



EOT
CRANES



GANTRY
CRANES



HOISTS



MAINTENANCE



GEARBOX
SOLUTIONS

PRODUCT CATALOGUE

End-to-end crane solutions
designed to deliver performance,
safety, and reliability.



500+

Happy Clients



2000+

Projects Completed



50+

Expert Engineers



50000+

Cranes Installed

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+91 7984019544



avaniengineering03@gmail.com



www.avaniengineering.com



112, Nandan One,
Bakrol-Gatrad Road,
Bakrol, Ahmedabad - 382445,
Gujarat, India.

**ENGINEERING
EXCELLENCE.
LIFTING**

EOT CRANES

RELIABLE. ROBUST. READY TO LIFT.

Our EOT Cranes are designed for heavy-duty performance with maximum safety, durability, and efficiency. Engineered to meet international standards, they ensure smooth operations and low maintenance for a long service life.



**SAFE
OPERATION**



**HIGH
PERFORMANCE**



**LOW
MAINTENANCE**



**COST
EFFECTIVE**



ROBUST HOIST
High duty cycle hoists for smooth & safe lifting.



EASY CONTROL
Ergonomic pendant with precise control.



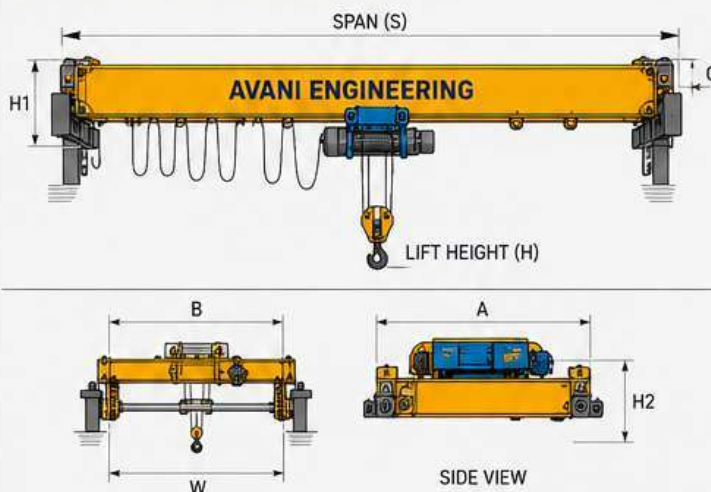
ADVANCED SAFETY
Advanced electricals for safe & reliable operation.

TECHNICAL SPECIFICATION

Capacity (SWL)	1 Ton to 50 Ton
Span	Up to 30 Meter
Lift Height	Up to 30 Meter
Duty Class	Class II / III / IV / V (As per IS 3177 / FEM)
Hoist Type	Wire Rope Hoist / Chain Hoist
Trolley Type	Manually / Motorized Operated
Crane Travel	VFD / DOL / Soft Starter
Power Supply	415V, 3 Phase, 50 Hz
Control	Pendant / Radio Remote Control
Braking System	Electromagnetic / Dynamic Braking
Protection Class	IP55 (Standard)
Standards	IS 3177 / IS 807 / IS 4137 / FEM / ISO

* Custom design available as per requirement.

DIMENSIONAL DRAWING (TYPICAL)



STANDARD FEATURES

- Compact design with optimized headroom
- Smooth start/stop with VFD control
- Overload protection device
- Limit switches for safe operations
- Emergency stop push button
- Weather protected electricals
- Long life and low maintenance

SAFETY FEATURES

- Overload Limiter
- High/Low Limit Switch
- Emergency Stop System
- Phase Failure & Phase Sequence Protection
- Voltage Protection
- Current Overload Protection
- Brake Failure Protection

OPTIONS

- Radio Remote Control
- Anti-Collision System
- Crane Health Monitoring System (CHMS)
- Load Display
- Flameproof / Weatherproof Panel
- Stainless Steel / Corrosion Resistant Design

APPLICATIONS



**MANUFACTURING
INDUSTRIES**



**STEEL & METAL
INDUSTRIES**



**WAREHOUSE &
LOGISTICS**



POWER PLANTS



**AUTOMOBILE
INDUSTRIES**



**CEMENT
INDUSTRIES**



**SHIPYARD &
PORTS**

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**ENGINEERING.
EXCELLENCE.**



GOLIATH / GANTRY CRANES

BUILT STRONG. LIFTING BEYOND LIMITS.



