

EHV-C-PP EHV-C-PP-BS



The series C-PP-01

is the universal usable product series for the manufacturing of EPP particle foams. Due to modern technological orientation, this series set standard in the manufacturing of EPP.

The series C-PP-BS

is a development, which makes allowance for the optimized inserting and deloading of moulding parts into the production mould, because of a folding mould-half.

Moulding machine type EHV-C-PP

Service description:

The moulding machine of the series C-PP-01 set international standard for the technology for the manufacturing of EPP, because of its steadiness, its flexibility in the application, its energy saving by using modern technology as well as the possibility for the connection to the following handling systems.

The requirement for a future-proof investment is given, due to the consequently technological enhancements, among others due to its construction for the optimizing of the operative material flow.



The machine series is characterized by the following:

■ Solid machine construction

The long life steel construction is achieved by hot galvanization with afterwards cover-lacquering.

■ Latest communication interface between machine & man

The continuously enhanced machine control supports the operator by using modern communication platforms. With this, the machine control, that is orientated on the manufacturing process, is controllable and guarantees an optimized use of the machine. The integrated result management and the maintenance intervals support the operator. Other supporting tools, such as Teleservice, are realized by the possibility to integrate the machine to networks.

■ Lower manufacturing costs at the mould production

By using the latest regulation technologies and the processed know how, a highest product quality with resource sparing energy use are realized on Erlenbach moulding machines.

■ Erlenbach quick-mould change system

By the Erlenbach quick-mould change system that has been approved for more than 20 years a highest-possible availability of the machine, with a simultaneous optimizing of the delivery disposition of the plant operator is guaranteed even at small sizes in the mould production.

■ Mould system

Due to the system availability of the Erlenbach moulding machines an investment in new mould technologies is guaranteed. The already existing moulds can still be used on the machines. The possibility of mould adapting of other machines is realized by the adapter systems, which also offer a biggest flexibility at the machine operator.

■ Individual handling technique

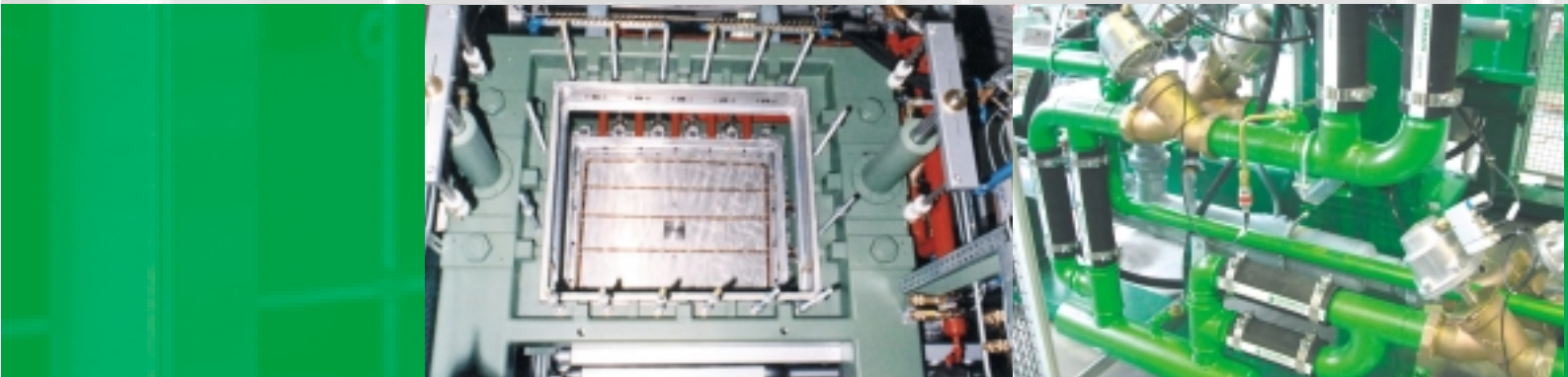
The economical success in the mould production is supported by the applied handling systems.

■ Material flow concept

By clear separating the material flows into „incoming material flows“ for the mould production and „outgoing material flows“ in the form of finished products, the condition for the optimizing is given. By placing an additional platform unit, this concept is consequently completed.

■ Scalability of the machine

The complete machine can be adjusted to the requirements of the moulding part and of the customer within shortest time, because of the modular machine construction. So, in each special application, the optimum machine size can be realized.



Steam chamber system

The steam chamber of the machine series C-PP-01 is made of steel profiles. Those guarantee a high long life.

