MANGLA

MANGLA

A Must for Every Industry

Double Girder EOT Crane

Modular Construction
Standardised - assemblies

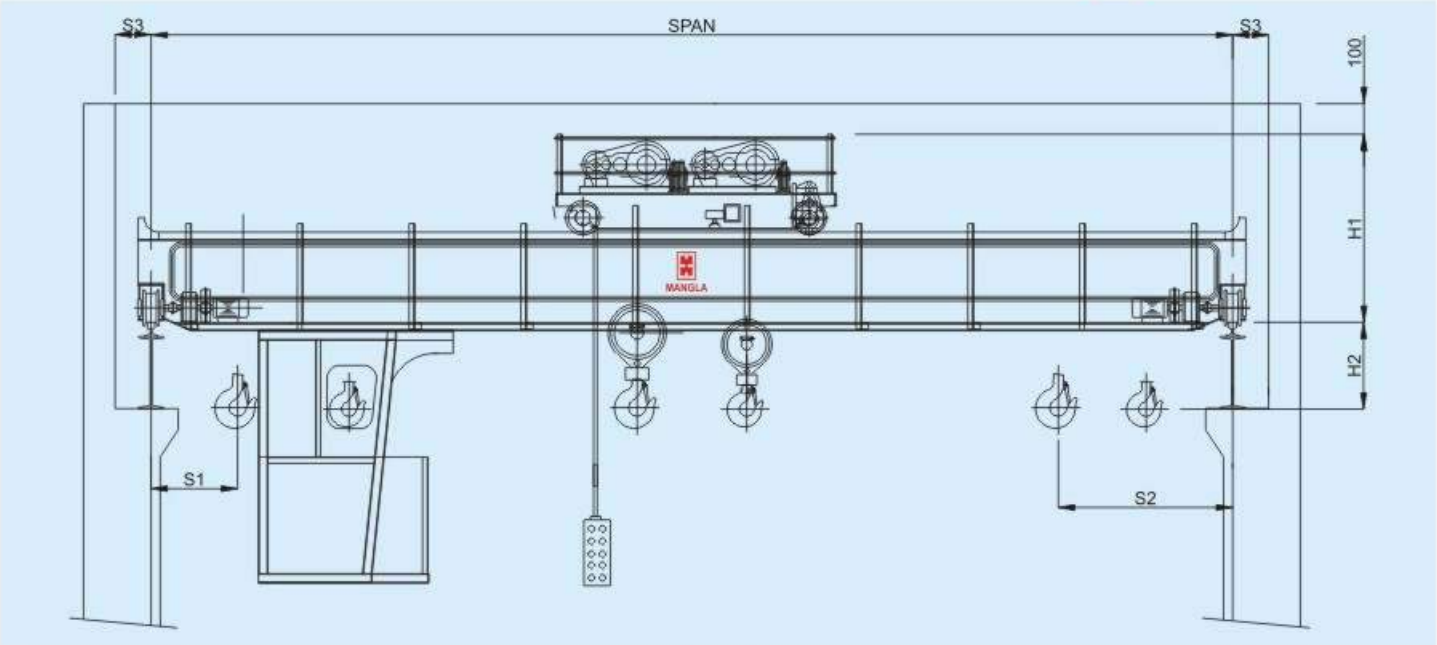
Proven Design
Crab fitted with time tested
Heavy Duty Hoist, CT/LT drives

Crane Kits available
Saving on transportation
of structural parts

Standard Range
0.5T, 1T, 2T, 3T, 5T, 7.5T, 10T, 15T,
20T, 25T, 30T, 40T, 50T, 75T 100T, 125T
(Single/Double Girder
Rail Mounted / Underslung)