HEAVY DUTY
CAPACITY



SUPERIOR
SAFETY



SMOOTH &
RELIABLE



WEATHER
RESISTANT

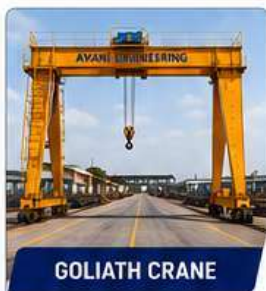


LOW
MAINTENANCE



CUSTOM
DESIGN

TYPES OF GANTRY CRANES



GOLIATH CRANE

Ideal for heavy loads and large outdoor operations.



**SINGLE GIRDER
GANTRY CRANE**

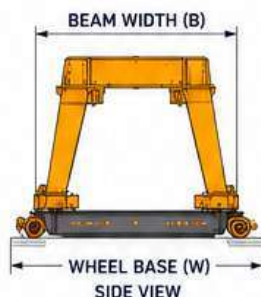
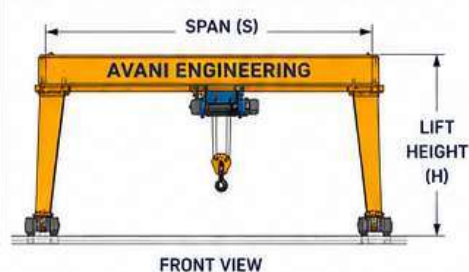
Cost-effective solution for medium duty applications.



**DOUBLE GIRDER
GANTRY CRANE**

High capacity crane for maximum lifting needs.

DIMENSIONAL DRAWING (TYPICAL)



S = Span
H = Lift Height
B = Beam Width
W = Wheel Base

TECHNICAL SPECIFICATION

Capacity (SWL)	1 Ton to 200 Ton
Span	Up to 50 Meter
Lift Height	Up to 30 Meter (or as required)
Duty Class	Class II / III / IV / V (As per IS 3177 / FEM)
Hoist Type	Wire Rope Hoist / Chain Hoist
Trolley Type	Manual / Motorized
Crane Travel	VFD / DOL / Soft Starter
Power Supply	415V, 3 Phase, 50 Hz
Control	Pendant / Radio Remote Control
Braking System	Electromagnetic / Dynamic Braking
Protection Class	IP55 (Standard)
Standards	IS 3177 / IS 807 / IS 4137 / FEM / ISO

* Custom design available as per requirement.



STANDARD FEATURES

- ✓ Robust steel structure
- ✓ High strength end carriages
- ✓ Heavy duty wheels & rails
- ✓ Limit switches for all motions
- ✓ Pendant control with E-stop
- ✓ Weather resistant paint system
- ✓ Easy maintenance & long service life



SAFETY FEATURES

- ✓ Overload Limiter
- ✓ High / Low Limit Switch
- ✓ Emergency Stop System
- ✓ Phase Failure & Phase Sequence Protection
- ✓ Voltage Protection
- ✓ Current Overload Protection
- ✓ Brake Failure Protection



OPTIONS

- ✓ Radio Remote Control
- ✓ Anti-Collision System
- ✓ Crane Health Monitoring System (CHMS)
- ✓ Load Display
- ✓ CCTV Camera
- ✓ Wind Speed Indicator
- ✓ Flameproof / Weatherproof Design

APPLICATIONS



STEEL PLANTS



FABRICATION
YARDS



PRECAST
YARDS



SHIPYARDS



WAREHOUSES &
LOGISTICS



POWER PLANTS



INFRASTRUCTURE
PROJECTS



CEMENT
INDUSTRIES

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ENGINEERING.
EXCELLENCE

JIB CRANES

SMART. PRECISE. SPACE-SAVING.

