

Double Girder Overhead Cranes :

Capacity Range : 1.0 Ton to 150 Ton

Span Range : 3 metres to 36 metres

Description (Cranetech Cranes for any duty in materials)

Cranetech Cranes are available in the entire range of duty and class of capacities, from 1-150 tonnes and within a span to suit your specific requirement.

Class I : Light duty cranes for repair shops, light assembly operations, service buildings, light warehouses, where service requirements are infrequent.

Class II : Medium duty cranes for machine shops and general industrial use both indoor and outdoor application.

Class III : Extra heavy duty cranes for steel mills and other heavy machine shops, steel warehouses, heavy fabrication shops, paper mills etc. with magnet and bucket operation for scrap yards, fertilizer plants & induction furnace.

Class IV : Extra heavy duty cranes for steel mills and other heavy engineering purposes. Cranes designed for hot metal application on request.

The unique features of Cranetech Cranes are...

Structure : Bridge Girder, End carriages, Crab Frame manufactured from box plate design / Rolled Sections. If required 100% radiography of all butt welding joints of bridge and end carriages can be provided. The material of construction conforms to IS:2062, and the bridge is designed for minimum vibration.

Wheel Assemblies : Trolley and crane wheels are straight treaded double flanged forged steel EN 9, heat treated to achieve a special sorbatized structure up to a depth of 15-20 mm from the surface and gradually diminishing towards the centre retaining the Core Properties. These wheels are supported on antifriction ball/roller bearings, in special L-type bearing blocks. Wheels also available of gear and pinion type.

Gearing : The gear reducers are constructed either in double, triple and quadruple reduction using rugged wide faced helical and spur gears that are precision cut from special alloy steel forgings. And to protect the gear train from shock loads, all gears and pinions are supported between two antifriction ball/roller bearings. All gear units are totally enclosed with oil bath splash lubrication.

Cranetech Crane micro drive special gear boxes : The special micro drive provides fine inching movements of hoist, trolley or crane at the rate of 5% to 20% of the main speed. The micro drive is achieved by a separate gear box, with unique sun and planet system. Gearing system fitted on the input side of main gear unit and pony motor with separate brake unit. It is a positive drive and avoids the use of clutches gear unit and pony motor with separate brake unit. It is a positive drive and avoids the use of clutches etc.

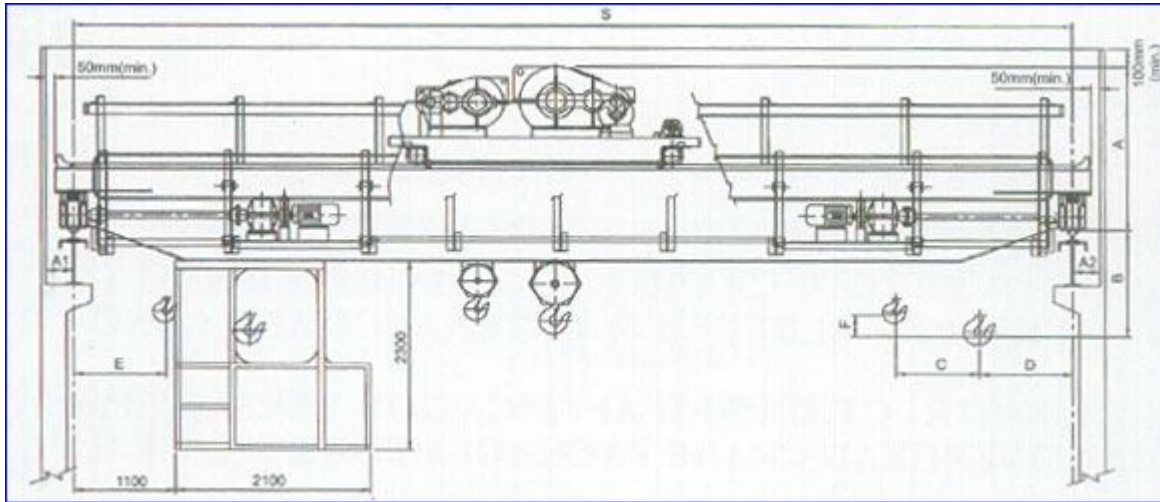
Cranetech Cranes Drives : We offer a wide selection of A.C. control packages to meet your electrical requirements. We select only the best standard crane and hoist duty motors and all electrical components and accessories from the nation's leading manufacturers to ensure dependable driving power.

Variable Frequency Drives & Remote Controls : We also offer Variable Frequency Drive in hoisting, cross travel, long travel for step less speed control as an optional feature. We also provide radio remote control cranes for application in inaccessible and hazardous areas.

