



Specifications

The SGS-150-LT version is the most compact member of the TDRi over head gantry family.

It can carry robots up to 1200 kg on the X axis and 650 kg on the Y axis.

If the object to be transported is not a robot but a workpiece, a payload of up to 1500 kg on the X axis and 750 kg on the Y axis is allowed.

When the Z axis is added, it can carry robots of all brands with standard arm length and a carrying capacity of less than 10 kg, or workpieces up to 150 kg with extremely high speed and precision.

XYZ Axes



XY Axes



XZ Axes



X Axes



SGS-150-LT LIGHT OVER HEAD GANTRY			
AXES CONFIGURATIONS	X, XY, XYZ, XZ		
X AXES	Max payload	1.500	kg
	Max allowable extra load (includes Y, Z and rotary axes extra loads)	300	kg
	X module lengths	2-3-4	m
	Stroke range	1-39	m
	Length range (as uniting of 2m, 3m, and 4m modules)	2-40	m
	Max speed	1.7	m/s
	Average speed	1.4	m/s
Y AXES	Max payload	750	kg
	Max allowable extra load (includes Z axes extra load)	100	kg
	Stroke range	1.5 - 2	m
	Max speed	1.7	m/s
	Average speed	1.4	m/s
Z AXES	Max payload	150	kg
	Max allowable extra load	20	kg
	Stroke range	1.5 - 2	m
	Max speed	0.7	m/s
	Average speed	0.5	m/s
FLANGE HEIGHT	End flange height from the floor	2-4.5	m
	Repeatability	0.05	mm

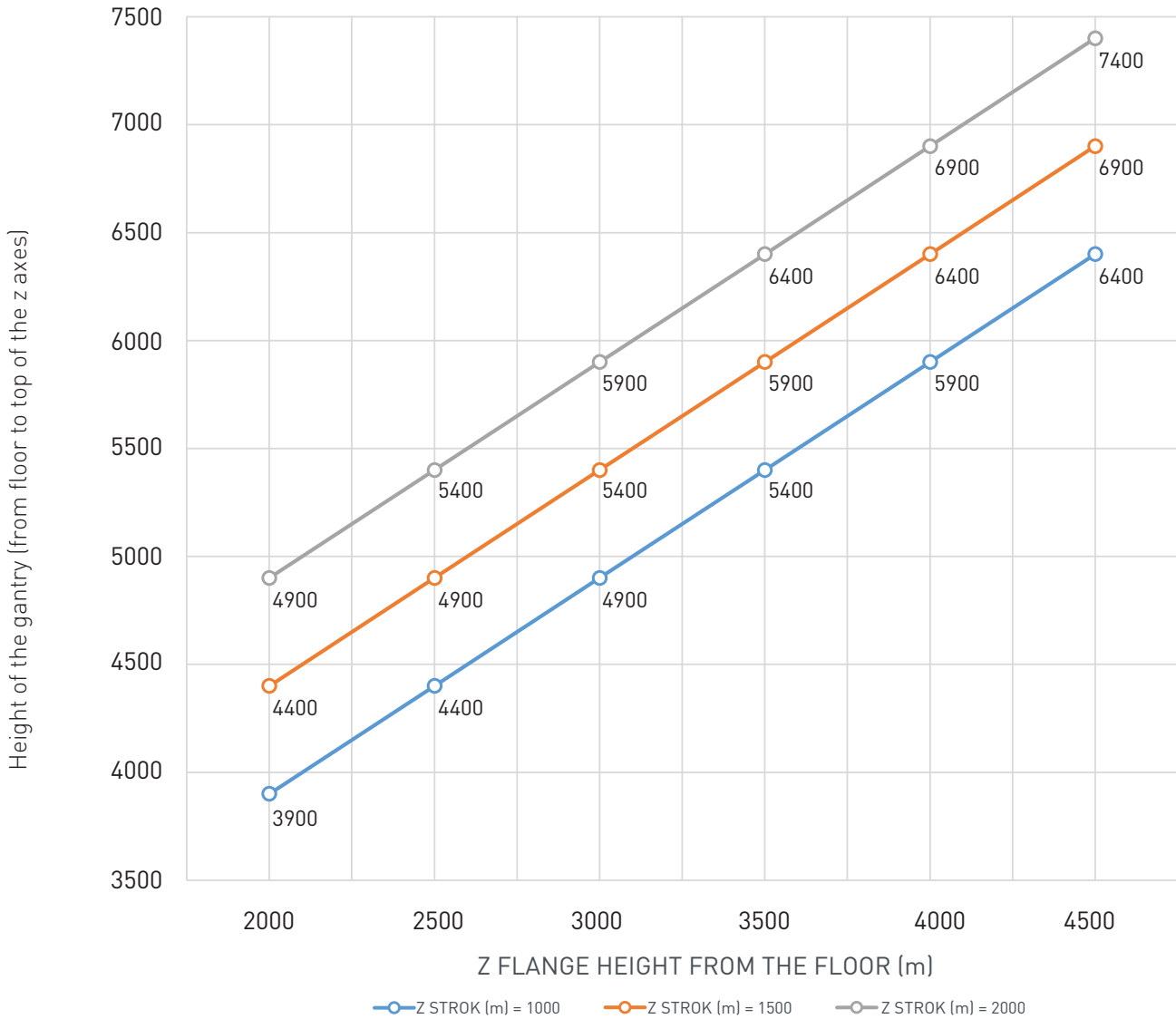
Technical data is subject to change without prior notice.

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-150 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	1500	300	1200	M-800	KR QUANTEC PRO	IRB-6620
XY	750	100	650	M710-iC-50T	KR30 (all series)	IRB-4600
XZ	150	20	150	M10 iD 10L	KR5 arc	IRB-1520
XYZ	150	20	150	M10 iD 10L	KR5 arc	IRB-1520