

**Offshore Pedestal Mounted Crane (Deck Crane)**  
**Floating Vessel Cranes**  
**Railway Wagon Mounted Cranes**  
**Davits & Jib Cranes**  
**Truck Mounted Cranes**



4 decades of  
designing, manufacturing, erecting &  
commissioning of offshore pedestal  
mounted crane (Deck Crane)

**R** Raina Engineers  
Robust Lifting Solutions

**Corporate Office:**

A-8, Shriram Industrial Estate,  
Wadala (W), Mumbai - 400031  
INDIA

Tel.: + 91-22- 40865000  
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**Design Office:**

Pune Office:-  
Plot no.4, 105-106 Ramtekdi  
Industrial Area, Hadapsar,  
Pune- 411013

**Patansai Factory:**

At & Post –Patansai, Taluka-Roha,  
Dist-Raigad - 402106  
INDIA

**Pen Factory:**

Opposite Pen Railway Station  
Mumbai – Goa Road,  
Dist-Raigad - 402107  
INDIA

[www.rainaengineers.com](http://www.rainaengineers.com)

Product specifications and prices are  
subject to change without notice or obligation.  
R/5.1/18,Rev.4,Date: 27/05/2023



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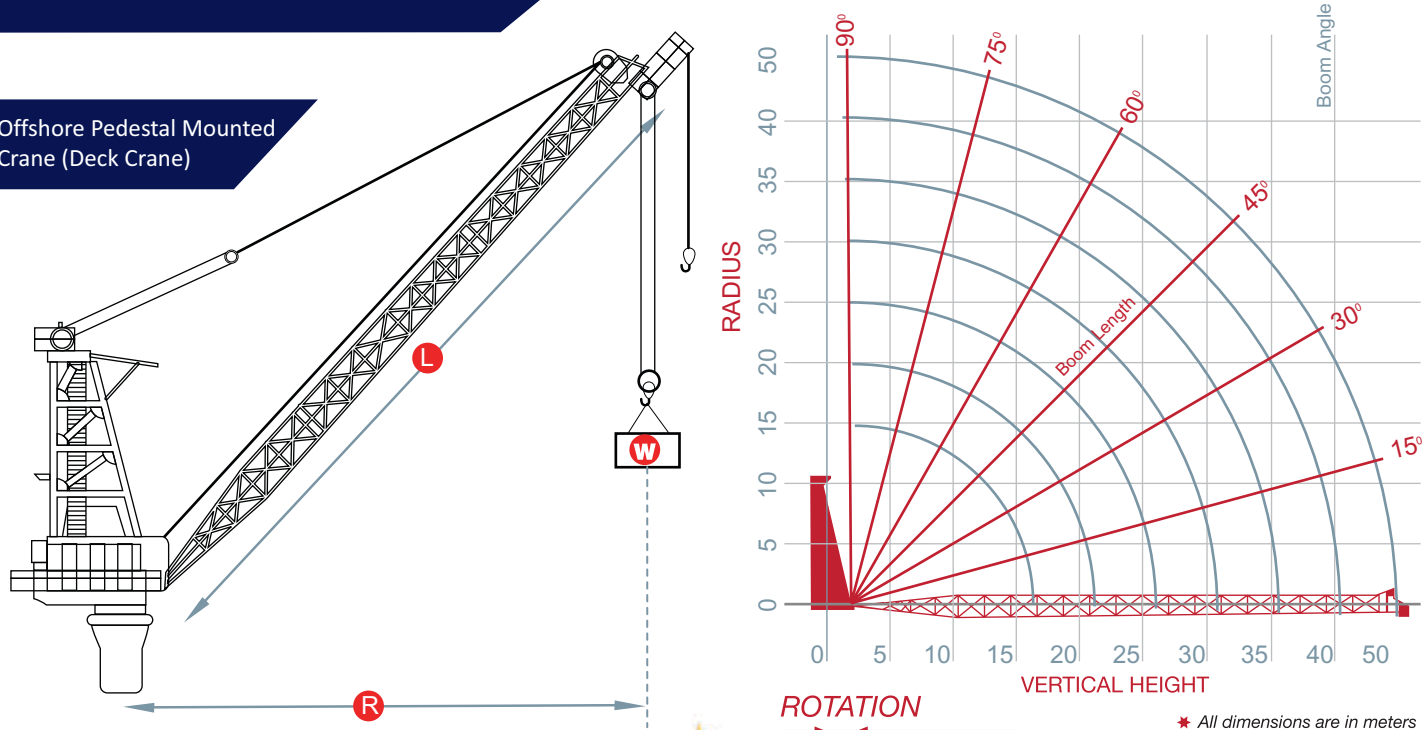


