

# About Us

## AKSA GLOBAL ENGINEERING

Globally innovative solutions and experienced in processing of minerals and raw materials for industries;

- Cement, Limestone, Lime, Gypsum, Aggregates
- Ceramics
- Mining (Coal, Minerals, Ores),
- Metallurgy
- Recycling

AKSA GLOBAL ENGINEERING, globally experienced well with their brands, with system approaching to respective sub segments for grinding and separation industry.

Fullfilled several projects in more than 40 countries with mechanical, thermo and process engineering solutions.

- TURN-KEY Process / Plant solutions
- Industrial solutions for crushing, WET AND DRY grinding, Compacting, Mechanical and Thermic Drying, Cooking, Cooling, Etc.

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**AKSA GLOBAL**  
Development Center

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- Recycling



# AKSA GLOBAL DC & ENGINEERING & SYSTEMS

## 1. SIZE REDUCTION MACHINERY

### 1.1 Crushing machinery

- 1.1.1 JAW CRUSHER
- 1.1.2 CONE CRUSHER
- 1.1.3 ROLL CRUSHER
- 1.1.4 VERTICAL ROTOR CRUSHER
- 1.1.4 Grinding machinery
- 1.1.5 HIGH PRESSURE GRINDING ROLLS (DRY GRINDING)
- 1.1.6 ROLLER TABLE MILLS (DRY GRINDING)
- 1.1.7 PENDULUM ROLLER MILL (DRY GRINDING)
- 1.1.8 RING ROLLER MILL (DRY GRINDING)
- 1.1.9 VORTEX MILL (DRY GRINDING)
- 1.1.10 ROD MILL (WET OR DRY GRINDING)
- 1.1.11 BALL MILL (WET OR DRY GRINDING)
- 1.1.12 PEARL MILL (WET OR DRY GRINDING)

## 2. SIZE CONTROL

### 2.1 Screening machines

- 2.1.1 CIRCULAR MOTION, SINGLE INCLINATION SCREEN (DRY OR WET)
- 2.1.2 LINEAR MOTION, MULTIPLE INCLINATION BANANA SCREEN (WET)
- 2.1.3 FLIP-FLOP SCREENS (FOR MOIST MATERIALS)
- 2.1.4 TUMBLERY SCREENS (DRY)
- 2.1.5 VIBRATORY TUMBLERY SCREENS (WET)

### 2.2 Classification machines

- 2.2.1 HYDRO CYCLONES (WET)
- 2.2.2 SPIRAL CLASSIFIERS (WET)
- 2.2.3 STATIC AIR CLASSIFIERS (DRY)
- 2.2.4 FLUIDIZED BED ZICK-ZACK STATIC CLASSIFIERS (DRY)
- 2.2.5 DYNAMIC AIR CLASSIFIER WITH POTENTIAL VORTEX WHEEL
- 2.2.6 DYNAMIC AIR CLASSIFIER WITH VORTEX BREAKER WHEEL

## 3. COMPACTING MACHINES

### 3.1 Compaction press 3.2 Briquetting press

- 3.2.1 HOT BRIQUETTE PRESS
- 3.2.2 COLD BRIQUETTE PRESS

### 3.3 Pellet press

- 3.3.1 PELLETT PRESS WITH RING MATRIX
  - 3.3.1.1 Pellet press with rotating ring matrix
  - 3.3.1.2 Pellet press with standing ring matrix
- 3.3.2 PELLETT PRESS WITH FLAT MATRIX
  - 3.3.2.1 Pellet press with rotating flat matrix
  - 3.3.2.2 Pellet press with standing flat matrix

### 3.4 Pelletizing discs 3.5 Pelletizing drums

## 4. ENRICHMENT MACHINES

### 4.1 Washing machines

- 4.1.1 WET SCREENS
- 4.1.2 TUMBLING SCRUBBERS
- 4.1.3 ATTRITION SCRUBBERS

### 4.2 Gravity separation

- 4.2.1 JIGS (WET)
- 4.2.2 SPIRAL CONCENTRATORS (WET)
- 4.2.3 SHAKING TABLES (WET)
- 4.2.4 FLUIDIZED BED SEPARATORS (DRY)
  - 4.2.4.1 Static fluidized bed separator
  - 4.2.4.2 Vibrating fluidized bed separator

