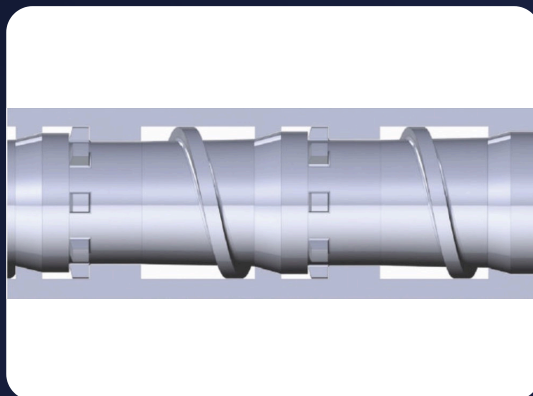


TECHNICAL BROCHURE · COMPONENTS AND SPARE PARTS

Cage bars and screw sets

Design and manufacture of parts to modernize any press — raising capacity and extending service life 2.5–3 times.

**2.5–3×**

longer press service life

up to +40%

capacity gain after upgrade

CNC

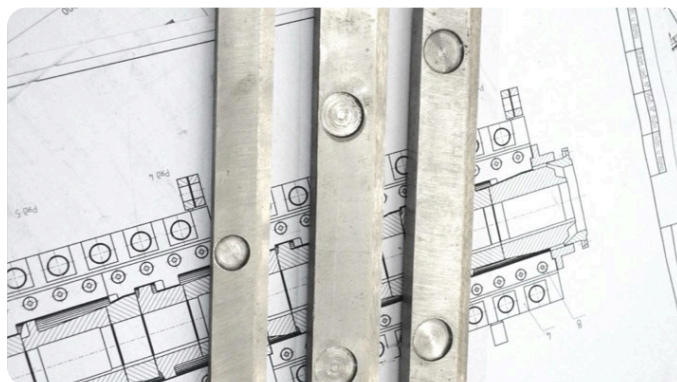
machine park and automated hardfacing

Our innovative solutions let us produce parts and modernize any press as a complete package — from calculation to manufacture.

Cage bars

The innovative solutions and advantages of D.ENERGY cage bars eliminate the shortcomings of typical bars. This increases oil outflow, reduces residual oil content and the amount of fines, and keeps operating characteristics stable.

- Higher oil yield
- Lower residual oil content in the cake
- Less fines in the oil
- Stable operating characteristics



Screw set

The key features of our screw set: multi-stage compression of the product through compression washers, and installation of rippers.

Working together, these parts improve the breakdown of the structure of the raw material being processed. In addition, the high pressure on the product created by the screw set ensures a high degree of pressing. We have built a mathematical model of the pressing process that accounts for rheology and the level of compression at each stage.



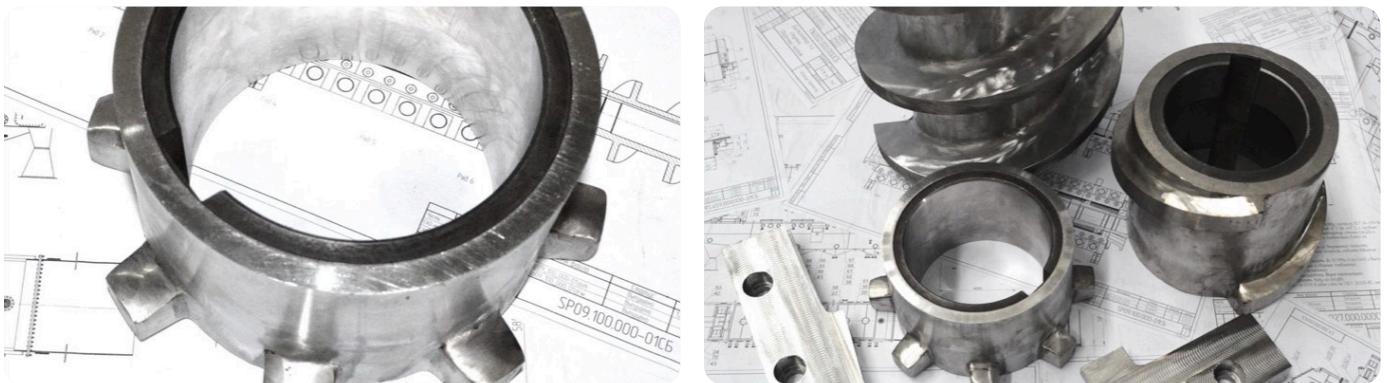
Advantages of the D.ENERGY screw set

The next important solution that sets us apart from other manufacturers is the wear-resistant hardfacing of the screw set's working surfaces. Using a special technology we developed, the working surfaces are built up on an automated complex and then the parts are ground to size.

Features of the hardfacing material

- Resistance to abrasive wear and to abrasion by fine particles
- Low coefficient of friction
- Long service life with the parts keeping their geometric dimensions

These solutions let us calculate and manufacture high-quality parts to modernize any press — raising its capacity, service life and pressing efficiency and keeping the parts' geometry for a long time.



Laboratory quality control

Our laboratory equipment lets us guarantee the highest quality of the products we ship:

- ZEISS CONTURA portal coordinate measuring machine
- Fenix 300U stationary hardness tester

- Sonowall ultrasonic thickness gauge with flaw-detector option
- Metal and alloy analyzer (spectrometer)
- Digital microscope
- Portable hardness tester and laboratory measuring instruments

Need a calculation or a quotation?

Send us your requirements — we will select the model for your raw material and capacity.

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