

QUANTITY: 01 Nos.

ITEM NO. 1. ELECTRICAL CHAIN HOIST SPECIFICATIONS:

Type of Crane	Single Girder Crane.
Headroom	Ultra Low Head Room
Load lifting capacity	1000 Kg
Country of Origin	European / Japan / Turkey
Hoisting speed (Fast/Slow)	6 / 1.5 m/min (or equiv. Std. speeds)
Lift	5.2 m. (Adjustable to any desired height)
Service Class	CMAA Class C
Type of Hook	Stainless Steel "C" Shape, 360° Rotation, Equipped with spring loaded safety latch
Type of Chain	Galvanized Steel Link Chain
Design Standard	DIN15020 FEM 2m rule
Mode of control	Pendant Control & Wireless(Radio)
Crane Span	3.727 m
Environment	Indoor, Temp 15C° to 70C°
Main Power Source	A.C, 3Phase, 400±5% Volts, 50Hz.
IP Rating	IP 65

I(a): HOIST CARRIAGE SPECIFICATION (SINGLE GIRDER).

No. of Wheel Blocks	4 Nos. of Wheel blocks (02Nos. driven and 02Nos. driving type using geared brake motors).
Type of Wheels	Flanged guided type wheels suitable for Flange Width=152mm
Group of Mechanism to FEM	2m
Traversing (Trolley speed) Fast/Slow	6/1.5 m/min (or equiv. Std. speeds)

(b): ACCESSORIES.

1. Push button pendant control independently mobile type on separate track parallel to Runway length of 6025 mm c/w support arms, C-rails, support clamps, cable trolleys, end clamps, towing trolley, towing arms, cable reeling drums and all other accessories/ fittings and 12 m round pendant cable (Neoprene jacketed type), along with wireless radio remote should be provided.
2. Only junction boxes for electrical connections, control and safety terminations may be provided inside workplace of (6025 x 4000 mm, H= 5200mm), while all other control boxes including pendant control shall be provided outside workplace along with recommended cable lengths for installation in operation area.
3. Festoon type power supply (Neoprene jacketed type) for hoist c/w support arms, cable reeling drum and all other accessories/ fittings etc., For span of 3.727m.
4. Low voltage control panel consisting of all protection relays and fitted with necessary contactors.
5. Hoist shall be equipped with Load Indicator.

ITEM NO. 2: SET OF WHEEL BLOCKS/END CARRIAGE SPECIFICATIONS.

No. of Wheel Blocks	4Nos. of Wheel blocks (2Nos. driven and 2Nos. driving type using geared brake motors).
Type of Wheels	Double Flanged guided type.
Rail size for End Carriage wheels	Billet 40x40
Group of Mechanism to FEM	2m
Travelling (Bridge speed) Fast/Slow	10/2 m/min (or equiv. Std. speeds)

2 (a): ACCESSORIES.

1. Fittings and Screws of the wheel blocks for fastening the wheel block with the end girders.
2. Cable reeling drum system equipped with magnetic coupler/motor (for workplace length of 6025mm) and main isolating switch suitable for electrical supply to operate the crane.
3. Low voltage control panel consisting of all protection relays and fitted with necessary contactors.

ITEM NO.3: SAFETY DEVICES.

1. All motors shall have built-in brakes which will automatically actuate when power is switched off.
2. Limit switches shall be provided for each crane motion for added safety. Over hoisting and over lowering limit switches shall be provided.
3. Rubber buffers on Hoist and Crane.
4. Galvanized steel link type hoisting chain shall be provided.
5. All festoon/ Pendant cables shall be neoprene jacketed type.
6. Flexible chain container/ chain guide.
7. Winding of each motor should be of class H.

ITEM NO. 4: SPARES.

