

# EHV-C EHV-C-E



**EHV-C (hydraulic driven)**  
Universal moulding machine for the processing of EPS and EPP particle foams. The leader in this sector is equipped with many advantages.

**EHV-C-E (electric driven)**  
The advantages of the C-series are completed with an innovative drive.

# moulding machine type EHV-C/EHV-C-E

## Service description of the C-series

The moulding machines of the C-series persuade of their conception: the highest product quality is realised with the lowest costs. They are flexible in use, at a highest possible efficiency factor and they also have, because of their construction, the best conditions to optimize the operative material flows.



### The C-series stands for:

#### ■ Solid machine construction

A solid hot-galvanized steel construction with high quality lacquer coating guarantees an optimum of corrosion resistance and long life cycle.

#### ■ plus Hightech

The operator is supported by the control via a pleasing communication platform via Touch-Panel and a self-explanatory menu, which is process-orientated. A significant result management or maintenance plans, which can be formed by the operator, simplify the handling. The availability is increased by teleservice.

#### ■ plus many application advantages

- The best product quality is reached by using the Erlenbach low-pressure-technique for the processing with precise and exact repeating media regulators.

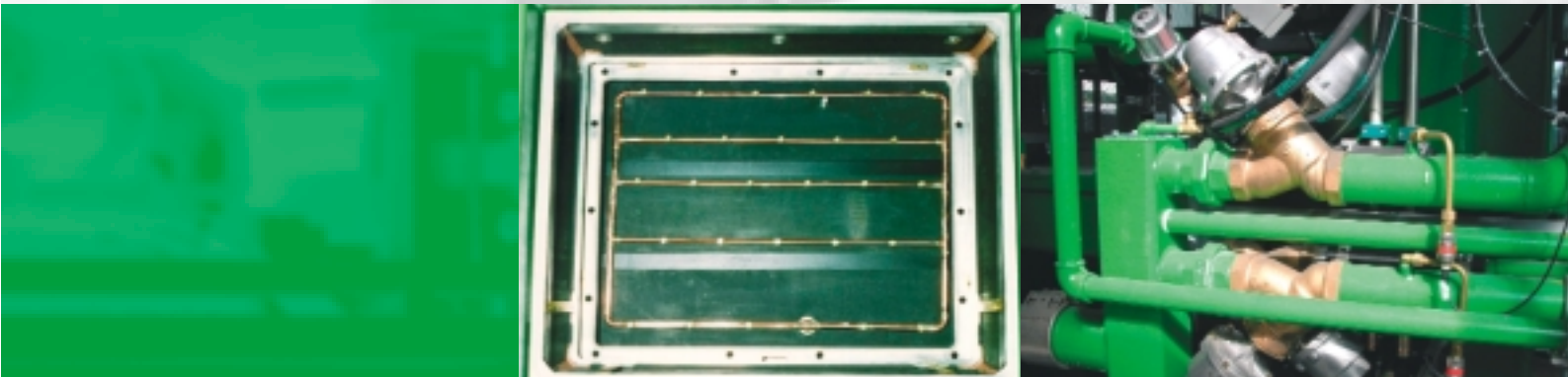
- The minimizing of the production costs can be reached by:

1. The realisation of **shortest cycle times**, which can be reached on basis of huge dimensioned media piping and of the direct aimed energy application.
2. The arrangement of the process with **low energy consumption** is realised by using insulated steam chambers in connection with precise and fully electronic media regulation.
3. The application of an economical and quick-adapting handling system for the **deloading and stacking of the moulding parts**.

4. The economical production of small batch sizes, which is realised by a **quick-mould change system**. This means a higher availability of the production units together with the optimising of the readiness of delivery, resp. the decrease of the stock.
5. The low-cost, **conventional moulding technique** and the system ability of the moulds.
6. The installation of a platform unit. A **production system results**, in which the machine supports the realisation of the operative logistics, because of its construction. The machine units can be positioned closed side by side. Whereas the mould change is made from the backside, an undisturbed material flow for the production parts can be build up.
7. The flexibility of the application for the **realisation of special applications**, such as sheet lamination, skin melting, double filling, 2 densities, inserting of plastic/plates or wooden parts, taping, bundling and printing.

#### Further options:

- Special strokes for extra deep moulding parts,
- Therefore needed chamber extensions,
- Equipments for special handling or robot systems,
- Adapter systems for other mould systems



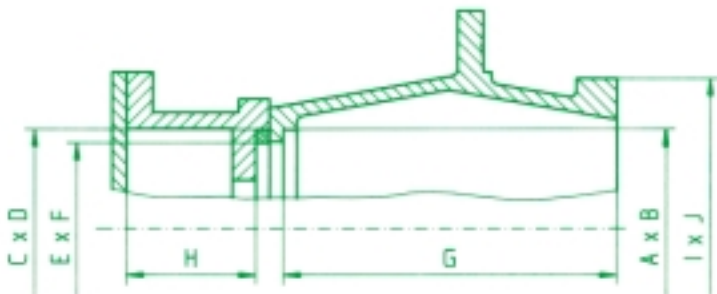
**Steam chamber system with insulation**

The steam chamber system is welded of special aluminium profiles and is insulated on the inside and on the male back plate. By using the insulating layer one can reach an energy saving of approx. 30 %. For the production of extremely deep moulding parts there is the chamber extension, by the application of mounted frames on the backside. For this reason the opening size of the machine remains.

