

The effective technology

Farmet[®]

MODULE OF A COMPACT PRESSING SHOP



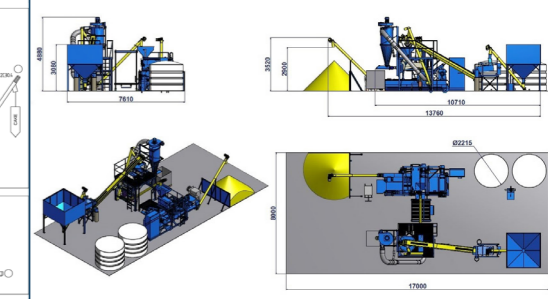
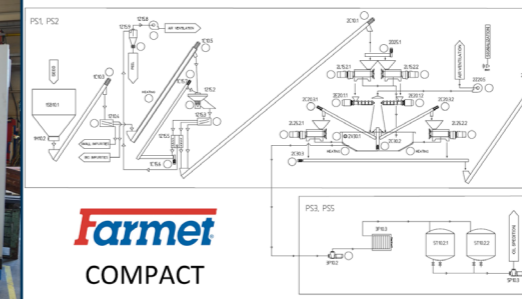
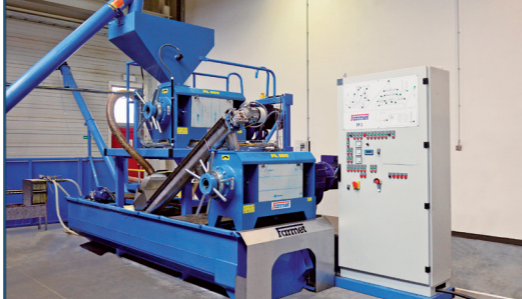
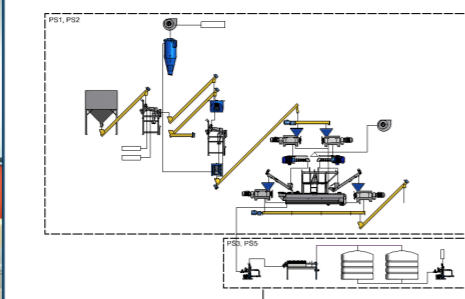
CP1 - ONE-LEVEL COLD PRESSING

