



TOX®-Presses

- TOX®-FinePress
- C-Frame Presses
- Column Presses



TOX®-Presses

Force capacity from 2 to 2000 kN, intelligently monitored

No matter whether you need manual workstations, automated C-frame presses, 2- or 4-column presses – the TOX®-Presses are perfect for your application. Used for clinching, punching, coining, pressing or bending – our presses provide highest flexibility.

Our press systems can be combined to automated solutions for your production.

Typical applications



Clinching, TOX®-sheet metal joining



Assembling, Press-fitting, Mounting



Riveting, Crimping, Flaring



Inserting, Insertion of function elements



Punching, Piercing



Coining, Marking, Stamping



Clamping, Tensioning, Peening



Pressing, Compressing

Modular design

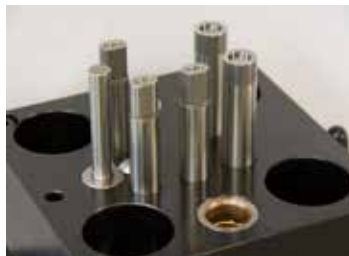
Even in the selection of a standard press, you have numerous possibilities to individualize your press.

The modular design principle provides an uncomplicated realization.

Customized presses are possible, meeting exactly your requirements concerning dimension and function.



Tooling



Clinching tools



Pressing and form pierce tools

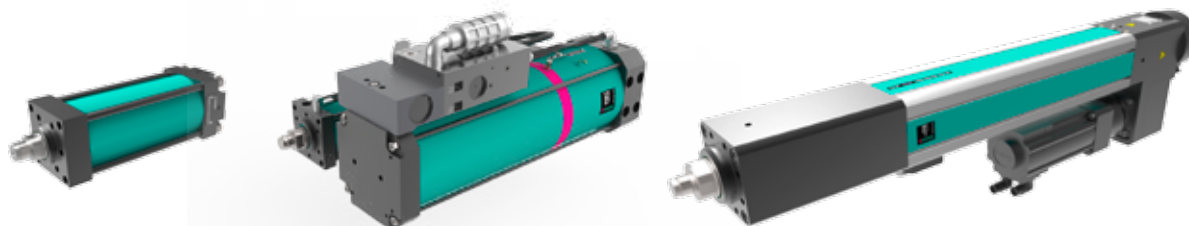


Punching tools



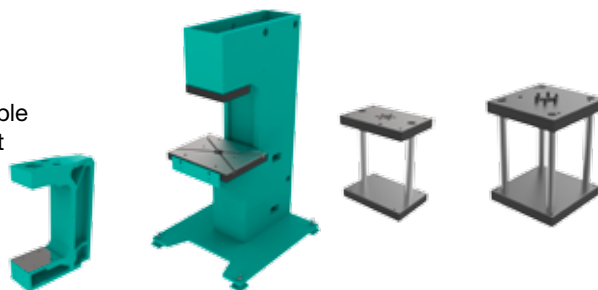
Drives

- Pneumohydraulic drives TOX®-Powerpackage
- Electromechanical drives TOX®-ElectricDrive
- TOX®-Hydraulic Cylinder with external pressure intensifier



Press frames

- C-Frames
 - 2-column
 - 4-column
- C-Frames available in welded or cast construction



Controls

- 1-hand start
- 2-hand controls
- 2-hand safety controls with PLC
- Foot pedal controls
- External pulse controls



Base frames

- Welded construction
- Sheet metal construction
- Aluminum framing
- Any size



Supplementary components for press safety, process monitoring and plant integration

TOX®-Safety Guard Enclosures

- Aluminum or steel framing
- Perforated sheet
- Polycarbonate

Light curtain

- Protective guard
- Presence detection



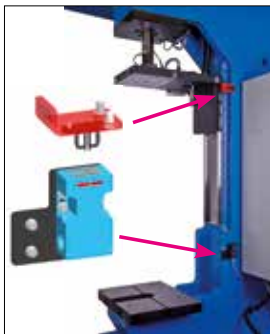
Safety guard doors

- Lifting door
- Roller shutter



TOX®-Restraint Device

- Angle variant
- Rod variant



TOX®-Safety Equipment CLX

- Part of the foot pedal control
- For 2-hand controls instead of a safety guard enclosure



Complete system
solutions from one
source!