**Quick-mould change in less than 10 minutes**

With the quick-mould change system the availability of the machines is enormously increased. During the production is running, the complete mounting of the blocked mould parts is made on a clamp frame in the workshop. Being prepared as follows, the unit is changed in only a few minutes.

- More essential advantages are the improvement of the readiness of delivery, the reduction of the storage capacity and many more..



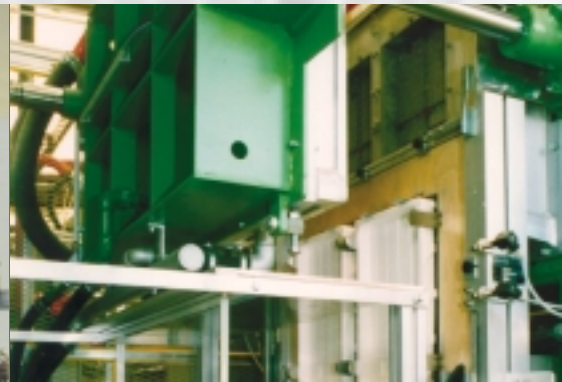
- The preparation of the moulds is made under good ergonomic conditions in the workshop.

- Due to the complete preparation, the inevitable standstill of the machine can be reduced on only few minutes.

**Generous dimensioned energy distribution**

At the media feed one has attended to a good dimensioning and to an optimum distribution. Therefore a faster pressure build-up and build-down is given.

The pre-condenser, which is standard, offers a connection of the machine to an external vacuum source.



### Fully electronic media regulation

The pressures that are relevant for the process are quickly and precise guaranteed by autarkic PID-regulators.

- This ensures a highest product quality by exact adjusted process pressures, also at unsteady pre-pressures.
- By aimed using of the energy, cycle times and energy can be saved.

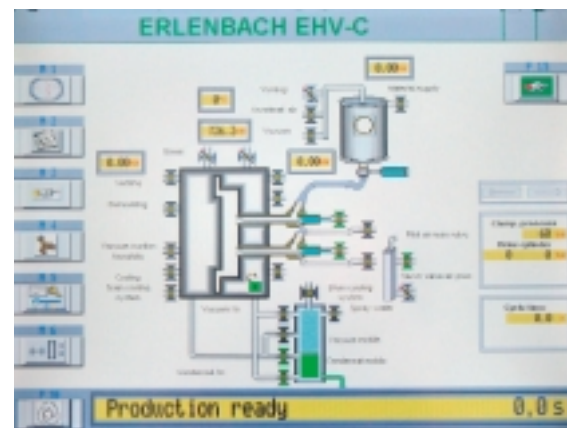
### Filling system

According to requirement, filling vessels with 30,60,100,150 or 200 l are used. Each of them can be connected with 16 injectors by using fast-couplers. A filling level ensures the material supply.

For special applications, such as different densities, additional filling vessels can be mounted. Homogeneous filled products are reached by using fully electronic regulators.

### Control

A solid operation behaviour in the meaning of steadiness in the operation system and failure resistance is characteristic for the compact built control unit. Relative large additional requirements, such as handling, also can be realised by software solutions.



The integrated software covers the standard applications for the serial machines, which have become company standard and approved in practice. The solution of further requirements and the faster service is the motivation of our competent staff.

# drive variants of the C-series



The C-series is available with different drive variants:

▪ **Hydraulic drive (for all types)**

the direct acting, partly in stop-and-go-mode working, hydraulic systems ensures a clamping force up to an operational pressure of 1,6 bar. To protect the components, the clamping force is adapted to each actual mould inside-pressure.

▪ **Electric drive (for a choice of types)**

the electric drive unites some more advantages:

- faster driving motions (up to the double running speed compared with the hydraulic drive) to achieve shorter cycle times
- more exact in the final positions (filling crack)
- at a low noise level
- less drive power
- less maintenance

