02-63 Dieholder cassette quick-change and precision forging system with cassette flat/round/flat pillar guide for a 63 MN drop forging eccentric press

- Patented 3rd generation dieholder cassette quick-change and precision forging system with rectangular forging die cassettes for forging without die guides of engine crankshafts for passenger cars and commercial vehicles with up to 2 forging stations and with optionally manual, semi-automatic or fully automatic parts transfer.
- High forging precision thanks to non-thermal expansion-dependent, stable, oil-lubricated, low-wear cassette flat/round/flat pillar guide operating independently of the press guide with exchangeable, nitration-hardened steel guide elements (guide pillars, plates, bush) and floating cassette.
- Mechanical ejectors in base holder and cassettes.
- Problem-free, fully automatic cassette quick changing lasting only a few minutes with a cassette change carriage and double-hydraulic cassette lifting cylinders and single-hydraulic Rollbloc roll blocks in the base holder lower section, thus maximum economic efficiency and short payback time.
- Handling of the cassette lower and upper sections each weighing 7.3 t during die tooling and servicing and cleaning work with the aid of a hydraulic/electric-motor-driven cassette upper section lift-off and handling device.
- The full width of the die installation space of the press can be utilised thanks to the patented inside-to-outside clamping of the cassette.
- Minimal contamination of the cassette clamping equipment, of the reliable hydro-mechanical Fellner wedge-type clamping elements, thanks to complete coverage with the cassette.
- Simple adaptability of other cassette types (e.g. for round forging dies).
- Easy to operate.
- Easy to service and repair thanks to modular design.
- Only a few press adaptations of minimal scope are necessary.