Ideal for lifting and positioning loads in limited space with ease and efficiency.



SAFE &
RELIABLE



EASY
OPERATION



SPACE
SAVING



LOW
MAINTENANCE



COST
EFFECTIVE



CUSTOM
DESIGN



TYPES OF JIB CRANES

WALL MOUNTED JIB CRANE



Mounted on wall or column, ideal for areas with limited floor space.

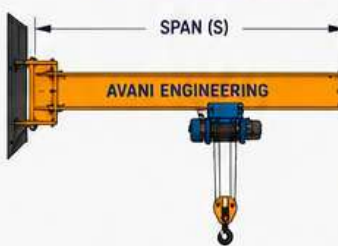
PILLAR MOUNTED JIB CRANE



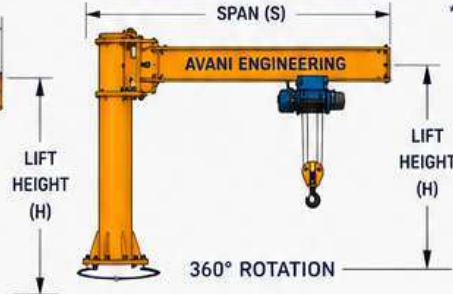
Mounted on a pillar with 360° rotation, suitable for wider working coverage.

DIMENSIONAL DRAWING (TYPICAL)

WALL MOUNTED JIB CRANE



PILLAR MOUNTED JIB CRANE



S = Span
H = Lift Height
R = Rotation
180° / 270° / 360°
(As per requirement)

* Custom design available as per requirement.

TECHNICAL SPECIFICATION

Capacity (SWL)	125 kg to 5 Ton
Span	Up to 7.5 Meter (As per requirement)
Lift Height	Up to 6 Meter (As per requirement)
Duty Class	Class II / III / IV (As per IS 3177 / FEM)
Hoist Type	Wire Rope Hoist / Chain Hoist
Trolley Type	Manual / Motorized (Optional)
Rotation	180° / 270° / 360° (As per application)
Power Supply	415V, 3 Phase, 50 Hz
Control	Pendant / Radio Remote Control
Braking System	Electromagnetic / Dynamic Braking
Protection Class	IP55 (Standard)
Standards	IS 3177 / IS 807 / IS 4137 / FEM / ISO

STANDARD FEATURES

- ✓ Robust steel construction
- ✓ Smooth rotation with heavy duty bearings
- ✓ High strength and compact design
- ✓ Limit switches for all motions
- ✓ Pendant control with E-stop
- ✓ Weather resistant paint system
- ✓ Easy installation & maintenance

SAFETY FEATURES

- ✓ Overload Limiter
- ✓ High/Low Limit Switch
- ✓ Emergency Stop System
- ✓ Phase Failure & Phase Sequence Protection
- ✓ Voltage Protection
- ✓ Current Overload Protection
- ✓ Brake Failure Protection

OPTIONS

- ✓ Radio Remote Control
- ✓ Anti-Collision System
- ✓ Variable Speed Drive (VFD)
- ✓ Crane Health Monitoring System (CHMS)
- ✓ Load Display
- ✓ Flameproof / Weatherproof Design
- ✓ Stainless Steel Design

APPLICATIONS



MACHINE SHOPS



ASSEMBLY LINES



WAREHOUSES



MAINTENANCE
AREAS



MATERIAL
HANDLING



PRODUCTION
AREAS



DIE & MOULD
HANDLING



LABORATORIES

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ENGINEERING.

UNDERSLUNG EOT CRANES

MAXIMUM LIFT. MINIMUM HEADROOM.