Brakes : Failsafe magnetic or hydraulic brakes of 150% torque or more are fitted on shaft extensions. For heavy duty cranes a second brake can be mounted to ensure failsafe operation.

Controls : Pendant control from floor, master control switches, master controllers in the driver's cabin can be provided. Radio remote control can be provided on request.

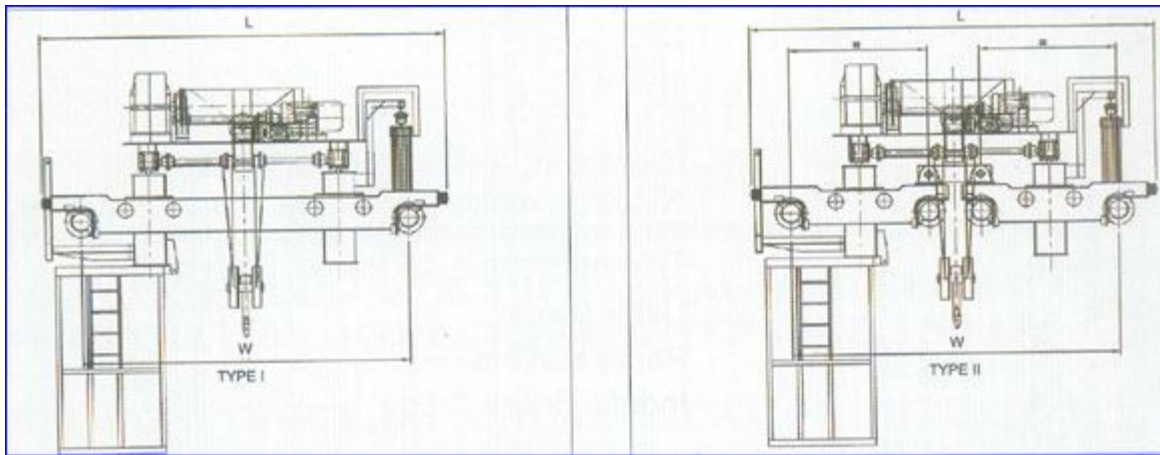
Cabin : Open or enclosed type driver's cabin available. The cabins can be provided either at one end of the bridge girder or center of bridge girder. Moving type cabin fitted with crab can also be provided. Enclosed cabin is well ventilated but air conditioned Cabin can also be provided. Standard Cabin accessories are operating switches, protective panel, and safe ladder from platform. Driver's seat, Exhaust fan, Insulated floor matting, Fire extinguishers are provided on request.



D.G.E.O.T. Cranes Technical Parameters
Type "I" - Four Wheels

Main MT	Duty	Aux. MT	Head Room A Mts	B Mts	C Mts	Hook Approach other side D Mts	Hook Approach Cabin side E Mts	F Mts	Total width L Mts	Wheel Base Mts	Wheel Load MT	Trolley WT MT	Crane WT. MT
5	I		1.70	0.10	-	0.65	1.10	-	4.80	4.00	6.42	1.50	13.20
	II		1.75	0.10	-	0.65	1.10	-	4.80	4.00	7.13	1.50	14.00
	III		1.85	0.15	-	0.65	1.10	-	4.80	4.00	7.85	2.20	16.20
	IV	1	1.85	0.15	0.50	0.65	0.90	0.25	4.80	4.00	8.40	3.00	17.60
10	I		1.80	0.15	-	0.65	1.10	-	4.80	4.00	10.26	2.05	16.00
	II		1.90	0.15	-	0.65	1.10	-	4.80	4.00	11.00	3.45	17.50
	III	3	1.95	0.15	0.65	0.65	0.90	0.40	4.80	4.00	11.87	4.50	20.00
	IV	3	2.25	0.30	0.80	0.70	0.90	0.40	5.00	4.00	13.35	6.50	23.90
15	I		1.95	0.15	-	0.80	1.20	-	5.30	4.30	14.55	3.70	21.50
	II		2.10	0.50	-	0.80	1.20	-	5.30	4.30	15.25	5.00	23.00
	III	5	2.35	0.40	1.00	0.80	0.90	0.60	5.50	4.50	16.65	7.10	26.50
	IV	5	2.70	0.40	1.20	0.80	0.90	0.65	5.50	4.50	17.55	9.20	28.00