CP2 - TWO-LEVEL COLD PRESSING

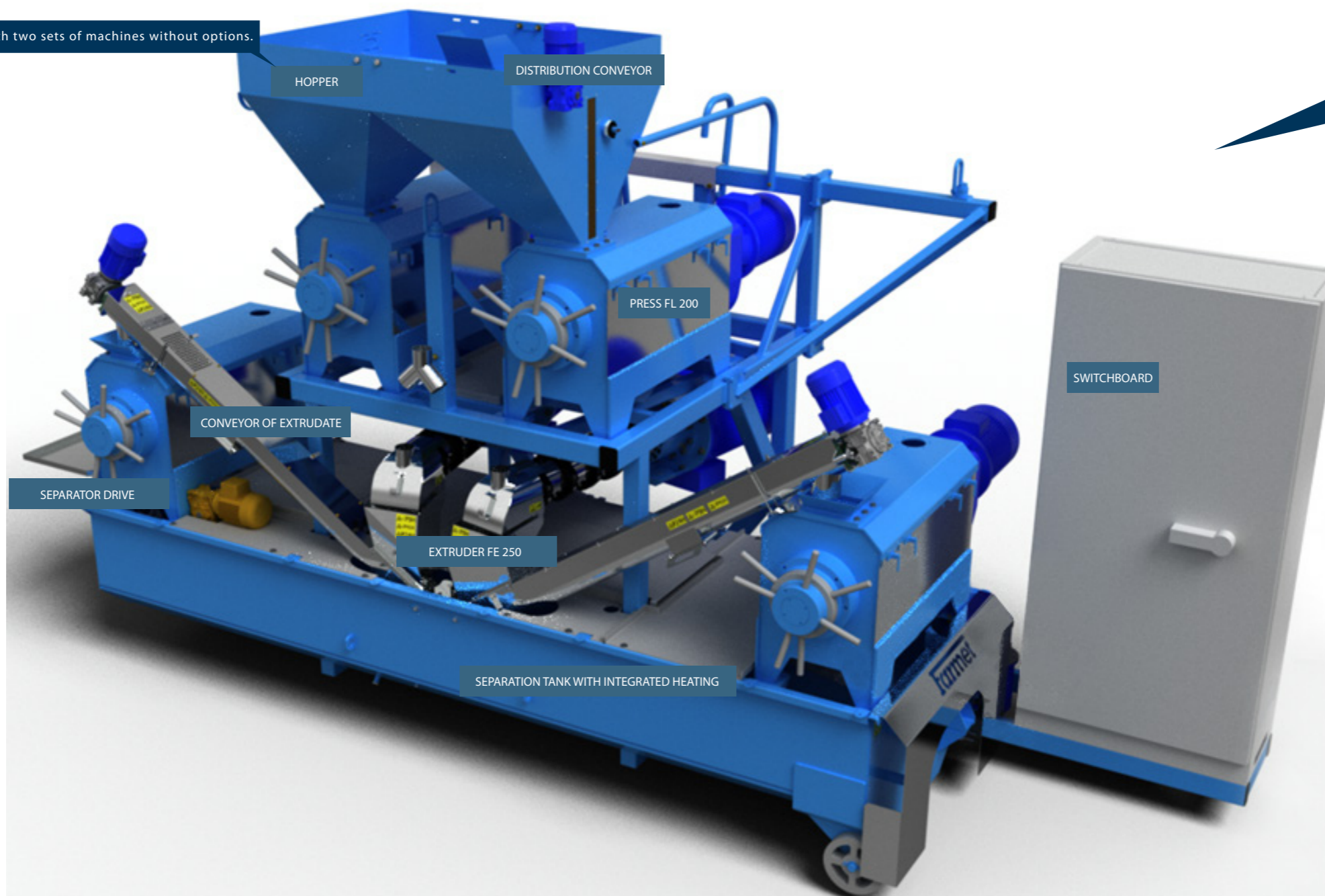
EP1 - ONE-LEVEL PRESSING WITH EXTRUSION

EP2 - TWO-LEVEL PRESSING WITH EXTRUSION

OIL & FEED TECH



Module of the Compact pressing shop EP2 fitted with two sets of machines without options.



VARIANTS OF MODULAR PRESSING SHOP COMPACT:

CP1 - ONE-LEVEL COLD PRESSING

This technology employs the FL 200 in the “full-press” configuration. The modular pressing line can be fitted with one to four FL 200 presses.

CP2 - TWO-LEVEL COLD PRESSING

The press FL 200 is used as a pre-press. The cake is then conveyed through the inclined conveyor into the FL 200 final press.

EP1 - ONE-LEVEL PRESSING WITH EXTRUSION

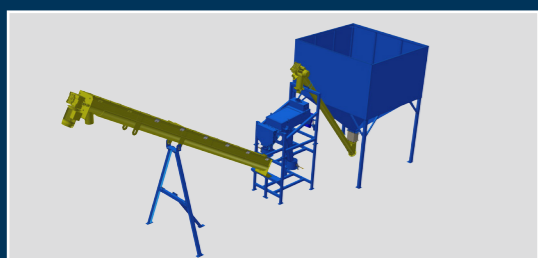
The raw material is led into the hopper and passes into the extruder FE 250, where the process of material extrusion takes place. Afterwards, the material continues through the inclined conveyor into the FL 200 final press. This technology is designated mainly for soybeans.

EP2 - TWO-LEVEL PRESSING WITH EXTRUSION

The press FL 200 is used as a pre-press. The cake from the pre-press is falling into a hopper and continues into the extruder FE 250, where the process of extrusion takes place (mechanical kneading, short-term heating to high temperature under high pressure, with consequent expansion). The extruded material continues through the inclined conveyor to the FL 200 final press.