# Robust Lifting Solutions



# Technical Details

Offshore Pedestal Mounted Crane (Deck Crane)



## Model No:

REC 1250  
REC 2000  
REC 1250  
REC 3000  
JIB Crane - 3MT to 5MT  
DVT - 2MT

RLW -  
RE-RL-5-21  
RE-RL-3-18  
KB-20-15



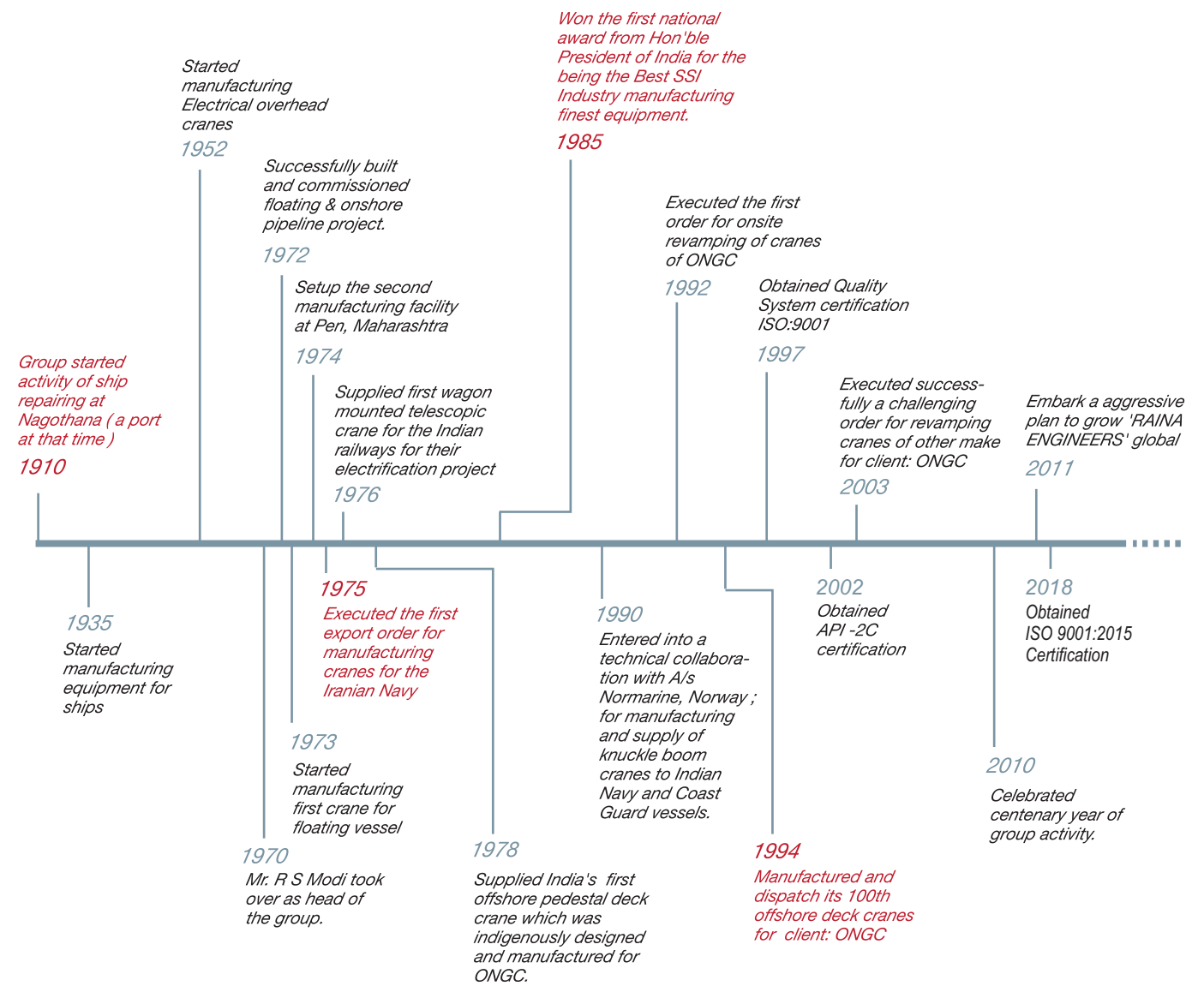
## Raina Engineers

We are specialized in designing and manufacturing of many Hi-tech, complex and sophisticated equipment including special material handling equipment like Offshore Pedestal Mounted Crane (Deck Crane) for offshore oil platforms, Railway Wagon mounted cranes with telescopic boom, Ram Luffing Knuckle Boom Cranes for sea going vessels etc.



Mr. R. S. Modi being awarded by The President of India the first National Award

## Journey so far..





# Vision

for innovation

## Mr. R. S. Modi - A Profile

Ramavatar Modi has been the Chairman and Managing Partner of Raina Engineers, the promoter of the company since 1995. He is also the Chairman of various group companies. During his tenure, the group revenue has grown 28 folds.

Mr. Modi received the Government of India’s first national award for ‘THE BEST SSI INDUSTRY’ in the year 1985, chosen from 1.5 million industries. He has also won the State Government of Maharashtra’s ‘GAURAV CHINHA’ award. Mr. Modi is actively involved with an organization working for uplifting activities for tribals in backward areas of the state.

Mr. Modi is a double graduate and received his engineering degree in Mechanical and later in Electrical in the year 1964. He completed is Post Graduate Diploma in Business Management in the year 1967. He worked briefly with an organization before joining the group in 1970.

## Awarded by The President of India the first National Award

as the best industry in India for manufacturing finest equipment, meeting highest international Standards.

## Diesel Engine

In majority of offshore cranes, the prime movers are turbo charged or naturally aspirated diesel engines. The engine power depends upon the design and the type of hydraulic equipment used.