20	I		2.10	0.50	-	0.80	1.30	-	5.50	4.50	17.68	5.20	22.50
	II		2.20	0.55	-	0.80	1.30	-	5.50	4.50	18.55	6.20	25.00
	III	5	2.60	0.35	1.00	0.80	0.90	0.65	5.50	4.50	19.40	7.50	27.10
	IV	8	2.70	0.25	1.20	0.80	0.90	0.65	5.50	4.50	21.02	9.60	31.50
25	I		2.20	0.55	-	0.80	1.50	-	5.50	4.50	20.87	5.90	24.60
	II		2.50	0.35	-	0.80	1.50	-	5.50	4.50	21.80	6.80	27.40
	III	5	2.70	0.35	1.00	0.80	0.90	0.65	5.50	4.50	23.32	8.80	31.50
	IV	8	3.05	0.47	1.20	0.85	0.90	0.90	5.50	4.50	25.17	10.70	37.00
30	I		2.65	0.50	-	0.80	1.50	-	5.50	4.50	24.52	6.70	28.40
	II		2.70	0.35	-	0.80	1.50	-	5.50	4.50	25.60	8.40	31.00
	III	10	3.05	0.57	1.10	0.85	0.90	1.05	5.50	4.50	27.60	10.30	37.10
	IV	10	3.10	0.72	1.20	0.85	0.90	1.10	5.50	4.50	29.10	12.20	40.30
35	I		2.65	0.35	-	0.80	1.65	-	5.50	4.50	27.75	7.60	30.10
	II		2.80	0.57	-	0.80	1.65	-	5.50	4.50	28.92	9.00	32.80
	III	10	3.00	0.72	1.10	0.85	0.90	1.10	5.50	4.50	30.80	11.30	38.60
	IV	10	3.50	1.00	1.30	1.00	0.90	1.20	5.50	4.50	33.17	13.20	45.00
40	I		2.65	0.35	-	0.80	1.70	-	5.50	4.50	30.85	8.00	32.10
	II		3.00	0.57	-	0.85	1.70	-	5.50	4.50	32.22	9.90	34.70
	III	10	3.10	0.72	1.10	0.85	0.90	1.10	6.30	5.30	33.85	12.00	40.10
	IV	15	4.00	1.30	1.30	1.00	1.05	1.10	7.00	5.50	37.17	15.00	49.80
50	I		3.10	0.67	-	0.85	1.80	-	5.50	4.50	37.95	9.50	37.80
	II		3.10	0.72	-	0.85	1.80	-	6.30	5.30	39.07	10.80	41.30
	III	10	4.00	1.30	1.30	1.00	1.05	1.30	7.00	5.50	41.77	14.60	48.00
	IV	15	4.80	1.50	1.30	1.30	1.20	1.20	7.80	4.80	45.70	18.80	59.50
60	I		3.10	0.72	-	0.85	1.80	-	6.30	5.30	44.87	11.00	44.00
	II		3.70	1.30	-	1.00	1.80	-	7.00	5.50	47.75	14.80	50.80



Type "II" - Eight Wheels

Main MT	Duty	Aux. MT	Head Room A Mts	B Mts	C Mts	Hook Approach other side D Mts	Hook Approach Cabin side E Mts	F Mts	Total width L Mts	Wheel Base Mts	Wheel Load MT	Trolley WT MT	Crane WT. MT
60	III	15	4.00	1.50	1.30	1.30	1.20	1.30	7.80	4.80	26.55	17.60	63.60
	IV	15	4.80	1.60	1.30	1.50	1.20	1.30	7.80	4.80	28.05	21.00	70.80
80	I	20	3.70	1.30	1.30	1.90	1.40	1.50	7.80	4.80	33.62	23.00	80.00
	II	20	3.70	1.30	1.30	1.90	1.40	1.50	7.80	4.80	34.62	26.00	85.00
100	I	20	3.70	1.50	1.30	1.90	1.40	1.70	8.05	5.05	42.07	31.80	98.80
	II	20	3.70	1.50	1.30	1.90	1.40	1.70	8.05	5.05	43.25	35.00	105.00
125	I	25	3.70	1.60	1.30	1.90	1.40	1.80	8.05	5.05	50.81	34.50	113.00
	II	25	3.70	1.60	1.30	1.90	1.40	1.80	8.05	5.05	51.95	38.00	120.00
150	I	25	4.80	1.60	1.40	2.50	1.80	2.00	8.85	5.85	62.68	44.50	148.00

- Wheel loads include no impact allowance
- Dimensions are based on 20 mtrs. Span(s) and 10 mtrs. of lift
- Wheel base 'w' may be increased for longer lifts
- All dimensions shown are for standard headroom applications and may be vary widely to suit conditions