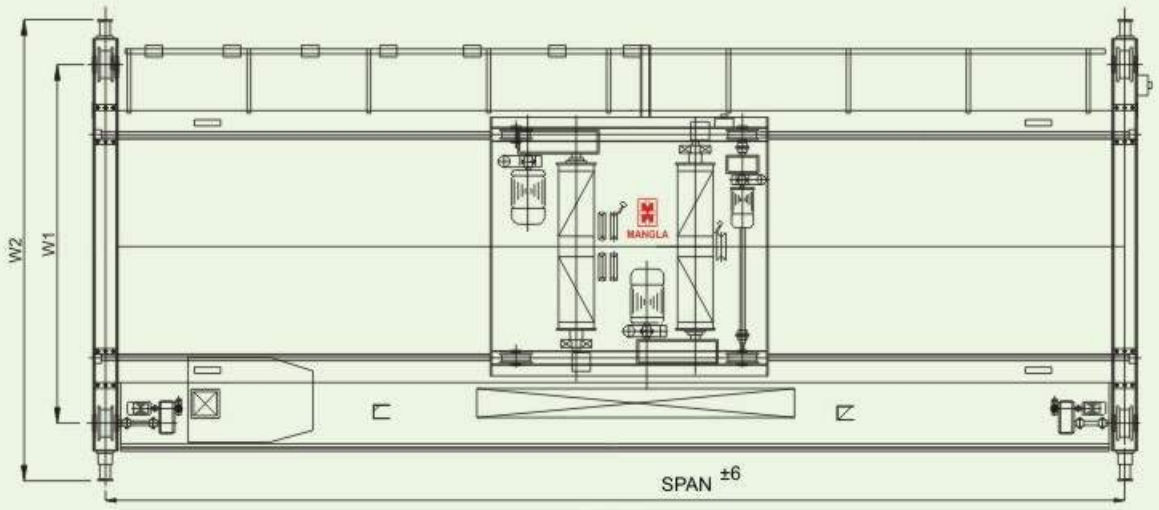
REGISTERED COMPANY ISO 9001 REGISTERED COMPANY

Double Girder EOT Cranes (DG-EOT)



SWL Tonne	Span Mtrs.	H1	H2	S1	S2	S3	W1	W2	Crane Weight Tonne	Wheel Load Tonne
					mm					
	8	1400	100	800	750	160	3000	3700	7.2	4.9
	10	1450	200	800	750	160	3000	3700	8.4	5.3
	12	1500	300	800	750	160	3000	3700	9.0	5.3
5	14	1500	300	800	750	160	3000	3800	9.6	5.4
	16	1500	300	800	750	160	3200	4000	11.3	5.8
	18	1500	330	800	750	160	3600	4400	12.5	6.2
	20	1500	370	800	750	160	4000	4800	13.8	6.5
	22	1500	450	800	750	160	4400	5200	15.2	6.8
	8	1600	100	850	800	165	3100	3900	8.3	6.6
	10	1650	230	850	800	165	3100	3900	9.0	6.9
	12	1650	230	850	800	165	3150	3950	9.5	7.0
7.5	14	1650	230	850	800	165	3200	4000	11.9	7.5
	16	1700	300	850	800	165	3200	4000	13.6	7.9
	18	1700	330	850	800	165	3600	4400	14.9	8.2
	20	1800	350	850	800	165	4000	4800	16.3	8.5
	22	1800	350	850	800	165	4400	5200	17.7	8.8
	8	1600	170	1000	950	165	3200	4000	8.4	8.0
	10	1700	230	1000	950	165	3200	4000	9.4	8.5
	12	1750	250	1000	950	165	3400	4200	11.1	8.6
10	14	1750	250	1000	950	165	3400	4200	12.3	8.9
	16	1800	300	1000	950	165	3400	4200	14.0	9.3
	18	1800	350	1000	950	165	3600	4400	15.2	9.6
	20	1800	350	1000	950	165	4000	4800	18.8	10.5
	22	1800	400	1000	950	165	4400	5200	20.4	10.8
	8	1900	150	1250	1100	180	3600	4500	10.0	11.2
	10	1900	150	1250	1100	180	3700	4600	12.4	11.7
	12	1900	300	1250	1100	180	3800	4600	12.5	11.8
15	14	1900	300	1250	1100	180	3800	4600	13.6	12.0
	16	1900	300	1250	1100	180	3800	4600	17.8	13.0
	18	1900	360	1250	1100	180	3800	4600	19.0	13.2
	20	2000	400	1250	1100	220	4000	5100	22.1	13.9
	22	2000	400	1250	1100	220	4400	5500	26.0	14.9
	10	2100	100	1200	1050	220	4050	5150	14.3	15.0
	12	2100	220	1200	1050	220	4050	5150	15.5	15.3
	14	2100	220	1200	1050	220	4200	5350	18.0	15.9
20	16	2100	270	1200	1050	220	4250	5350	19.7	16.2
	18	2100	420	1200	1050	220	4250	5350	22.1	16.8
	20	2100	420	1200	1050	220	4250	5350	25.7	17.6
	22	2100	470	1200	1050	220	4400	5500	28.4	18.3