Piecepart handling

- Slide table
- Index table
- Shuttle
- Pick and place
- Robot systems



TOX®-Pressing Monitor

Monitoring of processes with

- window technique
- envelopes

Many applications

- Multi-channel evaluation
- Bus interface
- Data backup



TOX®-Accessories

TOX®-Target Feature for exact positioning

- Couplings ZWK
- Sensors for
 - distance
 - force
 - pressure



TOX®-FinePress – noticeable quality

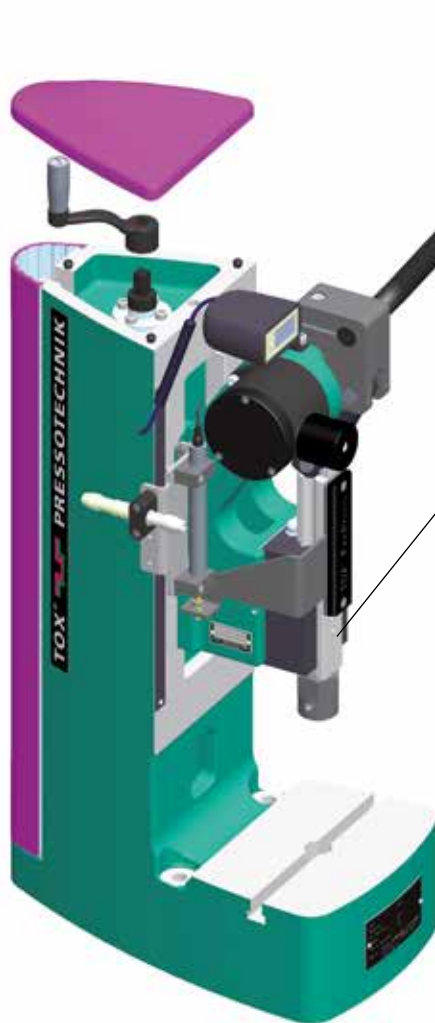
The benchtop presses for your success!

The TOX®-FinePress program is perfect for high quality production with low budget investment.

Available as toggle presses, rack and pinion presses, pneumatic presses with manual approach and pure pneumatic presses, these benchtop presses are suitable for most manual workplaces.

Values

- +best price/performance ratio
- +ample accessories
- +precise linear ram guide
- +smooth operation
- +pressing monitor can be connected
- +side grip can be rotated by 360°



Guide quality – the heart of our system and your guarantee for best results.

- Minimum friction design guarantees process repeatability
- Requires no adjustment of guide rail preload

Counter

- electrical (battery) or pneumatic
- 8-digit display



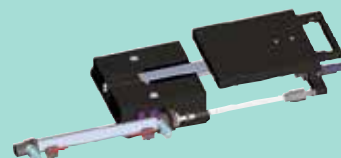
Return stroke lock

- for Toggle and Rack and Pinion Presses



Slide table

- Integrated dampening
- For all presses up to 150 kN



Tool fixture ZA

- 3 in 1 solution for cylindrical clamping shank with or without thread or with set screw mount



Tool fixture ZAK with force sensor



Potentiometer travel measurement ZW

- Easy mounting to return stroke lock and press head



TOX®-FinePress – Small press programm 2 – 57 kN

The right size for every application

CAD data online:
www.tox-cad.com

	Standard S	Larger open height L	Larger throat depth W
Toggle Presses KF			
• Minimum operator effort • High press forces			
Rack and Pinion Presses ZF			
• Constant press force • Minimum effort at hand lever • High press forces			
Pneumatic Presses PF			
• Multi-stage-pneumatic • Stroke adjustment as standard • position or travel sensor (optional)			
Pneumatic Presses with manual approach PFH			
• Hand-lever toggle mechanism for approach stroke • Pneumatic power stroke • In compliance with the EC type examination certificate			

TOX®-Press Programme: customized components

Force capacity from 2 to 2000 kN

TOX®-C-Frame Benchtop Presses



Series MC

The height-adjustable tool area makes this series extremely flexible. That's what counts when used as benchtop machine and for integration in special machines, transfer devices and production lines.



