



# CEARS GANTRY SYSTEMS

## Overhead Materials Handling Light Crane Systems

- Single Girder Crane ● Double Girder Crane ● Monorails ● Track Changers
- Turntables ● Friction Wheel Drives ● Monorails with Internal Bus Bars
- Curved Runways ● Curved Cross Trackers ● Hoists



### Turn-key installation of CEARS Gantry System, IT Guns, Non-IT Guns, Transformers and Controllers

CEARS Gantry System is a proven system and efficient solution for variety of overhead material handling requirement for auto and engineering industry. CEARS Gantry System is used for handling and assembling of heavy material in three dimensional work space. The operator does not feel fatigue in handling heavy material which results in enhancement of production to great extent.

CEARS sections are cold rolled Special Track Sections in steel with a smooth surface finish. The dead weight being very low and with extremely smooth running trolleys the crosstracker allows heavy and odd size goods to be moved quickly and effortlessly. Special guide surfaces and slightly inclined contact surfaces guarantee smooth trolley travel.

**All rails are powder coated from inside as well as outside.**

Cears rails are available in four different sizes - **CGS-1G, CGS-1, CGS-2L and CGS-2.**

Curved Monorails with Internal Bus Bars



Curved Cross Trackers



Hitachi Hoists installed on CEARS Rails with Internal Bus Bars



Curved Runways



**Nut Runner mounted on CEARS Rails**



**Dual Cross Tracker for large spans**



**Cross Tracker CGS 2T for Large Span & Heavy Loads**



**Telescopic Cross Tracker**



### **EHF Assembly**



For height limitation problems EHF Assembly will provide extra height.



CEARS Gantry System can be suspended from the building structure or a pillar type structure can be erected from the floor. Technical assistance is provided in designing this structure. We can also assist in providing other details like height of structure, height of gun station, working height of gun etc.

As sections are available in different sizes, wide variety of possible combinations can be adapted and any load handling problem can be solved.

If possible, please send us your shop layout to enable us to offer you right solution for your requirement.

● **Suspension Assembly for Suspending Runways :**

Suspension assemblies are mounted on I-beams for suspending runways. The I-beam holder is provided with an adjustment clamp which can fit on all standard I-beams. The complete assembly consists of ball and socket joint with moulded plastic cups for noiseless operation, absorption of jerks and minimum maintenance. Uniqueness of the assembly allows pendulum movement which prevents bending stresses and minimizes horizontal forces in the CEARS structure. The height of the runway can be easily and accurately adjusted by means of threaded suspension rods.

● **Runways :**

Runways are suspended on I-beams with the help of suspension assemblies. Runways are available in various lengths. The runway joining set enables the runways to be extended to any required lengths.

● **Cross Tracker :**

The Cross Tracker has a two axis movement. It is suspended on runways with the help of tracker suspension trolley.

● **Smooth Running Trolleys :**

Trolleys are strong, fitted with self lubricating polymer wheels, moulded with double Z bearings for maintenance free and long life operation. Trolley wheels are tapered to match the taper of the track thereby reducing rolling resistance.

Cears rails are available in four different sizes - **CGS-1G, CGS-1, CGS-2L and CGS-2.**



