

Quotation No.: 10005990

IV Description of goods

1,0 POLARIS 2800-1

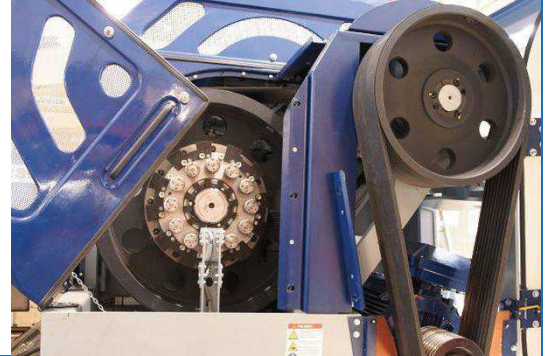


Technical data	PO2800-1
Dimension sheet	D528048a
Product documentation	1xPDF 1xHardcopy
Machine housing	P117
Colour	RAL 5003 RAL 7047 RAL 7016
Drive unit	2x132 kW
Safety clutch	2
Rotor speed	112 min
Cutting system	172RP
Scrapers	standard
Pusher system	hydraulic
Hopper/ Enclosed hopper with suction point	-
Ambient temperature	0° C up to +35° C
Voltage	400V ±5% / 50Hz
Network	TNC
Control cabinet	freestanding
Power control	Frequency converter
Hydraulic aggregate	freestanding
Colour	standard (LWN 129)
Control system	9" Touch HMI from Siemens
Substructure	standard
Central lubrication	mechanical
Tool box	standard
Screen unit	TBD

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Drive & chassis

- Belt drive with our tried-and-tested ABB asynchronous motor
- ABB frequency converter for variable speed control allowing you to shred material according to your needs
- Highly energy efficient thanks to flywheel energy storage
- Mechanical safety clutch
- Solidly built housing in accordance with corrosion protection class C2-M



Operation & handling

- Control panel fitted with a Siemens IP65 HMI 9" touch screen
- Incl. tool tray
- Includes documentation (pdf)
- Choice of preconfigured shredding programmes
- Easy support via remote maintenance
- Controlled feeding with our self-adjusting pusher
- Incl. toolbox and standard tools



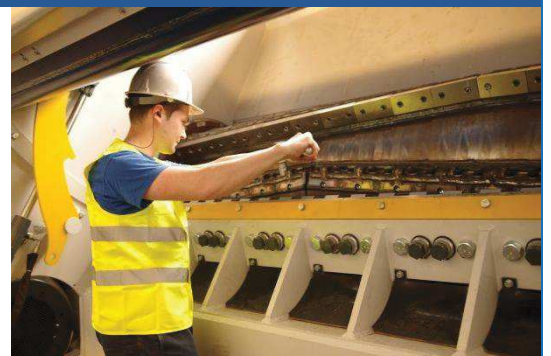
Cutting unit

- Fitted with our specially designed knives: 172RP for rotor, counter-knives and scraper
- Four-fold usable and easily replaceable
- Adjust the cutting gap even while the machine is in operation and get the same output quality every single time
- Plug & go screening unit with different mesh sizes



Service & maintenance

- Easy machine access, without maintenance platform
- Hydraulic door for maintenance and removal of foreign objects
- Integrated maintenance access point
- Swivel-mounted, hydraulically operated screen unit and scraper
- Central mechanical lubrication system
- Plug & go screen units can be individually replaced by hand



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V200039-2 Hopper

- Ideal for manual feeding (wheel loader, excavator,...)
- 3-sided steel sheet enclosure
- 1-sided open
- Incl. vibration decoupling to machine housing



V200019 Frequency converter cooling (dual-motor), operates up to +42 °C

- Ensures safe operation of frequency converters in rooms without air conditioning and dusty environments
- Extended operation range: from +35 up to +42 °C
- Incl. dust-tight enclosure for controls
- Incl. air/water heat exchanger
- Incl. closed-circuit water cooling unit (water supply: ¾")
- Incl. 4x5m cooling hoses and connecting kit



V200032 Belt conveyor

- Drive unit, bend unit, return unit
- Conveyor belt, incl. tappet
- Conveyor belt bottom cover, frame
- Gradient angle up to 32°
- Incl. E-drive 3 - 11kW (depends on configuration)



Over belt magnet MEQL 1201

- Ultimate magnetic force with low energy consumption
- Protection class of magnet IP55 acc. DIN 40050
- Magnet capacity 4,74 kW
- Magnet voltage 115 VDC
- Drive motor power 2,2 kW
- Voltage 3x400V/ 50 Hz
- Discharge speed 1,8 m/s
- Total weight 3000 kg
- Suspension height < 350 mm
- Inclusive rectifying unit IP55 acc. DIN40050
- For belt widths up to 1400 mm



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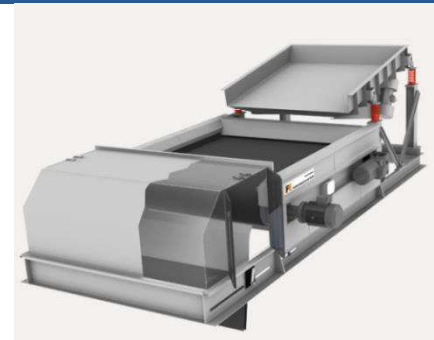
Vibrating chute UE 2400x2000

- Welded open design with transfer chute and unbalance motors
- Chute width 2.400 mm
- Chute length 2.000 mm
- Wear protection lining 4 mm stainless steel
- Upright position, inclination 10°
- Capacity 2x2,31 kW
- Drive 2 unbalance motors
- Drive position lateral bottom
- Weight 2.400 kg



NF-separator INP 400x2500

- Working width 2.500 mm
- Drum diameter 400 mm
- Axle distance 2.250 mm
- Belt drive 2,2 kW
- Rotor drive 15 kW
- Voltage 3x400 V / 60 Hz
- Total weight 4.000 kg



Services

Installation, cold start-up and training, warm start-up and test run, acceptance

- Installation of machine on the prepared industrial concrete floor
- Cold start-up and training incl. functional test
- Warm start-up and test run
- Test run according to the specified material in the offer
- Acceptance report



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Electrica - plant control system and cabling

- Electric plant equipment complete including components for plant electrics consisting of:
 - Control cabinet for conveyors, separators, magnets
 - Plant control system - planning and design
 - Software
 - Mobile operator panel
 - Remote maintenance
 - Electrical documentation – drawings/diagrams, spare parts list
- Installation material for complete plant - shredders and additional plant components (conveyors, magnets, separators) consisting of
 - Cables
 - Cable trays
 - Connection material
 - Bus terminal boxes
- Electrical installation works for complete plant including cable laying, mounting of cable trays, cable connection works, system-start-up
- Power and control wires
All wires and trays for power and control wires to connect the equipment. Wires may be mounted elevated or on the floor. Control interfaces and software to operate the system. MCC cabinets with switch gear to control all motors. Zero speed switches on all conveyors. E-stop rip lines on all conveyors that are at floor level.
Remote panel - Siemens
One touch screen panel for maintenance and trouble shooting. The line has three hook ups for the remote panels.

Projecting and documentation

- Planning, layout design and protecting works
- Operating and maintenance instructions according to EG Directive 2006/42/EC including technical documentation of the complete system.
- Documentation in English language; two (2) hardcopies, one (1) soft-file (CD-Rom).