Technical Data	EHV-C-E 670/570	EHV-C-E 870/670	EHV-C-E 1070/670	EHV-C-E 1070/870	EHV-C-E 1270/670	EHV-C-E 1270/870	EHV-C-E 1395/870
Max. moulding LxBxH (mm)	670x570x180	870x670x180	1070x670x180	1070x870x180	1270x670x180	1270x870x180	1395x870x180
Moulding area (m <sup>2</sup> )	0,382	0,583	0,717	0,931	0,851	1,105	1,214
Max. moulding depth (mm)	180	180	180	180	180	180	180
600 mm stroke, 55 mm steamchamber (mm)	235	-	-	-	-	-	-
Dimensions LxBxH (mm)	2870x2000x3860	3900x2400x4000	3900x2400x4000	3900x2600x4200	3900x2600x4900	3900x2800x4900	3900x3050x4900
Standard stroke (mm)	600	800	800	800	800	800	800
Max. female chamber depth (mm)	255	255	255	255	255	255	255
Max. male chamber depth (mm)	80	105	105	105	105	105	105
Female flange (mm) A x B	745x645	945x745	1145x745	1145x945	1345x745	1345x945	1470x945
Male flange (mm) A x B	745x645	945x745	1145x745	1145x945	1345x745	1345x945	1470x945
Spacer reduced male flange (mm) E x F	745x645	945x745	1145x745	1145x945	1345x745	1345x945	1470x945
Mount. depth female chamber (mm) G	245	240	240	240	240	240	240
Male support height (mm) H	65	95	95	95	95	95	95
Female backplate (mm) I x J	820x720	1020x820	1220x820	1220x1020	1420x820	1420x1020	1545x1020
Pressure filling system	DG 30/16	DG 60/16	DG 60/16	DG 100/16	DG 100/16	DG 100/16	DG 100/16
Pressure filling volume (l)	30	60	60	90	90	90	90
Injector connections	16	16	16	16	16	16	16

Technical Data*	EHV-C 520/420	EHV-C 670/570	EHV-C 870/670	EHV-C 1070/870	EHV-C 1270/870	EHV-C 1395/870	EHV-C 1510/870	EHV-C 1400/1000	EHV-C 1510/1200	EHV-C 1485/1285	EHV-C 1650/1380	EHV-C 2850/1250
Max. moulding L x B x H (mm)	520x420x180	670x570x180	870x670x180	1070x870x180	1270x870x180	1395x870x180	1510x870x180	1400x1000x180	1510x1200x180	1485x1285x180	1650x1380x180	2850x1250x180
Moulding area (sm)	0,218	0,382	0,583	0,931	1,105	1,214	1,314	1,4	1,812	1,908	2,277	3,653
Max. moulding depth (mm)	180	180	180	180	180	180	180	180	180	180	180	180
600 stroke, 55 steamchamber ext. (mm)	235	235	-	-	-	-	-	-	-	-	-	-
800 stroke, steamchamber extensions: 55 mm/110 mm/150 mm	-	-	330	330	330	330	330	330	330	330	330	330
1000 mm stroke, steamchamber ext.: 55 mm/110 mm/150 mm/200 mm	-	-	380	380	380	380	380	380	380	380	380	380
Dimensions L x B x H (mm)	2870x1900x3450	2870x2000x3860	3900x2400x4000	3900x2600x4900	3900x2800x4900	3900x2800x4200	3900x3050x4900	3900x3300x5300	3900x3400x5900	3300x3300x5600	4200x3900x5700	6900x5200x5000
Standard stroke (mm)	600	600	800	800	800	800	800	800	800	800	800	1000
Max. female chamber depth (mm)	255	255	255	255	255	255	255	255	255	255	255	255
Max. male chamber depth (mm)	80	80	105	105	105	105	105	105	105	105	105	105
Female flange (mm) A x B	595 x 495	745 x 645	945 x 745	1145 x 945	1345 x 945	1470 x 945	1585 x 945	1475 x 1075	1585 x 1275	1560 x 1360	1725 x 1455	2925 x 1325
Male flange (mm) C x D	595 x 495	745 x 645	945 x 745	1145 x 945	1345 x 945	1470 x 945	1585 x 945	1475 x 1075	1585 x 1275	1560 x 1360	1725 x 1455	2925 x 1325
Spacer reduced male flange (mm) E x F	575 x 475	725 x 625	925 x 725	1125 x 925	1325 x 925	1450 x 925	1565 x 925	1455 x 1055	1565 x 1255	1540 x 1340	1705 x 1435	2905 x 1305
Mount: depth female chamber (mm) G	245	245	240	240	240	240	240	240	240	240	240	240
Male support height (mm) H	65	65	95	95	95	95	95	95	95	95	95	95
Female backplate (mm) I x J	670 x 570	820 x 720	1020 x 820	1220 x 1020	1420 x 1020	1545 x 1020	1660 x 1020	1550 x 1150	1660 x 1350	-	-	-
Pressure filling system	DG 30/16	Dg 30/16	DG 60/16	DG 100/16	DG 100/16	DG 100/16	DG 150/16	DG 150/16	DG 150/16	DG 150/16	DG 150/16	DG 200/16
Pressure filling volume (l)	30	30	60	90	90	90	150	150	150	150	150	200
Injector connections	16	16	16	16	16	16	16	16	16	16	16	16
Mould fastening male	mechanical by external fastening system											
Mould fastening female	mech. by an ai-damping frame											
Ejection system	external, manually positionable and hung up aluminium plate						external manually positionable and mobile aluminium plate					

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

Subject to technical changes.