SWL Tonne	Span Mtrs.	H1	H2	S1	S2	S3	W1	W2	Crane Weight Tonne	Wheel Load Tonne
					mm					
	10	2200	220	1250	1200	220	4400	5500	14.9	18.0
	12	2200	220	1250	1200	220	4600	5700	17.4	18.7
	14	2200	270	1250	1200	220	4600	5700	19.8	19.2
25	16	2200	420	1250	1200	220	4400	5500	22.7	19.2
	18	2400	270	1250	1200	270	4500	5800	27.5	21.0
	20	2400	320	1250	1200	270	4500	5800	28.7	21.3
	22	2400	420	1250	1200	270	4500	5800	31.4	22.0
	10	2500	100	1200	1200	270	4900	6200	17.5	21.5
	12	2500	100	1200	1200	270	4900	6200	21.1	22.3
	14	2500	220	1200	1200	270	4900	6200	22.3	22.7
30	16	2500	220	1200	1200	270	4900	5800	26.3	23.6
	18	2500	320	1200	1200	270	4600	5800	28.7	24.0
	20	2600	320	1200	1200	295	4600	6000	32.5	25.0
	22	2600	320	1200	1200	295	4600	6000	35.2	25.6
	10	2300	270	1400	1350	270	4800	5900	19.4	24.7
	12	2500	270	1400	1350	270	5100	6300	19.5	24.7
	14	2500	270	1400	1350	270	5100	6400	21.9	25.3
35	16	2500	270	1400	1350	270	4700	6000	27.1	26.6
	18	2500	370	1400	1350	270	5100	6300	29.9	27.2
	20	2500	520	1400	1350	270	5100	6300	33.6	28.0
	22	2500	570	1400	1350	270	5100	6400	36.2	28.0
	10	2600	100	1300	1400	270	5100	6300	22.3	28.4
	12	2600	220	1300	1400	270	5100	6300	22.4	28.4
	14	2600	320	1300	1400	270	5100	6300	23.6	28.6
40	16	2600	330	1300	1400	270	5100	6300	30.4	30.2
	18	2700	330	1300	1400	295	5100	6500	34.1	31.1
	20	2700	380	1300	1400	295	5200	6500	36.5	31.7
	22	2700	430	1300	1400	295	5200	6600	42.8	33.1
	10	2700	130	1550	1300	295	5400	6800	23.9	34.1
	12	2900	100	1550	1300	370	5400	7000	27.3	35.0
	14	2900	100	1550	1300	370	5400	7000	32.1	36.1
50	16	2900	230	1550	1300	370	5400	7000	32.1	36.1
	18	2900	230	1550	1300	370	5400	7000	37.7	37.4
	20	2900	280	1550	1300	370	5500	7100	43.8	38.7
	22	2900	280	1550	1300	370	5500	7500	47.6	39.7



