

TECHNICAL BROCHURE · SCREW PRESSES

SP series screw presses

Oil presses for mechanical extraction of oil from sunflower, rapeseed and other oilseeds: primary and secondary pressing.

7

MODELS IN RANGE

50–1000

T/DAY ON SUNFLOWER

Purpose

A screw press (oil press) is equipment for mechanical extraction of oil from sunflower, rapeseed and other oilseeds.

Primary and secondary pressing

Primary pressing

A single mechanical pressing without high temperatures or chemical reagents. It preserves nutrients, antioxidants and natural aroma to the maximum; the product is considered top quality (extra virgin, cold pressed).

Secondary pressing

Re-processing of cake or residues after the first stage. Extra heating may be used to lower viscosity. The product has lower biological value and usually needs further purification (refining).

How to choose a press

1

Capacity

Choose by the daily amount of sunflower seed (each model range is in the table), taking the operating mode into account.

2

Pressing level

For the highest oil quality use primary pressing; to re-process cake use secondary. This affects the line layout and later processing.

3

Raw material

Sunflower, rapeseed and other oilseeds; seed properties (moisture, oil content) are confirmed during selection.

4

Press cage

Press cage diameter and internal volume affect capacity and installation; cage bars and screw sets are wear parts of the press.

5

Next section

If maximum oil yield is required, the press works together with extraction: pre-pressing first, then the extractor.

6

Seed preparation

Before pressing, seed goes through moist-heat treatment in RS series roasters, which are selected together with the press.

Important

Indicative selection only. The final model is defined by the technical specification together with D.ENERGY engineers.

SP model parameters

Model	Capacity (sunflower seed), t/day	Internal volume, m³	Press cage diameter, mm
SP.100	50–75	0.06	200
SP.150	100–150	0.09	250
SP.200	150–200	0.15	280
SP.300	250–350	0.17	300
SP.600	400–600	0.26	350
SP.800	650–800	0.41	400
SP.1000	850–1000	0.5	420

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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.