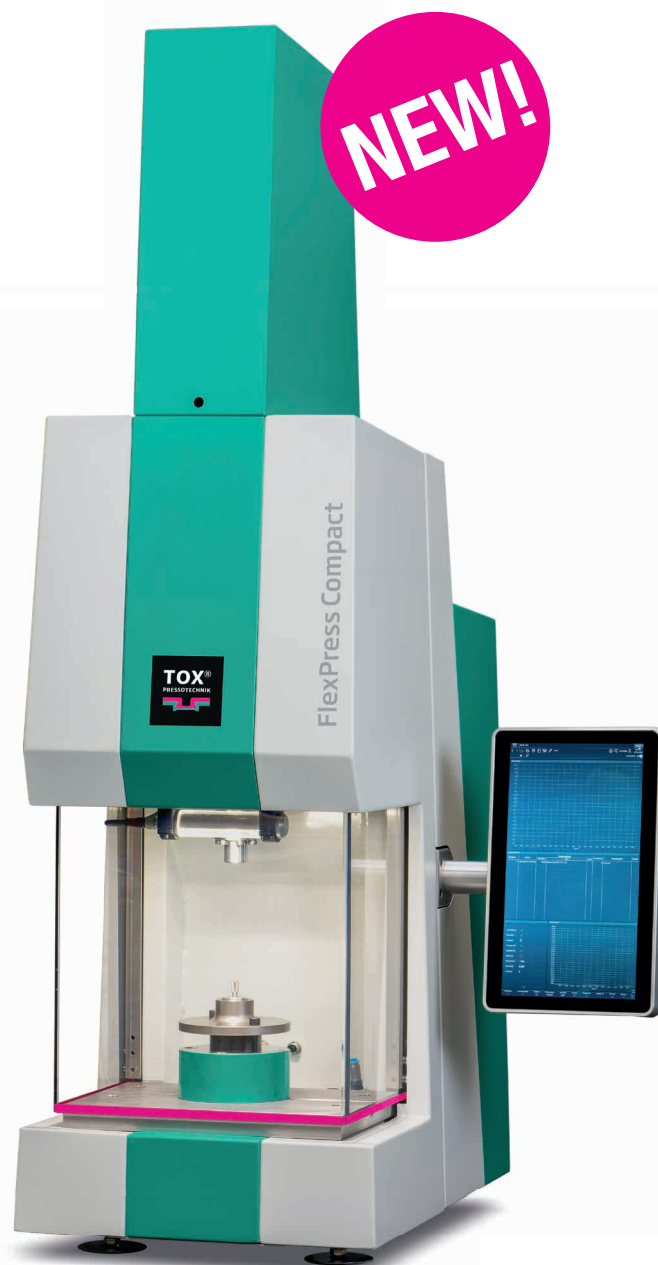


TOX®  PRESSOTECHNIK

# TOX®-Presses



# TOX®-Presses

## Output forces from 2 – 2000 kN, intelligently monitored

Clinching, punching, fastener insertion and marking – all applications require stable components that ensure precise tool guidance. We have the appropriate solution with TOX®-Presses. Whether this involves manual workstations, automated C-frame presses or 2- or 4-column presses – the functional design of the TOX®-Press modular kit principle allows easy and economic adaptation to your specifications. In addition to stand-alone models, our press systems can also be combined with automated solutions.