Underslung EOT Cranes are designed with the girder and hoist trolley running on the lower flange of the runway beam, maximizing headroom and optimizing space.



TYPES OF UNDERSLUNG EOT CRANES



STANDARD UNDERSLUNG EOT CRANES

Ideal for areas with limited headroom where top running cranes are not feasible.

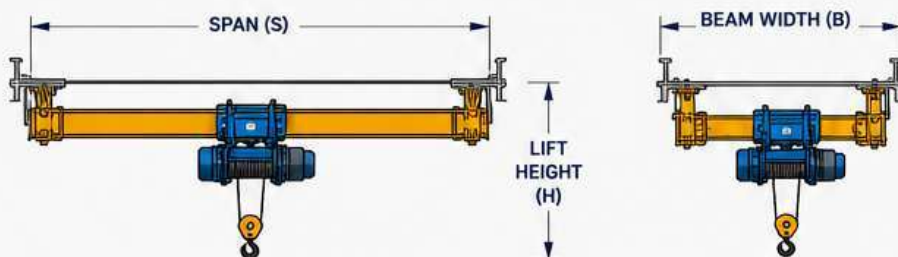
- ✓ Compact & space efficient
- ✓ Smooth operations
- ✓ Maximum lifting height
- ✓ Low maintenance
- ✓ Custom designs available

TECHNICAL SPECIFICATION

Capacity (SWL)	1 Ton to 20 Ton
Span	Up to 20 Meter (As per requirement)
Lift Height	Up to 20 Meter (As per requirement)
Duty Class	Class II / III / IV (As per IS 3177 / FEM)
Hoist Type	Wire Rope Hoist / Chain Hoist
Trolley Type	Manual / Motorized
Crane Travel	VFD / DOL / Soft Starter
Power Supply	415V, 3 Phase, 50 Hz
Control	Pendant / Radio Remote Control
Braking System	Electromagnetic / Dynamic Braking
Protection Class	IP55 (Standard)
Standards	IS 3177 / IS 807 / IS 4137 / FEM / ISO

* Custom design available as per requirement.

DIMENSIONAL DRAWING (TYPICAL)



S = Span
H = Lift Height
B = Beam Width

Note: Girder and hoist trolley run below the runway beam (underslung).

STANDARD FEATURES

- ✓ Girder and hoist trolley run below runway beam
- ✓ Compact design for maximum headroom
- ✓ High quality wheels & rails
- ✓ Smooth operation with VFD control
- ✓ Limit switches for all motions
- ✓ Pendant control with E-stop
- ✓ Weather resistant paint system
- ✓ Easy installation and maintenance

SAFETY FEATURES

- ✓ Overload Limiter
- ✓ High/Low Limit Switch
- ✓ Emergency Stop System
- ✓ Phase Failure & Phase Sequence Protection
- ✓ Voltage Protection
- ✓ Current Overload Protection
- ✓ Brake Failure Protection

OPTIONS

- ✓ Radio Remote Control
- ✓ Anti-Collision System
- ✓ Crane Health Monitoring System (CHMS)
- ✓ Load Display
- ✓ CCTV Camera
- ✓ Flameproof / Weatherproof Design
- ✓ Stainless Steel / Corrosion Resistant Design

APPLICATIONS



WORKSHOPS



WAREHOUSES



PRODUCTION UNITS



ASSEMBLY LINES



PAINTING BOOTHS



LABORATORIES



CLEAN ROOMS



TEXTILE INDUSTRIES



**BUILT
STRONG
TO LIFT
EVERY TIME**



WIRE ROPE HOISTS

POWERFUL. RELIABLE. BUILT TO LIFT.

Avani Engineering Wire Rope Hoists are engineered for high performance, safety and durability to handle every lifting need with efficiency and confidence.