**CGS-2BB**  
Bus Bar

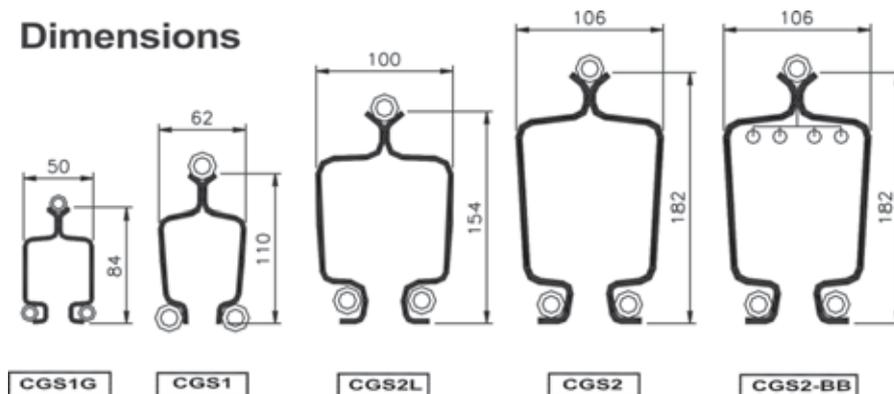
**CGS-2**

**CGS-2L**

**CGS-1**

**CGS-1G**

**Dimensions**



## Accessories



CGS1 - Tracker Suspension Trolley



CGS 2L / 2 - Trolley



Hoist cable slider



CGS 2L / 2 - Dual Trolley



CGS1 Trolley



Cable bunch holder



CGS1 Dual Trolley



CGS1 - Cable Support Trolley



CGS1 G - Tracker Suspension Trolley



CGS1 / CGS 2 - Two Wheel Cable Trolley



Safety wire rope assembly



CGS 2L - Suspension assembly



Trolley for telescopic application



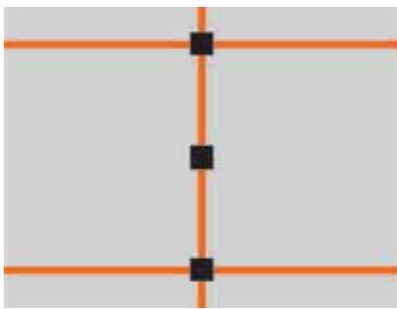
Crane suspension eye



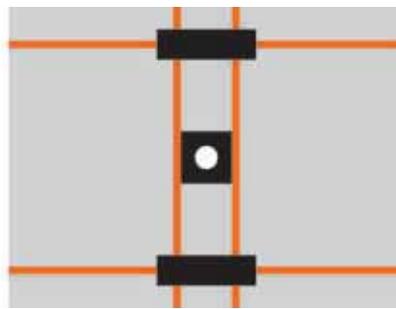
End caps



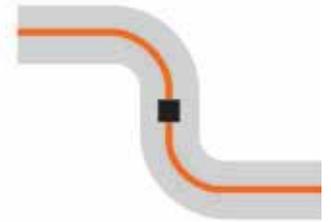
Forged hook (Optional)  
for load trolley



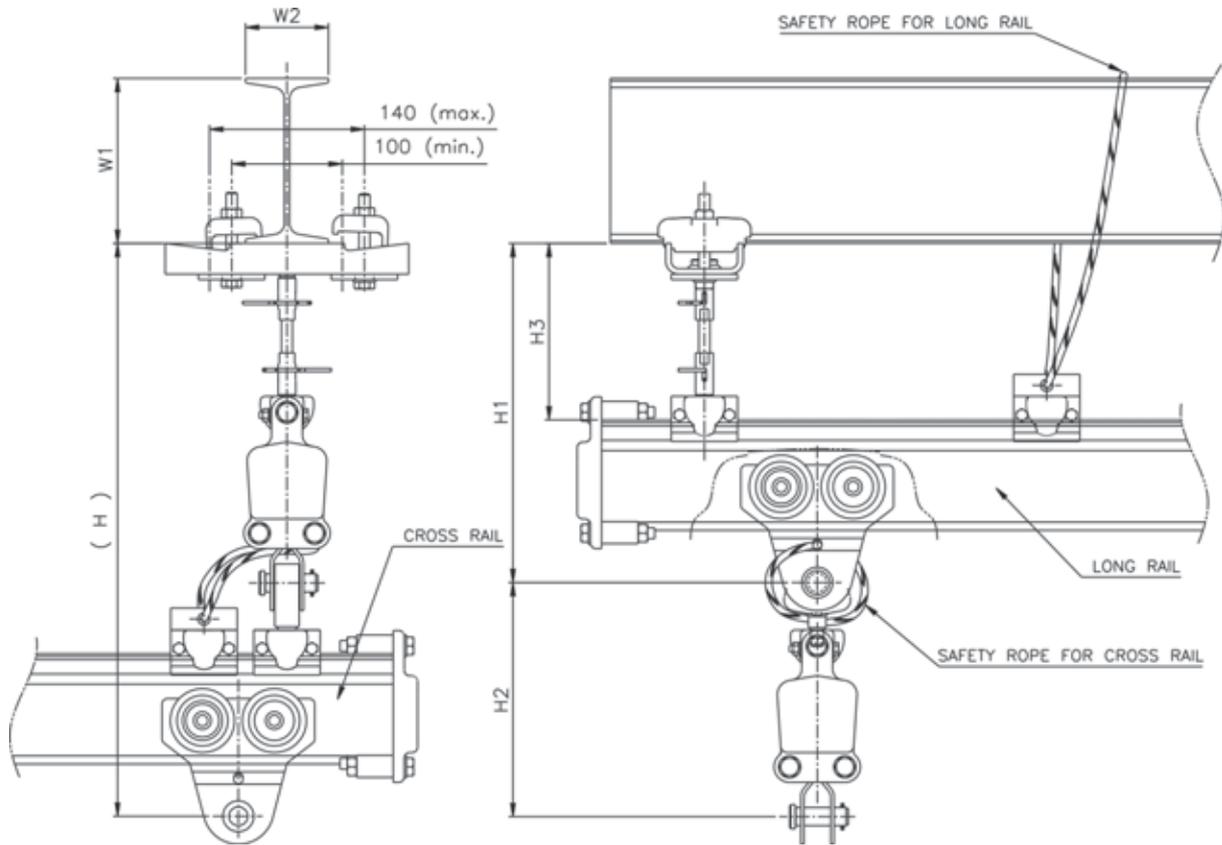
Single Girder Crane



Double Girder Crane  
for Heavy Loads and Large Spans

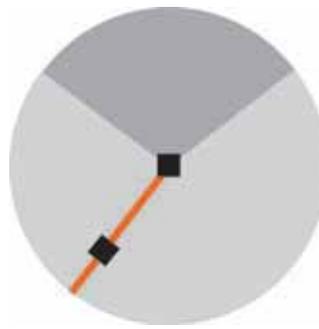


Single Monorail Straight or  
Curved with/without Busbar

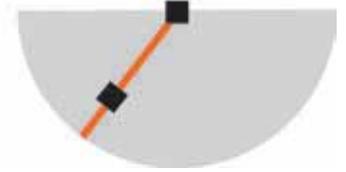


Dimensions with Standard Suspension Assembly			All dimensions are in mm	
Dimensions	CGS-1G	CGS-1	CGS-2L	CGS-2
Height (H)	478	540	725	780
Height (H1)	288	325	450	475
Height (H2)	190	215	275	305
Height (H3)	153	160	248	248
I Beam (W1)	100 to 250	100 to 250	100 to 250	100 to 250
I Beam (W2)	50 to 125	50 to 125	50 to 125	50 to 125

