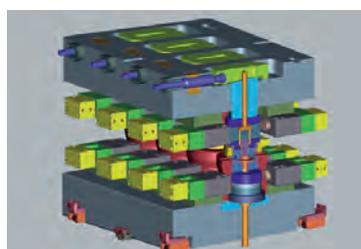


SMS  **group**

Ecopress

Type EP



Customised solutions

A new economy design for the eccentric press



SMS group is known for custom-made solutions of complex forging tasks. The newly developed EcoPress from the successful eccentric press series completes the existing product range by a "face-lifted" model that makes sense. This standard machine, available in sizes ranging from 6.3 MN to 31.5 MN nominal force, will particularly suit the manufacture of standard forgings.

A consistent modularisation and the predefinition of available additional equipment have contributed considerably to streamlining the engineering, manufacturing, and assembly work. The customer profits by shorter deliveries and reduced investment cost.

The EP series is based on the tested and proven design features of the MP series, such as double pitman, diagonal ram guides in the die area, motorised adjustment of the ram height position, as well as die space and ram stroke.



Main features

■ Frame

The machine frame is of split design with tierods.

■ Ram/pitman

The ram is driven by a double pitman of steel. The large-surface bearing halves of the double pitman ensure that transmission of the press forces runs rectilinearly – without any pressure being exerted on the edges – from the eccentric shaft via the wrist pin onto the ram. Even eccentric forging forces that might occur during the forging operation can be accommodated.

■ Ram guiding system

The ram slides along guideways that are diagonally arranged to obtain a thermally neutral behaviour of the guide system. The guide system allows for readjustment.

■ Clutch/brake system

A reliable clutch and brake unit ensures short switching times. The clutch and brake are arranged right on the eccentric shaft. The clutch protects the press directly against overload. The clutch/brake system is electro-pneumatically controlled. The discs of the clutch and brake are connected to the eccentric shaft and fitted with easily replaceable asbestos-free friction pads.

■ Weight balancing equipment

The weights of pitman and ram and of top bolster and dies are dynamically balanced by two pneumatic cylinders.