### ENGINE MEETS HAZARDOUS AREA AS PER BS EN 1834-1 REQUIREMENTS

Flame Arrestor
Spark Arrestor
Exhaust Gas Cooler
Engine of Group- II
Temperature class / Gas Group : T3 / IIB
Category : 3G
And other requirements

### DUAL STARTERS FOR ENGINE STARTING

Hydraulic Starter
Air Starter

All engines are load tested at engine manufacturers works in presence of both TPI and customer Representative prior to its usage at offshore.



### SPACIOUS CABIN WITH CENTRALIZED CONTROL DESK



## Slew Ring Bearing

Designed for very high radial loads & complying with seawater environment

## Safety

Crane cabin is equipped with all mandatory safety features

### VISUAL, AUDIBLE ALARM AND ENGINE STOP

Low Lube oil pressure
High Exhaust temperature
Engine Over speed
High Water Temperature

### SAFE LOAD INDICATOR (SLI)

Display of Load, SWL, Radius, Boom angle
Visual, Audible Alarm on overload

### VISUAL AND AUDIBLE ALARM FOR

Low Water level
Low Diesel level
Low Hydraulic Oil level

### Alarms and Annunciation



**Build**  
to perform

## Supplied more than 200 Offshore Pedestal Mounted Cranes

*Our cranes require minimum maintenance, and minimum recurring spares.*

### Management Structure

Raina Engineer's management structure is designed to bring the skills and experience of our executives to bear in the most efficient way possible, facilitating decision-making across all the level in organization.

### Worldwide Acceptance

We are pleased to state that we have successfully executed projects in different parts of the world including Middle East, Indonesia, Malaysia etc.

### Financial Soundness

Raina has successfully implemented multi-million dollar projects in the past. Raina has been a Zero Debt profit making company since inception. All group companies are profit making and have helped to create sound reserve undertake large projects.



