

TECHNICAL BROCHURE · SPARE PARTS

Cage bars and screw sets

Wear-resistant parts for screw presses with hardfaced working surfaces: longer life and stable oil yield.

up to 3×

LONGER SURFACE LIFE*

4–5 mm

EDGE HARDFACING

up to 20 %

LARGER DRAINAGE AREA

D.ENERGY cage bars

- A 4–5 mm hardfaced working edge gives high wear resistance and stable geometry.
- A constant drainage gap maintains optimal pressure in the press chamber.
- Thinner bars increase the drainage area by up to 20 %.
- Drainage washers remove dead zones and improve oil outflow.
- High manufacturing accuracy ensures quick assembly and correct fit.

D.ENERGY screw sets

Developed using mathematical modelling for the maximum degree of pressing.

- multi-stage compression of the product;
- optimally selected compression washers;
- integrated loosening elements for more effective material preparation.

This provides stable pressure, higher oil yield and more efficient press operation.

Why hardfacing pays off

A standard cage bar is made of a single steel: when the working surface wears, the whole bar has to be replaced. On D.ENERGY bars a wear-resistant hardfacing is applied to the working surface, while the body stays in a base metal that carries load well.

- **Up to 3 times longer service life** of the working surface compared with standard bars, depending on raw material and press operating mode.
- **Fewer stops for replacement** and fewer teardowns of the press cage.
- **Lower total cost of ownership:** 2–3 times fewer sets are used over the same period.

* Manufacturer data; the result depends on raw material and operating mode.

What to specify when ordering

Press

press model and manufacturer, serial number

Part	cage bar, screw shaft, compression washers, loosening elements
Raw material	sunflower / rapeseed / other, moisture
Documents	drawing or a worn part sample, photo of the assembly

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This material is for information only. Final configuration and parameters are defined by the technical specification and agreed with D.ENERGY engineers. Data as of 08.10.2026.