■ Ram adjustment system

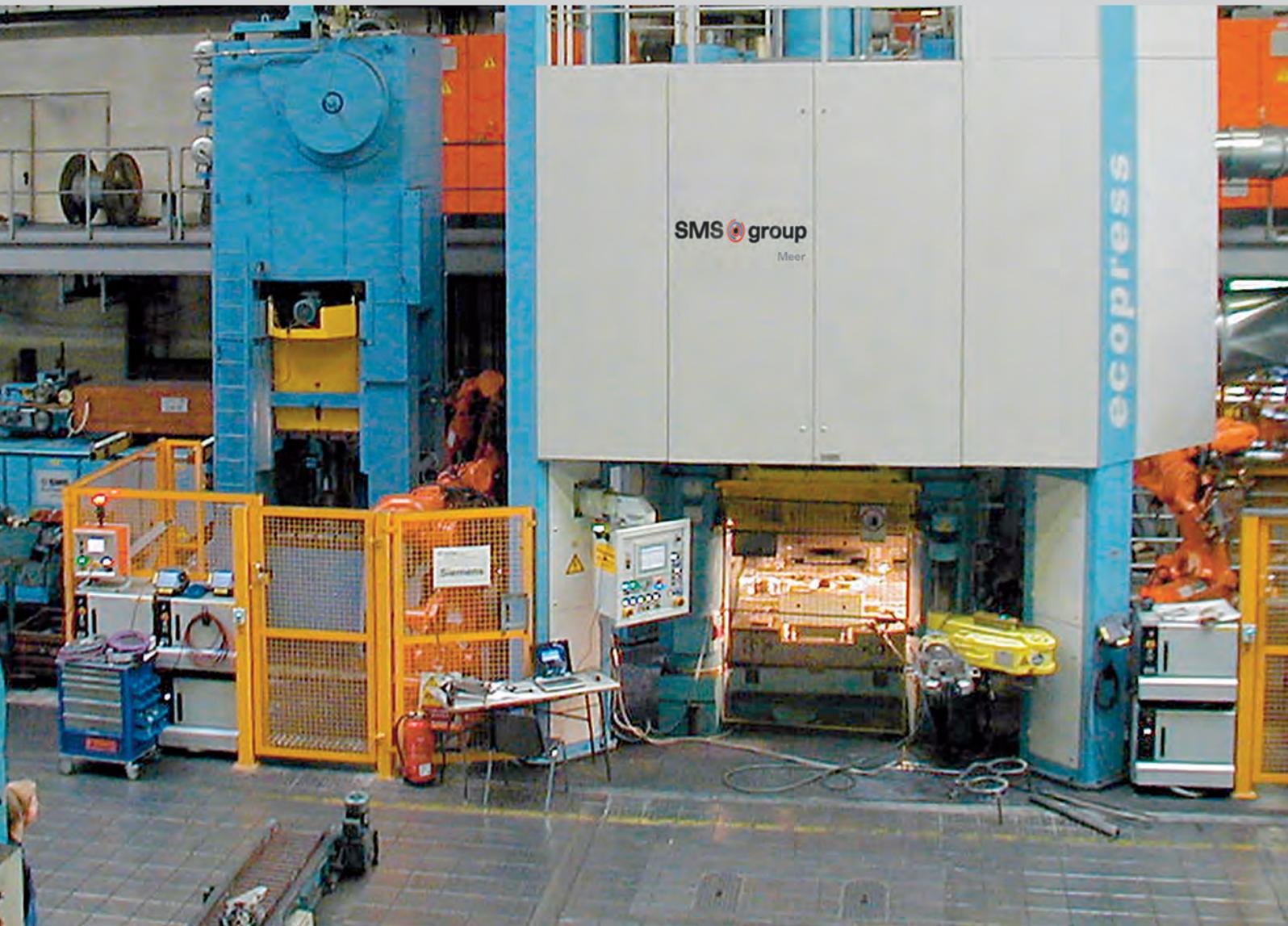
The ram adjustment system allows the height of the die space to be adjusted in order to set up the forging dies and to compensate for temperature differentials and die wear. The ram height position is adjusted by means of a motor and worm drive with separate clamping. The adjusting worm is of the self-locking type.

■ Lubrication system

For an adaptation as flexible as possible to the amounts of lubricant needed at different bearing points, the central lubrication system is subdivided into function groups, each group having its individual lubricating cycle.

■ Table/ram ejectors

The hydro-mechanical ejectors in the table are operated by thumb shaft and by a laterally arranged hydraulic cylinder. The three ejectors in the ram are hydraulically driven single ejectors which can be operated in unison, or optionally controlled as individual units.



Technical data*

Size	630	1000	1250	1600	2000	2500	3150
Nominal force	6,3 MN	10 MN	12,5 MN	16 MN	20 MN	25 MN	31,5 MN
Number of strokes	110 min ⁻¹	90 min ⁻¹	85 min ⁻¹	80 min ⁻¹	75 min ⁻¹	70 min ⁻¹	63 min ⁻¹
Ram stroke	220 mm	250 mm	270 mm	280 mm	300 mm	320 mm	340 mm
Ram adjustment	6,3 mm	8 mm	10 mm	12 mm	12 mm	15 mm	15 mm
Useful table area:							
Width	840 mm	960 mm	1,060 mm	1,190 mm	1,330 mm	1,460 mm	1,560 mm
Depth	900 mm	1,100 mm	1,250 mm	1,400 mm	1,550 mm	1,700 mm	1,800 mm
Shut height, max.	630 mm	700 mm	775 mm	875 mm	950 mm	1,000 mm	1,050 mm
Drive rating	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	185 kW

*Subject to change

Our product portfolio

Always the right service for you

Whatever you are looking for – whether spare parts, modernizations, tailor-made maintenance, or special training courses – SMS group Technical Service is there for you ... available at 50 locations worldwide to offer you effective service packages ... designed to optimize your operations along the entire metallurgical process chain. You benefit from the collective know-how of a powerful group because our employees match services precisely to your wishes and implement them on schedule, on budget, and based on the quality you want.

That means: you can rely on the quality of our services as well as a fast response with a personal touch. All this to cut downtimes, boost your productivity, and ensure the sustained value of your machinery and plants.



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