



ALUMINIUM INDUSTRIES LIMITED

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



ALUMINIUM INDUSTRIES LIMITED

Corporate Office

#1-55/4/RP/L6/W2
Raja Praasadamu, Maseed Banda
Botanical Garden Road, Kondapur
Hyderabad - 500 084, Telangana

Factory

Serilingampally, Hyderabad - 500 019
Telangana, India
Phone: 040 - 2301 0817/18/19
Email: mktg.hyd@alindltd.in





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



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	: 1250 mm
Table & turret head	

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

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



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.



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			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



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 PLAT CEMENT SILO's**



Boring & Milling Machine



Double Column Planer



Conveyor Drum Pulleys



Shell Welding Eqpt

Flap Valve



Cement Mill Bare Shell



Bucket Elevator Casing



Belt Feeder



Rod Gaes



Screw Conveyor



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.



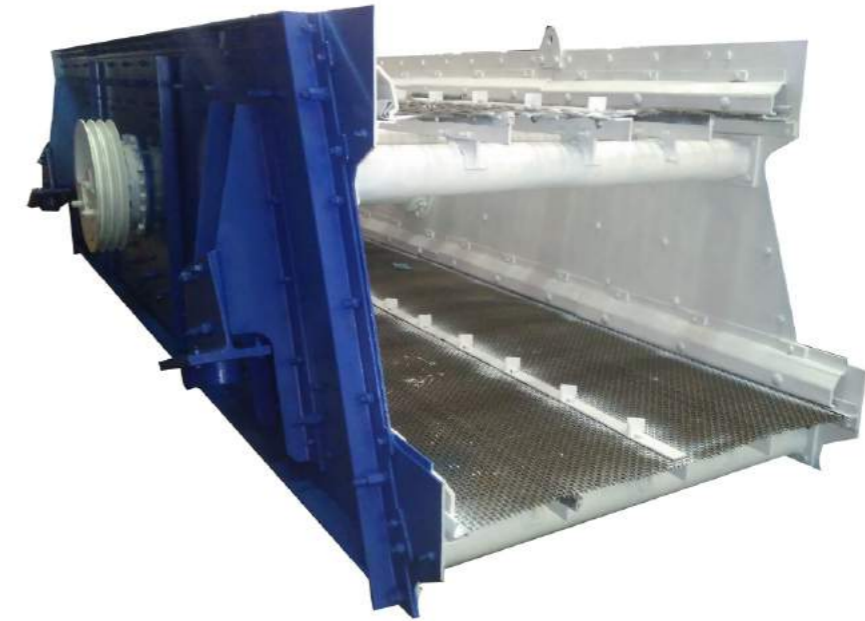
Air Blower Fans



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

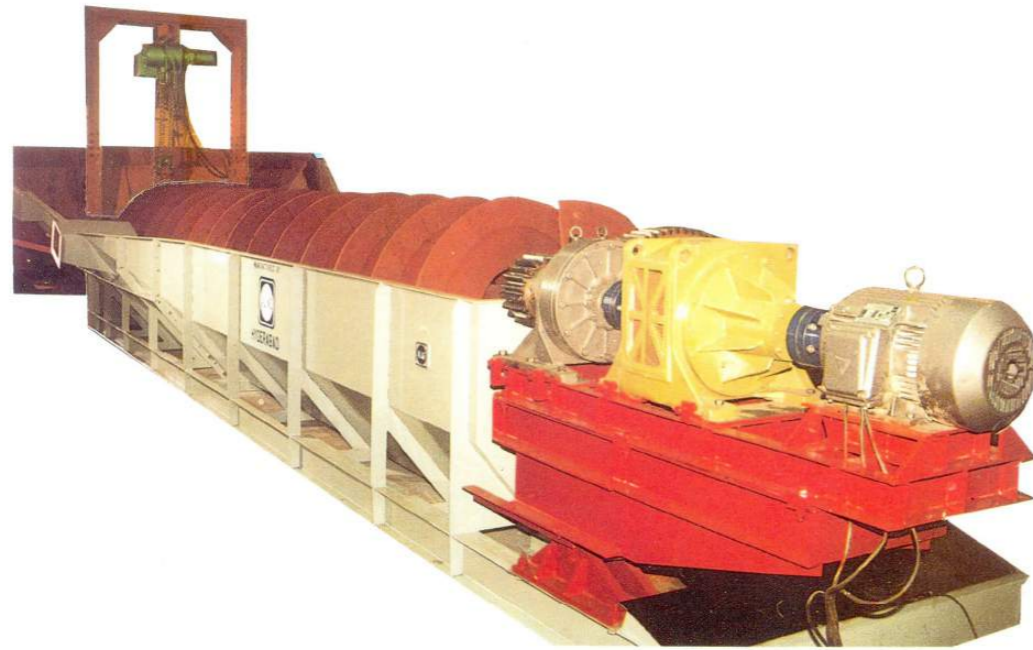
ALIND's Vibrating Screens being used very efficiently in a wide range of applications - both dry and wet systems of crushed stone separation, fine sand screening and for a variety of mineral classifications. A simple vibrating mechanism located at the screen's centre of gravity, provides a circular stroke 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

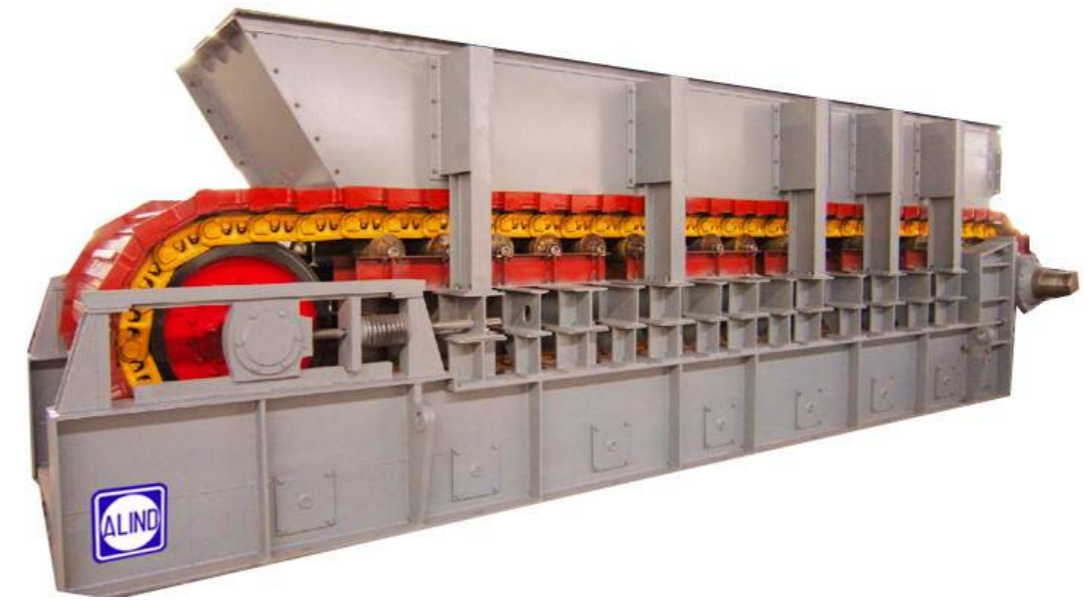
ALIND's Spiral Classifiers are applicable for various ore classification of different mesh sizes. The rake-up capacity of ALIND's classifiers is suitably designed for eliminating surging of the feed. These classifiers are applicable for separation of ores, silicate gangue, sulphide minerals and slurry 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.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.

