



ALUMINIUM INDUSTRIES LIMITED

ENGINEERING THE FUTURE

- CRUSHING
- MINING
- SPONGE IRON PLANT EQUIPMENTS, SPARES & SERVICES
- CEMENT PLANT EQUIPMENT, SPARES & SERVICES
- BULK MATERIAL HANDLING SYSTEM
- POWER PLANTS.



ALUMINIUM INDUSTRIES LIMITED

Corporate Office

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Visit us:- www.alind.org

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About us

Our unit, which is a part of ALIND group, is located at, Serilingampally Hyderabad is well connected by Road, Railway & with the Airport. Originally the unit at Hyderabad was established in 1963 to manufacture Material Handling systems, Power conductors and cables as a part expansion of ALIND Company with its head office located at Kundra in Kollam district of Kerala. Kundra unit of ALIND started its operations in 1946 at Kundra to manufacture power transmission and distribution cables.

Later in 1969, as a part of backward integration of the **Conductors and cables plant** established at Hyderabad, **Machinery Division** was established to manufacture Material Handling systems, Wire Drawing and Wire stranding machines required for manufacturing conductors and cables. **Fabrication shop, Foundry and machine shop were established at the machinery division.** The machinery division supplied conductor and cables processing machinery to domestic as well as overseas customers. Existing facilities at the Machinery Division were also used to manufacture Material Handling equipment for Mining, Coal and Cement Industry.

Industries We serve

- Cement Industries.
- Steel Plant (Sponge iron and Mineral processing Industry).
- ACC Block's.
- Sugar & Paper plants.
- Crushing Units.
- Power Plants.
- Railways.



Machines & Facility Available with Us

- Welding facilities for Arc, MIG and TIG and SAW welding,
- Stress relieving furnace, 1000-ton Hydraulic Press, Oil Bath heater for Shrink fitting,
- EOT cranes for material handling.
- Adequate working space under the shed below the crane and plenty of open space for Yard Fabrication, if required
- Machine shop for various machining operations, with host of machine, at one place.
- Floor Horizontal Boring machine (WMW make).
- Vertical Turret Lathe (VT-1) (COOPWER-SHEISS, POONA)
- Vertical Boring Turning Mill (Titan Romania make)
- Double Column Planning machine with Milling head (Make Cooper Loudon)
- Gear Hobbing machines (Make Shibura Japan)
- All geared slotting Machines. (Make Cooper Engg Co Poona)
- Gear shaping Machine (Make MAAG).
- Centre Lathes 6 nos.
- Facing Lathe (Make Fuji Japan)
- Milling Machines (HMT M2PO & HMT-FN 2 V) 2 no's
- Radial Drilling Machines. 3 no's
- Hydraulic press 1000 Tones.
- Plate bending machine 40x3000 Width.





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 1.6t/Cu m of hard stone. For other sizes and special application contact for details



1 Horizontal Boring & Milling Machines

- a. Make** : WMW
 Model : BFD/165/2
 Spindle dia: & Taper : 165 mm & ISO-50
 Axial Tr, boring spindle : 1250mm
 Vertical Tr. Spindle-head : 2400mm
 Width Tr. Of Column : 3150mm
 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 500mm
 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 : 1400mm
 Horizontal Traverse : 1700mm
 Facing Head movement : 150 mm

2 Vertical Turret Lathe (VTL-1)

- Make** : COOPER-SHEISS, POONA
 Model : 13 BK 125
 Max. turning dia. : 1400mm
 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 workpiece : 18000 Kg

4 Double column planning machine with milling head

- Make** : Cooper Loudon
 Model : DH-5
 Max. width of work piece : 1600mm
 Max. Height of workpiece : 1200mm
 Max. Length of stroke : 2600mm
 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 : 1200mm
 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
 Swing over bed : 1200mm
 Distance between centres : 3000mm
- 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.TH-26
 Swing over bed : 530MM
 Distance between centres : 1000 mm
- f. Make** : H.M.TH-26
 Swing over bed : 530MM
 Distance between centres : 1500mm

10 Facing Lathe

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

11 Milling Machines:

Universal Milling M/c with Vertical swiveling type head

- a. Make & Model** : H.M.T. - MZ 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 2V
 Table size : 1110x1275 mm
 Traversel longitudinal : 1250mm
 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. : 90mm
 Distance from Column to Spindle : 1750 mm
- b. Make** : H.M.T
 Model : RM-62
 Drilling capacity in steel : 50mm
 Drilling capacity in C.I. : 90mm
 Distance from Column to Spindle : 1250 mm
- c. Make** : H.M.T
 Model : RM-63
 Drilling capacity in steel : 50mm
 Drilling capacity in C.I. : 90mm
 Distance from Column to Spindle : 1250 mm

13 Hydraulic Press

: 1000 Tons

14 Plate Bending Machine

: 40 Thk x 3000 Width



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 wholerange of manufacturingprocess.

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 Lloydsand other reputedagencies.



Benefits and Features

- Designed for effective crushing of bigger feed sizes with large crushing ratio to give optimum productshape
- 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 wellsuitedfor stationaryandmobileapplications.



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			132	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



Bare Shell Transportation



Air Slide



Blower Fans

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, FANS**
- **BALL MILL SHELLS, KILN SHELL, SUPPORT ROLLERS**
- **FABRICATED HOPPER & SILO's**
- **ALL KINDS OF MACHINING COMPONENTS**
- **BATCHING PLAT CEMENT SILO's**
- **ANY EQUIPMENT & SPARES OF CEMENT & SPONGE IRON PLANTS**



Boring & Milling Machine



Double Column Planner



Conveyor Drum Pulleys



Shell Welding Rig



Flap Valve



Cement Mill Bare Shell



Bucket Elevator Casing



Belt Feeder



Rod Gauges



Screw Conveyor



Silo on Transportation



Cement Silo

Cement Plant & Sponge Iron 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.