PLAN

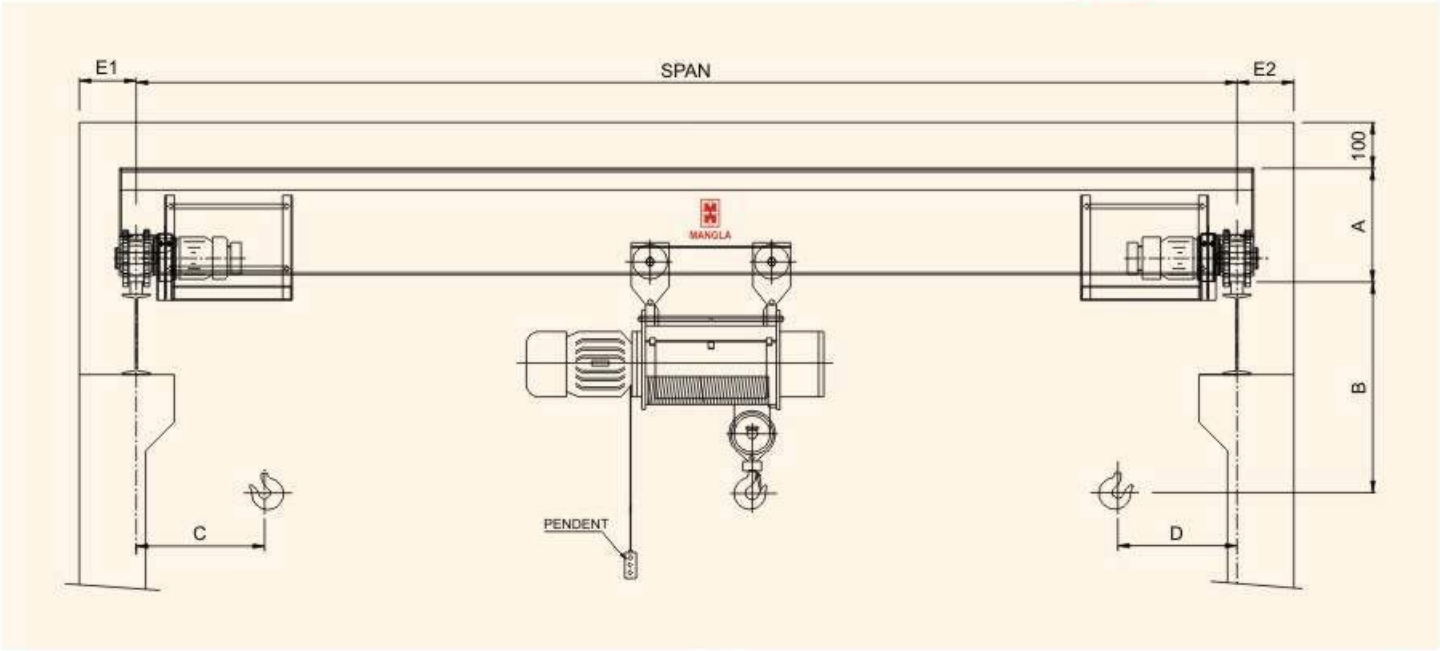
SWL Tonne	Span Mtrs.	H1	H2	S1	S2 mm	S3	W1	W2	Crane Weight Tonne	Wheel Load Tonne
	10	1700	230	1300	950	165	3200	4000	8.9	8.3
	12	1750	150	1300	950	165	3350	4200	11.6	8.9
	14	1750	220	1300	950	165	3400	4200	12.6	9.2
10/3	16	1800	300	1300	950	165	3400	4200	14.5	9.6
	18	1800	350	1300	950	165	3600	4400	15.7	9.9
	20	1800	350	1300	950	165	4000	4800	19.3	10.8
	22	1800	400	1300	950	165	4400	5200	20.9	11.0
	10	1900	140	1300	1100	180	3700	4600	12.9	11.9
	12	1900	210	1300	1100	180	3800	4600	13.0	12.0
	14	1900	310	1300	1100	180	3800	4600	14.1	12.2
15/03	16	1900	310	1300	1100	180	3800	4600	18.3	13.2
	18	1900	360	1300	1100	180	3800	4600	19.5	13.4
	20	2000	420	1300	1100	220	4000	5100	22.6	14.1
	22	2000	370	1300	1100	220	4400	6500	26.5	15.1
	10	2100	100	1300	1050	220	4050	5150	14.8	15.3
	12	2100	220	1300	1050	220	4050	5150	16.0	15.6
	14	2100	220	1300	1050	220	4250	5350	18.5	16.2
20/05	16	2100	270	1300	1050	220	4250	5350	20.2	16.7
	18	2100	420	1300	1050	220	4250	5350	22.6	17.3
	20	2100	420	1300	1050	220	4250	5350	26.2	17.9
	22	2100	470	1300	1050	220	4400	5500	28.9	18.8
	10	2200	220	1300	1200	220	4400	5600	15.4	18.3
	12	2200	220	1300	1200	220	4600	5600	17.9	19.0
	14	2200	270	1300	1200	220	4700	5600	20.3	19.5
20/05	16	2200	420	1300	1200	220	4400	5600	23.2	20.2
	18	24000	270	1300	1200	270	4500	5800	28.0	21.3
	20	2400	320	1300	1200	270	4500	5800	29.2	21.6
	22	2400	420	1300	1200	270	4500	5800	31.9	22.3
	10	2500	100	1500	1200	270	4900	6200	18.3	21.9
	12	2500	100	1500	1200	270	4900	6200	21.9	22.7
	14	2500	220	1500	1200	270	4900	6200	23.1	23.1
30/10	16	2500	220	1500	1200	270	4900	6200	27.1	24.0
	18	2500	320	1500	1200	270	4900	6200	29.5	24.4
	20	2600	320	1500	1200	295	4900	6200	33.3	25.4
	22	2600	360	1500	1200	295	4900	6200	36.0	26.0