### The modular kit principle

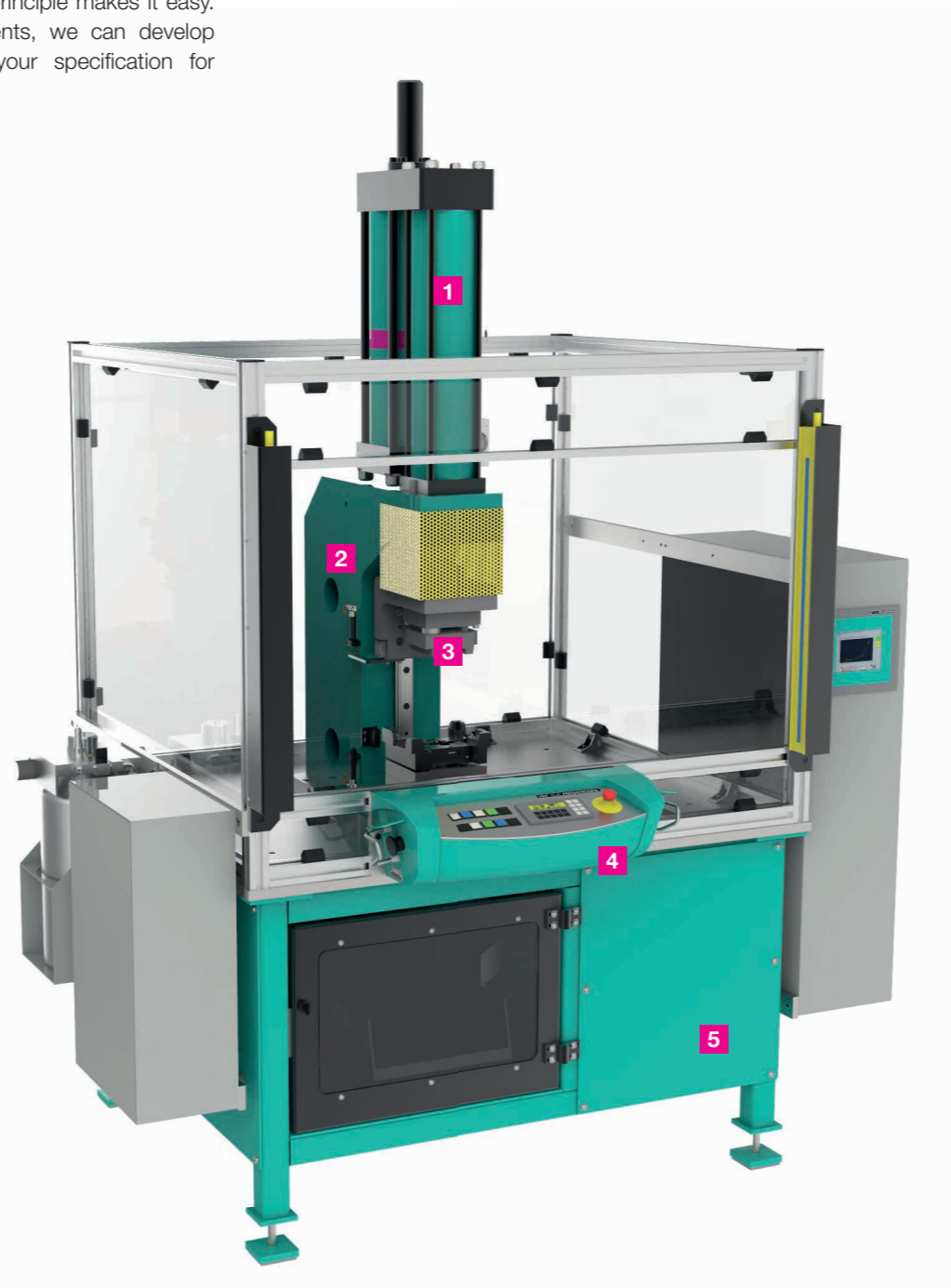
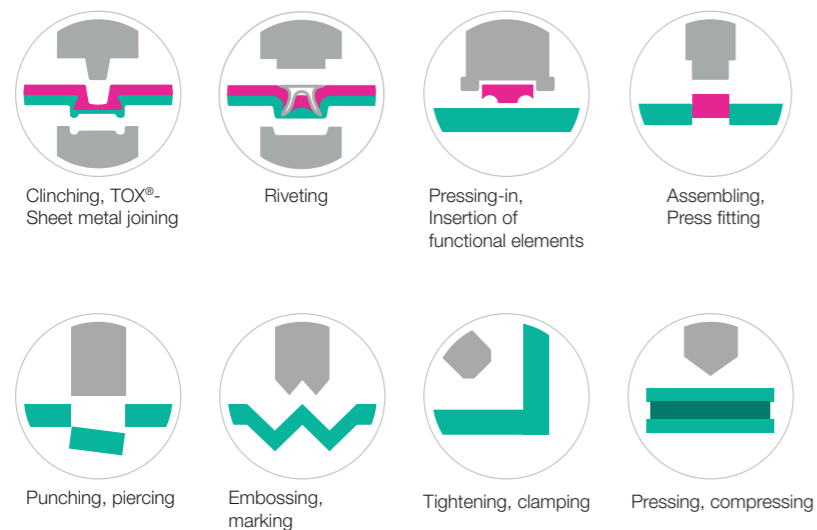
The ideal solution for your application: When it comes to choosing a standard press, you have numerous options. The TOX® modular kit principle makes it easy. To meet any further requirements, we can develop versions that exactly match your specification for dimension and function.