### 4.3 Flotation separation

- 4.3.1 REACTOR TYPE FLOTATION CELL
  - 4.3.1.1 Reactor type flotation cell with self-venting
  - 4.3.1.2 Reactor type flotation cell with separate low pressure air source
- 4.3.3 COLUMN FLOTATION CELLS

### 4.4 Magnetic separation

- 4.4.1 DRY DRUMS MAGNETIC SEPARATORS (LIMS)
  - 4.4.1.1 Single drum magnetic separator
  - 4.4.1.2 Twin drum magnetic separator
  - 4.4.1.3 Belt drum magnetic separator
  - 4.4.1.4 Electromagnetic drum separator
- 4.4.2 DRY ROLL MAGNETIC SEPARATORS (HIMS)
  - 4.4.2.1 Single stage Roll magnetic separators
  - 4.4.2.2 Multi stage Roll magnetic separators
- 4.4.3 OVER BELT HOLDERS (AUTOMATIC CLEANED)
  - 4.4.3.1 Permanent magnetic over belt holders
  - 4.4.3.2 Electromagnetic over belt holders
- 4.4.4 EDDY CURRENT SEPARATORS
- 4.4.5 WET DRUM MAGNETIC SEPARATOR (LIMS & MIMS)
  - 4.4.5.1 Concurrent rotation wet drum magnetic separator
  - 4.4.5.2 Counter rotation wet drum magnetic separator
- 4.4.6 VERTICALLY ROTATED WET CONTINUOUS HIGH GRADIENT MAGNETIC SEPARATOR-YMS
- 4.4.7 WET CYCLIC HIGH GRADIENT MAGNETIC FILTER - YMF

## 5. UPGRADING MACHINES

### 5.1 Sedimentation

- 5.1.1 CONVENTIONAL THICKENERS
- 5.1.2 LAMELLA INCLINED PLATE SETTLER

### 5.2 Mechanical dewatering

- 5.2.1 GRAVIMETRIC DEWATERING MACHINES
  - 5.2.1.1 Dewatering spirals
  - 5.2.1.2 Dewatering screens
- 5.2.2 LOW PRESSURE DEWATERING MACHINES
  - 5.2.2.1 Vacuum rotary disc filters
  - 5.2.2.2 Drum vacuum filters
  - 5.2.2.3 Belt drums vacuum filters
- 5.2.3 MEDIUM PRESSURE DEWATERING MACHINES
  - 5.2.3.1 Mechanical vertical plate pressure filter
  - 5.2.3.2 Hydraulic vertical plate pressure filter

### 5.3 Thermal Drying

- 5.3.1 ROTARY DRYER
  - 5.3.1.1 Cascade type direct heat rotary dryer (single or multi shell)
  - 5.3.1.2 Indirect heat rotary dryer
- 5.3.2 FLUIDIZED BED DRYERS
  - 5.3.2.1 Static fluidized bed dryer
  - 5.3.2.2 Static fluidized bed zick- zak dryer
  - 5.3.2.3 Fluidized bed vibration dryer
- 5.3.3 FLASH DRYERS
  - 5.3.3.1 Flash dryer with disperser
  - 5.3.3.2 Flash dryer with mill
- 5.3.4 SCREW DRYER
  - 5.3.4.1 Direct heat screw dryer
  - 5.3.4.2 Indirect heat screw dryer

## 6. THERMAL PROCESSES

### 6.1 Rotary Kilns

- 6.1.1 ROTARY KILN FOR CALCINATIONS (lime, dolomite, magnesite, etc.)
- 6.1.2 ROTARY KILNS FOR SINTERING (cement, dolomite, magnesite, metallic ores, etc.)
- 6.1.3 ROTARY KILN FOR REDUCTION (sponge iron, zinc oxide)

### 6.2 Vertical Kilns

- 6.2.1 Shaft kilns for calcinations & sintering (lime, dolomite, magnesite, etc.)
- 6.2.2 Multiple hearth furnaces for calcinations & reduction (hematite, siderite, magnesite, etc.)

### 6.3 Coolers

- 6.3.1 Rotary coolers
  - 6.3.1.1 Direct rotary coolers
  - 6.3.1.2 Indirect Rotary coolers
- 6.3.2 Fluid bed coolers
- 6.3.3 Static indirect cooler



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