-  **HIGH PERFORMANCE**
-  **SAFE & RELIABLE**
-  **LONG SERVICE LIFE**
-  **LOW MAINTENANCE**
-  **SMOOTH OPERATION**
-  **COST EFFECTIVE**
-  **CUSTOM DESIGN**

TYPES OF WIRE ROPE HOISTS

SINGLE SPEED HOIST



Standard lifting solution for general applications.

DOUBLE SPEED HOIST



Two-speed operation for better control and safety.

VARIABLE SPEED HOIST



Variable frequency drive for smooth and precise lifting operations.

LOW HEADROOM HOIST



Designed for applications with limited headroom and maximum lift.

TECHNICAL SPECIFICATION

Capacity (SWL)	500 kg to 50 Ton
Lift Height	Up to 100 Meter (As per requirement)
Speed (Hoist)	Single / Double / Variable Speed
Speed (Trolley)	Single / Double Speed
Duty Class	Class III / IV / V (As per IS 3177 / FEM)
Hoist Type	Wire Rope Hoist
Rope Type	Galvanized Steel Wire Rope (6x36)
No. of Falls	2 / 4 / 6 / 8
Power Supply	415V, 3 Phase, 50 Hz
Control	Pendant / Radio Remote Control
Braking System	Electromagnetic / Dynamic Braking
Protection Class	IP55 (Standard)
Standards	IS 3177 / IS 807 / IS 4137 / FEM / ISO

* Custom design available as per requirement.

STANDARD FEATURES



High Quality Wheels for Smooth Travel



High Strength Wire Rope for Maximum Safety



Premium Efficiency Motor



Heavy Duty Hook Block with Safety Latch



Electromagnetic Brake for Safe Operation

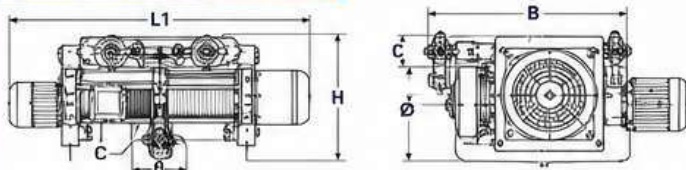


Precision Gear Box for Long Life



Ergonomic Pendant / Radio Remote Control

DIMENSIONAL DRAWING (TYPICAL)



CAPACITY (SWL)	DIMENSIONS (mm)								APPROX. WEIGHT (kg)
	L1	L2	B	H	C	ØD	E	F	
500 kg - 1 Ton	620	360	340	400	210	28	170	200	95
1 Ton - 5 Ton	850	500	430	510	250	34	200	230	160
5 Ton - 10 Ton	1050	600	520	610	300	40	250	280	250
10 Ton - 20 Ton	1320	700	620	720	350	50	300	320	400
20 Ton - 50 Ton	1600	850	720	840	420	60	360	400	650

* Dimensions are indicative and may vary as per design.

APPLICATIONS



STEEL PLANTS



WAREHOUSES



POWER PLANTS



ASSEMBLY LINES



MACHINE SHOPS



SHIPYARDS



CONSTRUCTION SITES



MAINTENANCE WORKSHOPS

OPTIONS AVAILABLE

- ✓ Flameproof / Weatherproof Hoist
- ✓ Anti-Collision System
- ✓ Load Limiter
- ✓ Wireless Remote Control
- ✓ Overload Protection
- ✓ Crane Health Monitoring System (CHMS)
- ✓ Stainless Steel Hoist
- ✓ VFD for Smooth Starting
- ✓ Fall Arrest System
- ✓ Special Coatings

**SAFETY
IS OUR
PRIORITY**

CHAIN HOISTS

COMPACT. DURABLE. DEPENDABLE.

Avani Engineering Chain Hoists are light weight, robust and easy to operate. Ideal for handling loads in workshops, maintenance areas, warehouses and construction sites.



SAFE &
RELIABLE



HIGH
DURABILITY



EASY TO
OPERATE



COST
EFFECTIVE



COMPACT
DESIGN



LOW
MAINTENANCE



TYPES OF CHAIN HOISTS

MANUAL CHAIN HOIST



Hand operated, ideal for general lifting applications.