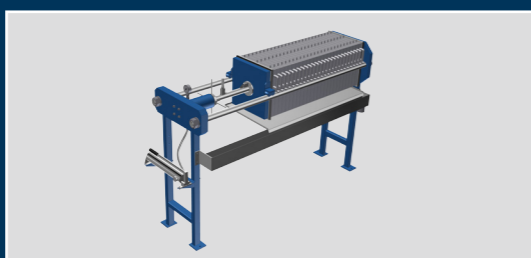


STANDARD DELIVERY OF THE MODULE OF A COMPACT PRESSING SHOP INCLUDES:



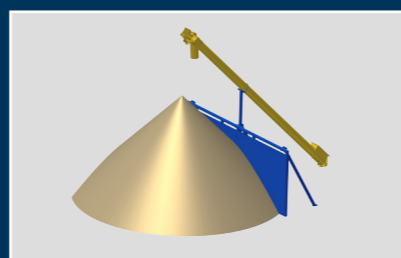
Seed preparation

Oilseed comes from the intermediate bunker through the magnetic separator into the inclined dosing conveyor controlled via a frequency converter. Further the seed continues into the cleaning section. Cleaned oilseed then passes through the temperature stabilization (in winter period it is heated to temperature of 15-20 °C there) and continues into the pre-press hopper. For sunflower seed we recommend optional dehulling and hull separation.



Oil filtration - plate filter

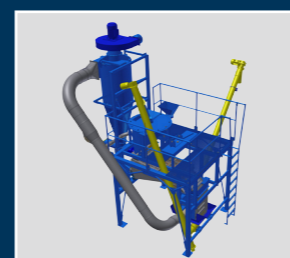
For all technologies, oil expelled from the presses FL 200 is retained in the sedimentation tank, which forms an integral part of the module. The tank is equipped with automatic removal of solids, which are consequently returned for re-pressing into the final press. Oil is consequently pumped into a manually-cleaned plate filter; filtered oil then continues into oil storage tanks (see OPTIONS).



Pressing cake storage

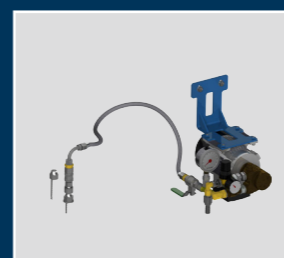
Pressing cake is conveyed via the tube-type screw conveyor out of the module of the pressing line, beyond the partition structure, which forms the pressing cake storage.

OPTIONAL DELIVERY OF THE MODULE OF A COMPACT PRESSING SHOP INCLUDES:



Dehulling and hull separation

This option allows separation of seed kernels from hulls, while part of the hulls is removed and leaves as a by-product. Dehulling is recommended for processing of sunflower seeds or soybeans.



Dosing of water into the extruder (suitable for EP1, EP2)

This option includes a frequency-controlled dosing pump with an injection nozzle for dosing of water into the entry section of the extruder.



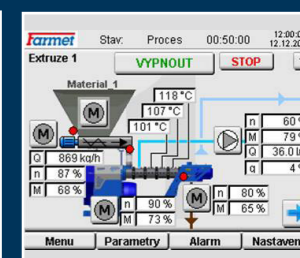
Storage of filtered oil

We recommend using two tanks of capacity 1 or 7 m³ each.



Dispensing pump

The dispensing pump is intended for pumping of filtered oil from the storage tanks into the customer's follow-up pipelines, transport packages or a tank truck. The option includes a double pipeline with valves and enables comfortable oil dispensing into PET bottles or containers.

