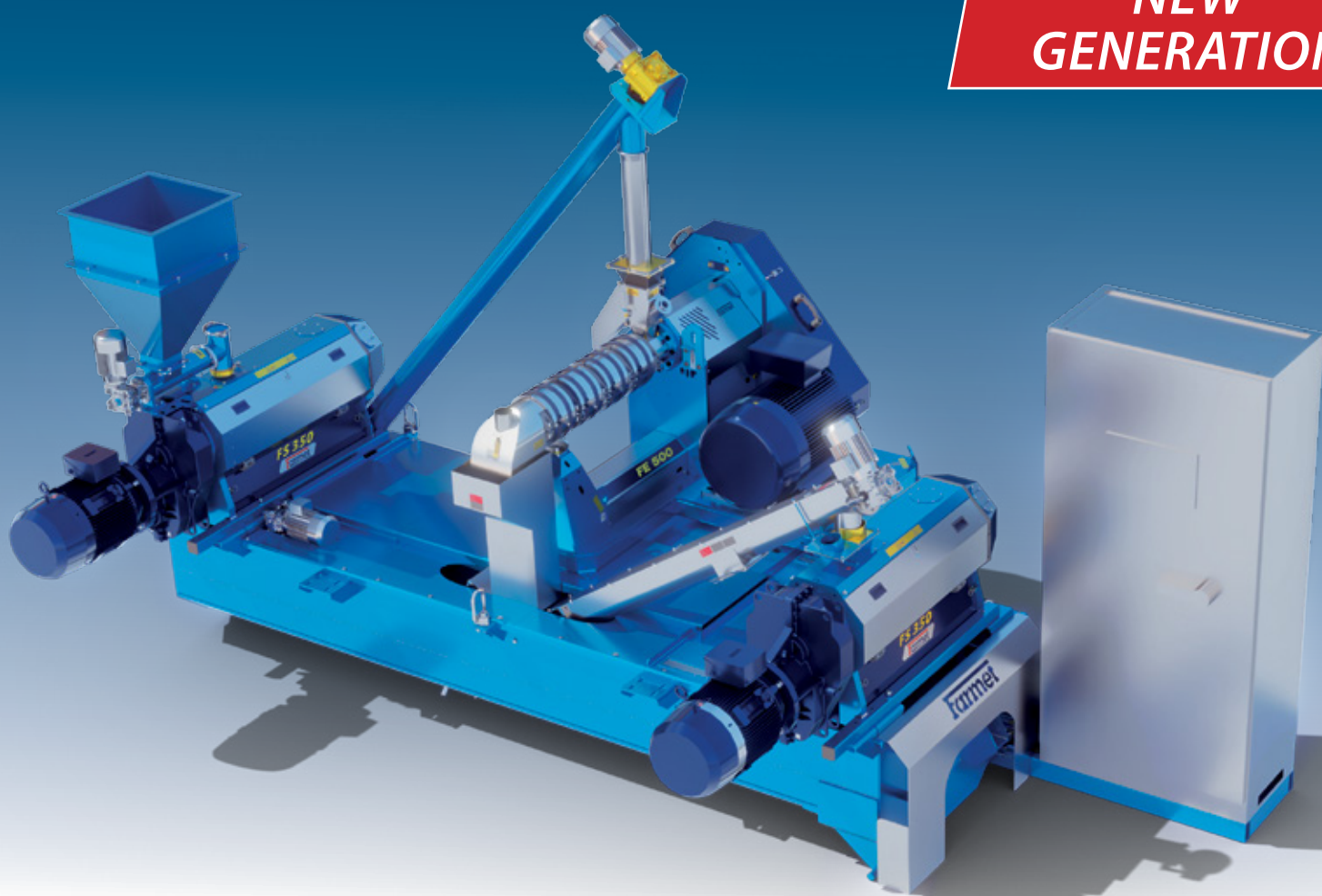


The effective technology and complex services

Farmet[®]

MODULAR PRESSING SHOP COMPACT

**NEW
GENERATION**



OIL & FEED TECH



**HEXANE FREE
TECHNOLOGIES**[®]

MODULAR PRESSING SHOP COMPACT

**NEW
GENERATION**

CAKE STORAGE

Pressing cake from the final press is carried out by a screw conveyor out of the pressing shop module, behind the supporting structure, i.e. to the cake storage.

