

TSG

Технические характеристики

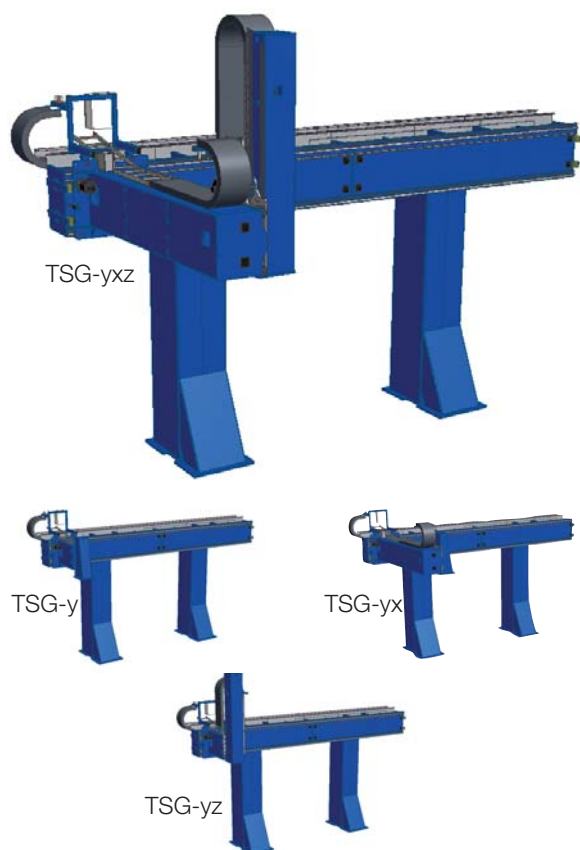
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- Outstanding speed
- Single or twin robots
- Cost efficient

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
- Accompanying wire barrel

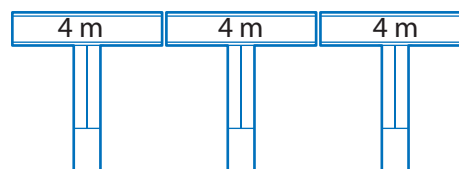
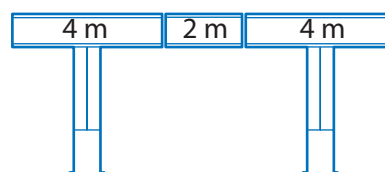
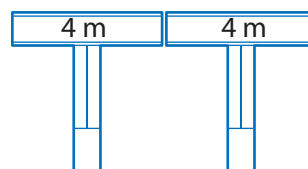
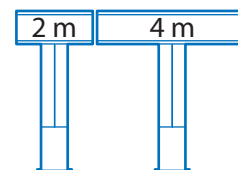
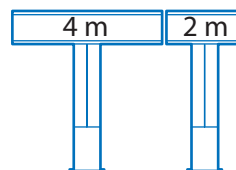
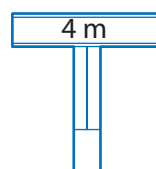
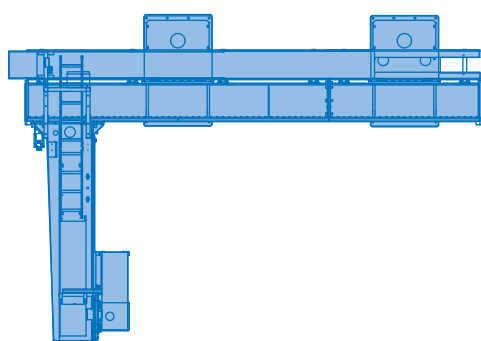
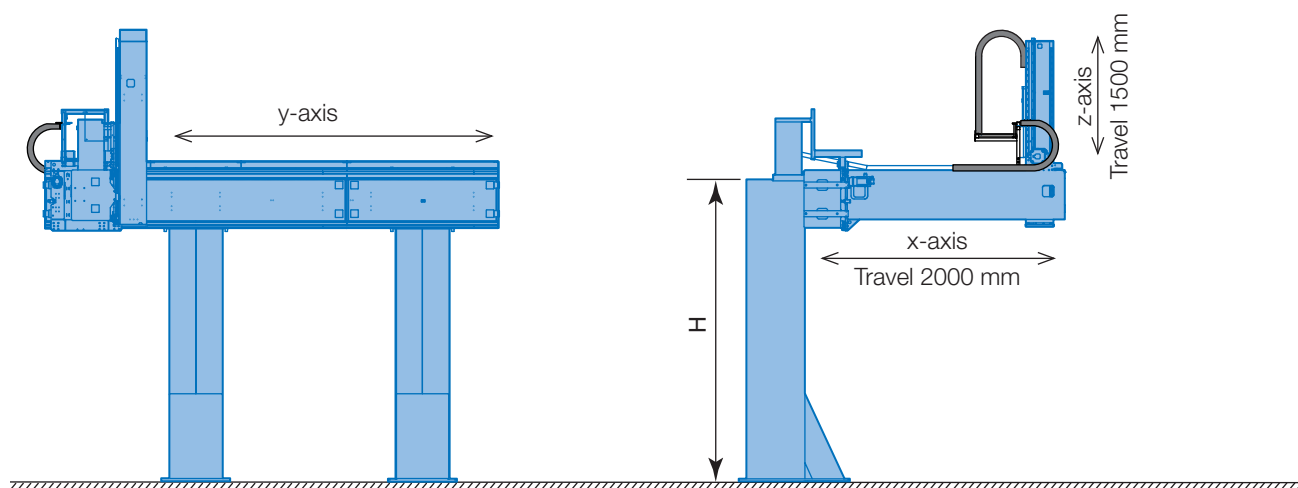
Technical data			TSG-y	TSG-yx	TSG-yz	TSG-yxz
<i>y-axis</i>						
Travel length	mm		L-975	L-1100	L-1100	L-1100
Standard length (L) in 2 meter steps	meter		4-24	4-24	4-24	4-24
Standard pillar height	meter		4	4	4	4
Maximum speed, 50% duty cycle	m/s		1.5	1.5	1.5	1.5
Acceleration	m/s ²		1.5	1.5	1.5	1.5
Travel	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
<i>x-axis</i>						
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
<i>z-axis</i>						
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

