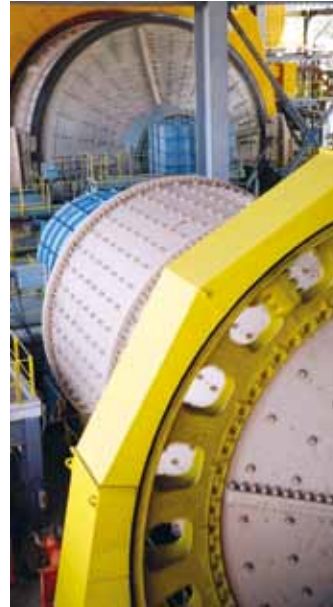


# Hard Core Productivity Mining & Aggregate Solutions ABB Low Voltage Softstarters



In the mining and aggregate industries, equipment strength and endurance is a make-or-break necessity. Heavy-duty crushers, pumps, conveyors, and mixers are just some of the machinery involved in generating finished products. This moving equipment is prone to damaged shafts, bearings, motor mounts, couplings and belts due to high starting currents and starting torque.

To eliminate these issues, ABB's line of softstarters is perfect for the task. The ABB softstarter is engineered to address the common problems experienced in the mining and aggregate industries by providing a smooth motor acceleration and deceleration.



Common industry problems	ABB Softstarter solutions
<ul style="list-style-type: none"> <li>• Damaged conveyors</li> <li>• Mixer paddles breaking</li> <li>• Damaged motor &amp; transmission</li> </ul>	<ul style="list-style-type: none"> <li>• Reduces torque shock</li> </ul>
<ul style="list-style-type: none"> <li>• Nuisance tripping</li> <li>• Voltage drops</li> </ul>	<ul style="list-style-type: none"> <li>• Reduces inrush current</li> </ul>
<ul style="list-style-type: none"> <li>• Pumps running dry</li> </ul>	<ul style="list-style-type: none"> <li>• Underload protection</li> </ul>
<ul style="list-style-type: none"> <li>• Pressure surges &amp; water hammer</li> </ul>	<ul style="list-style-type: none"> <li>• Torque Control®</li> </ul>
<ul style="list-style-type: none"> <li>• Damaged contactor contact tips</li> </ul>	<ul style="list-style-type: none"> <li>• Replaces contactors with solid state control</li> </ul>
<ul style="list-style-type: none"> <li>• Other common issues...</li> </ul>	<ul style="list-style-type: none"> <li>• Adjustable start/stop ramps</li> <li>• Cost efficient</li> <li>• Small and compact</li> <li>• Heavy duty option in standard offering</li> <li>• Built-in presets for compressors, fans &amp; conveyors</li> </ul>

# Mining & aggregate applications for softstarters

Processes	Equipment to look for
Rock quarries Cement plants Concrete plants Asphalt plants Gravel pits Gypsum plants Mines Ore processing facilities Packaging Transportation Heavy equipment Weighing	Crushers (jaw, cone, impact), vibrating feeders & screens, bucket elevators, feed & sump pumps, kiln fans, ball mills, pug mills, bag house fans, drives, tunnel boring machines, cutters, equipment manufacturers, compressors, conveyors, sorting/packing equipment, air compressors, motors, presses, hydraulic power units, winches, cranes, weighing/lift stations, stackers, loaders, hoppers, industrial trucks, elevators, by-pass on backup generators



## ABB Softstarter families



### Compact Range PSR 2-75 HP @ 480 V

- Fast, easy installation & setup
- Integrated bypass
- Easy adjustments
- Fieldbus connectable



### Flexible Range PSS 10-200 HP @ 480 V

- Fast, easy installation & setup
- Operate with or without bypass
- Current limit option
- Fault LED & relay output



### Advanced Range PST 20-900 HP @ 480 V

- Easy to program digital display
- Integrated bypass (300 HP and up)
- Electronic overload protection
- Torque Control®
- Fieldbus communications



For more information about ABB's softstarter products and accessories, consult our Softstarter catalog, available for ordering or download from our literature library at:

[www.abb.us/lowvoltage](http://www.abb.us/lowvoltage)

PSR, PSS, PST & Extreme Duty  
Softstarters catalog  
1SXU132199C0201, Oct. 2009

1SXU132218L0201 December, 2009

**ABB Inc.**  
1206 Hatton Road  
Wichita Falls, TX 76302  
Telephone 888-385-1221; 940-397-7000  
Fax 940-397-7085  
<http://www.abb.us/lowvoltage>

Power and productivity  
for a better world™