Optimized mould change

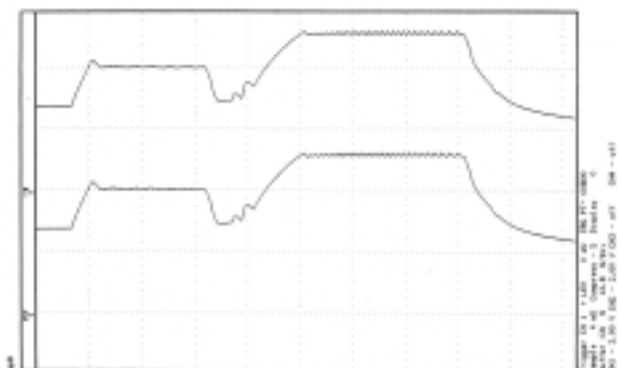
By the Erlenbach mould change system the machine's standstill time is reduced to a necessary minimum. The prepared production mould will be transported to the machine, on a clamp frame, which is placed on the platform unit of the backside of the machine. There the mould change can be made within a few minutes.

Processed Know How

Because of the processed enhancement, the machines are optimal adjusted on the external conditions. Operating pressures of up to 5 bars can be reached. On request, other operating pressures are also possible.

Latest regulation technology

All relevant media, which are needed for the manufacturing process, are regulated and controlled by using the latest regulation technology. Therefore a highest product quality at a simultaneous low energy use and short process time is guaranteed.





Pressure filling system

According to the need and the use, pressure fillers for 30, 60, 100, 150 and 200-litre volume in different quantities at the machines are possible. (Special sizes on demand). The pressure-regulated filling system of the Erlenbach machines ensures homogeneously filled moulding parts and is the starting point of the required moulding part quality. At the general filling process, the filling container will be loaded with pressure air before the process step „filling“. At the filling procedure a pressure difference between the container and mould can be regulated. The adjusted co-operation of the filling container pressure and the steam chamber pressure guarantees an optimum filling of the mould cavity.

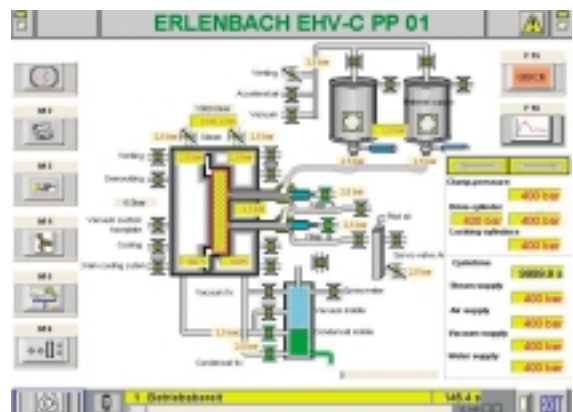
Hydraulic drive concept

The hydraulic drive concept with a form-fit multipoint-lock that has been developed by Erlenbach exactly ensures the necessary closing of the moulding machine in total and even protects the total system. Due to the intelligent machine control, the system power is adapted to the real pressure requirements of the process.

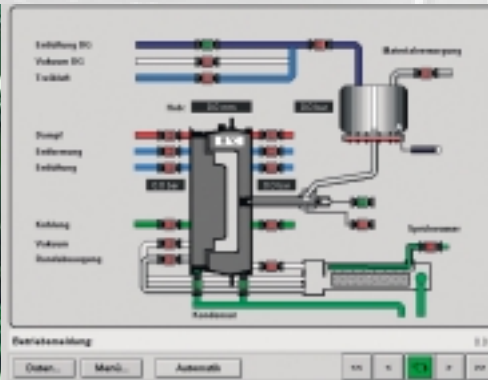
Modern communication interface/ Machine control

By implementing modern technologies, the technological development makes allowance for the total system - machine -, without losing sight of the operator. Due to the manufacturing-process orientated construction of the operating surface, a maximum of ease of use and of controllability is guaranteed.

The hard- and software systems are modularly constructed and by using industry-standards, further technological developments can be made.



Moulding machine type EHV-C-PP-BS



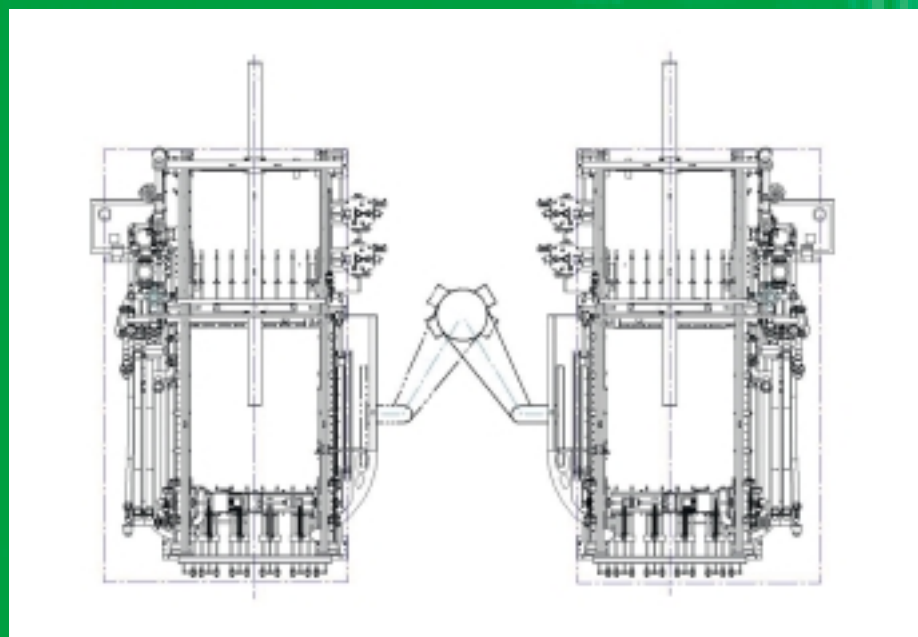
EHV-C-PP-BS:

The moulding machine-BS is a machine of the series C-PP. The machine type has been designed for the requirements of the practical experiences and its characteristic is that its movable machine side additionally moves to the operating side by 90° during the opening. Via this technical solution in the detail, the manual and the automated feeding of the mould with the inserting parts and the deloading of the finished parts is optimized.

This innovative machine conception increase the best possible conditions for the optimization of the op-

erative material flows of the operator and also guarantees the product quality.

The machine is equipped with a hybrid drive concept. The movable machine side is realized by the electronic drive and the closing forces are hydraulically realized by the already known form-fit multipoint-lock system. With this combination, very fast moves in connection with big machine strokes are possible.



Picture 1: two machines type EHV-C-PP-BS-1350/850 with automated handling technique

Technical Data*	EHV-C-PP 670/570	EHV-C-PP 870/670	EHV-C-PP 1070/870	EHV-C-PP 1270/870	EHV-C-PP 1395/870	EHV-C-PP 1650/870	EHV-C-PP 1850/870	EHV-C-PP 2100/1000	EHV-C-PP 1650/1380
Max. moulding L x B x H (mm)	670x570x180	870x670x180	1070x870x180	1270x870x180	1395x870x180	1650x870x180	1850x870x180	2100x1000x180	1650x1380x180
Moulding area (sqm)	0,382	0,582	0,931	1,105	1,214	1,436	1,610	2,100	2,277
Max. moulding depth (mm)	180	180	180	180	180	180	180	180	180
800 stroke, steamchamber extensions: 55 mm/110 mm/150 mm	330	330	330	330	330	330	330	330	330
1000 stroke, steamchamber: 55 mm/110 mm/150 mm/200 mm	380	380	380	380	380	380	380	380	380
Dimensions L x B x H (ca. mm)	4200x2650x4100	4200x2720x4300	4200x2900x5120	4200x3100x5350	4200x3325x5400	4200x3900x5400	4200x3900x5500	5200x4270x5620	5100x3900x6440
Standard stroke (mm)	800	800	800	800	800	800	800	1000	1000
Max. female chamber depth (mm)	255	255	255	255	255	255	255	255	255
Max. male chamber depth (mm)	105	105	105	105	105	105	105	105	105
Female flange (mm) A x B	745 x 645	945 x 745	1145 x 945	1345 x 945	1470 x 945	1725 x 945	1975 x 945	2175 x 1075	1725 x 1455
Male flange (mm) A x B	745 x 645	945 x 745	1145 x 945	1345 x 945	1470 x 945	1725 x 945	1975 x 945	2175 x 1075	1725 x 1455
Spacer reduced male flange (mm) C x D	725 x 625	925 x 725	1125 x 925	1325 x 925	1450 x 925	1705 x 925	1905 x 925	2155 x 1055	1705 x 1435
Mount. depth female chamber (mm) F	240	240	240	240	240	240	240	240	240
Male support height (mm) E	95	95	95	95	95	95	95	95	95
Female backplate (mm) G x H	820 x 720	1020 x 820	1220 x 1020	1420 x 1020	1545 x 1020	1800 x 1020	2000 x 1020	2250 x 1150	1800 x 1530
Pressure filling system	DG 60/16	DG 60/16	DG 100/16	DG 150/16	DG 150/16	DG 150/16	DG 150/16	DG 200/16	DG 200/16
Pressure filling volume (l)	60	60	100	150	150	150	150	200	200
Injector connections	16	16	16	16	16	16	16	16	16
Number of clamping points	4	8	12	12	16	20	20	24	28
Mould fastening male	mechanical by external fastening system								
Mould fastening female	mech. by a mobile steel clamping frame								
Ejection system	external, manually positionable and hung up aluminium plate						external manually positionable and aluminium plate		

* This table shows the most common machine types. Further sizes are possible to be delivered on demand.

Subject to technical changes.