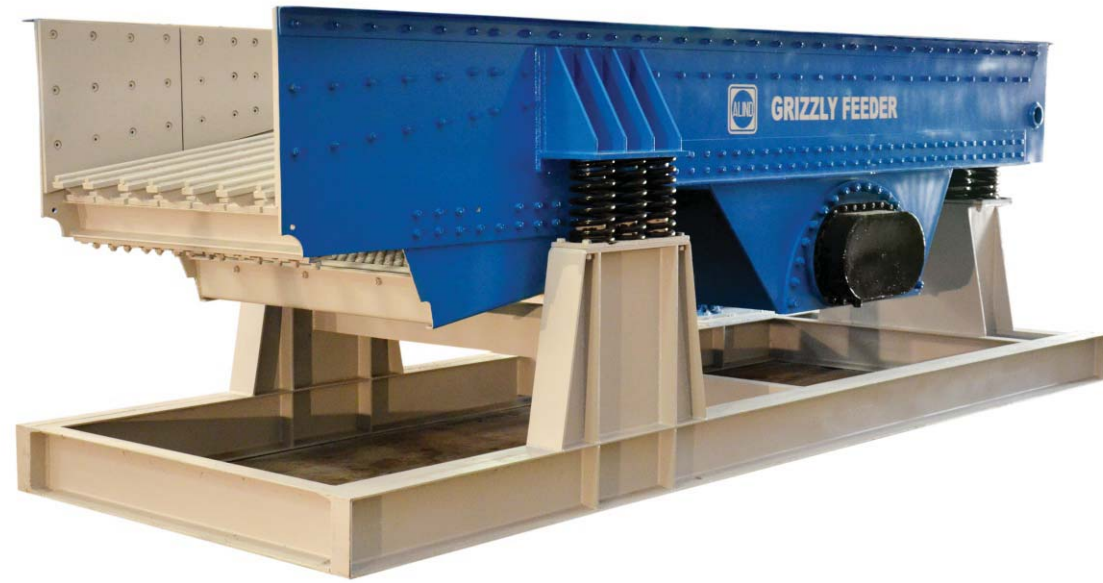




ALUMINIUM INDUSTRIES LIMITED

- CRUSHING
- MINING
- CEMENT PLANT EQUIPMENT
- BULK MATERIAL HANDLING SYSTEM





Benefits and Features

- Modular construction and higher feed capacity
- Welded steel body reinforced with heavy joists for impact loads
- Easily adjustable to suit application requirements
- Heavy coil spring support system
- Modular heavily built twin-vibrator mechanism
- Maintenance free oil bath lubrication
- Minimum maintenance, due to no gear on vibrators, larger bearing sizes and long oil-change intervals
- Unique feature of stroke angle adjustment to suit application needs

Operation

ALIND's Grizzly are heavy-duty machines and Large lumps are scaled into the crusher or to a rip rap stock pile, the maximum lump sizes can range up to 6' cubes fines pass through the grizzlies, relieving the crusher and reducing wear. Vibration is generated by precision-machined, twin eccentric shafts. The vibrating drive assembly is connected directly to the pan to assure positive action under the most adverse loading conditions

Specification

| Model | Feeder Size - mm | | Drive Motor kW | Capacity Range - TPH | Max. Feed Size - mm |
|-------|------------------|--------|----------------|----------------------|---------------------|
| | Width | Length | | | |
| 830 | 800 | 3000 | 9.3 - 15 | up to 150 | 450 |
| 1039 | 1000 | 3900 | 15 - 22 | 90 - 300 | 650 |
| 1245 | 1200 | 4500 | 22 - 30 | 200 - 450 | 850 |
| 1350 | 1300 | 5000 | 30 - 37 | 350 - 650 | 1000 |

The capacities based on bulk density of 1.6 t/Cu m of hard stone. For other sizes and special application contact for details



Benefits and Features

- Designed for effective crushing of bigger feed sizes with large crushing ratio to give optimum product shape
- Longer life for jaw plates and other components, due to built-in features like no jerks or rubbing action and Hydraulic adjustment of CSS
- Relatively simpler and smaller machine, to save on foundations, components and service costs.
- Grease lubricated self-aligning double row roller bearing
- Lubrication free toggle and toggle seat with minimum friction
- Large crushing chamber, longer stroke and high crushing speed

Operation

ALIND's Jaw crushers are designed to operate in most rugged environment and need less maintenance for all types of rocks, mineral ores. These single toggle jaw crushers are designed with an upward facing toggle system, which guarantees a high efficient production rate at every setting. These crushers are designed for exceptionally heavy duty and continuous operations and are well suited for stationary and mobile applications.

