FCB Rhodax® 4D, the latest compressive technology for the best crushing and grinding performances

- Accurate control of the grinding force and high reduction ratio
- Constant product quality with the highest added value
- Low wear and long lifetime crushing parts
- A wide range of dry process applications: fused alumina, fired clay, silicon, ferroalloys, mattes, concrete recycling...
FCB Rhodax® 4D, the ultimate technology that merges crushing and grinding applications in a single equipment

**MARKET NEEDS & BUSINESS REQUIREMENTS**
- Reduce crushing stages
- Control of ultrafines production
- Make artificial sand
- Shape the product
- Get better liberation at higher screen mesh
- Fast and easy liners change
- Get steady finish product

Using interparticle compressive grinding, FCB Rhodax® 4D allows for a full control of the grinding force

3 to 6 alternate phases of grinding and gravity drop through the crushing chamber in a single pass

**INTERPARTICLE COMPRESSIVE GRINDING**

Selective grinding with the highest liberation

**CLOSED CIRCUIT OPERATION**

Production of fine (< 500 μm) to coarse (up to 35 mm) final product
FCB Rhodax® 4D provides the highest reduction ratio in the market —

Constant product quality, totally independent from the wear of the liners —

Long lifetime of wear parts leading to significant savings, especially when grinding hard and abrasive materials —

Replacement of 2 to 3 conventional crushing stages —

Control of the ultrafines production —

Adjustable capacity and particle size distribution —

High liberation ratio for the best beneficiation —

Up to 30% energy savings —

Recycling of unsold stocks or undesirable fractions —

Low flakiness index (cubical shape)
FCB Rhodax® 4D, a flexible machine for a wide range of applications

PROCESS APPLICATIONS
— Ceramics, tiles, fired clay
— Abrasives
— Silica
— Silicon metal
— Ferroalloys
— Diamond ore
— Concrete recycling
— Precious and rare metals
— Iron ore
— Phosphates
— Limestone
— Slags
— Others...

FCB RHODAX® 4D RANGE
(LP / HP: Low / High Pressure)

<table>
<thead>
<tr>
<th>Equipment range</th>
<th>Maximum feed size (mm)</th>
<th>Nominal power (kW)</th>
<th>Nominal gap (mm)</th>
<th>Nominal throughput* (tph)</th>
<th>Capacity at 1mm screening* (tph)</th>
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</thead>
<tbody>
<tr>
<td>FCB Rhodax® 300 HP</td>
<td>30</td>
<td>13</td>
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<tr>
<td>FCB Rhodax® 450 HP</td>
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<td>FCB Rhodax® 800 HP</td>
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<tr>
<td>FCB Rhodax® 1400 HP</td>
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<td>56</td>
<td>560</td>
<td>71</td>
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</tbody>
</table>

* Capacities given are FCB Rhodax® 4D throughput when crushing dry clean material with bulk density of 1600 kg/m³ in closed circuit. Factors which may affect capacity include hardness, moisture content, size distribution of the feed material and final product size.

KEY REFERENCES
— FCB Rhodax® 300 – Fired clay grinding
  2 tph from 0-30 mm to 0-800 μm
— FCB Rhodax® 450 – Corundum crushing
  4 tph from 0-30 mm to 0-2 mm
— FCB Rhodax® 600 – Silicon grinding
  4 tph from 0-90 mm to 0-425 μm
— FCB Rhodax® 1000 – Chromium corundum crushing
  50 tph from 0-120 mm to 0-6 mm

FCB RHODAX®-CARE
Tailor-made Technical Assistance Program
— Comprehensive process and technical surveys
— Spare parts management
— Predictive maintenance plan
— On-site trainings

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