



ENERGY & DENSIFICATION SYSTEMS

COMPANY PROFILE

Energy and Densification System (EDS) has developed equipment for crushing, milling, blending and densifying products, based on a globally patented process.

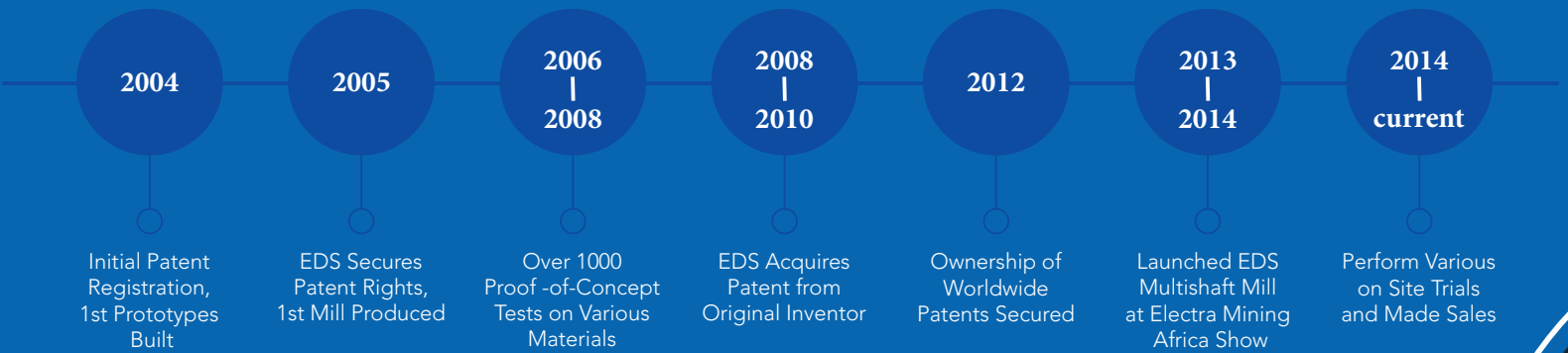
The EDS Multishaft Mill has applications in a wide variety of industry sectors. Sectors include mining, waste management, steel manufacture, construction, environmental rehabilitation, agriculture and general milling.

Comminution often accounts for more than 60% of the total power consumption on a mine. One of the key problems to be solved in comminution is to bring down the specific energy required to reduce particle sizes.

Customer's needs often include efficient milling, mobile milling, improved liberation, lower maintenance, lower capital costs, short lead times, redundancy and generator driven options. The EDS Multishaft Mill can solve many of these requirements.

EDS's target market includes but is not limited to various ores (gold, platinum, chrome, kimberlite, etc), slags, silica, coal, coal waste, biomass, clinker, limestone, graphite, animal feed, various mineral and ore waste materials, to name but a selection.

A BRIEF HISTORY





OUR COMPANY STRUCTURE

EDS has its head office in Johannesburg, South Africa, which cover sales in domestically and internationally. EDS has a full test facility in Germiston, Johannesburg.

THE EDS MULTISHAFT MILL

The EDS Multishaft Mill is a compact vertical mill. The milling action combines a number of processes to provide an output product which will match various specifications. These processes are crushing, milling, densifying and blending.

The Multishaft Mill has a number of shafts with flinger attachments which are used to agitate and accelerate the product as it passes through the Mill. The product is broken down due to impact on flingers, the Mill body as well as other particles of the product.

The motors which drive the shafts are controlled by Variable Speed Drive to allow a wide variety of setups for the mill. The Programmable Logic Controller (PLC) allows control over feed and discharge rates giving further flexibility to the process. There is also an option to install hydraulic motors and a hydraulic power pack to drive the shafts.

Various hardware configurations are possible for the mill, including number of shafts and number of flingers per shaft. The Mill has been designed to allow easy attachment of other ancillary equipment. The Mill is currently available in 10, 8 and 6 shaft models.