Specification

| Model | Feeder Size-mm | Capacity at Closed Side Setting in TPH | | | | | | | | Drive Motor kW | RPM |
|---------|----------------|--|---------|---------|---------|---------|---------|---------|---------|----------------|-----|
| | | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | | |
| 36 x 24 | 500 | 75-85 | 85-125 | 125-150 | 150-180 | | | | | 75 | 275 |
| 44 x 32 | 650 | 105-170 | 155-230 | 180-275 | 210-315 | 245-360 | 285-460 | | | 110 | 250 |
| 48 x 38 | 800 | | 190-285 | 235-345 | 265-405 | 295-445 | 340-540 | 370-560 | 400-585 | 160 | 225 |

The capacity figures indicated in the above chart are approximate and are based on continuous regular feed of stone of bulk density 1.6t/cu.m with standard jaw liners





Benefits and Features

- High speed and Roller Bearing construction - less frictional resistance, less power consumption and longer life
- Precision machined alloy steel main shaft Perfect dust seal - combined air pressure and mechanical seal protection to all bearings
- Cartridge type eccentric & main shaft assembly and countershaft assembly for easy removal and maintenance
- Automatic lubrication of all bearings with built-in machine protection controls! Variable stroke that can be set for different throughput and capacities
- Hydraulic main shaft positioning system - tramp iron release, quick CSS by push button operation and over load protection
- Profiled crushing chamber geometry for uniform flow of material, cubical product and well balanced grain distribution
- Compact and well balanced machine for fixed & mobile plant installations

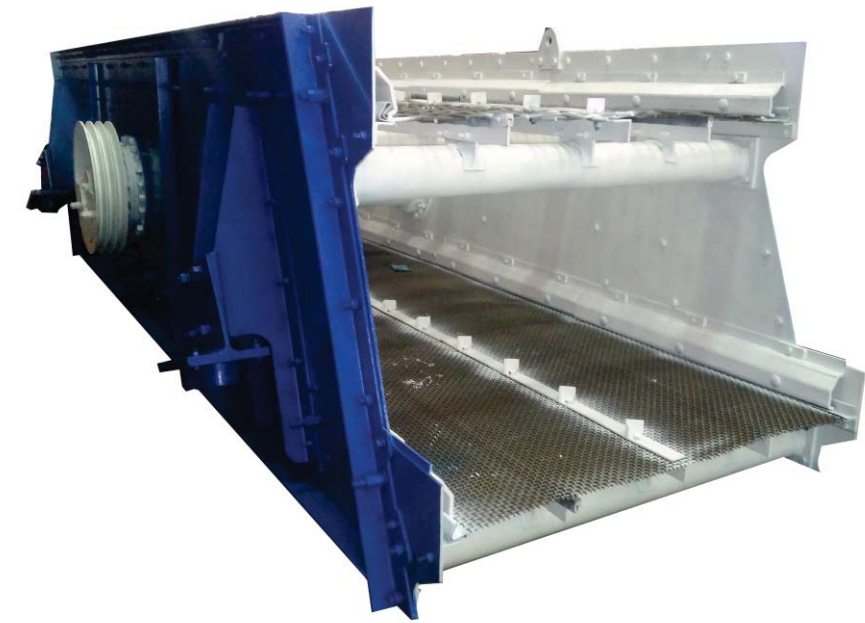
Operation

ALIND's Cone crusher - chamber profiles are designed for uniform flow and optimum material interactions to produce a cubical shaped product. A positive lock-tight fitting of mantle and concave with a backing compound provides an effective cushion to the manganese against the crushing loads. The machine is built to meet varied crushing needs - fine, medium and coarse - of hard rocks and mineral ores. The compact, well balanced, sturdy design and simple to operate. An ideal secondary and tertiary crusher suitable for stationary, skid mounted, portable or mobile crushing in toughest quarries and mines.