# Quality Workmanship

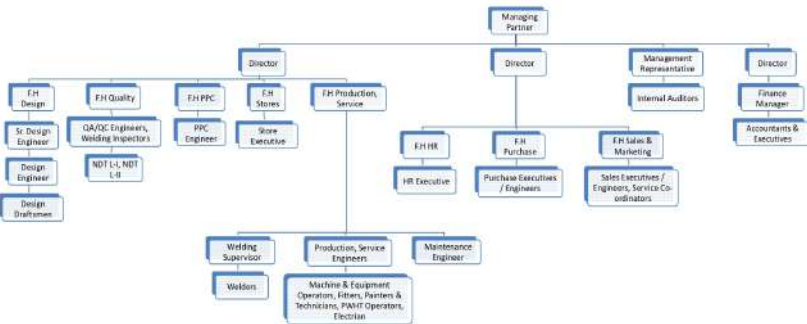
Supplied 25 railway wagon mounted cranes to Indian Railways

### Reputed Clients

We have manufactured equipment under stringent inspection of many reputed inspecting agencies including the following agencies:

INSPECTION AGENCIES	
Lloyds Register of Shipping	Imperial Iranian Navy
Bureau Veritas	Mercantile Marine Department
American Bureau Of Shipping	Oil and Natural Gas Corporation Ltd.
Engineers India Ltd.	Certification Engineers International Ltd.
Det Norske Veritas	Germanisher Lloyds Industrial Services.
Indian Register Of Shipping.	Warship Productive Superintendent, Govt. Of India

Annexure D: Organization Chat



### Organizational Structure

Raina Engineers believes in a flat organization structure. Raina emphasis on having better coordination and timely spread of information among different departments. The top management is closer to the middle management which makes it easier for the upper management to communicate effectively to the lower level management. This gives Raina Engineers flexibility to adapt new innovation; empowerment to its employees; quicker implementation of policies in the organizations.

CLIENTS FOR CRANES & OTHER EQUIPMENTS	
Oil and Natural Gas Corporation Ltd., India	Hyundai Heavy Industries
Larsen and Toubro Ltd., Mumbai	The Shipping Corporation of India Ltd.
National Petroleum Construction Company , Abu Dhabi	Mazagoan Dock Ltd.
Reliance Petroleum Ltd.	Hindustan Shipyard Ltd.
PT Sempec Indonesia	Burn Standard Company Ltd.
British Gas E & P India Ltd.Mumbai	Indian Railways
Enron Oil & Gas Ltd.	Imperial Iranian Navy
Afcons	Indian Coast guard
Sime Darby	Garden Reach Shipbuilders & Engineers Ltd.

Supplied Cranes for Indian Navy & Indian Coast guard



# Support Always Available

*Supplied the first crane in the year 1977 to ONGC, for the first platform manufactured by MDL*

*Our cranes require minimum maintenance, and minimum recurring spares.*

## Support

We are always available at back of your call. Our services response is unmatched by any of the competitors.

## Lowest Ownership Cost

Our cranes require minimum maintenance, and minimum recurring spares.

## Quality

An independent QA/QC department setup, also reports directly to the Managing Partner of the Company. The Quality Management systems are well defined and laid out in our Quality Manual & Procedures. This ensures that no compromise whatsoever is made in the quality of our equipments. The strong inspection department follows the stringent laid down quality plan, which is governed by international inspection agencies.

## Factory Acceptance Test of the cranes

*Carried in front of the two TPI and Customer*

- Live load test on moment counter balanced test bed
- Static load test considering dynamic factor
- Over load test
- Speed test of all motions
- All Safety instruments and equipment test
- Controlled lowering test
- Slew free (dampening and swinging of load)
- Painting inspection
- Noise & Vibration check



*For Shot Blasting 25 -50 microns profile is maintained.*

## Design

We have highly qualified and competent design engineers in our design department. The department is fully equipped with computer-aided designs and drawings, using latest software. The designs and drawings of our products are approved by reputed third party inspecting agencies. Our design department is constantly engaged in updating the designs, incorporating latest advance technology in all our products.

## QUALITY INSPECTION

*Material Identification & traceability*

*Fit-ups*

*Welds, Dimensional*

*Paints*

## Delivery

We have excellent track record in delivering the cranes in time. We have supplied several deck cranes meeting short delivery periods. We provide turnkey services right from the designing and engineering of the deck cranes upto installation and commissioning of the deck cranes on the platforms.



