GOLIATH CRANES
(Up to 125 Ton)

Safe Working Load	5000 kg to 1,25,000 kg
Spans	6 m to 40 m
Heights of Lift	As per customer specifications.
Class of Duty / Standards	Class 2, Class 3, Class 4 as per IS 3177 / IS 807. Also available as per FEM, DIN, BS or any other applicable international standards.
Speeds	Selected depending on client specifications / applications / shed dimensions
Crane Control	From floor through Pendant Push Buttons Open Cabin / Totally Enclosed Cabin Radio Control
Drive System	Twin Drive with Squirrel Cage / Slip Ring Induction Motors, through totally enclosed, oil immersed, helical gearbox.
Motors	Foot mounted, IEC Frame Size, Crane Duty motors for Main Hoisting, Auxiliary Hoisting, Cross Travel and Long Travel.
Brakes	Electro Hydraulic Thrusters for all motions. DC/AC Electro Magnetic Brakes or additional brakes can be provided on request.
Power Supply System	To Hoist and Cross Travel through Trailing Cables To Crane through Cable Reeling Drum or any alternate system.

Goliath / Gantry Cranes are self propelled cranes running on rails installed at ground level.
The image along shows two such cranes working in tandem.

Such cranes are used at:

- Construction sites
- Ports & harbours
- Workshops where existing columns cannot bear the wheel loads of a bridge crane
- Workshops with low roof tie height that might restrict the height of lift of a regular bridge crane
- Locations where bay lengths are excessive
- Locations where bay lengths do not remain constant
- Sites / projects where crane itself needs to be relocated from one place to another
- Locations where loads are to be shifted from points outside the crane span as in the case of an overhang on either side of the rails
- In workshops where part utilization of shop bay is required (as in a tool room attached to a press shop), a Semi-Goliath/Gantry Crane is used. In such a configuration one end-carriage of the crane will travel on the regular gantry rail while the opposite end-carriage will travel on a rail mounted typically on the ground or at a lower elevation

- A Goliath / Gantry Crane is typically more expensive than an equivalent EOT Bridge Crane
- However in almost all the relevant cases as mentioned above, a cost analysis shows that it is cheaper to go in for a Goliath / Gantry Crane as against a bridge crane.

The cost analysis can be done by taking into consideration the following

- Cost of Gantry Girders that are required in case of a Bridge Crane.
- Cost of Columns required for supporting the above Gantry Girders
- Difference in costs of civil foundation for columns (for Bridge Cranes) versus civil foundation for gantry rails (in Goliath / Gantry Cranes)
- Difference in Down Shop Leads cost of Bridge Crane versus Cable Reeling Drum and Cable cost for a Goliath /Gantry Crane cab be either of the single Girder type or Double Girder type