SWL Tonne	Span Mtrs.	H1	H2	S1	S2 mm	S3	W1	W2	Crane Weight Tonne	Wheel Load Tonne
	10	2300	220	1500	1300	270	4900	6200	20.2	25.1
	12	2500	270	1500	1300	270	4900	6200	20.3	25.1
	14	2500	270	1500	1300	270	4900	6200	22.7	25.7
35/10	16	2500	270	1500	1300	270	4900	6200	27.9	27.0
	18	2500	370	1500	1300	270	5100	6300	30.7	27.6
	20	2500	520	1500	1300	270	5100	6300	34.4	28.4
	22	2500	570	1500	1300	270	5100	6400	37.0	29.0
	10	2600	100	1500	1300	270	5100	6300	23.1	28.8
	12	2600	400	1500	1300	270	5100	6300	23.2	28.8
	14	2600	400	1500	1300	270	5100	6300	24.4	29.0
40/15	16	2600	400	1500	1300	270	5100	6300	31.2	30.6
	18	2700	400	1500	1300	295	5100	6500	34.9	31.5
	20	2700	400	1500	1300	295	5200	6500	37.3	32.1
	22	2700	400	1500	1300	295	5200	6600	43.6	33.5
	10	2700	500	1750	1300	370	5400	6800	24.9	34.6
	12	2900	500	1750	1300	370	5400	7000	26.3	35.5
	14	2900	500	1750	1300	370	5400	7000	33.1	36.6
50/15	16	2900	500	1750	1300	370	5400	7000	33.1	37.0
	18	2900	500	1750	1300	370	5400	7000	38.7	37.9
	20	2900	500	1750	1300	370	5500	7100	44.8	39.2
	22	2900	500	1750	1300	370	5500	7500	48.6	40.2
	10	2800	500	1750	1400	400	5000	6500	44.0	24.0
	12	2900	500	1750	1400	400	5000	6500	47.0	24.5
	14	3000	500	1750	1400	400	5000	7100	51.0	25.3
75/15	16	3100	500	1750	1400	400	5600	7100	55.0	26.0
	18	3200	500	1750	1400	400	5600	7100	61.0	27.0
	20	3200	500	1750	1400	400	5600	7100	68.0	27.9
	22	3300	500	1750	1400	400	5600	7500	72.0	28.5
	10	2300	500	1800	1500	400	5000	6500	54.0	31.7
	12	3000	500	1800	1500	400	5000	6500	58.0	32.4
	14	3100	500	1800	1500	400	5000	6500	62.0	33.1
100/20	16	3200	500	1800	1500	400	5600	7100	66.0	33.8
	18	3300	500	1800	1500	400	5600	7100	76.0	35.2
	20	3300	500	1800	1500	400	5600	7100	81.0	36.0
	22	3400	500	1800	1500	400	5600	7100	86.0	36.9

Note:

1 Due to continuos technological improvements, all specifications are subject to change without notice.
2 All Cranes confirm to IS-807 , IS-3177, Class-2 (M5) duty.
3 Details of cranes as per class-3 and 4 duties could be supplied on request.
4 Dimension H1 could be further reduced, but would result in equivalent increase in dimension H2.
5 Above dimensions are for cranes having 6 mtr. lift. There may be minor variations in dimensions for higher height of lift.
6 75/15 and 100/20 Tonnes Cranes are with eight wheels in end carriage . Wheel load calculated accordingly.
7 For Cranes capacities above 100 tonnes or crane span above 22 Mtrs. we can submit separate clearance diagram.