Air Blower Fans



Junction Boxes



Belt Conveyor



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

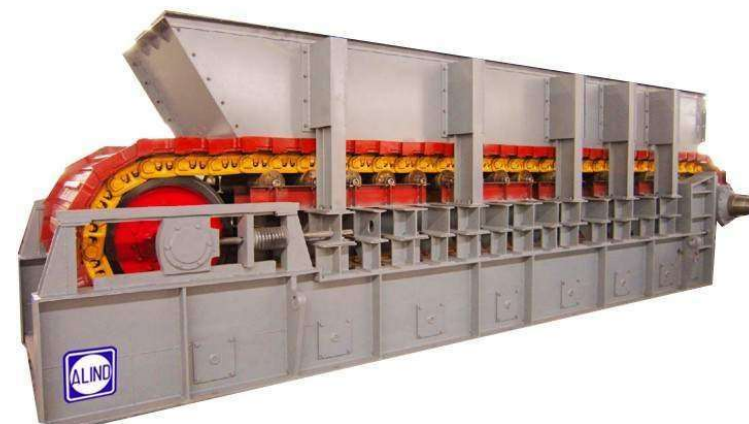
ALIND's Spiral Classifiers are applicable for various ore classification of different mesh sizes. The rake-up capacity of ALIND's classifiers is suitably designed for eliminating surging of the feed. These classifiers are applicable for separation of ores, silicate gangue, sulphide minerals and slurry 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.FeedSize (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 x2125	100 x 140 x200	0.25	30	60	90	0.75	1.5	1.5	250
SAF-726	750 x2625	150 x 210 x300	0.4	50	100	150	0.75	1.5	2.2	250
SAF-928	900 x2875	200 x 260 x400	0.6	85	170	255	1.5	2.2	3.7	250
SAF-1031	1000 x3150	200 x 260 x400	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 will decrease according to the length of machine and the apron speed.

ROTARY KILN & COOLERS



BUCKET ELEVATORS



Ball Mills



Fans



Thrust Roller



Heavy Erections Jobs



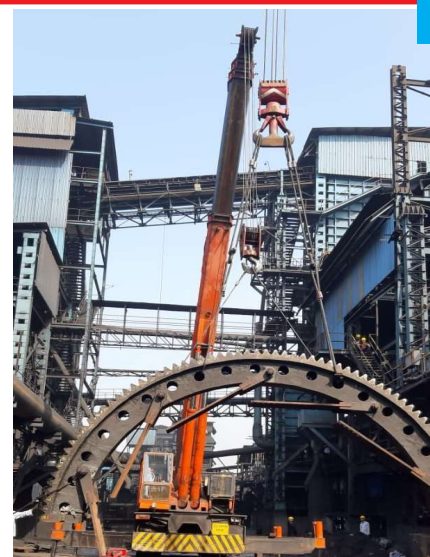
All typical Fabrication



Manufacturing



We are Offering a Wide range of Equipment's and spares as well as services to our customers after understanding their requirements. Our dedication towards commitment is always giving us a separate path from others & Our customers repeatedly comes to us because of our commitment & Timely delivery.



We are having our expertise team in kiln alignment, Kiln erection and as well as Kiln shell replacement. We also undertaking complete package of Kiln shell replacement from Kiln shell supply to replacement.

Services We Provide

- Kiln shell replacement & Alignment services.
- Kiln Girth gear replacement/reversal & alignment services.
- Services for all type of retrofit jobs.
- Equipment health check up and submission of reports for Kiln, Ball Mills, VRM's all other equipment's of Cement, Sponge iron plants.
- Providing supervision services for all types projects, trouble shooting, shutdown related jobs in Cement, Sponge iron plants.
- Providing services for All type of alignment and balancing related jobs.



- Supply of all types of spares of Cement & Sponge Iron Industry.
- Supplying of Major Equipment components like support roller, Kiln shell, Ball mill, Rotary airlocks, Slide gates, Rod gates, Metallic non metallic expansion joints, Pinions, Spring plates of girth gear all type of shafts, Bearings, Expansion joints, Shell air tubes, Coal Injectors for sponge iron plants, Rotary coolers for Sponge iron plants, Grate coolers spares of Cement plants, Bucket elevators, Air slides, Blowers, Fans, Screw conveyors, Belt conveyors etc. .
- Fabrication & Supply of Cyclones, Structures of all types, Tanks, Ducts, Chutes and all type of fabrication facility available at our factory workshop.

Inspections of Girth gear



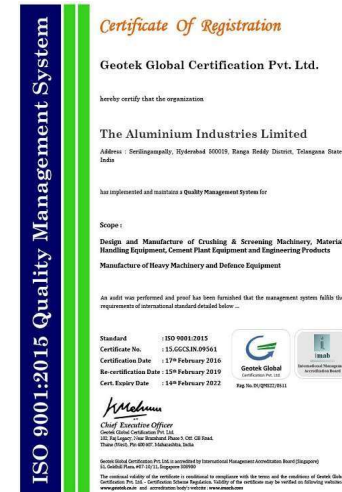
WHY OUR CUSTOMERS COMES TO US.

- More than 52 years of Engineering Excellence in the field of Manufacturing.
- Around 38720 Square yards Closed & 445280 Open Work Area in Central Hyderabad.
- World class Calibrated Machineries.
- Uninterrupted after sales services to our customers.
- Proven Engineering team & Service expertise staff.

Some Valuable customers of ALIND



ISO Certificate



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