s	--	--	0.5	0.5
Acceleration		m/s^2	--	--	1.25	1.25
Travel	0.5 / 1.0 meter	s	--	--	1.33 / 2.31	1.33 / 2.31
Travel	1.2 / 1.5 meter	s	--	--	2.70 / 3.29	2.70 / 3.29
Suitable for industrial robots			[1]	[2]	[3]	[3]

[1] MH6, MH6-10, HP20D, MA1400, MA1900, MA1800, MH50-20, MH50   [2] MH6, MH6-10, HP20D, MA1400, MA1900, MA1800
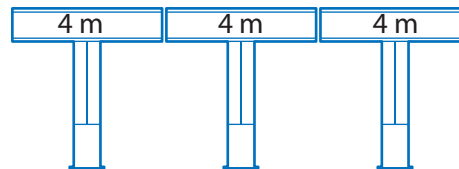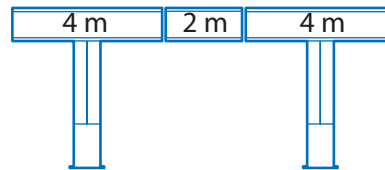
[3] MH6, MH6-10, HP20D, MA1400, MA1900

⚡ YASKAWA
MOTOMAN

TSG
Gantry

TSG-yxz

y-axis

x-axis
Travel 2000 mm

z-axis
Travel 1500 mm

H

4 m

| 4 m | 2 m | | 2 m | 4 m |

| 4 m | 4 m |

| 4 m | 2 m | 4 m |

| 4 m | 4 m | 4 m |
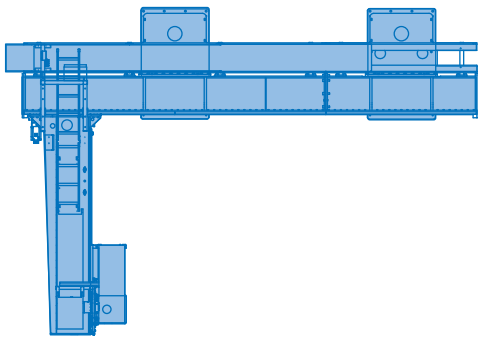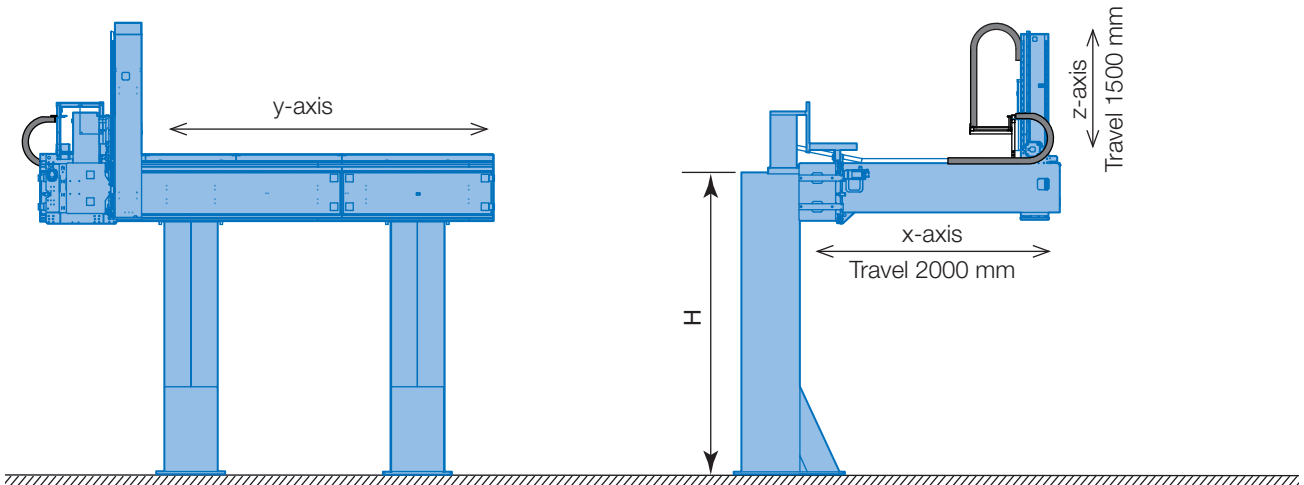
Possible mounting positions
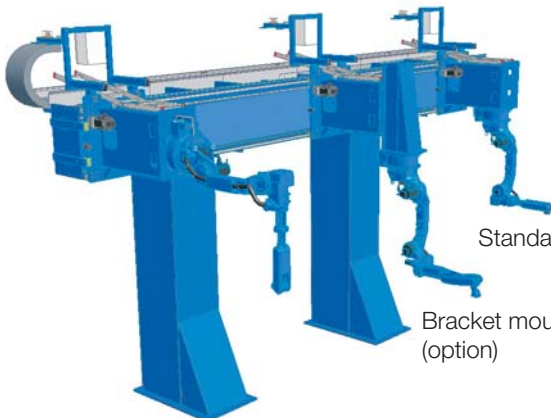
Standard mount

Bracket mount
(option)

Wall mount

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ISO 9001
BUREAU VERITAS
Certification
N° 146955