Specification

| Type of Cone | Feed Size | Feed Opening mm | Stroke mm | Capacity at Closed Side Setting in TPH | | | | | Drive Motor kW | |
|--------------|------------|-----------------|-----------|--|---------|---------|---------|---------|----------------|-----|
| | | | | 10 | 19 | 22 | 25 | 28 | | 32 |
| Aggregate | (-) 150 mm | 190 | 19 | | 135-145 | 145-155 | 155-160 | 160-170 | 132 | |
| | | | 22 | | 130-140 | 145-155 | 155-165 | 160-170 | 170-185 | 132 |
| | | | 25 | | | 155-165 | 165-175 | 170-185 | 185-200 | 132 |
| | | | 32 | | | 165-175 | 175-185 | 185-200 | 200-220 | 160 |
| Sand | 5 - 40 mm | 190 | 25 | 50-60 | | | | | 160 | |

The capacity figures indicated in the above chart are approximate and are based on continuous regular feed of stone of bulk density 1.6t/cu.m. They vary with feed material characteristics, feed gradation and percentage of fraction below CSS in the feed



Benefits and Features

- Modular design with high degree of component inter-changeability
- Lesser cost of installation, due to low feed height
- High operational efficiency, due to quick stroke adjustment facility by changing counter weights and rapid mesh-changing features.
- 1-2-3 deck configurations set for 15° inclination
- Bolted frame construction reinforced with heavy steel pipes
- Simple adjustment of vibration amplitude by counter-weights on flywheels
- Standard feed box reduces direct impact on mesh and evenly spreads material for greater efficiency

Operation

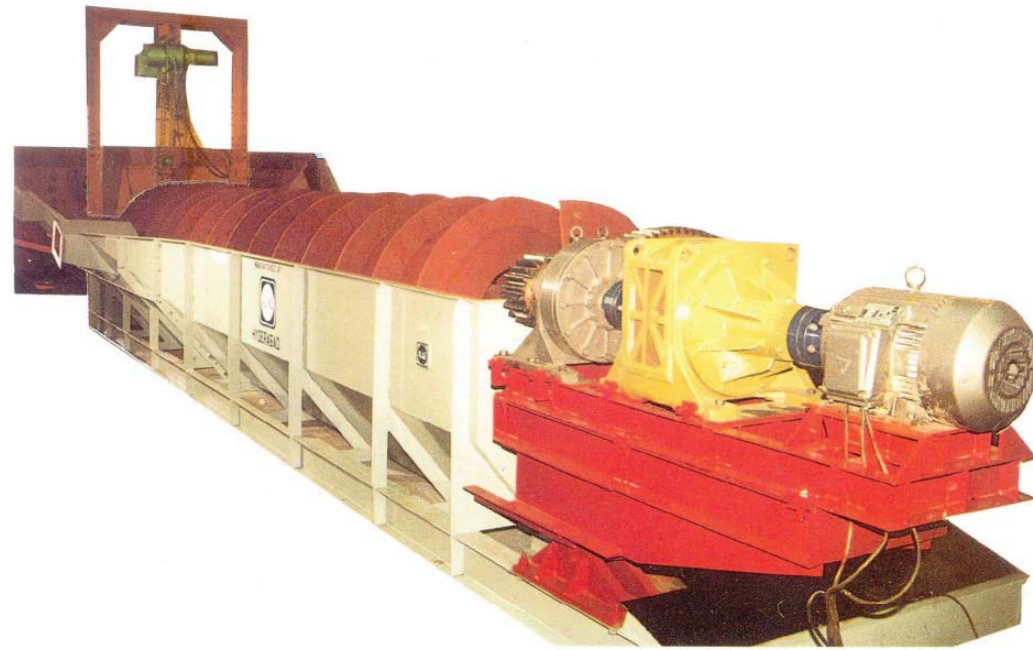
ALIND's Vibrating Screens being used very efficiently in a wide range of applications - both dry and wet systems of crushed stone separation, fine sand screening and for a variety of mineral classifications. A simple vibrating mechanism located at the screen's centre of gravity, provides a circular stroke of high vibration strength best suited to meet each application. The screen is of a bolted-construction, light, robust and free from stress.

