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**Budget Quotation No. AG-KLM-10072024
Dated: October 7, 2024**

Application: For the pre-size reduction of sprues & runners. The DWS Dual Shaft Shredder can receive a full bale to open the material up to feed into the SML60/100 SB Granulator.

1 HERBOLD Double-Shaft Shredder Type DWS45/160

Double-Shaft Shredder with two rotors and centrally positioned fixed stator knives. The rotors are equipped with reversible, screwed cutting crowns which are also identically used in the stator knives. The size of the material to be shredded into a uniform and homogeneous particle size is determined by the choice of screen size. By comparison to conventional screenless double-shaft shredders, the DWS shredder does not cause strips to be formed.

Due to the rotor's big working surface, the machine has a very good intake behaviour and is suited to the materials that can just be charged in doses such as big bags or big voluminous bodies.

Specifications:

Feed opening:	approx. 880mmx1600mm (flange size housing)
Rpm:	75rpm
Rotor diameter:	450mm/each
Rotor length:	1630mm
Rotary cutters:	69x2 (138 total)
Stator knives:	24x2 (48 total)
Knife size:	50x50mm concave
Knife quality:	High quality chrome nickel steel tool
Drive:	2x55kW, 400V/460V, 5Hz/60Hz AC motor, type B3, IP55, reinforced storage
Weight:	approx. 10,500 kg

Hopper design (open design)

Designed for direct or belt conveyor feeding, in all steel welded construction; ribbed on the outside.



Housing construction:

All in steel welded construction. Rotor and stator knives are structurally identical and assembled in replaceable cartridges which are installed with positive locking at the rotor and at the first stator blade.

Rotor type:

Rotor prepared for a water circulation cooling system with screwed shaft ends.

Rotor bearing:

Self-aligning roller bearings in pillow block bearing housings, completely outside and separated from the grinding chamber. Both bearings with regreasing possibility.

Screen mounts:

Replaceable screen baskets, each 4 pieces per side with manually working swing-off assembly. Easy accessibility through big maintenance doors on the housing.

Drive

55kW AC motor, 400/460V, 50/60Hz, V-belt and individually propelled rotors via spur gearing. Torque control via safety clutch with electronic deactivation.

Reversing operation:

In case of overload, the relevant shaft stops, reverses, and restarts automatically.

Price

\$175,000.00

Cost Savings =

(\$85,000.00)

Spare Parts

1 set of cutters (rotor & bed use the same)	\$ 6,138.00
1 set of screens (8 pieces/set)	\$ 10,600.00

General Information

Operators

For the supervision of the operating plant 1 qualified technician or electrician, number of workers for the feeding and transporting of the end product according to customer's requirements

Electrical power

Installed power



approx. 110 kW

Voltage, control voltage

460 V, 3 phase

Control voltage: 24V

Power consumption: approx. 60-70% during regular operation.

Equipment colour

RAL 5014 pigeon blue, RAL 7032 pebble grey or as agreed.

Installation supervision and training

Installation supervision and training

For the installation supervision, start-up service and training of the operators we will provide 1 supervising technician with active installation participation. The customer provides any necessary tools, lifting devices, power supply etc. necessary for the installation process. He provides the necessary qualified manpower for the installation of the system, 1 qualified mechanical engineer, 1 qualified electrical engineer, 4-6 qualified helpers.

The site for the installation must be ready for the installation prior to the arrival of our technician. Ready for installation means: the hall in which the plant will be erected is finished, power supply installed, dirty water channels and collection pit existing, water and compressed air supply provided, the ground floor finished according to our specification, the hall is sufficiently illuminated, if necessary heated, the technicians have an office space with communication means like telephone and e-mail, proper sanitary facilities are available etc.

Daily rate for 1 technician. \$950.00/ day plus expenses (airfare, hotels, meals, rental car etc.)

Terms, Conditions, Exclusions

Exclusions:

If the following items have not been quoted, they are excluded:

- Installation, installation supervision and training
- foundation and modification work and engineering to the building,
- sound insulation,



- cables to the control unit and cables from the control units to the motors,
- control units,
- automatic air filtering systems,
- precautions against explosion risks and fire (ATEX measurements according to EU policy 94/9/EG)
- precautions against odour caused by contamination,
- sufficient ventilation in the room where the machine will be placed,
- anti-wear protection against abrasive feed material,
- maintenance platforms,
- lifting tools
- any tools and devices and means for the installation and maintenance of the unit
- chimney for exhaust air (in case a gas heater is used)
- all utilities supplies such as air, water, gas, etc. to each machine to be provided by customer.
- All other deliveries and services not explicitly mentioned in the quotation as part of our delivery scope.

Prices

FOB North Smithfield, RI

Seller and Buyer agree that, should Buyer be subject to any sales or use tax on the purchased goods under applicable state laws, and such tax was not included on the invoice from Seller, Buyer will be responsible for paying the appropriate sales and/or use tax, and filing the appropriate forms with the state on a timely basis. Buyer will indemnify Seller against any sales and/or use tax amounts due, or any amounts related to sales and/or use tax amounts due, under this contract.

Payment terms

100% Prior to shipping

Warranty

None, Herbold warranties machine is operational

Delivery

Approximately 4-5 weeks after receipt of your confirming purchase order and payment in full.