

MSE SEMI-MOBILE FILTER PRESS PLANT

SMFP 400 - 1500

Especially in rapidly changing markets, it is all the more important to rely on a partner with many years of market and expert knowledge. With semi-mobile container plants - similar to mobile filter presses - we support you in defying the rapid changes on the market in order not to jeopardise your core business. Semi-mobile filter presses can be used flexibly and are also quickly ready for operation. Especially for temporary projects, the required container plant can be made available in an uncomplicated manner. Wherever construction progress requires it. Furthermore, the semi-mobile filter press is fully equipped and immediately ready for operation after connecting to sludge, water and power supply. MSE Filterpressen® plans and manufactures the plants for individual customer requirements. In this way, the best possible result can be achieved for every task.

TECHNOLOGY OF SEMI-MOBILE FILTER PRESS PLANTS

The semi-mobile filter press plant from MSE is available in various designs. Chamber filter presses or membrane filter presses (with 16 bar or 25 bar operating pressure) are optionally available and depending on the application, the appropriate feed pump. The sizes of the semi-mobile filter presses are available up to a maximum size of 1500. This corresponds to about 100 chambers, i.e. about three cubic meters of chamber volume. The conditioning of the sludge is mainly carried out with polyelectrolytic flocculants (PE) analogue to the mobile filter press. Further methods are lime/iron conditioning and dosing of solid filter aids. The plants are therefore equipped with suction and pressure-side inline mixers. The PLC plant controls the conditioning parameters in proportion to pressure and/or volume.

All filter press plants are equipped with the necessary equipment such as sludge feed, polymer preparation plant, screw conveyor for cake transport, etc. One operator is sufficient to operate a semi-mobile filter press plant. However, the operator's tasks are limited to monitoring the plant and unloading the filter press after each batch.



BENEFITS OF MSE SEMI-MOBILE FILTER PRESS PLANTS

- Extraordinary versatility through expansion modules and automation options
- Adaptation to the fulfillment of various process requirements as well as specific customer requirements (for example, choice of container number, degree of automation according to performance requirements)
- Compact and robust design for trouble-free and reliable operation
- Simple and economical filtration through maximum flexibility and mobility
- Sludge conditioning by means of the suction and pressure side inline mixers equipped in the systems
- Complete filtration system in container construction for economical and flexible operation
- Steel and concrete construction is eliminated, thus massive cost savings
- Stainless steel execution on request

Size	Pressure max.(bar)	Max. chamber vol.	Filter cake thickness	FilterCloth Acidification	FilterCake blow drying	FilterCloth washing	FilterCake washing	Plate shifter	Core blowing/ core rinsing	Spreader cloth	Vibrating device I	Vibrating device II	Membrane technology	Splash guard	Corrosion protection
SMFP 400	30	148	15-50mm	+	+	-	-	-	+	+	+	+	-	X	+
SMFP 470	30	208	15-50mm	+	+	+	+	+	+	+	+	+	+	X	+
SMFP 500	30	295		+	+	+	+	+	+	+	+	+	+	X	+
SMFP 630	30	576	15-50mm	+	+	+	+	+	+	+	+	+	+	X	+
SMFP 800	30	1288	15-50mm	+	+	+	+	+	+	+	+	+	+	X	+
SMFP 1000	30	2530	15-50mm	+	+	+	+	X	+	+	+	+	+	X	+
SMFP 1200	30	4104	15-50mm	+	+	+	+	X	+	+	+	+	+	X	+
SMFP 1500	30	9594	15-50mm	+	+	+	+	X	+	+	+	+	+	X	+