

TECHNICAL DATASHEET

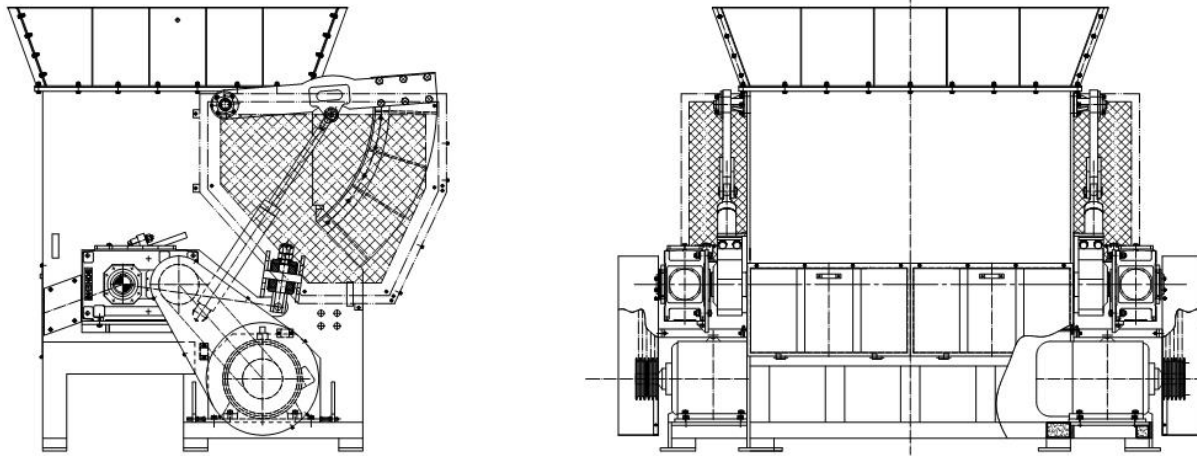
DZ2000 Heavy-Duty Swing-Arm Single-Shaft Shredder

Project configuration for bituminous membrane shredding

Product overview

The DZ2000 is a heavy-duty single-shaft shredder designed for difficult, bulky and solid materials. Typical applications include plastics, rubber, fibres, paper, wood, electrical components, cables, sprues, PET bottles, cardboard, circuit boards and plastic drums. Machine selection and final configuration depend on feed size, material characteristics and required throughput.

For this project, the machine is configured for SBS/APP bituminous membrane with polyester or fibreglass reinforcement, including rolls, sheets, long off-cuts and pre-shredded pieces.



General arrangement drawing — indicative, not for construction

DZ2000 Technical Specifications

Parameter	DZ2000
Overall length	4,620 mm
Overall width	2,980 mm
Overall height	2,750 mm
Hydraulic cylinder stroke	550 mm
Rotor diameter	Ø480 mm
Rotor speed	83 rpm
Standard screen aperture	60 mm
Rotor knives	156 pcs, SKD-11
Counter knives	4 + 4 pcs
Main drive power	90 + 90 kW
Hydraulic power	7.5 kW
Approximate machine weight	12,500 kg

Project-Specific Configuration

- Dual-motor, dual-gearbox drive arrangement for high torque and stable operation.
- Special anti-wrapping rotor and cutting configuration included.
- Standard internal water cooling for the rotor shaft, with connection interfaces.
- Infeed water-mist nozzles and interfaces included; the external water source is supplied by the customer.
- Schneider electrical components and Siemens PLC, with overload monitoring, automatic reverse and restart logic.

Design and Operating Features

Hydraulic feeding — Independent hydraulic swing-arm feeding system with robust construction and stable operation.

High-torque drive — The rotor is driven through gear reducers for low-speed, high-torque operation. The gearbox and vibration-isolation arrangement support safe and stable running.

Automatic control — Siemens PLC control provides forward/reverse operation, overload response and automatic stop/restart logic.

Cutting system — SKD-11 rotor knives are installed in a V arrangement for even cutting, lower energy demand and reduced noise. Each rotor knife has four usable cutting edges and can be rotated by 90° after wear. Nominal knife hardness: HRC 58.

Maintainability — Rotor knives are bolted and removable for cleaning, inspection and maintenance. Heavy-duty bearings are used for high load capacity and long service life.

Electrical brands — Project electrical components: Schneider; PLC: Siemens. Final motor brand and detailed electrical list are subject to the approved technical annex.

Cooling interfaces — Rotor-shaft water-cooling interfaces are provided. The external circulating-water unit is excluded from the supply scope.



Reference machine photograph