Type of technology	**Cold pressing – two-level**	**CP2**

Description

Oilseeds are dosed into the press of the first-stage (pre-press) without any pre-treatment. It is possible to add the option hulling and removing of hulls for oilseeds containing bigger hulls (sunflower, soya). A part of oil is pressed away and pressing cakes from the first-stage are carried by an open conveyor (so that the excess moisture is taken away) into presses of the second stage (final press). Thanks to the fact that cells are disrupted in the first-level, frictional heat in the first-level and suitable structure, all these make the production more effective and it reaches bigger yield.

Use

The use is for all kinds of oilseeds, especially those with higher oil content in the seed (we always recommend two-stage pressing if the oiliness is more than 35%).
It is not suitable for soya for two reasons - its low content of oil and absence of heat treatment in this process, which would soya need when used as feed.

Advantages
- Good yield of oil
- Pressing caked suitable for feed industry
- Temperature of oil does not exceed 55°C, there is no need for oil cooling
- Temperature of pressing cakes reaches to 60-80°C, but mostly it can be cooled down in the transport ways to the storage - There is no need to buy a cooler of pressing cakes.
- Simple technology, small construction dimensions, low investment costs of the building
- No need to build a source of steam
- Higher tolerance of the technology to fluctuations of moisture and temperature of oilseeds.

Disadvantages

- Higher electricity consumption compared to one-level pressing.
- Pressing cakes are not heat treated (output temperature about 60-80°C)

Recommendation

It is an ideal solution in the field of cold pressing of oilseeds with oil content more than 30%
It is not suitable for soya.

Parametres for rapeseed or sunflower

Standard Solution Farmet	Residua fat %	Power from-to (from = 1 machine set)
CP2x-(FL200+FL200)	10 - 12	6 - 30 tons of seeds/day
CP2-x(FL200+FS1010)	10 - 12	20 – 140 tons of seeds/day
CP2x-(FS1010+FS1010)	10 - 12	40 – 300 tons of seeds /day
CP2x-FS4015+xFS1010)	10 - 12	150 – 1 000 tons of seeds /day