All spares required for normal operation of 5 years including:

i) Galvanized steel link chain	01 length
ii) Emergency hoisting limit switch.	01 No.
iii) Brake disk with lining for hoisting motor.	02 Nos.
iv) Brake disk with lining for cross travel motors.	02 Nos./ motor.
v) Brake disk with lining for long travel motor.	02 Nos./ motor
vi) Control Pendant with 11m round cable (Neoprene jacketed type)	02 Sets.
vii) Stainless Steel Hook "C" shape, 360° Rotation Equipped with spring loaded safety latch.	01 No.
viii) Limit switch for cross & Long travel.	01 No. each
ix) All other spare parts as recommended by the Manufacturer/Principal	
x) Spare Hoist, cross travel and long travel motors may also be included.	
xi) Spare for each control item of low voltage control panel may also be provided.	

ITEM NO.5: DOCUMENTS (Hard + Soft Copy).

1.	Hoist & End Carriage Data Sheets immediately after placement of Purchase Order.
2.	Proof Load Test Certificate.
3.	Test certificate for Hoist by the principal.
4.	Galvanized steel link chain and hook test certificate by the principal.
5.	Detailed electric wiring diagrams
6.	Installation, Operational & Maintenance manuals
7.	Language of description for above documents shall be in English.

CHECK LIST

Please carefully fill all the entries by either encircling "YES" or "No" and mention specifications of offered components when "No" is encircled. Use separate sheet if required. Duly filled check list must be submitted along with offer.

**Key Components for 01 Ton Single Girder EOT Crane as per attached
specification Annexure-D (Rev.0) (Quantity : 01 No./ Set)**

ITEM NO. I. ELECTRICAL CHAIN HOIST SPECIFICATIONS:			Encircle		Offered Specs (Where "No" is encircled)
1	Type of Crane	Single Girder Crane.	Yes	No	
2	Headroom	Ultra Low Head Room	Yes	No	
3	Load lifting capacity	1000 Kg	Yes	No	
4	Country of Origin	European / Japan / Turkey	Yes	No	
5	Hoisting speed (Fast/Slow)	6 / 1.5 m/min (or equiv. Std. speeds)	Yes	No	
6	Lift	5.2 m. (Adjustable to any desired height)	Yes	No	
7	Service Class	CMAA, Class C	Yes	No	
8	Type of Hook	Stainless Steel "C" Shape, 360° Rotation, Equipped with spring loaded safety latch	Yes	No	
9	Type of Chain	Galvanized Steel Link Chain	Yes	No	
10	Design Standard	DIN15020 FEM 2m rule	Yes	No	
11	Mode of control	Pendant Control & Wireless(Radio)	Yes	No	
12	Crane Span	3.727 m	Yes	No	
13	Environment	Indoor, Temp 15C° to 70C°	Yes	No	
14	Main Power Source	A.C, 3Phase, 400±5% Volts, 50Hz.	Yes	No	
15	IP Rating	IP56	Yes	No	
I(a): HOIST CARRIAGE SPECIFICATION (SINGLE GIRDER)			Encircle		Offered Specs (Where No is encircled)
16	No. of Wheel Blocks	04Nos. of Wheel blocks (02Nos. driven and 02Nos. driving type using geared brake motors).	Yes	No	
17	Type of Wheels	Flanged guided type wheels suitable for Flange Width=152mm	Yes	No	
18	Group of Mechanism to FEM	2m	Yes	No	
19	Traversing (Trolley speed) Fast/Slow	6/1.5 m/min (or equiv. Std. speeds)	Please write Trolley speed in next column		
I (b): Accessories			Encircle		Offered Specs (Where No is encircled)
20	Push button pendant control independently mobile type on separate track parallel to Runway length of 6025 mm c/w support arms, C-rails, support clamps, cable trolleys, end clamps, towing trolley, towing arms, cable reeling drums and all other accessories/ fittings and 12 m round pendant cable (Neoprene jacketed type), along with wireless radio remote should be provided.		Yes	No	
21	Only junction boxes for electrical connections, control and safety terminations may be provided inside workplace of (6025 x 4000 mm, H= 5200mm), while all other control boxes including pendant control shall be provided outside workplace along with recommended cable lengths for installation in operation area.		Yes	No	
22	Festoon type power supply (Neoprene jacketed type) for hoist c/w support arms, cable reeling drum and all other accessories/ fittings etc. For span of 3.727m.		Yes	No	
23	Low voltage control panel consisting of all protection relays and fitted with necessary contactors.		Yes	No	
24	Hoist shall be equipped with Load Indicator.		Yes	No	