ADVANTAGES

- Energy efficient with up to 75% improved efficiency.
- Improved liberation of minerals due to breakage mechanism.
- Mill can easily be retrofitted to existing infrastructure.
- High reduction ratios in a single pass.
- Dry or wet milling capabilities
- Safe, simple and quick change out of wear parts.
- No specialised equipment required for installation or maintenance.
- Can be run off a generator, startup power draw significantly reduced.
- Very low safety risk (no external moving components).
- Requires no civils and can even be placed on skids.
- Stackable for redundancy and maintenance.
- Short lead time (12 - 14 weeks from order).
- Quick installation time (<1week).
- Low noise and low vibrations.





EDS Multishaft Mill

Tertiary crushing and primary milling

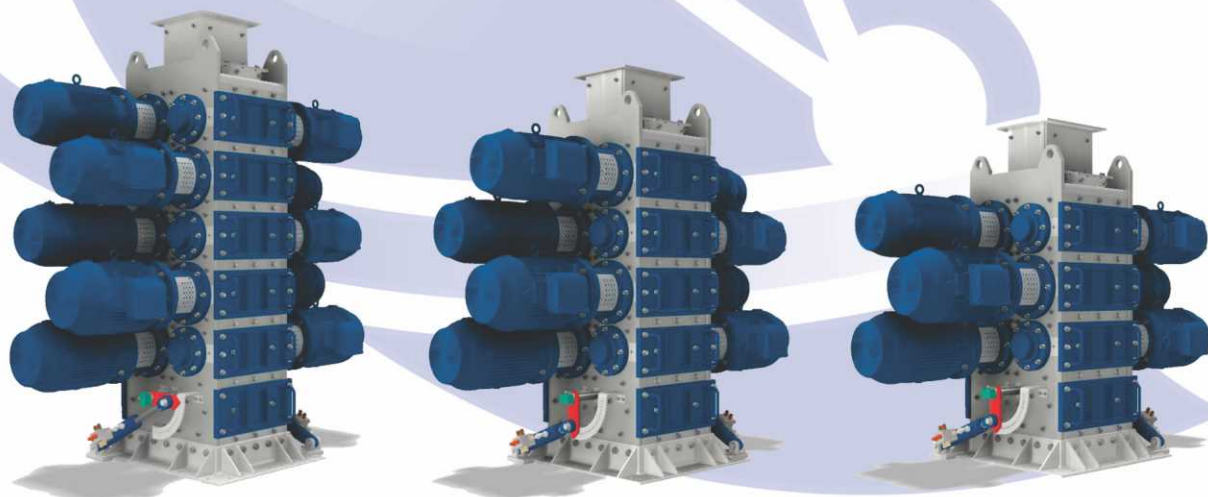
>75% better energy efficiency

Preferential liberation on
mineral boundaries



How can we
improve your
operations?

MILL SPECIFICATIONS



	10 SHAFT	8 SHAFT	6 SHAFT
Total Motorised Power ^{1*}	180-220kW	148-176kW	118-132kW
Voltage Options	380/525V	380/525V	380/525V
Max kVA required	300kVA	240kVA	180kVA
Total Weight w/ Wear Parts	5,3t	4,4t	3,5t
Height	2,4m	2,1m	1,8m
Width	2,2m	2,2m	2,2m
Depth	1m	1m	1m
Total Flingers	180	144	108
Total Wedges	40	32	24
Hydraulically Operated Gates ²	Yes	Yes	Yes

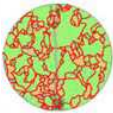
1. Motor configuration can be changed to suit client requirements.
2. Mill can be supplied without hydraulics or gates.
- * Mill motors can be supplied as hydraulic motors as an option.
This allows for higher torque and ultimately higher throughput.

OUR GOAL & VISION

To be the preferred supplier of new milling technologies to our clients. To work with them in developing solutions to their comminution requirements which will benefit their organisation both commercially and in meeting their safety, social and environmental goals.



EDS Impact Force Breakage

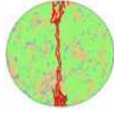


Breakage along mineral boundaries (weakest areas) providing preferential breakage/grade engineering



Competitor Product

Compressive Force Breakage



No preferential breakage point to point breakage



Tel: +27 11 784 2331

Wedgewood office Park , 3 Muswell Road,
Bryanston, Johannesburg, Gauteng, 2191

info@edsza.com
www.edsza.com