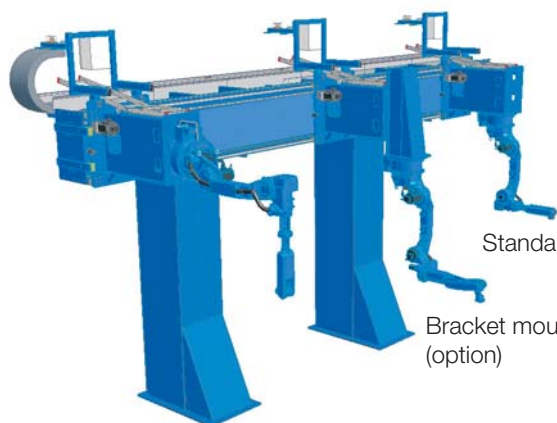
²⁾ MH6, MH6-10, HP20D, MA1400, MA1900, MA1800

³⁾ MH6, MH6-10, HP20D, MA1400, MA1900

TSG-yxz



Possible mounting positions



Wall mount

Standard mount

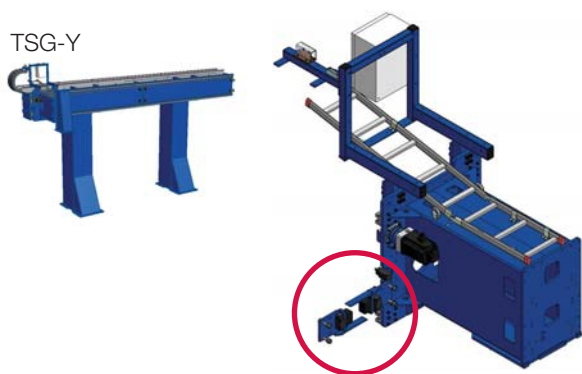
Bracket mount
(option)

Additional carriage

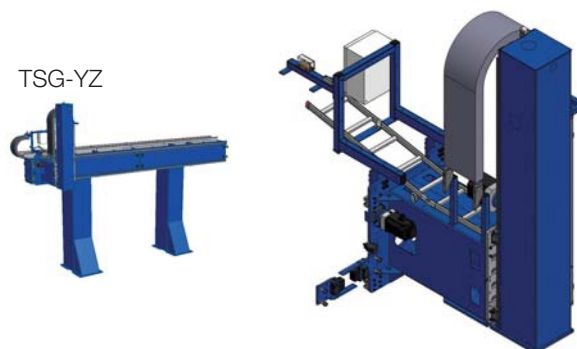
Additional carriage with built-in (mechanical and electrical) protection against collision with the other carriage.