### Drives 1

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



### Typical applications



### Press body 2

machined or welded versions

- C-Frames
- 2-Columns
- 4-Columns



### Tools 3

- Clinching tools
- Press/stamping tools and setting heads
- Punching tools

### Control systems 4

- 1-hand start + additional safety modules
- 2-hand safety control systems
- 2-hand safety control systems with PLC
- Foot pedal control systems + additional safety modules
- External impulse control systems



### Base frames 5

- Steel tube welded
- Steel panel bolted
- Aluminum extrusion
- Custom sizes possible



# Components

Additional modules ensure added value: More press safety, better process monitoring and easy plant integration

### TOX®-Safety Guard Enclosure

- Aluminum or steel frame
- Polycarbonate
- Wire mesh

### Light curtain

- Access protection
- Rear area protection



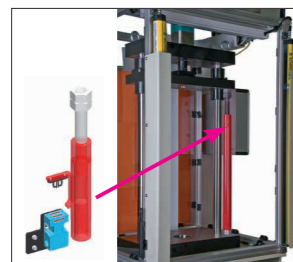
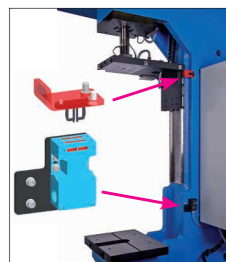
### Safety door

- Pneumatic door
- Rolling door



### TOX®-Restraint Device

- Angular variant
- Rod variant



### TOX®-Safety Device CLX

- Part of the foot pedal control system



### Workpiece handling

- Sliding tables
- Rotary indexing tables
- Shuttle tables
- Pick and Place
- Robot placement



### TOX®-ProcessMonitor

Monitoring of processes by means of

- Window technique
- Envelope curves

Multiple possibilities

- Multi-channel evaluations
- Bus interfaces
- Data backup



### TOX®-Accessories

- Target equipment for exact positioning
- Tool couplings
- Sensors for
  - travel
  - force
  - pressure



## TOX®-FinePress

The TOX®-FinePress program increases the productivity in your company thanks to its flexibility, quality and value – even with just a small investment. The sturdy benchtop presses are characterized by their precise guidance and flexible options. With the toggle press, rack and pinion press, pneumatic press with manual approach or purely pneumatic press versions we have the right solution for almost all manual work stations.

### Advantages

- Best price performance ratio
- Extensive accessories
- Precision-guided ram
- Low-friction movement
- Pressing monitoring capable
- Hand lever adjustable 360°

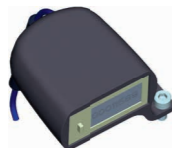
### Guide quality – the core and guarantee for best results.

- Robust guidance using recirculating ball guides
- No adjusting of the guide tolerance
- No readjusting



### Stroke counter

- Electrical (battery) or pneumatical
- 8-digit display



### Tool fixture ZA

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



### Tool holding fixture ZAK with force sensor

- For all bench top presses TOX®-FinePress



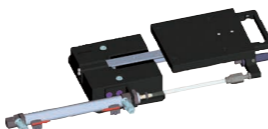
### Return stroke lock

- For toggle and rack and pinion presses
- Prevents premature return of the lever



### Side table

- Allows loading outside of press area
- Integrated damping
- For all presses up to 57 kN



### Potentiometric position sensing ZW

- Easy mounting on return stroke lock and press head



## TOX®-FlexPress Compact

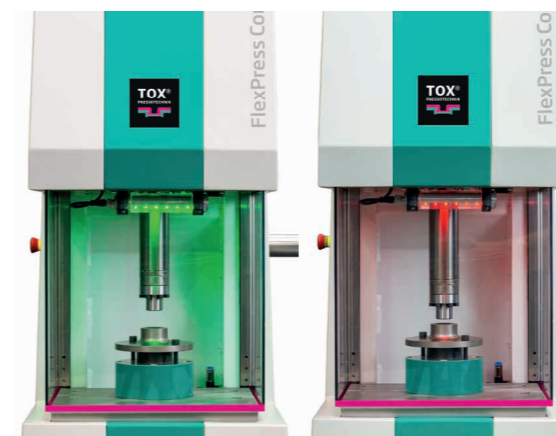
### The compact manual workstation for series production

The new TOX®-FlexPress Compact combines flexibility in use with intuitive control and seamless process monitoring.

