

ELECTRIC OVERHEAD TRAVELLING CRANES

DOUBLE GIRDER EOT CRANES

Technical Specification Summary | Capacities up to 75 Tonnes



LiftoMech double girder EOT cranes in service

APPLICATIONS

Heavy

Engineering | Manufacturing | Steel | Foundries | Warehousing | Industrial
Material Handling

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LIFTOMECH CRANES INDIA

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01 PRODUCT OVERVIEW

Double girder Electric Overhead Travelling (EOT) cranes span a building bay on two parallel main girders. A motorised crab (hoist trolley) travels on rails along the top of the girders, while end carriages at each side carry the bridge along the elevated runway.

This arrangement suits medium- and heavy-duty material handling where higher capacities, longer spans or more demanding duty cycles are needed. Because the crab runs above the girders rather than beneath them, a double girder design can achieve greater lifting heights and closer hook approaches than comparable single girder designs, depending on the configuration.

LiftoMech engineers each double girder crane for its application. Capacity, span, lifting height, travel speeds, duty classification, control method and the electrical and mechanical systems are selected for the project and confirmed in the technical offer and the approved GA drawings.



LiftoMech double girder bridge with crab on girders

PRINCIPAL FEATURES

<p>01 Two main bridge girders</p> <p>Parallel box or fabricated girders support the crab/hoist trolley running on rails mounted on top.</p>	<p>02 Medium- to heavy-duty handling</p> <p>Suitable for demanding operating cycles, with capacities configurable up to 75 t.</p>
<p>03 Configurable geometry and speeds</p> <p>Lifting height, span, hoisting and travel speeds, and duty class are selected for each application.</p>	<p>04 Higher hook approach potential</p> <p>Greater lifting heights and closer hook approaches may be achievable, depending on the design.</p>
<p>05 Choice of control</p> <p>Pendant, radio remote or cabin control, as specified for the project.</p>	<p>06 Application-specific systems</p> <p>Electrical and mechanical systems are configured for the load, duty and site conditions.</p>

02 CAPACITY RANGE

Indicative rated-capacity options, in tonnes (t)

5	10	15	20	25	30	35	40	50	60	75
t	t	t	t	t	t	t	t	t	t	t

INDICATIVE These capacity options are indicative and depend on engineering feasibility and project requirements. Not every capacity is available in every span, lifting height, duty class or operating configuration. The rated capacity and lifting arrangement are confirmed for each project.

03 TECHNICAL SPECIFICATION SUMMARY

PRODUCT BASIS Defines the product type

SELECTABLE Chosen from the available options

PROJECT-DEPENDENT Finalised in engineering

PARAMETER	SPECIFICATION	BASIS
GENERAL CONFIGURATION		
Crane Type	Double Girder Electric Overhead Travelling (EOT) Crane	PRODUCT BASIS
Main Bridge Configuration	Double girder	PRODUCT BASIS
Rated Lifting Capacity	Configurable up to 75 t	SELECTABLE
Lifting Arrangement	Electric hoist / wire-rope hoist crab, as applicable	SELECTABLE
Span	As per building layout and customer requirement	PROJECT-DEPENDENT
Lifting Height	As per customer requirement	PROJECT-DEPENDENT
Duty Classification	As per the applicable design standard and operating cycle	PROJECT-DEPENDENT
SPEEDS (M/MIN)		
Hoisting Speed	Selected according to capacity and duty	PROJECT-DEPENDENT
Cross Travel Speed	Selected according to application	PROJECT-DEPENDENT
Long Travel Speed	Selected according to application	PROJECT-DEPENDENT
MECHANICAL		
Hoist Trolley	Motorised crab/trolley travelling on the bridge girders	PRODUCT BASIS
Bridge Travel	Motorised end carriages and wheel assemblies	PRODUCT BASIS
Gearboxes	Industrial-duty geared drive arrangement	PROJECT-DEPENDENT
Brakes	Electrically operated braking arrangement suitable for the application	PROJECT-DEPENDENT
ELECTRICAL AND CONTROLS		
Motors	Selected according to duty, load, speed and operating conditions	PROJECT-DEPENDENT
Electrical Supply	As specified by the customer and site conditions	PROJECT-DEPENDENT
Control Panel	Designed for the selected crane configuration	PROJECT-DEPENDENT
Control Options	Pendant / radio remote / cabin, subject to configuration	SELECTABLE
SAFETY DEVICES		
Travel Limit Protection	As required by the design and risk assessment	PROJECT-DEPENDENT
Overload Protection	As required by applicable standards and the selected configuration	PROJECT-DEPENDENT
Buffers and End Stops	As per design and applicable requirements	PROJECT-DEPENDENT
SCOPE, FINISH AND DOCUMENTATION		
Crane Rails and Festoon System	As per project scope	PROJECT-DEPENDENT
Surface Protection	As per the agreed paint system and environmental conditions	PROJECT-DEPENDENT
Testing and Inspection	As per applicable standards and the approved inspection plan	PROJECT-DEPENDENT
Documentation	GA drawings, technical documents, test certificates and manuals, as applicable	PROJECT-DEPENDENT

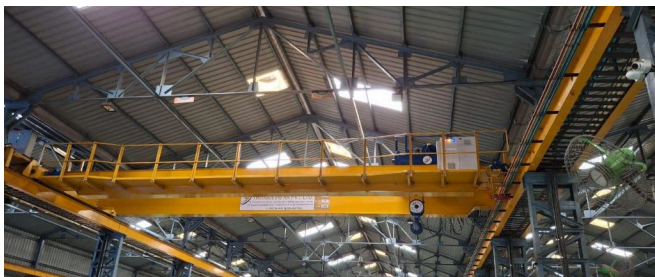
FINAL VALUES

All values are finalised through technical discussions, the approved general arrangement (GA) drawings and project-specific engineering. The project-specific technical offer identifies which features are standard and which are optional.