Specification

| Model | Screen Size (mm) | | Screening Area m ² | Drive Motor (kW) | | |
|-------|------------------|--------|-------------------------------|------------------|--------|---------|
| | Width | Length | | 2-Deck | 3-Deck | 4-Deck |
| 1548 | 1500 | 4800 | 7.2 | 15 | 18.5 | |
| 1848 | 1800 | 4800 | 8.6 | 18.5 | 22 | 22 / 30 |
| 2148 | 2100 | 4800 | 10.1 | 22 | 30 | |

For other sizes and special applications, contact for details



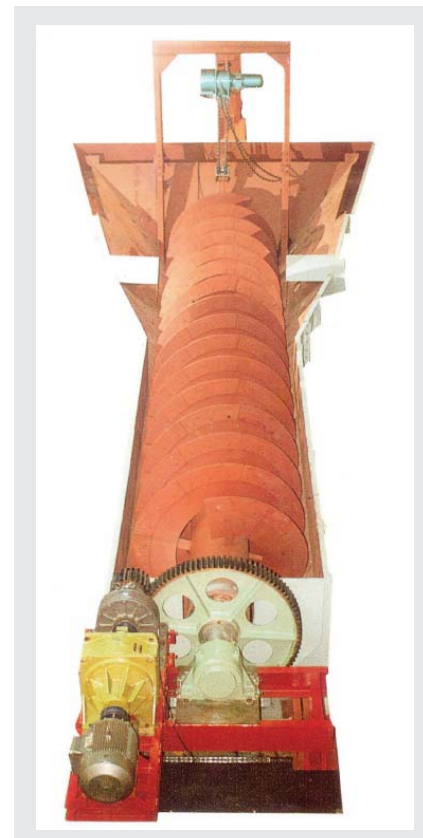


Benefits and Features

- Segmented wear-shoes assure easy replacement
- Infinitely variable speeds to meet capacity requirements
- Specially sealed submerged bearing
- Adjustable pool volume and weir
- Low operation and maintenance costs
- Fabricated and reinforced tank construction with heavy gauge steel
- Adjustable weirs for classification control
- Heavy duty and large diameter seamless tubular shaft designed for minimum deflection

Operation

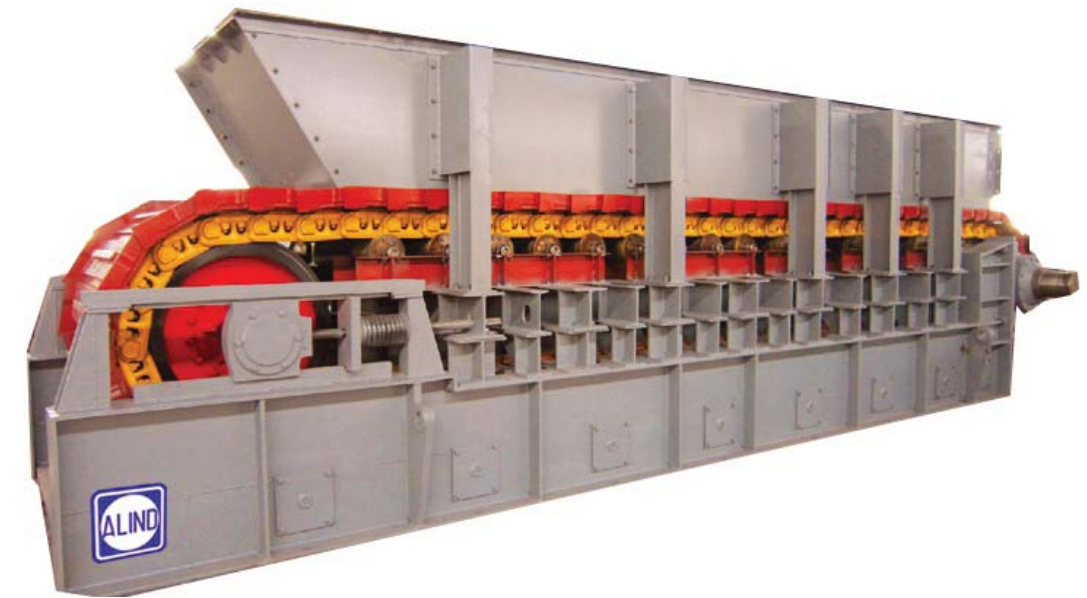
ALIND's Spiral Classifiers are applicable for various ore classification of different mesh sizes. The rake-up capacity of ALIND's classifiers is suitably designed for eliminating surging of the feed. These classifiers are applicable for separation of ores, silicate gangue, sulphide minerals and slurry sands and also in closed circuit grinding applications. The slope of the classifier can be adapted to suit the characteristics of the material.