Y-carriage.	KN71.1
YX-carriage.	KN73.1
YZ-carriage.	KN75.1
XYZ-carriage	KN77.1

TSG-Y



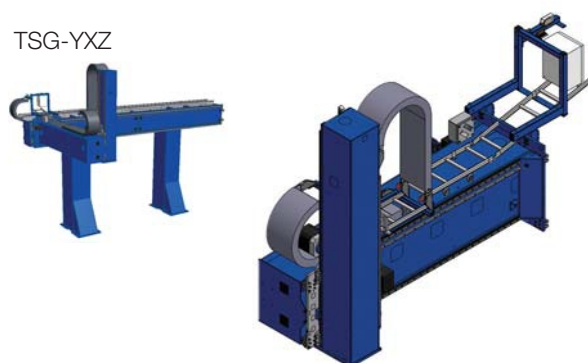
TSG-YZ



TSG-YX



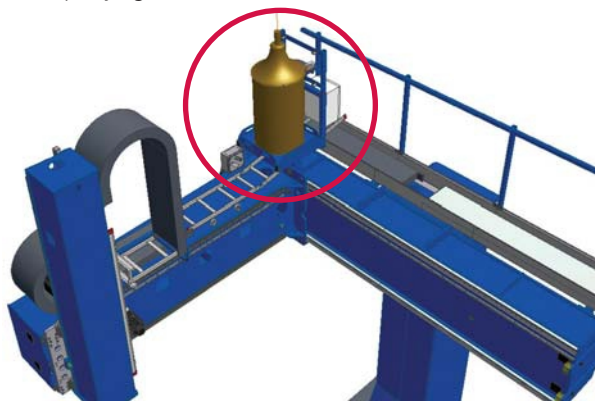
TSG-YXZ



Accompanying wire barrel

Prevent wire feeding troubles with an accompanying wire barrel that will follow the robot.

Accompanying wire barrel	KN87
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Robot bracket

The robot bracket makes it possible to adjust the robot's position (height and distance from the beam) prior to installation.

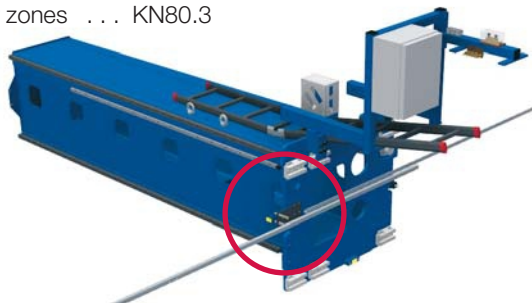
Robot bracket	KN83
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Zone monitoring

When the robot is working in one station, you can make sure human operators are safe in other parts of the cell. The safety sensor will break the circuit if the robot is moving out of its designated zone.

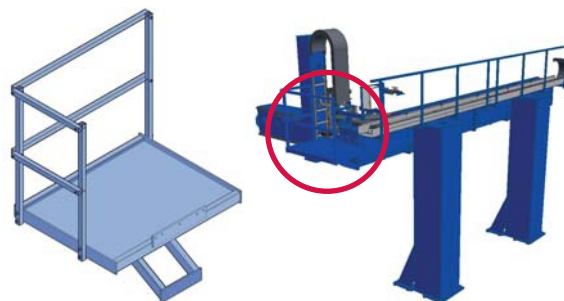
Two zones KN80.1
Three zones . . . KN80.2
Four zones . . . KN80.3



Service platform

A practical platform for service and programming. Depending on where you put the railing, the platform can be mounted on either end (left or right) of the gantry's Y-beam. Size 1010x1240 mm.

Service platformKN81



Ladder to service platform

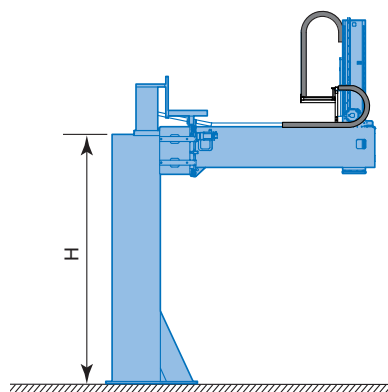
With a safety railing on top to prevent accidental falls. Delivered in a length that corresponds to the height of the gantry.

Ladder to service platformKN92



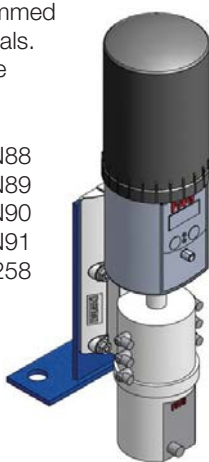
Pillar height (mm)

H = 4300 KN94
H = 4600 KN95
H = 4900 KN96



Automatic lubrication for the rails
Facilitate maintenance with an automatic lubrication unit that can be programmed to dispense grease at suitable intervals. Replace the whole grease cartridge when empty.

Y-railsKN88
YX-railsKN89
YZ-railsKN90
YXZ-railsKN91
Grease cartridge (500 ml) . 6045258



Automatic lubrication for the rack
Facilitate maintenance with an automatic lubrication unit that can be set to dispense grease at suitable intervals.

Y-pinionKN84
X-pinion KN85
Z-pinion KN86



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