CHECK LIST (continued)

ITEM NO. 2:			Encircle		Offered Specs (Where No is encircled)
SET OF WHEEL BLOCKS/END CARRIAGE SPECIFICATIONS.					
25	No. of Wheel Blocks	4Nos. of Wheel blocks (2Nos. driven and 2Nos. driving type using geared brake motors).	Yes	No	
26	Type of Wheels	Double Flanged guided type.	Yes	No	
27	Rail size for End Carriage wheels	Billet 40x40	Yes	No	
28	Group of Mechanism to FEM	2m	Yes	No	
29	Travelling (Bridge speed) Fast/Slow	10/2 m/min (or equiv. Std. speeds)	Yes	No	
2(a): Accessories			Encircle		Offered Specs (Where No is encircled)
30	Fittings and Screws of the wheel blocks for fastening the wheel block with the end girders.		Yes	No	
31	Cable reeling drum system equipped with magnetic coupler/motor (for workplace length of 6025mm) and main isolating switch suitable for electrical supply to operate the crane.		Yes	No	
32	Low voltage control panel consisting of all protection relays and fitted with necessary contactors.		Yes	No	
ITEM NO. 3 SAFETY DEVICES			Encircle		Offered Specs (Where No is encircled)
33	All motors shall have built-in brakes which will automatically actuate when power is switched off.		Yes	No	
34	Limit switches shall be provided for each crane motion for added safety. Over hoisting and over lowering limit switches shall be provided.		Yes	No	
35	Rubber buffers on Hoist and Crane.		Yes	No	
36	Galvanized steel link type hoisting chain shall be provided.		Yes	No	
37	All festoon/ Pendant cables shall be neoprene jacketed type.		Yes	No	
38	Flexible chain container/ chain guide.		Yes	No	
39	Winding of each motor should be of class H.		Yes	No	
ITEM NO. 4: SPARES			Encircle		Offered Specs (Where No is encircled)
All spares required for normal operation of 5 years. Including					
40	Galvanized steel link chain	01 length	Yes	No	
41	Emergency hoist limit switch.	01 No.	Yes	No	
42	Brake disk with lining for hoisting motor.	02 Nos.	Yes	No	
43	Brake disk with lining for cross travel motor.	02 Nos.	Yes	No	
44	Brake disk with lining for long travel motor.	02 Nos.	Yes	No	
45	Control Pendant with 11m round cable (Neoprene jacketed type)	01 No.	Yes	No	
46	Stainless Steel Hook "C" shape, 360° Rotation Equipped with spring loaded safety latch.	01 No.	Yes	No	
47	Limit switch for cross & Long travel.	01 No.each	Yes	No	
48	All other spare parts as recommended by the Manufacturer/Principal		Yes	No	
49	Spare Hoist, cross travel and long travel motors may also be included.		Yes	No	
50	Spare for each control item of low voltage control panel may also be provided.		Yes	No	
ITEM NO.5: DOCUMENTS (Hard + Soft Copy).			Encircle		Offered Specs (Where No is encircled)
51	Hoist & End Carriage Data Sheets immediately after placement of Purchase Order.		Yes	No	
52	Proof Load Test Certificate.		Yes	No	
53	Test certificate for Hoist by the principal.		Yes	No	
54	Galvanized steel link chain and hook test certificate by the principal.		Yes	No	
55	Detailed electric wiring diagrams.		Yes	No	
56	Installation, Operational & Maintenance manuals.		Yes	No	
57	Language of description for above documents shall be in English.		Yes	No	