

## Specifications

The SGS 700 family is a Heavy-Duty gantry solution for bigger robots up to 700 kg weight including end effector, on the 3-axis version.

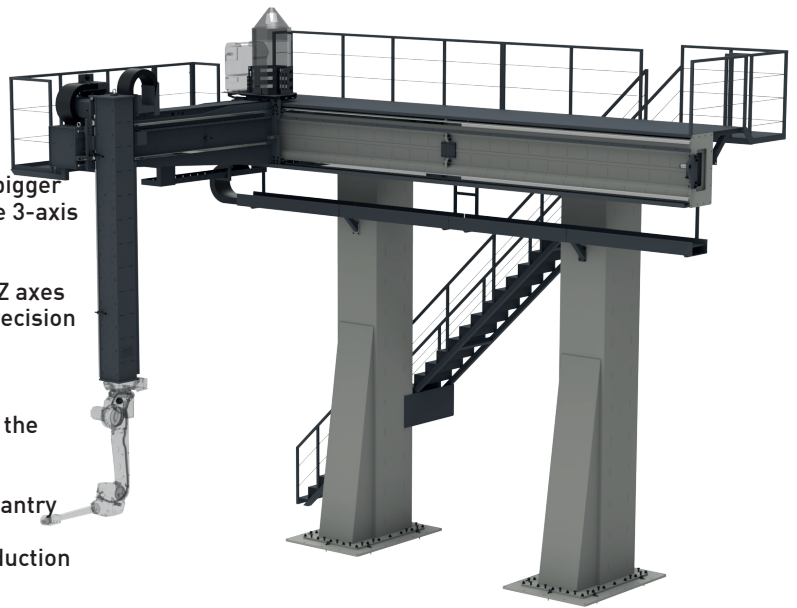
This gantry is equipped with balls crew drives on X and Z axes to increase the accuracy. This make it useful for high precision applications like laser cutting.

The gantry has new designed, low weight, high strength welded steel structure that make it possible to improve the performance drastically.

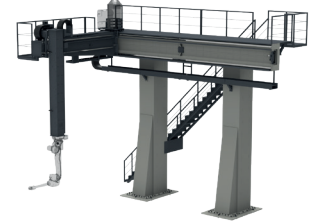
The design also makes it possible to manufacture this gantry to a low cost that will keep the price to customer low. We are using state of art linear guiding systems and reduction gearboxes.

There is a wide working range. It's possible to use up to 3 robots on the same gantry system. 1-3 axis options are available.

Wire barrel and welding unit carried on X axis body. To reduce the max. height of the gantry, a Telescopic Z axis is optional.



XYZ Axes



XY Axes



XZ Axes



X Axes



### SGS-700-LT LIGHT OVER HEAD GANTRY

AXES CONFIGURATIONS	X, XY, XYZ, XZ	S- Standard Version		L - Long Arm Version	
<b>X AXES</b>	Max payload	3.000	kg	3.000	kg
	Max allowable extra load (includes Y, Z and rotary axes extra loads)	600	kg	600	kg
	X module lengths	2-3-4	m	2-3-4	m
	Stroke range	1-39	m	1-39	m
	Length range (as uniting of 2m, 3m, and 4m modules)	2-40	m	2-40	m
	Max speed	1.2	m/s	1.2	m/s
Average speed	1	m/s	1	m/s	
<b>Y AXES</b>	Max payload	2.000	kg	2.000	kg
	Max allowable extra load (includes Z axes extra load)	250	kg	250	kg
	Stroke range	1.5, 2	m	2.5, 3	m
	Max speed	1.2	m/s	1.2	m/s
	Average speed	1	m/s	1	m/s
<b>Z AXES</b>	Max payload	700	kg	300	kg
	Max allowable extra load	20	kg	20	kg
	Stroke range	1.5 - 2	m	2.5 - 3	m
	Max speed	0.3	m/s	0.4	m/s
	Average speed	0.25	m/s	0.35	m/s
<b>FLANGE HEIGHT</b>	End flange height from the floor	3-6	m	4-7	m
	Repeatability	0.05	mm	0.05	mm

