



# ROSTEK GANTRY SYSTEMS



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Gantries are always built according to customer needs and the design is optimized for that environment. A well-designed gantry provides easy access to skylights and ceilings without disturbing the operations in the building or compromising the architecture. Gantries are divided into three groups: straight, inclined and curved gantries. These categories determine the structure and complexity of the gantry. Each type can be fitted with multiple accessories to provide good accessibility.





## Straight gantries



<b>MATERIALS</b>	Aluminium, HDG Steel
<b>COLOUR</b>	Anodised Aluminium, HDG Steel or RAL Colour
<b>POWER SUPPLY</b>	Manual or Electric drive 3 phase, 400V/50Hz
<b>DESCRIPTION</b>	Straight Gantries are Rostek's Standard Gantries. These can be up to 16m long and they can be installed on top of track lines or suspended from under them. Straight Gantries can be customized with multiple options such as BMU track line at the bottom of the gantry, foldable and movable tower inside the gantry and telescopic end to make the gantry extendable.



## Inclined Gantries



<b>MATERIALS</b>	Aluminium, HDG Steel
<b>COLOUR</b>	Anodised Aluminium, HDG Steel or RAL Colour
<b>POWER SUPPLY</b>	Manual or Electric drive 3 phase, 400V/50Hz
<b>DESCRIPTION</b>	Inclined Gantries are special gantries that are custom built for each destination. They can be installed on top of track lines or suspended from under them. Inclined gantries can be customized with multiple options such as foldable and movable tower inside the gantry and telescopic end to make the gantry extendable.







## Curved Gantries



<b>MATERIALS</b>	Aluminium, HDG Steel
<b>COLOUR</b>	Anodised Aluminium, HDG Steel or RAL Colour
<b>POWER SUPPLY</b>	Manual or Electric drive 3 phase, 400V/50Hz
<b>DESCRIPTION</b>	Curved Gantries are demanding and unique gantries. They can be installed on top of track lines or suspended from under them. Curved Gantries can be customized with multiple options such as foldable and movable tower inside the gantry and telescopic end to make the gantry extendable.







## GANTRY ACCESSORIES

Gantries can be equipped with accessories to provide even better accessibility and reach. These accessories can be fitted to almost every gantry type.

### Tower

A tower is a common accessory in Rostek gantries. A tower provides better reach upwards or downwards from the gantry. The tower traverses on twin tracks inside the gantry and it can be folded away when not used. The tower can also be telescopic, which makes it ideal for accessing any inclined ceilings.

### BMU-cradle / Suspended Platform

A gantry can also have a monorail for a BMU cradle. The track is installed to the bottom of the gantry and the cradle is suspended from it. With the cradle, it is possible to access the interior facades or object within the atrium void.

### Telescopic extension

A gantry can be equipped with a telescopic unit. This means that the gantry can be extended and pulled back in from one end or both ends. The telescopic extension for the gantry provides access for atria with variable shapes.

### Climbing trolleys

Regular trolleys work with horizontal track lines. Gantries must be equipped with special climbing trolleys if the track line is inclined or there are slopes. With the climbing trolley the gantries can be used in every building.







## ROSTEK GANTRY INSTALLATION

Rostek gantries can be installed below or above the track lines. The track profile decision is made according to the installation environment, possible bracket spans and size and load of the gantry.

### Suspended from tracks

Rostek Gantries are suspended from the tracks in both ends of the gantry or installed above the gantry. Suspension can be done from all Rostek Monorail tracks. The photo below shows an inclined gantry which is suspended from RS133D tracks.

