Ratec GmbH, 68766 Hockenheim, Germany

Magnetic formwork systems for the precast concrete part industry

The Ratec company has developed an innovative formwork system on the basis of magnets. The system, which bears the name Ratec Standard Automatic Modular Flex, in short SAS-MF, offers maximum flexibility in formwork construction by means of simple steel attachments and wooden modules.

The formwork system possesses special details that guarantee simple separation of the SAS-MF formwork from the concrete element. The formwork is designed such that it can also be cleaned automatically. The SAS-MF base element with the proven Ratec automatic system is manufactured the same for all elements to be produced – but in different lengths. The base element serves as a receptacle for mounting modules for both transverse and longitudinal juts. Using simple rapid connectors, these add-on modules can be fitted with different formwork shell types such as wood, smooth steel, profile steel with tongue and groove, steel or wood with shear key, or steel or wire ropes in the grouted joint.

Simple positioning of the formwork on the steel table is supported by the integrated high performance magnets. Easy activation and deactivation of the magnets enables efficient operation, in particular in the case of different types of formwork shell. In formwork lengths from 320 to 8000 mm and with stepless height adjustment from 150 to 300 mm, the SAS-MF

SAS-MF with wooden and steel add-on modules for longitudinal and transverse formwork

Example application of the PSV system for a window recess

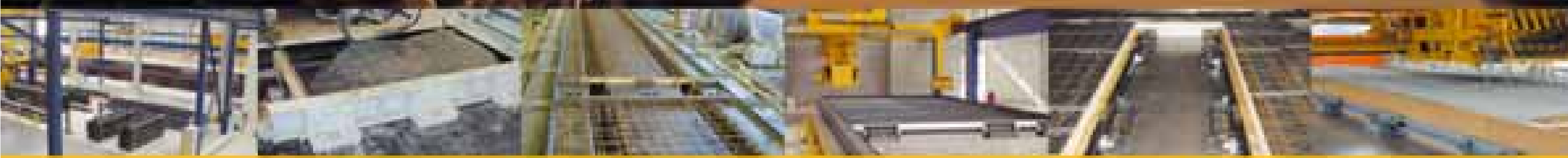
base element is particularly suitable for the production of solid walls, sandwich walls, ceiling elements and stair landings in precast concrete part works.

The proven PSV system complements the SAS-MF system ideally. The PSV system has been used successfully for many years in the precast concrete part industry worldwide. The PSV telescopic adaptor system covers all areas of formwork construction such as transverse and longitudinal juts, as well as window and door recesses. Thanks to the modular PSV system, casing and stripping by hand is easy. A formwork height of 100 to 400 mm is thereby attained. In combination with C-profiles, the PSV system can be put to use in arbitrary lengths from 550 mm. The PSV system enormously simplifies shuttering without a crane. The combination of steel basic formwork (SAS-MF, PSV) and wooden shell allows considerable amounts of formwork timber to be saved. Since the formwork panels are screwed from behind, filling of the visible surface is no longer necessary.

Ratec offer qualified advice for the individual adaptation of all formwork and fastening solutions in the precast works. Many of the developments elaborated here for the optimisation of production processes in precast concrete part works were elaborated in cooperation with the respective clients and tailored to the respective requirements.

Further information:

RATEC GmbH
Karlsruher Straße 32
68766 Hockenheim, GERMANY
T +49 6205 940729
F +49 6205 940730
info@ratec.org
www.ratec.org



...spreads a better range of products.

RATEC is No. 1 in the development of magnetic forms and accessories. Our products enjoy success around the world, lowering formwork costs and improving production quality.

More information:
+49 6205-9407-29 Europe
+1 727-363-7732 North America

RATEC

Meet the better ideas!

RATEC GmbH, Karlsruher Str. 32, 68766 Hockenheim/Germany, Phone +49 6205-9407-29, info@ratec.org
RATEC LLC, 250 Julia Circle N., St. Petersburg, FL 33706, Toll-Free: (877) 33-RATEC, infous@ratec.org
www.ratec.org