SMS group

MEERtorque®

An innovative drive concept for metal forming

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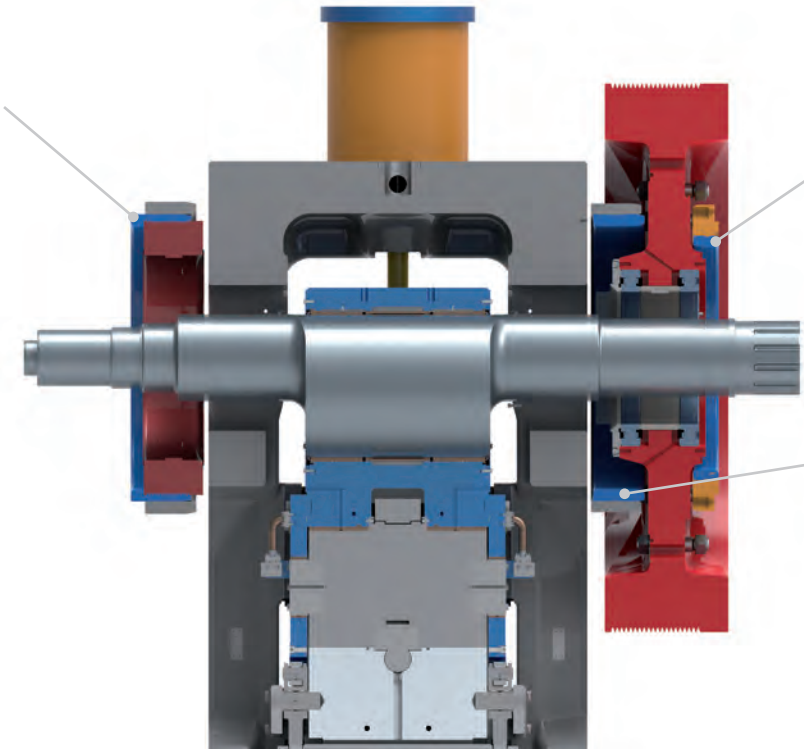
The MEERtorque® drive solution separates the ram movement from the allocation of forming energy.

With MEERtorque® the press ram is driven directly by the acceleration servo motor located on the left-hand side of the eccentric shaft. The continuously rotating flywheel is driven and maintained at speed by a separate directly mounted flywheel motor arranged on the right-hand side of the eccentric shaft eliminating the need of any additional belt drive or back shaft.

This allows to ideally combine the advantages of all servo-driven presses with those of presses with conventional clutch-/brake systems:



Advantages:

- Increased die life due to reduced die contact time
- Reduced maintenance cost due to reduced wear on mechanical parts (no brake required during continuous operation as well as a virtually wear-free clutch)
- Increased production output due to outstanding reliability and improved performance
- Drastic reduction of supply media (e.g. compressed air, spray liquid, electric power)
- Extremely smooth and silent operating noise due to the elimination of brake, gearbox etc.
- Energy supply column allows perfect access to media supply

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