*DFT (Dry film thickness) checking and Holiday test being carried out.*

## Training

Instructional training programs along with hands-on training are conducted in the factory at regular interval and at various levels in organization.

Multi-level crane operator's training is provided to all our crane operators to keep them upto date with latest developments.

## Safety

Raina Engineers is committed to provide a safe and healthy place of work throughout all of our facilities and work sites and to make every effort towards reducing and decreasing any environmentally undesirable effects of our operations.



# Raising the Limits

Stringent Quality Standards

All products manufactured by us, always will meet the required standards namely API 2C, NEC, NEMA, OSHA, AGMA, EEMUA, ASTM, API RP500, and AISC ISO 3046, APIRP2D, BS 5514, API Q1, AWS D1.1, EN 1834.1, Each product strictly undergoes all the stringent quality checks before being delivered to our customer. Our products have certified by many reputed international agencies including LRS, BV, ABS, DNV, EIL, John Brown.

CERTIFICATIONS

❖ API 2C Monogram:

Our facility is the **First in India** to have API 2C Monogram facility.



Offshore Pedestal-mounted Cranes (Deck Crane)

We have manufactured Pedestal deck cranes, slew ring bearing mounted, with capacity ranging from 5 MT to 50 MT and boom length up-to 60 meters. These cranes are completely enclosed and designed for long operational life, low operating costs and minimum maintenance requirements. They are made to withstand the harsh marine conditions and the subjected dynamic loading. All cranes are incorporated with various safety features viz. Hydraulic/ Electrical limit switches, Safe Load Indicators and engine monitoring system. The crane operation are very operator friendly, with the cabin designed to improve his lifting efficiency. Our deck cranes meet all the API-2C requirements and noise levels specified by our customers as per the specification. Our painting procedures and methods normally exceeds the customer specified requirements for painting.



Floating Vessel Cranes

The prime mover for Floating vessel cranes can be diesel engine or electrical driven. The crane boom could either a lattice boom or a knuckle / straight Box boom type. They are made to withstand the harsh marine conditions and the subjected dynamic loading. All cranes are incorporated with various safety features viz. Hydraulic/ electrical limit switches, Safe Load Indicators and engine monitoring system. The crane operation are very operator friendly, with the cabin designed to improve lifting efficiency.



Railway Wagon Mounted Cranes

The railway wagon mounted crane have a sleek design. The boom type is telescopic boom and the prime mover is diesel engine. The boom length and capacity can be designed to customer's requirement.



Davits & Jib Cranes

The jib cranes capacity ranges from 2MT to 5 MT with fixed boom. These cranes capacity ranges from 2MT to 5MT with hydraulic or electrical drive. The crane could be either cabin operated or with the help of remote control. The cranes seek very low maintenance and have the lowest cost of ownership. All cranes are incorporated with various safety features viz. Hydraulic/ electrical limit switches, Safe Load Indicators and engine monitoring system.





# Robust Lifting Solutions

## Lowest Cost of Ownership of Our Cranes

Our cranes require minimum maintenance, and minimum recurring spares.

### Product Philosophy

Life cycle value  
Low operating cost  
Low maintenance cost  
Standardisation of equipment

### ISO Certification

Raina has got its system certified in the year 1997. Bureau Veritas has certified our system in line with latest requirements of ISO 9001:2015

### Towards TQM

Our Management focus is TQM. We believe in setting a system for each and every department and action, those also which are not covered by the ISO 9001 requirements. A total quality management system will help us build better customer relationship and improve confidence of our employees.

### Quality Management System

RAINA ENGINEERS has established the Quality Management System which fulfils the requirements of API Spec Q1 9th edition, June 2013 "Specification for Quality Management System Requirement for Manufacturing Organizations for the Petroleum and Natural Gas Industry" & ISO 9001:2015 Fourth edition "Quality Management systems-Requirements"

Our facility is the First in India to have API 2C Monogram License.