GEARED TROLLEY CHAIN HOIST



Smooth travel on I-beam with manual trolley.

ELECTRIC CHAIN HOIST



Motorized hoist for faster and efficient lifting.

ELECTRIC TROLLEY CHAIN HOIST



Complete motorized solution for heavy duty applications.

CHAIN HOIST – TECHNICAL SPECIFICATION

Parameter	Details
Capacity (SWL)	0.5 Ton to 20 Ton
Lifting Height	Up to 30 Meter (As per requirement)
Hoist Type	Manual / Electric (Single / Double Fall)
Load Chain	High Tensile Alloy Steel Chain (ISO Grade 80)
Duty Class	Class III / IV (As per IS 3177 / FEM)
Control	Pull Chain / Pendant / Radio Remote
Brake	Electromagnetic / Mechanical
Power Supply (Electric)	415V, 3 Phase, 50 Hz
Protection Class	IP55 (Standard)
Standards	IS 3832 / IS 3177 / FEM / ISO

EOT CRANE – MAJOR COMPONENTS

1. Main Girder



2. End Carriage (with Wheels)



3. Hoist & Trolley (Wire Rope / Chain)



4. Electric Panel & Control Panel



5. Busbar System (Shrouded)



6. Festoon System (Cable Trolley)



7. Motors



8. Geared Drive



9. Couplings



10. Wheels & Rails



11. Limit Switches



12. Brakes



13. Hook Block with Safety Latch



14. Rope Drum (For Wire Rope Hoist)



15. Wire Rope



16. Rubber Buffer (End Stop)



17. Pendant Control



18. Crane Horn & Alarm



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EXCELLENCE.





LIFTING SOLUTIONS. BUILDING TRUST.

ENGINEERING EXCELLENCE. LIFTING FUTURES.

From concept to commissioning, Avani Engineering delivers reliable, efficient and safe lifting solutions that power industries and build a stronger tomorrow.



WHY CHOOSE AVANI ENGINEERING?



COMPLETE LIFTING SOLUTIONS

A wide range of EOT Cranes, Hoists and lifting equipment under one roof.



ENGINEERED FOR PERFORMANCE

Robust design, high quality material and precision manufacturing for long lasting performance.



SAFETY FIRST

All products are designed and tested to meet international safety standards.



CUSTOMIZED SOLUTIONS

Tailor-made solutions as per your application, space and working conditions.



AFTER SALES SUPPORT

Prompt service, genuine spares and dedicated technical support for complete peace of mind.

OUR STRENGTH



10+
YEARS OF
EXPERIENCE



500+
SATISFIED
CLIENTS



1000+
PROJECTS
COMPLETED



WIDE
PAN INDIA
PRESENCE



QUALIFIED
ENGINEERS &
TECHNICIANS



24x7
SERVICE
SUPPORT

INDUSTRIES WE SERVE



STEEL PLANTS



POWER PLANTS



MANUFACTURING



WAREHOUSES



SHIPYARDS



AUTOMOBILE



CONSTRUCTION



LOGISTICS



MAINTENANCE



OUR COMMITMENT

We are committed to provide safe, reliable and innovative lifting solutions that enhance productivity and build lasting relationships with our clients.

OUR PROCESS – QUALITY AT EVERY STEP



REQUIREMENT
ANALYSIS



ENGINEERING
& DESIGN



MATERIAL
PROCUREMENT



PRECISION
MANUFACTURING



QUALITY
TESTING



DELIVERY &
INSTALLATION



AFTER SALES
SUPPORT

OUR VALUED CLIENTS



CERTIFICATIONS



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



CE MARKING



ISI MARK

SAFETY IS OUR PRIORITY

All our products are designed and manufactured with highest safety standards to ensure safe operations and protection of people and assets.



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LIFTING SOLUTIONS