Single Girder EOT Cranes (SG-EOT)



Cap. Tonne	Span Mtrs.	Bridge	A Mtrs.	B Mtrs.	C Mtrs.	D Mtrs.	Wheel Load	Net Wt. Tonne	E1/E2 Mtrs.
1.0	8	Beam	0.65	0.65	0.9	0.7	0.97	1.60	0.2
	10	Beam	0.75	0.65	0.9	0.7	1.06	2.03	0.2
	15	Beam	0.80	0.65	0.9	0.7	1.26	3.00	0.2
	20	Beam	0.80	0.65	0.9	0.7	1.59	4.10	0.2
2.0	8	Beam	0.75	0.80	0.9	0.7	1.54	1.92	0.2
	10	Beam	0.80	0.80	0.9	0.7	1.60	2.12	0.2
	15	Beam	0.80	0.80	0.9	0.7	1.90	3.35	0.2
	20	Beam	0.80	0.80	0.9	0.7	2.26	4.80	0.2
3.0	8	Beam	0.80	0.90	1.0	0.7	2.10	2.00	0.2
	10	Beam	0.80	0.90	1.0	0.7	2.22	2.50	0.2
	15	Beam	0.90	0.90	1.0	0.7	2.62	4.10	0.2
	20	Box	1.00	0.90	1.0	0.7	3.17	6.30	0.2
5.0	8	Beam	0.80	1.10	1.2	0.9	3.37	2.90	0.25
	10	Beam	0.85	1.10	1.2	0.9	3.42	3.10	0.25
	15	Beam	1.00	1.10	1.2	0.9	4.05	5.60	0.25
	20	Box	1.10	1.10	1.2	0.9	4.50	7.40	0.25

Cap. Tonne	Span Mtrs.	Bridge	A Mtrs.	B Mtrs.	C Mtrs.	D Mtrs.	Wheel Load	Net Wt. Tonne	E1/E2 Mtrs.
7.5	8	Beam	0.85	1.40	1.25	1.0	4.85	3.60	0.25
	10	Beam	0.90	1.40	1.25	1.0	5.00	4.20	0.25
	15	Box	1.00	1.40	1.25	1.0	5.50	6.20	0.25
	20	Box	1.20	1.40	1.25	1.0	6.07	8.50	0.25
10.0	8	Beam	0.80	1.60	1.40	1.0	6.32	4.40	0.25
	10	Beam	0.90	1.60	1.40	1.0	6.47	5.00	0.25
	15	Box	1.20	1.60	1.40	1.0	7.02	7.20	0.25
	20	Box	1.30	1.60	1.40	1.0	7.55	9.30	0.25
15.0	8	Box	0.80	1.9	1.50	1.1	9.37	6.00	0.25
	10	Box	0.90	1.9	1.50	1.1	9.50	6.50	0.25
	15	Box	1.20	1.9	1.50	1.1	10.12	9.00	0.25
	20	Box	1.30	1.9	1.50	1.1	10.87	12.00	0.25
20.0	8	Box	1.00	2.2	1.50	1.1	12.20	6.80	0.25
	10	Box	1.10	2.2	1.50	1.1	12.35	7.40	0.25
	15	Box	1.35	2.2	1.50	1.1	13.30	11.20	0.25
	20	Box	1.60	2.2	1.50	1.1	14.10	14.40	0.25

MANGLA

A MUST FOR EVERY INDUSTRY

Product Range

Power Plant Cranes

We offer heavy-duty, low maintenance cranes and components for construction & maintenance of power plants, hydro, wind, Gas Turbine, fossil fuel and nuclear plants with minimum downtime.

Grabbing Cranes

We offer wide range of bulk material handling Grabbing Cranes that are very fast & operate at high speed for moving the materials. Our cranes are specially designed for harsh use & efficient working to give maximum output.

These cranes are used for various applications like Coal handling, Slag handling, Sand handling, Fertilizer handling etc

They are available up to 33mts. span and 15 ton capacity.