Series MCC

Most compact, solid and cost effective cast construction. Ideal as single press or in combination with feeding or tool changing systems. Optional ram guide plate with coupling and table bores.



Series CEB/CMB

Due to solid steel parts, a flexible use of this frame is possible. The standardized attachment parts make it possible to use it as machine, robot or stationary frame.

TOX®-C-Frame Presses



Series CEU

Stable welded construction with only little deflection, optimal flexibility in application. The press bed is continuously height-adjustable and dismantlable.



Series CEC

The solid cast construction with large throat depth results in a highly versatile all-round press.



Series CEJ

Flexible modular system. Here it is possible to combine all drives and tool geometries.



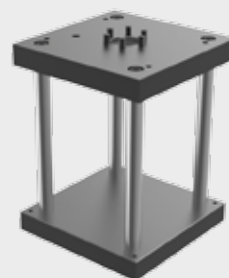
**TOX®-C-Frame Press
Series PC**

The welded and stress-relieved press frame is extremely stable and has a very low level of deflection.



**TOX®-2-Column Press
Series MB/MBG**

High loading capacity combined with minimal dimensions – this principle can be optimally realized in the 2-column presses. Compact 2-plate construction.



**TOX®-4-Column Press
Series MA/MAG**

Optimal load distribution over the entire clamping surface, minimal centric deflection: These are some of the performance features of the tried-and-tested 4-column press: e.g. with anti-torsion tool holding fixture or with 4-column ram guide.

TOX®-Controls

See brochure
"TOX®-Controls"
for detailed information

Only when the machine is optimally adapted to the manufacturing needs the required efficiency and the desired rationalization effect can be

achieved. This is enabled by a well thought out control, which is very easy and safe to operate, and yet provides a multitude of functions.

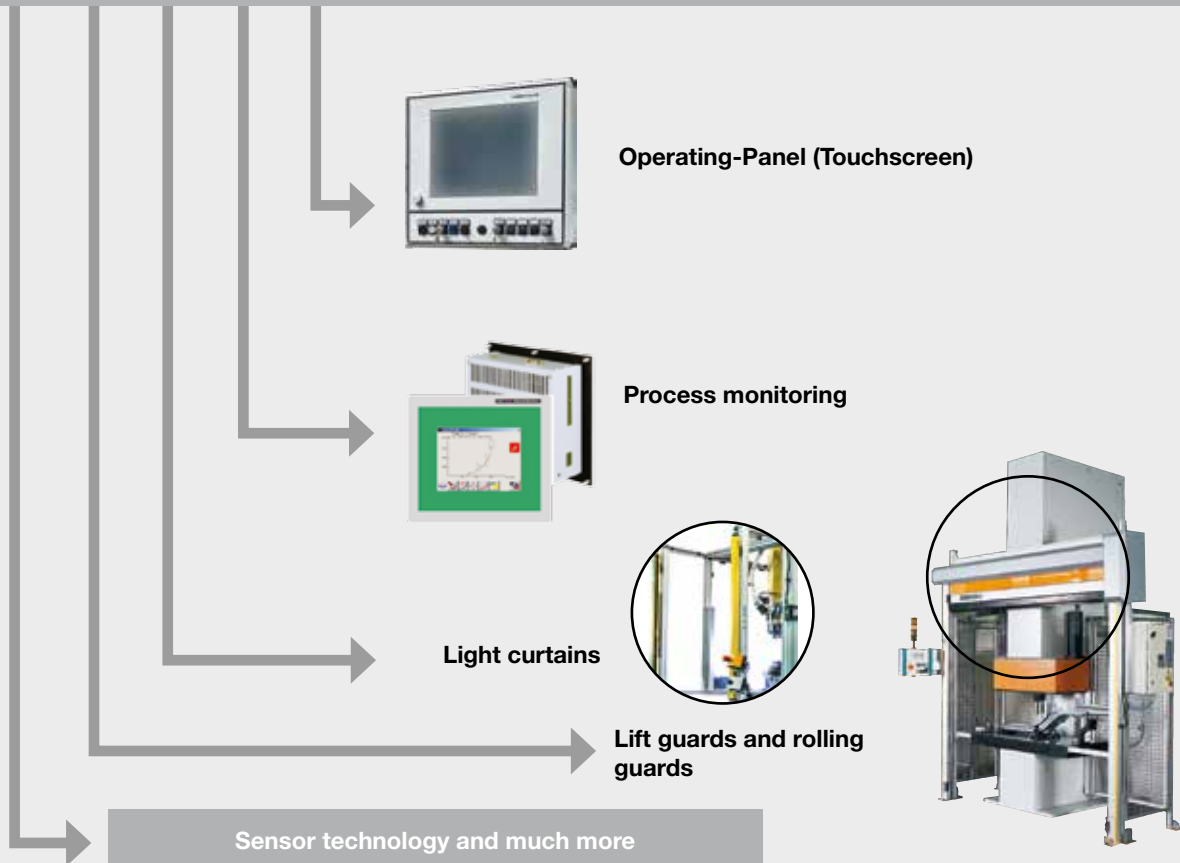
Select the TOX®-Control suitable for your press from the comprehensive TOX®-Standard range: type-tested, CE-compliant.