Specification

| Spiral dia (mm) | Tank length (mm) | Rotation (rpm) | Motor output for main shaft drive (kW) | Max. Take-up capacity (tph / rpm) |
|-----------------|------------------|----------------|--|-----------------------------------|
| 600 | 5000 | 10 ~ 17 | 2.2 ~ 3.7 | 1.41 |
| 900 | 6500 | 8 ~ 12 | 3.7 ~ 5.5 | 4.77 |
| 1200 | 8000 | 6 ~ 8.5 | 5.5 ~ 7.5 | 11.3 |

Motor output indicated in above table is based on feeding of material with true specific gravity of 2.7 under double spiral ribbon and tank inclination of 16 deg. Max. rake-up capacity is based on the capacity TPH/1 rpm of spiral ribbon under single shaft, double ribbon type and treating material with true specific gravity of 2.7



Benefits and Features

- Superior load bearing performance against high impact load and hopper pressure
- Simple construction and centralized lubrication system
- Rugged Apron Pans of Hi-MN Steel / High tensile steel with deep ribbed construction
- Side-mounted apron chains subject only to tensile loads; hence longer life
- Special alloy steel Chains to counter heavy wear & tear conditions
- Specially designed feed rollers to take high impact loads
- Built-in overload safety features

Operation

ALIND's Apron Feeders are rationally and strongly designed and manufactured to operate under severe conditions prevailing at quarry pits, storage bins and under vertical shaft holes receiving huge impact loads, material pressure due to falling and jamming of large ore lumps. ALIND's Apron Feeders come in three versions.

Specification

| Model | Dimensions (mm) | Max.Feed Size (mm) | Area of Outlet (m ²) | Conveying Capacity (TPH) | | | Motor Output (kW) | | | Variable M/c Length (mm) |
|----------|-----------------|--------------------|----------------------------------|--------------------------|-----|-----|---------------------|-----|-----|--------------------------|
| | | | | Apron Speed (m/min) | | | Apron Speed (m/min) | | | |
| | | | | 2 | 4 | 6 | 2 | 4 | 6 | |
| SAF-621 | 600 x 2125 | 100 x 140 x 200 | 0.25 | 30 | 60 | 90 | 0.75 | 1.5 | 1.5 | 250 |
| SAF-726 | 750 x 2625 | 150 x 210 x 300 | 0.4 | 50 | 100 | 150 | 0.75 | 1.5 | 2.2 | 250 |
| SAF-928 | 900 x 2875 | 200 x 260 x 400 | 0.6 | 85 | 170 | 255 | 1.5 | 2.2 | 3.7 | 250 |
| SAF-1031 | 1000 x 3150 | 200 x 260 x 400 | 0.8 | 110 | 220 | 330 | 2.2 | 3.7 | 5.5 | 300 |

The performance shown above is related to the case where raw materials of bulk density 1.6 t/cu.m are continuously supplied. The conveying capacity and the output of motor or decrease according to the length of machine and the apron speed.





Belt Feeder



Rod Gae



Screw Conveyor



Bare Shell Transportation



Air Slide



Blower Fans



Silo on Transportation



Cement Silo

Cement Plant Machinery

Our engineering skills for material handling cover designing, manufacture and installation of bulk materials handling systems - conveying, storage, reclamation and process feeding - for Cement, Steel, Thermal power plants, Mining and process plants. We possess the know-how and many years of experience that we use to meet the requirements specific to the customer and industry through our turnkey systems.