### QUALITY POLICY

We at RAINA Engineers are committed to design, development, manufacturing and servicing of offshore pedestal mounted cranes, jib cranes and davits meeting National and International standards and Customer requirements. We strive to achieve the best quality of our products and maximum customer satisfaction by;

- Accomplishing quality objectives by implementing the quality management system effectively as per API Q1 9th edition and ISO 9001:2015
- Adopting the best manufacturing practices available globally.
- Training our employees to attain the competency required to meet product requirements
- Ensuring safety for our product and personnel
- Taking care of Nature, Environment and Social responsibility
- Complying with statutory and regulatory requirements To continually improve effectiveness of quality management system.

For RAINA ENGINEERS  
(MANAGING PARTNER)  
DATE: 18-12-2017

### CERTIFICATIONS

❖ ISO 9001:2015

#### Quality Management System

Awarded by Bureau Veritas Certification



[www.rainaengineers.com](http://www.rainaengineers.com)

[sales@rainaengineers.com](mailto:sales@rainaengineers.com)



# Platform

to deliver lasting solutions

## Mumbai Office

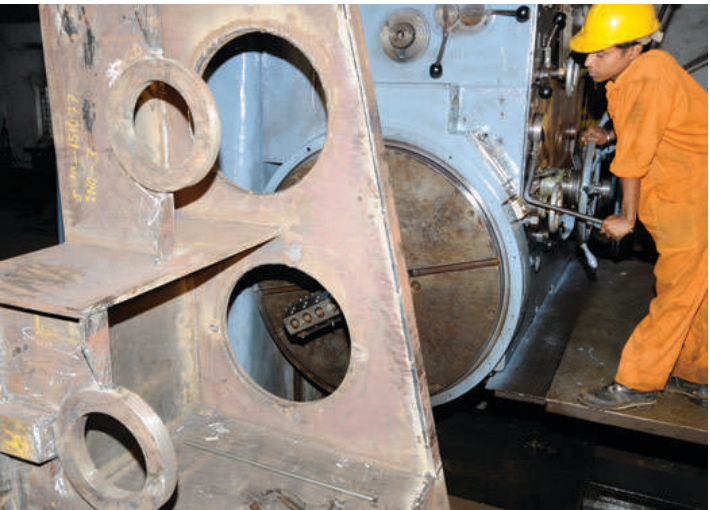
We are centrally located at Mumbai, India's commercial capital. We have our Group Headquarters and Raina Engineers Corporate office at Mumbai. Both our manufacturing units are located within reach from our office

We are a financially strong, progressive company with quality workmanship, robust technology that designs, manufactures, sells and supports world class cranes in harsh marine environment.

## Infrastructure

### 205MM Spindle diameter floor type Horizontal Boring & Milling Machine - 'Schiess' the German Make

30 ft. Horizontal travel, 12 ft. vertical travel and 6 ft. spindle movements with Three Axis D.R.O. with 5 microns resolution along with 7\*7ft. Rotary Table and with Taper threading facility.



## Patansai Factory at a Glance

AREA	
a) Covered Area	50,000.00 Sq. Feet
b) Open Area	40,00,000.00 Sq. Feet
c) Shot Blasting and Painting Area	5,000.00 Sq. Feet
MATERIAL HANDLING FACILITY	
Upto 50 TONNE	
SPECIAL FACILITY FOR LIVE LOAD	
Special ground embedded moment Testing of cranes counter balanced test rigs.	
RESIDENTIAL COMPLEX	
Residential facilities are attached with factory premises for housing of staff and workers.	
CONNECTED LOAD	
500 HP	
MARKETING AND DESIGN CENTER	
Conveniently located at Mumbai & Pune.	



## Pen Factory at a Glance

AREA	
a) Covered Area	10,000.00 Sq. Feet
b) Open Area	1,00,000.00 Sq. Feet
c) Shot Blasting and Painting Area	6,000.00 Sq. Feet
MATERIAL HANDLING FACILITY	
Upto 40 TONNE	
SPECIAL FACILITY FOR LIVE LOAD	
Special ground embedded moment Testing of cranes counter balanced test rigs.	
RESIDENTIAL COMPLEX	
Residential facilities are attached with factory premises for housing of staff and workers.	
CONNECTED LOAD	
300 HP	
MARKETING AND DESIGN CENTER	
Conveniently located at Mumbai & Pune.	