Dimensions with Short Suspension Assembly			All dimensions are in mm	
Dimensions	CGS-1G	CGS-1	CGS-2L	CGS-2
Height (H)	430	465	620	677
Height (H1)	240	252	345	372
Height (H2)	190	213	275	305
I Beam (W1)	100 to 250	100 to 250	100 to 250	100 to 250
I Beam (W2)	50 to 125	50 to 125	50 to 125	50 to 125

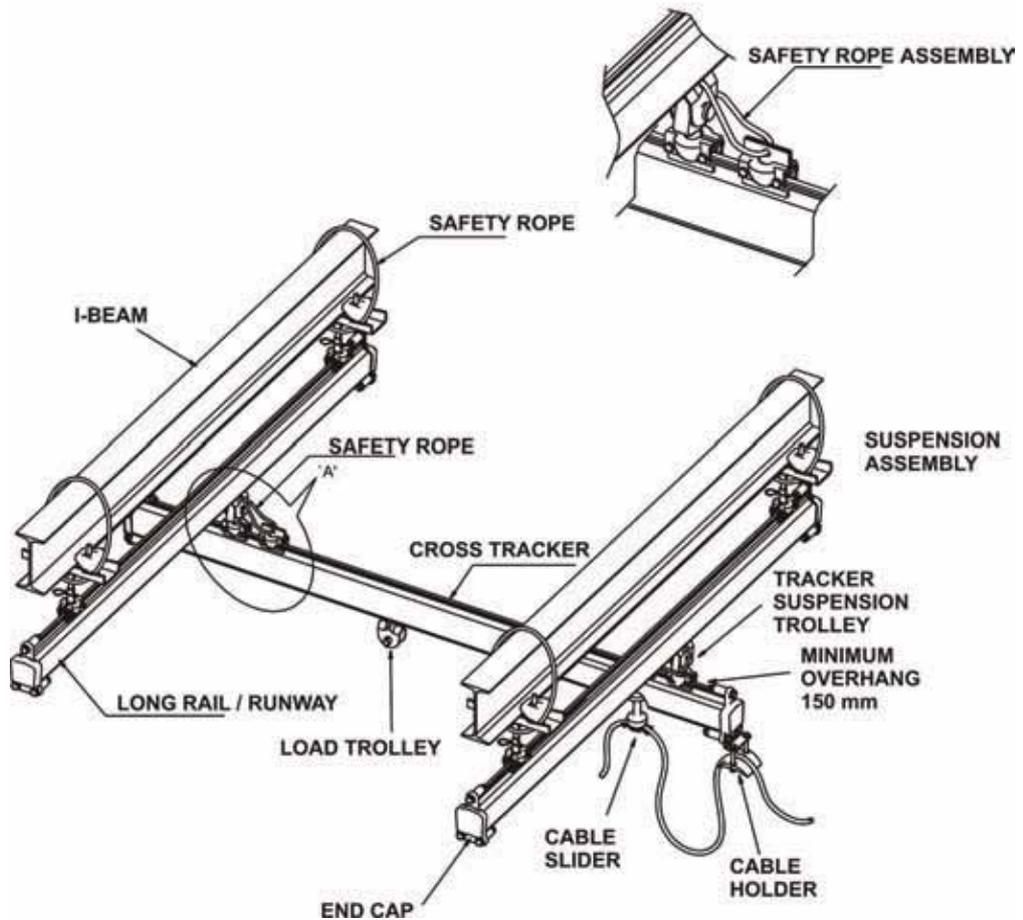


Pillar Mounted Jib Crane - 270° / 360°



Wall Mounted Jib Crane - 180°

### ISOMETRIC VIEW OF CEARS GANTRY SYSTEM INSTALLATION



### Turn Tables Manual or Pneumatic

Turn tables help to incorporate intersection into the track system. Safety mechanism is provided to prevent trolleys from entering or returning the turn table section during the slewing operation.

# Track Changers Pneumatic, Motorised or Manual



- Installation of Cears Gantry System including Hoists for entire Body Shop
- All Hoist Rails & Track changers supplied with Internal Bus bars.



## Friction Wheel Drives

Friction Wheel Drive Assembly consists of gear box with a large friction wheel mounted with dished washers which provides constant pressure between the track surface and driving wheel. Friction wheel drive assembly is connected to a hoist load trolley with a load bar.

Hoist and drive assembly can be operated from single pendant.

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