Basic components of the TOX®-Controls



- 1-hand start
- 2-hand controls
- 2-hand safety controls with PLC
- Foot pedal controls
- External pulse controls

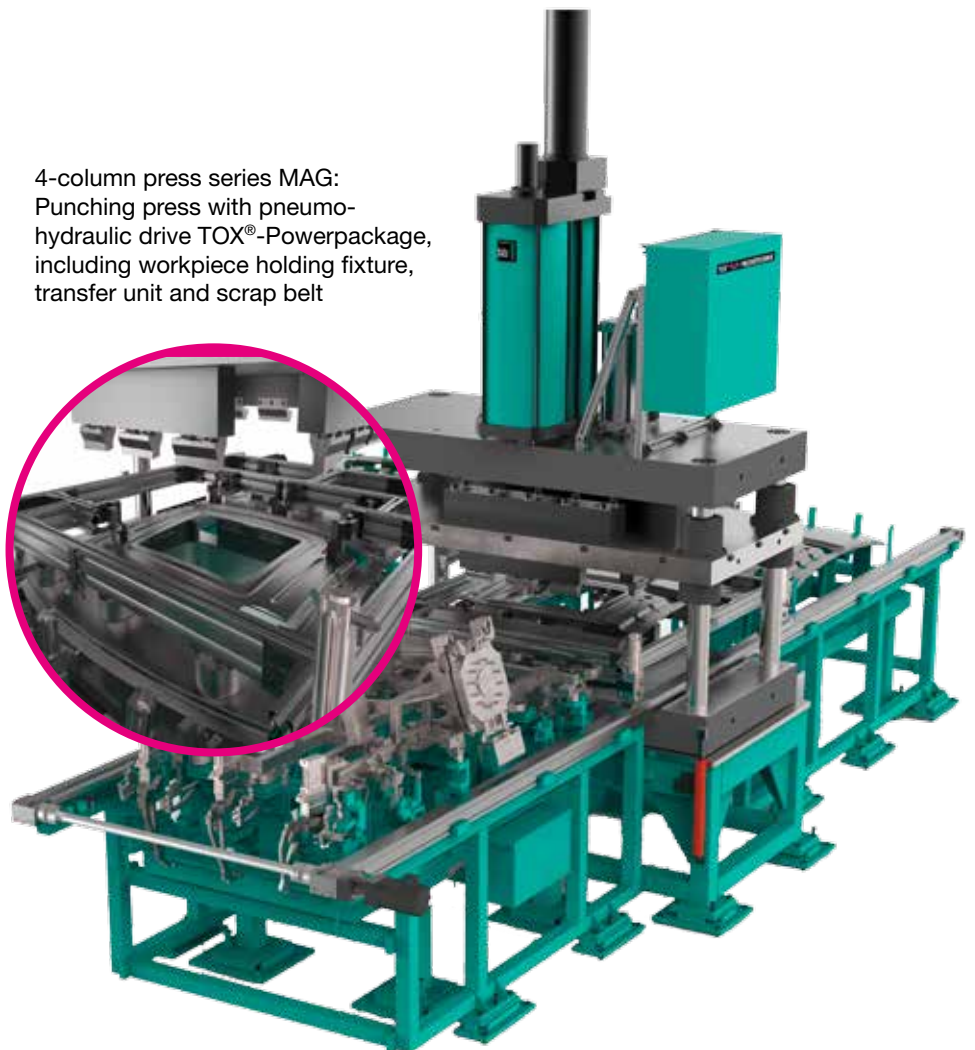
Integration of optional machine components