Steel Plant Cranes

We specialize in Cranes for Steel Plants and Rolling Mills. Our cranes have both the necessary ruggedness & high degree of accuracy.

These cranes are used for various applications like Coil handling with Tongs, Grabbing type, Ladle crane, Casting crane, Finished product handling crane, Charging crane, Scrap handling with magnet, Auxiliary crane, Rotating trolley crane

Petro-Chemical Industry Cranes & Flame Proof Crane for Defence

We design and deliver cranes for performance and high reliability with emphasis on operator safety, long-term reliability and minimized ownership costs.

These cranes are designed for reliable performance in harsh petro-chemical, refinery environments.

Construction Industry Cranes

We have widest rage of cranes for the construction industry, shipyards. They are easy to use, very economical and effective.

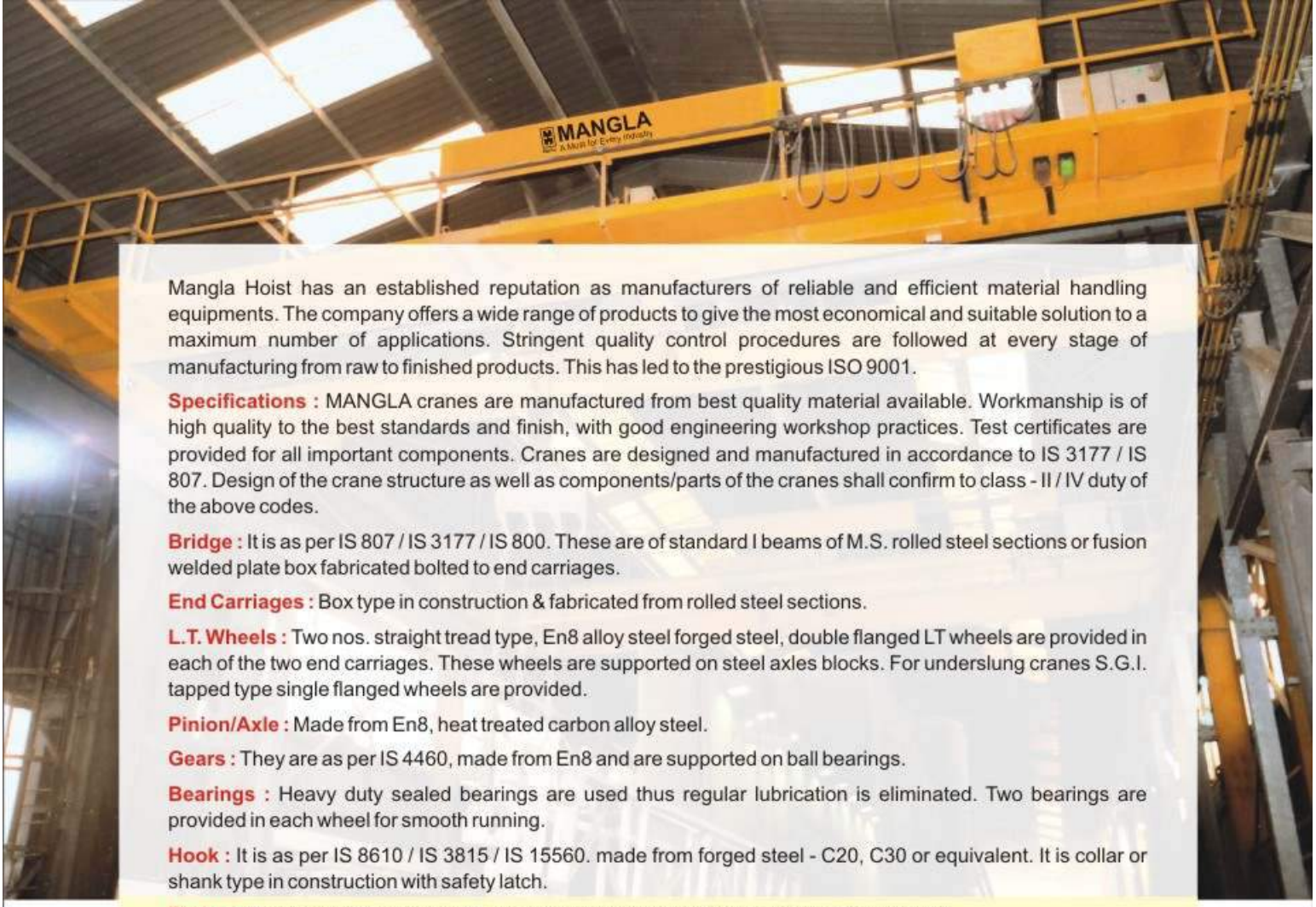
Nuclear Industry Cranes

We offer highly specialized Single Failure Proof cranes for Nuclear Industry applications like handling of Radioactive material. We have expertise in manufacturing & supplying cranes which meet the Nuclear Industry's design & quality norms.

- **Widest Range**
- **Rugged Design**
- **Superior Safety and Reliability**
- **Low Maintenance**
- **Very Competitive Prices**
- **Early Delivery Schedule**

JIB Cranes

Ideal for localised lifting and occupy minimum floor area and can be mounted on existing structure. Self supporting pillar mounted and wall mounted Jib crane with up to 360° swivel (Both manually and electrically operated).



Mangla Hoist has an established reputation as manufacturers of reliable and efficient material handling equipments. The company offers a wide range of products to give the most economical and suitable solution to a maximum number of applications. Stringent quality control procedures are followed at every stage of manufacturing from raw to finished products. This has led to the prestigious ISO 9001.

Specifications : MANGLA cranes are manufactured from best quality material available. Workmanship is of high quality to the best standards and finish, with good engineering workshop practices. Test certificates are provided for all important components. Cranes are designed and manufactured in accordance to IS 3177 / IS 807. Design of the crane structure as well as components/parts of the cranes shall confirm to class - II / IV duty of the above codes.

