

Ottemeier



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Major innovations:

Hybrid punching technology.

Hybrid punching portal HS13



The newly developed punching portal is equipped with the CLDP servo drive from Voith Turbo, which increases the range of applications for the punching technology significantly. The CLDP drive mainly consists of a servo motor, an internal gear pump and a direct-coupled hydraulic cylinder. Speed and direction control does not require control or butterfly valves. The servo drive works independently and needs neither piping and hoses nor a hydraulic power pack.

The drive is suitable for position control as well as for pressure or force control. The CLDP is characterised by high energy efficiency and virtually abrasion-free operation. In addition, it is protected against overload and has a long life.

Benefits:

- Compact design; small footprint and flexible positioning
- Delivery as mobile device possible
- Different sizes and models available
- Integrated, independent hydraulic system
- No hoses, pipes or power packs
- Free from valve systems
- Minimum throttle loss in the hydraulic system
- High-speed punching – dynamic and precise
- Excellent for tool try-out
- Very sensitive plunger movement via joystick with force monitoring
- High energy efficiency
- Simple system integration
- Few electric connections
- Drive with reduced abrasion
- Fully protected against overload
- Low maintenance requirements
- Force and speed position control
- Adjustment of force and speed to the production process
- Electronic process analysis
- No additional cooling

Applications:

- Bending tools
- Cutting tools
- Forming tools
- Presses
- Special machines
- Alternative to spindle drives with servo motor
- Material handling
- Rigs and laboratory applications
- Food industry

Technical data of the drive:

Ambient temperature	-5° to +40°C
Mounting position	optional
Work force	2.5 kN to 500 kN
Stroke length	50, 100, 200, 300, 400 mm
Position measuring system (optional)	absolute encoder
Positioning accuracy	0.01 mm
Repetition accuracy	0.01 mm
Control	position and/or pressure control
Maintenance interval	3 years or 20,000 operating hours
Movement speed	depending on the size up to a speed of 640 mm/s

Types:

- Linear
- Parallel (optional)
- Orthogonal (optional)

Scope of delivery – basic version:

- Complete drive unit
- Motor, pump, valves, cylinder, compensation tank, pressure switch
 - Oil fill with high-performance pressure fluid PF-700
 - Fall protection (no safety component)

Optional equipment:

- Pressure sensor
- Servo converter with interface cards
- Line filter, line inductor, braking resistor
- Motor cable, sensor cable
- Parameter assignment software
- Commissioning on site
- Integrated position measuring system (absolute)

Extensions/customised changes:

- Variable table size
- Variable tool installation space
- Variable tool clamping (manually or automated)
- Variable interface to other parts of the system
- Movement possible lengthwise and crosswise (actuating shaft or dynamic)
- Flexible tool change methods
- Integration of roll feeds
- Convenient system monitoring
- Integration in plant systems
- Control via joystick

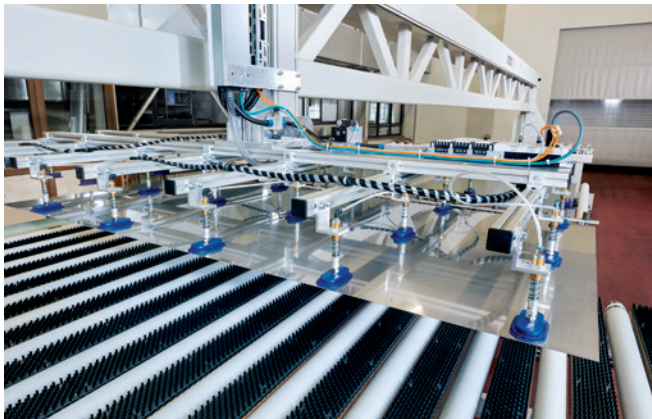
Controls:

- Beckhoff Twin CAT control
- Other controls on request

Other products

Special machine engineering

- Die tables for hydraulically operated tools
- Special saws
- Special presses
- Stacking systems
- Drilling and trimming systems
- Welding systems
- Robot cells
- Handling systems
- Automation in rollforming machines



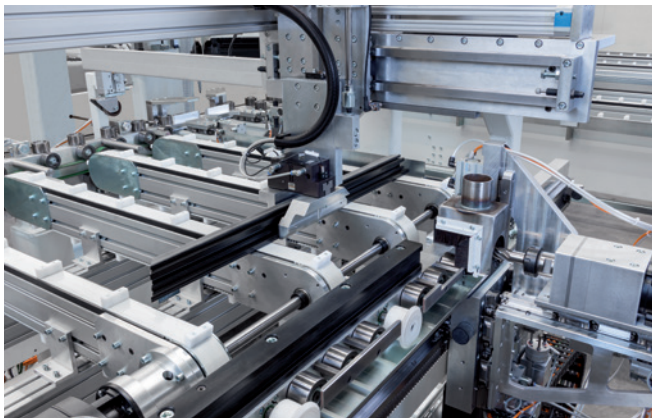
Edge planing system for steel sheet and stainless steel boards

Tool engineering

- Cutting tools for rollforming machines
- Punching tools
- Bending tools
- Stamping tools
- Pressure joining tools



Saw system for special door frames



Trimming, drilling and saw system for bar sections



Tools for rollforming machines



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Tell us what is important to you.

If you want to know more about our special machine and tool engineering or if you want an offer for your project, call us. We look forward to your call and will be happy to provide personal service at any time.

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