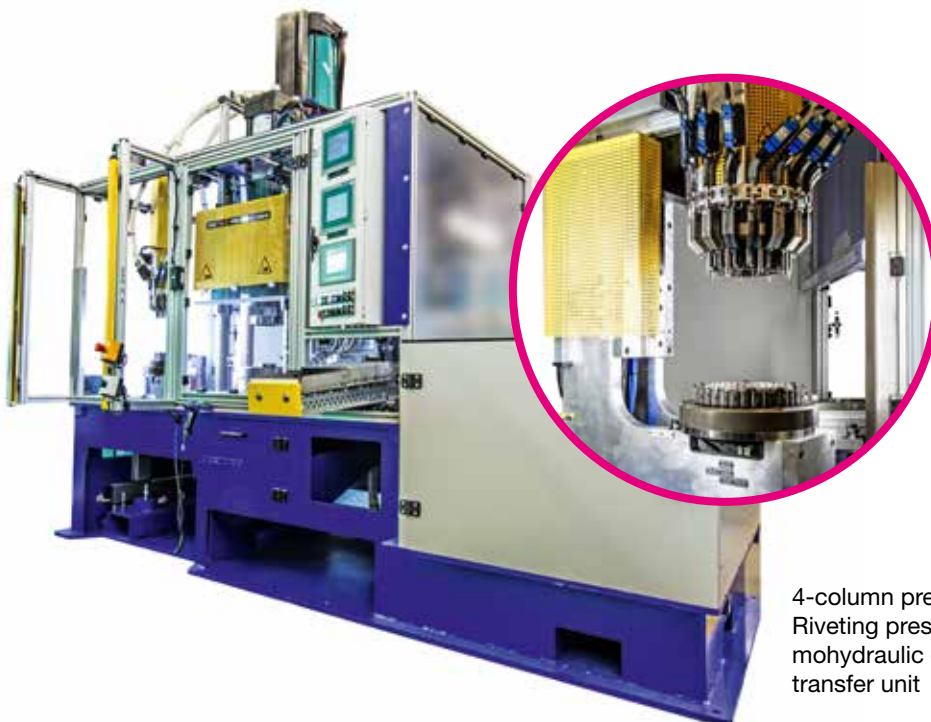
Application examples



C-frame press series CMB
with TOX®-ElectricDrive



4-column press series MAG:
Punching press with pneu-
hydraulic drive TOX®-Powerpackage,
including workpiece holding fixture,
transfer unit and scrap belt



4-column press series MAG:
Riveting press with 16 rivet toolsystem, pneu-
mohydraulic drive TOX®-Powerpackage and
transfer unit

Product Range

TOX®-Powerpackage



TOX®-PowerKurver



TOX®-ElectricDrive



TOX®-FinePress



TOX®-Presses



TOX®-Controls
TOX®-Monitoring



TOX®-Joining-
Systems



TOX®-Tongs



TOX®-Punching
TOX®-Coining



TOX®-Press-Fitting



TOX®-Production
Systems



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