Our products are made using fine quality raw material and state-of-the-art technology. At all levels of production the quality is maintained and vouched for by our team of professionals. These cement plants are made as per the needs and requirements of the clients.

Range of Plant & Equipment Design

- **BELT CONVEYORS**
Capacity- 50 TPH to 10000 TPH.
And Belt width- 400 to 2400 mm Belt Width.
- **SCREW CONVEYORS**
Capacity- 10 TPH to 500 TPH.
And Screw Dia- 150 to 1400 mm.
- **BUCKET ELEVATORS**
Capacity- 10 TPH to 600 TPH.
And Height- 15 Mtrs to 110 mtrs.
- **ROD GATES SLIDE GATES**
- **AIRSLIDES & JUNCTION BOXES**
- **BALL MILL SHELLS**
- **FABRICATED HOPPER & SILO's**
- **ALL KINDS OF MACHINING COMPONENTS**
- **BATCHING PLANT CEMENT SILO's**



Air Blower Fans



Conveyor Drum Pulleys



Boring & Milling Machine



Double Column Planner



Shell Welding Eqpt



Flap Valve



Junction Boxes



Belt Conveyor



Cement Mill Bare Shell



Bucket Elevator Casing



The backbone of ALIND is the integrated manufacturing facility at Hyderabad, manned by a highly skilled workforce. A well-laid-out Machine Shop, with a battery of imported precision machine tools, including gear-shaping & hobbing, caters to the whole range of manufacturing process.

A Fabrication Shop, with a high frequency induction-hardening furnace and a 1000-tonne hydraulic press, is equipped for heavy machine-building. An extensive Assembly Shop facilitates the final assembling and testing of custom-built equipment. And as for quality control, all equipments are built to the inspection standards of Lloyds and other reputed agencies.



1 Horizontal Boring & Milling Machines

| | |
|---------------------------|---------------------------------|
| a Make | : WMW |
| Model | : BFD/165/2 |
| Spindle dia: & Taper | : 165 mm & ISO-50 |
| Axial Tr, boring spindle | : 1250 mm |
| Vertical Tr. Spindle-head | : 2400 mm |
| Width Tr. Of Column | : 3150 mm |
| Long column Traverse | : 500 mm |
| Max. dia facing | : 1800 mm |
| Max: dia of Boring | : 650 mm with spindle |
| Rotating table size | : 1800 X 2000 mm. with ORO |
| Floor Plates | : 3500 X 1750 X 350 mm |
| Digital Read Out accuracy | : For X,Y,Z 0.1 mm |
| b Make | : TOS W 100 |
| Dia on Spindle | : 100 mm. with vertical milling |
| Taper of Spindle | : MT6 |
| Tables size | : 1250 X 1250 mm |
| c Make | : WMW- BERLING |
| Dia on Spindle X Movement | : 63 mm x 500 mm |
| Taper in spindle | : MT 4 |
| Table size | : 700 mm W x 875 mm L |
| d Make | : HITACHI- JAPAN |
| Dia of spindle & Movement | : Dia 100 mm & 900 mm |
| Taper in spindle | : MT6 |
| Table size | : 1260 X 1400 mm. |
| Vertical Traverse | : 1400 mm |
| Horizontal Traverse | : 1700 mm |
| Facing Head movement | : 150 mm |

2 Vertical Turret Lathe (VTL-1)

| | |
|---|------------------------|
| Make | : COOPER-SHEISS, POONA |
| Model | : 13 BK 125 |
| Max. turning dia. | : 1400 mm |
| Max weight of work | : 4 tons |
| Max. distance between Table & turret head | : 1250 mm |

3 Vertical Boring Turning Mill

| | |
|------------------------------|------------------|
| Make | : TITAN, ROMANIA |
| Model | : SC 43 F |
| Max. M/c Dia. with rail head | : 4300 dia mm |
| Max. M/c Dia. with side head | : 4300 dia mm. |
| Max.Height.of Machined Part | : 2060 mm |
| Face plate of plate dia. | : 4000 mm |
| Max. weight of work piece | : 18000 Kg |