04 DESIGN AND OPERATING PARAMETERS

Each double girder EOT crane is engineered for its application. The following parameters are finalised for every project, based on customer inputs, site data and the applicable design standard. Where data is unknown at the enquiry stage, it's treated as project-dependent until engineering confirms it.

01	Rated capacity and lifting arrangement	02	Crane span and runway geometry
03	Lifting height and hook approach	04	Hoisting, cross-travel and long-travel speeds
05	Duty classification and expected operating cycle	06	Crane girder design and structural calculations
07	Wheel loads and runway interface	08	Motor power, control philosophy and braking arrangements
09	Power supply and conductor/festoon configuration	10	Indoor/outdoor operation and environmental conditions
11	Special requirements, such as hazardous-area operation, high-temperature service or corrosion protection		



Crab, walkway and handrails on bridge girders



LiftoMech twin-girder bridges with hook blocks

05 DESIGN, MANUFACTURING AND INSPECTION STANDARDS

Design standards are referenced only where they apply to the equipment and project. The standards that govern a project are listed in its technical offer.

REFERENCE	TITLE	APPLICABILITY
IS 3177	Electric Overhead Travelling Cranes and Gantry Cranes Other Than Steel Work Cranes — Code of Practice	Primary design reference, where applicable
IS 807	Design, Erection and Testing (Structural Portion) of Cranes and Hoists — Code of Practice	Structural design, erection and testing, where applicable
Other BIS / IEC	Relevant BIS and IEC standards for electrical equipment, motors and control gear	As identified for the selected configuration
Statutory	Electrical safety and statutory requirements applicable at the installation site	As per project location and scope

DESIGN STANDARDS

Codes of practice used as the basis for design, manufacture and testing. Referencing a standard here doesn't imply third-party certification.

CERTIFICATIONS AND APPROVALS

Product certifications, third-party inspections or approvals are provided only when specifically agreed in the contract and confirmed in the project documents.

06 QUALITY ASSURANCE AND DOCUMENTATION

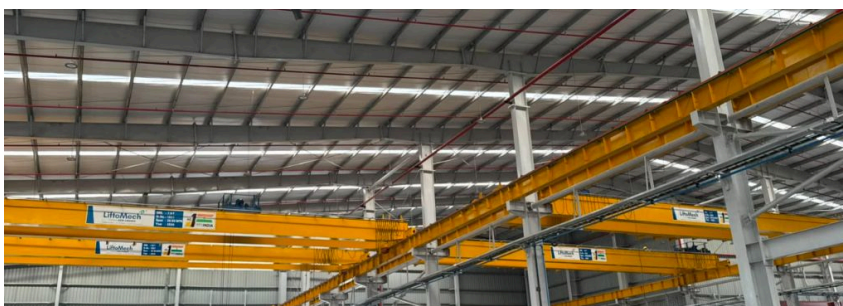
The quality and handover documents below are typical project deliverables. The exact set depends on the approved scope of supply and the contract.

	DELIVERABLE	TYPICAL STAGE
01	Approved general arrangement (GA) drawings	Engineering
02	Design calculations and wheel-load information, as applicable	Engineering
03	Inspection and testing plan / quality assurance plan, as agreed	Engineering · Manufacturing
04	Material and component documentation, as applicable	Manufacturing
05	Load-test reports and inspection records	Testing · Commissioning
06	Electrical drawings and operating documentation	Handover
07	Installation, operation, maintenance and safety manual	Handover
08	Warranty and service documentation, as agreed	Handover

07 APPLICATIONS

HE Heavy engineering	SF Steel plants and foundries	AU Automotive and auto-component manufacturing	GE General engineering workshops
FB Fabrication facilities	PP Power and process industries	IM Industrial manufacturing plants	WH Warehousing and heavy material handling

The configuration for special service conditions, such as steel works duty, high ambient temperature or corrosive environments, is defined during project engineering.



Multi-crane installation in a manufacturing facility



15/5 t double girder crane, workshop installation

08 IMPORTANT TECHNICAL NOTE

PLEASE READ

This datasheet provides a general specification summary for LiftoMech double girder EOT cranes with rated capacities up to 75 tonnes. Final specifications, performance parameters, duty classification, structural design, component selection, applicable standards and scope of supply shall be confirmed for each project. The approved technical offer, GA drawings and contractual documents shall govern the final configuration.

Standard and optional features shall be identified in the project-specific technical offer. Nothing in this datasheet constitutes a performance guarantee or a certification claim.

09 CONTACT



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ENQUIRIES

To get a project-specific technical offer, share the required capacity, span, lifting height, duty and operating conditions, power supply, control preference and any special requirements. LiftoMech will confirm the configuration through technical discussion and GA drawings.

DOCUMENT CONTROL

DOCUMENT DS-DGEOT-75	REVISION 00	DATE Oct 2026
PREPARED	CHECKED	APPROVED (ENGINEERING)

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Photographs show installations of double girder EOT cranes; configurations vary by project.