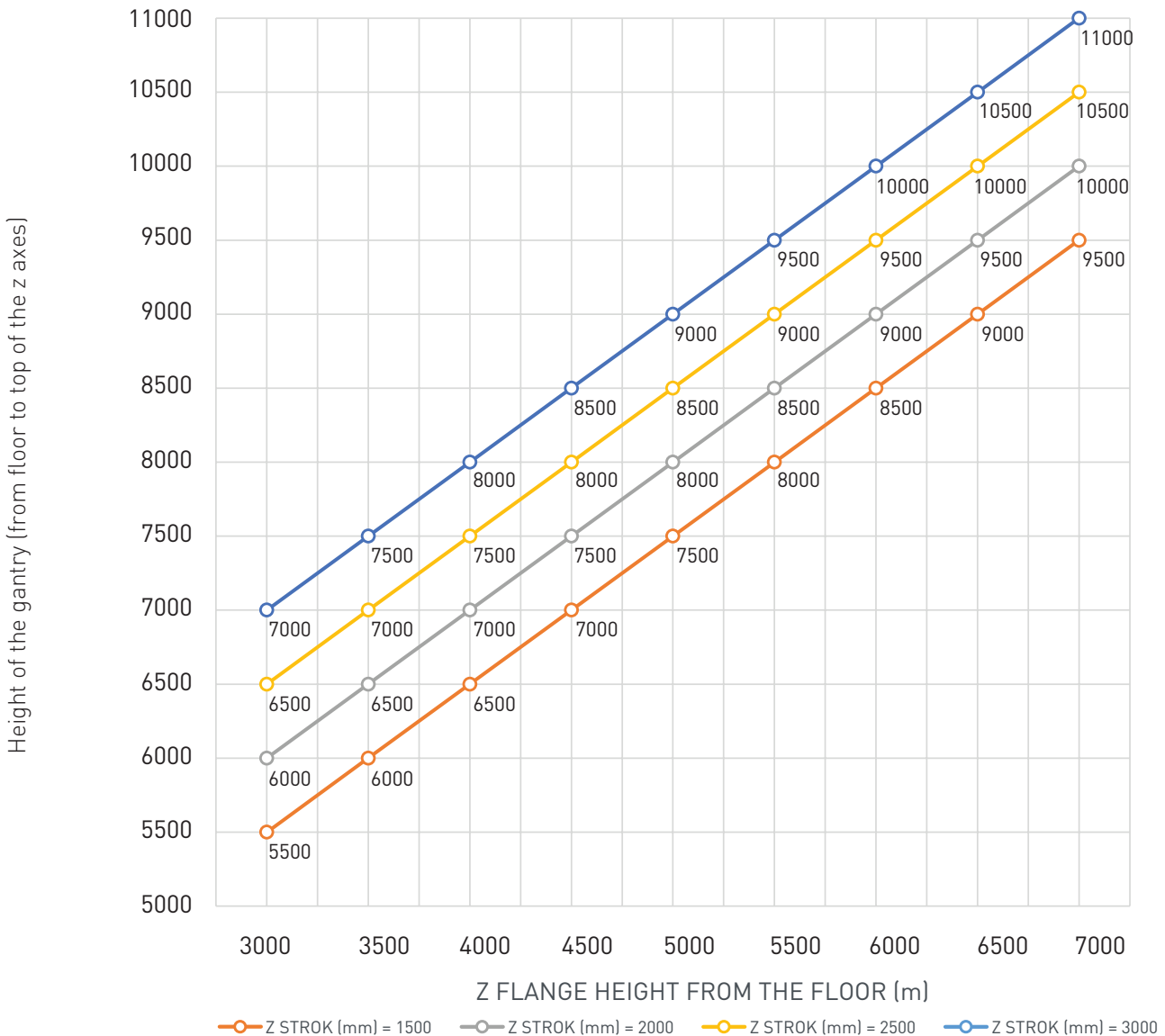
Technical data is subject to change without prior notice.

### Options

- INA, HIWIN, SCHNEEBERGER, REXROTH Linear Guiding Systems.
- Coated rollers, guideways and racks.
- Linear carriages auto lubrication.
- Telescopic Z axes.
- Ball screw drive option at Y axes.
- Ball screw drive option at Z axes.
- Limit switch option.
- Zone switches.
- Automatic lubrication unit (guides and rack).

- Automatic lubrication unit (only rack).
- 300mm wide cable track (default 200mm).
- Cable chain dividers.
- Enclosed cable chain.
- Robot integration.
- Welding package carriages.
- Standart Service platform.(ladder with barriers)
- Advanced Service platform.(stair with walking platforms)
- Robot Control Unit Carriage.
- Special color of paint.

### SGS-700 GANTRY MAX HEIGHT GRAPHICS



### Suitable Robots Depend to Gantry Axes Configuration

Given robots are heaviest robots that can be carried by gantry depend to gantry axes configuration. Lighter than given robot can be carried as well.

AXES CONFIGURATIONS	MAX TOTAL PAYLOAD (kg)	EXTRA MOVING LOAD (kg)	ALLOWABLE ROBOT WEIGHT (kg)	HEAVIEST ROBOT THAT CAN BE CARRIED BY GANTRY		
				FANUC	KUKA	ABB
X	3000	600	2400	R-2000	KR FORTEC	IRB-7600
XY	2000	250	1750	R-2000	KR QUANTEC	IRB-6700
XZ	700	20	700	M710 (all series)	KR30 (all series)	IRB-4600
XYZ	700	20	700	M710 (all series)	KR30 (all series)	IRB-4600