4 Double column planning machine with milling head

| | |
|-----------------------------|-----------------|
| Make | : Cooper Loudon |
| Model | : DH-5 |
| Max. width of work piece | : 1600 mm |
| Max. Height of work piece | : 1200 mm |
| Max. Length of stroke | : 2600 mm |
| H.P. of geared milling head | : 30 HP |

5 Gear Hobbing Machines

| | |
|-------------------------------|-------------------|
| a Make | : SHIBURA, Japan |
| Max. dia of gear to be cut | : 1600 mm |
| Max. module of gear to be cut | : 16 Module |
| b Make | : KASHIFUJI-Japan |
| Max.dia of gear to be cut | : 600 mm |
| Max. module of gear to be cut | : 5 Module |

6 All Geared Slotting Machine

| | |
|------------------------|--------------------------|
| Make | : COOPER ENGG. CO, POONA |
| Model | : HOV Type CH-40 |
| Max. Stroke | : 400 mm |
| Dia. of circular table | : 800 mm |
| Max. slotting table | : 440 mm |
| Max. height of the job | : 580 mm |
| Max. dia of the job | : 2000 mm |

7 EOT Cranes : 10T, 5T, 3T

8 Gear shaping Machine

| | |
|-------------------------------|-----------|
| Make | : MAAG |
| Model | : SH/100 |
| Max. dia of gear to be cut | : 1200 mm |
| Max. module of gear to be cut | : 12 |

9 Centre Lathes

| | |
|--------------------------|----------------------|
| a Make | : OKUMA-LEB Japan |
| Swing over bed | : 630 mm |
| Distance between centers | : 6000 mm |
| b Make | : OKUMA L.D.A. Japan |
| Central height | : 600 mm |
| wing over bed | : 1200 mm |
| Distance between centres | : 3000 mm |
| c Make | : HUNGARIAN |
| Swing over bed | : 700 mm |
| Distance between centres | : 2500 mm |
| d Make | : HUNGARIAN |
| Swing over bed | : 700 mm |
| Distance between centres | : 3000 mm |
| e Make | : H.M.T H-26 |
| Swing over bed | : 530 mm |
| Distance between centres | : 1000 mm |
| f Make | : H.M.T H-26 |
| Swing over bed | : 530 MM |
| Distance between centres | : 1500mm |

10 Facing Lathe

| | |
|--------------------------|---------------|
| Make | : FUJI, Japan |
| wing over bed | : 2500 mm |
| wing in gap | : 3500 mm |
| Distance between centres | : 2500 mm |

11 Milling Machines:

| | |
|---|------------------|
| Universal Milling M/c with Vertical swiveling type head | |
| a Make & Model | : H.M.T. – M2 PO |
| Table Size | : 1110X1275 mm |
| Traverses Longitudinal | : 950 mm |
| Cross | : 200 mm |
| Vertical | : 300 mm |
| Spindle Taper | : ISO-40 |

Vertical Milling Machine

| | |
|---------------------------|-------------------|
| b Make & Model | : H.M.T. – FN 2 V |
| Table size | : 1110x1275 mm |
| Traverse longitudinal | : 1250 mm |
| Cross | : 250 mm |
| Vertical | : 400 mm |
| Spindle Taper | : ISO-50 |

12 Radial Drilling Machines

| | |
|---------------------------------|-------------|
| a Make | : HUNGARIAN |
| Drilling capacity in steel | : 75 mm |
| Drilling capacity in C.I. | : 90 mm |
| Distance from Column to Spindle | : 1750 mm |
| b Make | : H.M.T |
| Model | : RM-62 |
| Drilling capacity in steel | : 50 mm |
| Drilling capacity in C.I. | : 90 mm |
| Distance from Column to Spindle | : 1250 mm |

| | |
|---------------------------------|-----------|
| c Make | : H.M.T |
| Model | : RM-63 |
| Drilling capacity in steel | : 50 mm |
| Drilling capacity in C.I. | : 90 mm |
| Distance from Column to Spindle | : 1250 mm |

13 Hydraulic Press : 1000 Tons

14 Plate Bending Machine : 40 Thk x 3000 Width



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