OIL FILTRATION

Oil from the separation vessel is forwarded by means of the integrated pump into the plate filter with manual regeneration and further to the oil storage (see OPTIONS).

OILSEED PRETREATMENT

Oilseed is passing from the intermediate bin through the magnetic separator into the screw-type dosing conveyer, which is controlled via the frequency converter. Then seed continues to the cleaning section. Cleaned seed is then passing through thermal stabilization to the pre-press hopper.

SEPARATION VESSEL WITH INTEGRATED HEATING

The separation vessel is a collecting tank for oil flowing from the presses, which are located above the vessel. Oil is then pumped into filtration.

VARIANTS OF THE MODULAR PRESSING SHOP

CP1 – one level cold pressing

Pretreated oilseed from the intermediary bin is transported to the full press FS 350. Oil is led to the separation vessel and pressing cake is transported to the storage.

CP2 – two level cold pressing

Pretreated oilseed is first pre-pressed on press FS 350, the pressing cake is further forwarded for final pressing on final press FS 350.

EP1 – one level extrusion pressing

Pretreated oilseed is processed in the extruder FE 500, subsequently it is pressed on the press FS 350. This technology is intended particularly for soybeans

EP2 – two level extrusion pressing

Pretreated oilseed is first pre-pressed on press FS 350. The pressing cake is then processed in the extruder FE 500, subsequently it is pressed on the press FS 350.

ELECTRICAL INSTALLATION

Control system CLEVER:

The control system is based on a programmable logic controller (PLC) and it is controlled via a touch panel. The system ensures precise controlling of the line. No push-buttons on the switchbox are used, the technology is controlled from the touch panel only. The control system includes regulation, data logging, and provides variability for future expansion of the line.

FUNCTION OF REMOTE ACCESS (OPTION):

This OPTION can be used in conjunction with the automation level CLEVER. When connected to the internet it enables remote supervision and controlling of the technology. This function can be used for the purposes of service support, too.



LIST OF SELECTED OPTIONS FOR COMPACT:

- Dehulling and separation of hulls
- Water dosing into the extruder
- Storage of filtered oil
- Dispensing pump of oil
- Granulation of hulls
- Active breaker at the output of the extruder
- Conversion kit for soya pressing
- Remote access



SCREW PRESS FOR OILSEED PROCESSING FS 350



ADVANTAGES OF MODULAR PRESSING SHOP COMPACT:

- A compact solution, pre-assembled incl. full wiring, simple in operation and servicing
- A complex technological equipment incl. oilseed pretreatment, oil filtration, storage of oil and cake
- Universal technology for a wide range of oilseeds (rapeseed, sunflower, soybeans, etc.), easily expandable, with a number of OPTIONS available
- High pressing efficiency with oil yield as in hot pressing
- High-quality filtered oil, extruded pressing cake with ideal nutrition value
- Low energy demand, simple integrated oil heating

PARAMETERS	Compact CP1		Compact CP2	Compact EP2		Compact EP1
	CP1 - 1	CP1 - 2	CP2 - 1	EP2 - 1	EP2 - 1 light	EP1 - 1
Capacity of the set for rapeseed/hulled sunflower [kg/h]	350*	700*	700*	700*	350*	-
Capacity of the set for soya [kg/h]	-	-	-	500**	250**	500**
Installed power, for 1 set, no OPTIONS [kW]	55	76	89	145	97	110
Height / including the option of dehulling [m]	4,5 / 5,3					
Installation area without options/incl. dehulling [sq.m]	110 / 135					

* Throughput is shown as for rapeseed or sunflower (for sunflower, it is valid when dehulling and hull separation is used). When used for sunflower without dehulling, the throughput is lower by 10-15 %.

** Throughput is shown as for soybeans (the technology EP1 is designated namely for soybeans). Valid when used with the OPTION of soybean crushing. When used without this OPTION, the throughput is lower by 10 %.