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Budgetary Quotation No. AG-DL-102411

Properly gapped and sharpened knives must be maintained at all times for maximum efficiency.

Pos. 1 1 HERBOLD Granulator, Type SMS 45/100-H5-3

Cutting chamber opening:	600 x 980 mm
Rotor diameter:	450 mm
Rotor length:	980 mm
Rotor knives:	5x2
Bed knives:	2x2
Wedge knives	2x1
Drive:	90 kW

Feed Hopper

In sturdy welded steel design with strengthening ribs on the surface of the hopper. Fitted with heavy-duty solid plastic safety flaps and/or curtains to prevent material flyback.

Housing Design

Centrally hinged two-piece welded steel design, upper and lower housing units meet at an inclined angle. Two bed knives are mounted to opposite sides of the dividing surface. A third bed knife is mounted to the deflection wedge. Both are fitted as a single element to the upper section of the housing.

Hydraulic Opening Device

Electro hydraulic opening device for opening and closing the granulator cutting chamber as well as for lowering and lifting the screen cradle.

Advantage:

The upper section of the housing, including the feed hopper, is hinged open away from the direction of the feed leaving the rotor and grinding chamber freely accessible for maintenance and cleaning.



Rotor Design

Open heavy-duty, rotor with one-piece knife mounting plates and knife cover plates. No threads tapped into the rotor, knives are mounted with mounting plates. Optimal knife mounting with back stops on each rotor cross member. The only screws are the rotor knife adjustment screws at the rear of the knives.

Advantages:

High throughput.

Rotor designed for processing of heavy and tough materials.

Optimal rotor and bed knife mounting for heavy duty application and high cutting power.

Rotor Bearing

Self aligning roller bearings in steel pillow block housings, completely outside and separated from the grinding chamber. Both bearings are fitted with a lubricating point.

Advantage:

It is not possible for fines to enter the bearings and grease cannot come into contact with the product. .

Cutting Geometry

Double cross cutting action, i.e. the rotor and bed knives are mounted at inclined angles opposed to each other thus forming a true scissor cut.

Advantages:

Better quality cut due to exact gap across the whole length of the knife.

Higher throughput with reduced power consumption.

Lower working noise level.

Knife Quality

All knives are manufactured from high quality D2 chrome nickel tool steel.

Knife Adjustment

This is carried out outside the granulator in a jig supplied with the machine.

Advantages:

It is not necessary to adjust the knives in the granulator.

Replacement knives can be adjusted using a set of sharpened knives while the granulator is in operation.

Down time is considerably reduced.

The cutting circle of the rotor knives (gap between the rotor knives cutting edge and screen surface) always stays the same.

Screen Mount

The screen is located in a hinged support and is removed through the inspection door in the lower section of the housing. Customer to advise screen size.



Advantage:

*No tools required for removing the screen.
Quick screen replacement without opening the housing.*

Base Frame

Flat welded steel design to take the granulator with the drive motor (on tension rails). The frame is supplied with anti-vibration pads.

Pulleys

The granulator pulley is designed as a solid flywheel with SPC profiles.

Advantage:

The oversized rotor pulley can cope with high peak loads that may occur.

Drive Motor, Wye Delta

90 kW three-phase motor, type B3, protection IP 44, 460 V, 60 Hz, 1800 rpm, heavy duty bearings, TEFC, thermistor protected, 1.15 service factor.

Advantages:

*Power in reserve.
High quality motor.*

Safety Devices

Integrated run down safety devices prevent access to the unit until the rotor has reached a standstill. A rotor locking device has been provided to assist in blade changeout. Seals according to CE standards.

Price \$93,103.00

Delivery: In stock, Smithfield, RI - subject to prior sale
FOB: Smithfield, RI – freight collect

Pos. 2 1 Pneumatic Discharge and Transport System

MFT 55/500 evacuation system, complete with 11kW blower, belt driven, cyclone, extract air hood with hanging filter bags, double discharge, piping, cyclone and support stand for container filling (container 48" x 48" x 48").

Price \$17,020.00

Delivery: In stock, Smithfield, RI - subject to prior sale
FOB: Smithfield, RI – freight collect



Pos. 3 1 Electrical Control Unit, Wye Delta

Consisting of a suitably dimensioned control cabinet with all necessary protection devices and relays. Push button on/off switches with indicator lights. The control unit is completely wired internally and fixed to a clearly marked terminal strip. The control cabinet meets US safety.

Price \$11,635.00

Delivery: In stock, Smithfield, RI – subject to prior sale
FOB: Smithfield, RI – freight collect

Pos. 4 Spare Parts

1 set of rotor knives (10 pieces) @ \$137.00 each	\$1,370.00
1 set of bed knives (4 pieces)	\$ 600.00
2 wedge knives @ \$160.00 each	\$ 320.00
1 set of knife fastening and adjusting bolts	\$ 287.00

Total Price Positions 1-4 \$124,335.00

Exclusions

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

- assembly
- wiring from the control panel to the users
- wiring from the main power supply to the control panel
- any air or ground channels for the electrical cables
- any needed air and power supply for the operation of the plant
- any foundation work
- any tools, devices and means for the maintenance of the unit and for the re-sharpening of knives
- precautions against odor due to contamination
- any provisions for wear and tear due to abrasiveness of the input material and anything else not mentioned in the quotation as part of our delivery scope.

Warranty

12 months from commissioning, but not later than 15 months after delivery and in accordance with our terms of guarantee. Parts subject to normal wear and tear such as V-belts, bearings, knives, etc. are excluded. See attached Terms and Conditions of Sale.