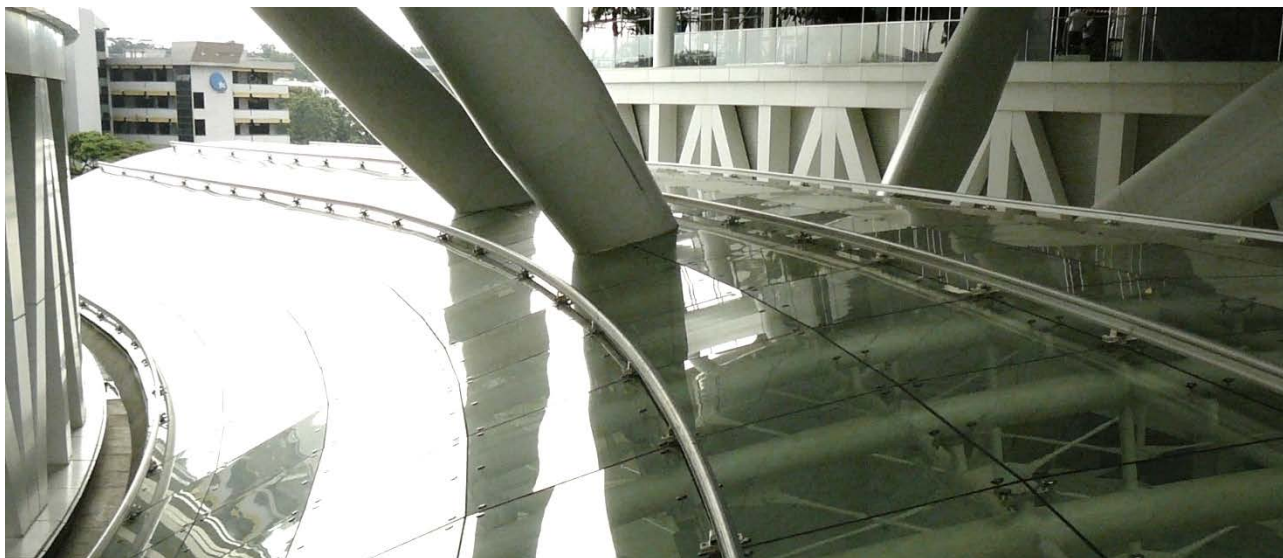


TRACK TYPE	RS110	RS162	RS111	RS133	RS133D	RS163	RS127	RS137
DIMENSIONS (mm)	110x74	162x76	111x52	133x53	133x52	163x52	127x44	137x50
WEIGHT (kg)	5.4	8.0	3.7	4.9	5.9	7.1	5.4	6.7
MIN. BENDING RADIOUS (mm)	637	638	500	500	500	500	500	500
TYPICAL BRACKET SPACING	2.0-2.5	3.0-5.0	2.0-2.5	2.7-3.6	2.7-3.2	3.0-4.5	2.4-3.2	2.7-3.8
FASTENING	Top	Top	Top	Top	Top/Side	Side	Side	Side
COLOUR	Anodised or Powder Coated in standard RAL Colour						Mill-finished	
DESCRIPTION	Depending on the customer needs, all Rostek track profiles can be used to carry the load of Gantries and Ladders. The track type is chosen according to the weight of the Gantry or Ladder and the installation environment (concealed/not concealed).							



## Gantry installation above tracks

Rostek 63 and 129 track profiles have been developed especially for gantry installations. Track line can be installed on the roof and gantries can traverse above them.



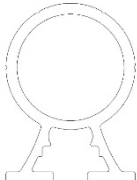
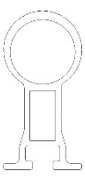
TRACK TYPE	<b>RS63</b> 	<b>RS129</b> 
<b>DIMENSIONS</b>	88mm x 63mm	129mm x 63mm
<b>WEIGHT</b>	4.0 kg/m	5.4 kg/m
<b>MIN. BENDING RADIUS</b>	500mm	500mm
<b>TYPICAL BRACKET SPACING</b>	1.8 m – 2.4 m	3.0 m – 4.0 m
<b>FASTENING</b>	With two Special Rostek Stainless Steel M16 Bolts for each bracket.	
<b>COLOUR</b>	Anodised or Powder Coated in standard RAL Colour	
<b>DESCRIPTION</b>	Rostek RS63 and RS129 tracks are used in Gantry and Ladder systems. These tracks are attached to the brackets from the bottom. Gantries and ladders traverse on top of the track. RS63 is typically used for lighter gantries and ladders. RS129 is used with heavy gantries and ladders or when a longer bracket span is needed. Only Rostek trolleys can be used with RS63/RS129 tracks.	





Photo is taken from the 120 years old Dresden Railway station. Rebuilt in 2002, design by Foster & Partner. Rostek gantry systems provide easy access to the ceiling of the train station without interrupting the businesses or customers.