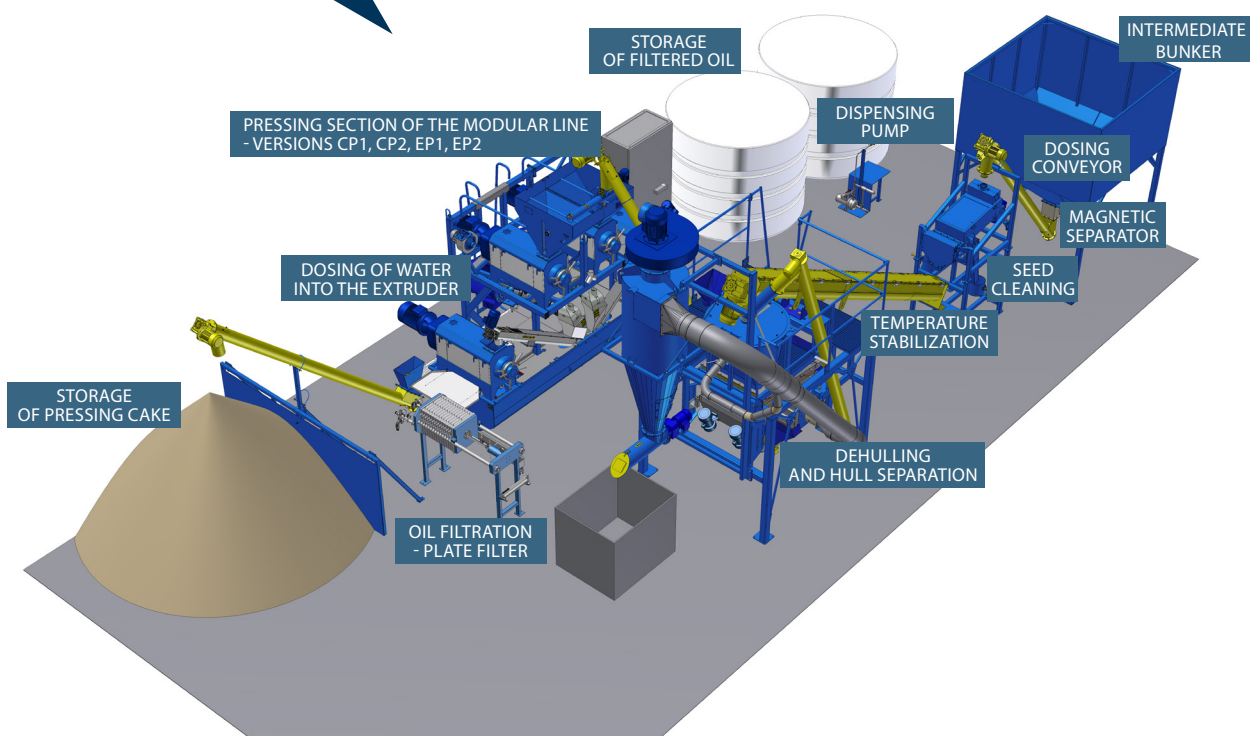


Other options

- separated processing of oils
- active breaker at the output of the extruder
- granulation of hulls
- conversion kit for soya pressing
- remote access
- visualization



Dispositional scheme – modular pressing shop Compact, fitted with two sets of machines, incl. options.



ADVANTAGES OF MODULAR PRESSING SHOP COMPACT

- compact solution, pre-assembled, electrically connected, simple to operate and service
- full technological equipment incl. seed preparation, oil filtration, oil and pressing cake storage
- universal equipment for wide range of oilseeds (rapeseed, sunflower seed, soybeans, etc.), easily extendable, with a number of options
- highly efficient, oil yield comparable with hot pressing
- high-quality filtered oil, extruded pressing cake of high nutrition value
- low energy demand, simple integrated oil heater

PARAMETERS	Compact CP1				Compact CP2		Compact EP1		Compact EP2	
	CP1-1	CP1-2	CP1-3	CP1-4	CP2-1	CP2-2	EP1-1	EP1-2	EP2-1	EP2-2
Throughput in oilseeds [kg/hr]	180*	360*	540*	720*	300*	600*	250**	500**	350*	700*
Input without/with options [kW]	40/72	56/88	72/103	87/119	55/87	87/118	63/95	101/134	78/110	131/164
Length without/with options [m]	11,5/19									
Width without/with options [m]	13/9,5									
Height without/with options [m]	4,5/5,3									
Installation area without/with options [m²]	150/180									

* Throughput in rapeseed, sunflower seed (For sunflower seed, the throughput is shown in case of using the option of dehulling and hull separation. Without this option, the throughput is lower by 10-15 %.)

** Throughput in soybeans (the EP1 technology is intended exclusively for soybeans processing). It applies when using option crushing of soybeans. Without this option, performance is reduced by 10 %.

Input is shown without the electrically heated conveyor (11kW).

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