Bridge : It is as per IS 807 / IS 3177 / IS 800. These are of standard I beams of M.S. rolled steel sections or fusion welded plate box fabricated bolted to end carriages.

End Carriages : Box type in construction & fabricated from rolled steel sections.

L.T. Wheels : Two nos. straight tread type, En8 alloy steel forged steel, double flanged LT wheels are provided in each of the two end carriages. These wheels are supported on steel axles blocks. For underslung cranes S.G.I. tapped type single flanged wheels are provided.

Pinion/Axle : Made from En8, heat treated carbon alloy steel.

Gears : They are as per IS 4460, made from En8 and are supported on ball bearings.

Bearings : Heavy duty sealed bearings are used thus regular lubrication is eliminated. Two bearings are provided in each wheel for smooth running.

Hook : It is as per IS 8610 / IS 3815 / IS 15560. made from forged steel - C20, C30 or equivalent. It is collar or shank type in construction with safety latch.

Brakes : Brakes are heavy duty A.C. electromagnetic disc / electro hydraulic thrustor type.

Control Panel : Mounted on hoist / crane sheet metal clad in totally enclosed construction with IP-55 protection. It consists of control transformer, isolator, master contactor for mains ON/OFF, MCB's, contactors and overload relays for all motors.

Pendant : Consists of push buttons housed in dust proof housing and suspended from crane. Wire rope is provided to prevent pull on pendant cables.

Safety : Electrical interlocking is provided to avoid accidental simultaneous motions of crane due to activation of multiple push button at the same time.

Hoist : Wire Rope Electrical Hoist which is generally conforming to IS 3938. Externally mounted TEFC, squirrel cage or slipring, S4 crane duty induction motor is provided for hoisting. Wire rope is as per IS 2266 and hoist motor is as per IS 325 with class 'F' insulation and IP-55 protection. Hoist drum is of seamless steel pipe.

Testing : For all motions at 25% over-load as per IS:3177

Improvements : Our engineering department continuously works on design improvement and we reserve the right of affecting any changes found necessary without notice. Considering this, dimensions, specifications and illustrations may differ.

• E.O.T / H.O.T Cranes • JIB Cranes • Goliath / Gantry
• Grabbing Cranes • Steel Mill Cranes • Frame Proof Cranes
• Electric Hoist • Grab Buckets • Electric Winch • Goods Lifts

MANGLA

MANGLA HOIST PVT. LTD.

A MUST FOR EVERY INDUSTRY

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