A simple tool change allows all processes supported by TOX® to be carried out within shortest time. Evaluate your data afterwards directly at the operating terminal or also by means of the master control - the interfaces are already included.

### Features

- Driven by TOX®-ElectricPowerDrive in four versions: 5 kN, 10 kN, 30 kN or 60 kN
- Whether clinching, riveting, pressing in or similar - all technologies covered by TOX® PRESSOTECHNIK can be realized
- Seamless process and quality monitoring by the new TOX®-Software on the 13" touch panel
- Low space requirement at the workplace due to particularly compact footprint and integrated control cabinet



### Safety and ergonomics

The RGBW illuminated workspace provides the operator with visual feedback on the process.

On the one hand, this makes it immediately visible whether the process being carried out is OK. On the other hand, the operator can continue his work without having to check the display on the control panel.

- Fast moving interlocked safety door
- Extension of functions via EtherCat-Module in working area or control cabinet

# TOX®-Presses from 2 – 2000 kN

## TOX®-Press Frames to fit your application

Our standard TOX®-Press Frames provide the basis for your individual press system. The frames are available in various designs and their dimensions are individually tailored. The slim and sturdy C-frames offer an outstanding price performance ratio and are ideally suited for forming, joining, fastener insertion, pressing, stamping, and arking.

When it comes to optimal pressing and stamping over large tooling areas the symmetrical press construction of the 2- and 4-column design is best. In combination with the appropriate components, such as drive, control system, tool set and also safety devices, you receive a press system tailored to your needs.

### TOX®-C-Frame Benchtop Presses

#### CEB/CMB Series

The use of flame-cut steel parts ensures flexible construction of the CEB series. It can be implemented into a machine and robot cell or as a stand-alone press. The tool ram of the CMB series, which is guided by linear bearings, eliminates the need for further tool guidance.

- Press force up to 300kN



#### MCC Series

The MCC series uses compact, sturdy and inexpensive cast construction to be operated as an individual press or in conjunction with feed or tool changing systems. The flexibility and versatility of the MCC series makes it ideal for pressing, marking or bending.

- Press force up to 150kN



#### MC Series

The height-adjustable console makes the MC series particularly flexible. It can be used as a tabletop machine, and can also be integrated into special purpose machines, transfer devices and production lines.

- Press force up to 150kN



### TOX®-C-Frame and C-Bow Presses

#### CEU Series

Sturdy welded construction with low deflection. The press bed is height adjustable and can be easily removed.

- Press force up to 140kN



#### CEC Series

The CEC series sturdy, cast construction with large depth for use in combination with the pneumohydraulic drive TOX®-Powerpackage RZ or electro-mechanical drive TOX®-ElectricDrive EPMR guarantees accurately guided tools even with long strokes.

- Press force up to 84kN



#### CEJ C-Frame Series

The flexible modular kit system of the CEJ series is optimized in conjunction combinable with our TOX®-Robot tongs drives and suitable for various tool geometries.

- Press force up to 80kN



### TOX®-2-Column Press MB/MBG series

The 2-column/2-plate construction MB series with a slide or ball bearing guided ram plate combines high load-bearing capacity with small dimensions. The MBG series also offers a large tool assembly space.

- Press force up to 2000 kN

### TOX®-C-Frame Press PC series

The slim design provides open access from three sides. The welded and stress relieved frame body has minimum deflection.

- Press force up to 2000 kN



### TOX®-4-Column Press MA/MAG series

The 4-column construction of the MA series distributes the load optimally over the entire pressing surface and minimizes deflection. The MAG series also offers a large tool assembly space. The modular construction allows for an individual customization, including, for example, a non-rotating tool holding fixture or a 4-column guided ram plate.

- Press force up to 2000 kN

## TOX®-Controls

Only a machine that is adapted to your specific production needs achieves the required efficiency and the desired production capability. An important component is a well-thought-out control system, which is intuitive and reliable to use, while offering a maximum number of functions at the same time.

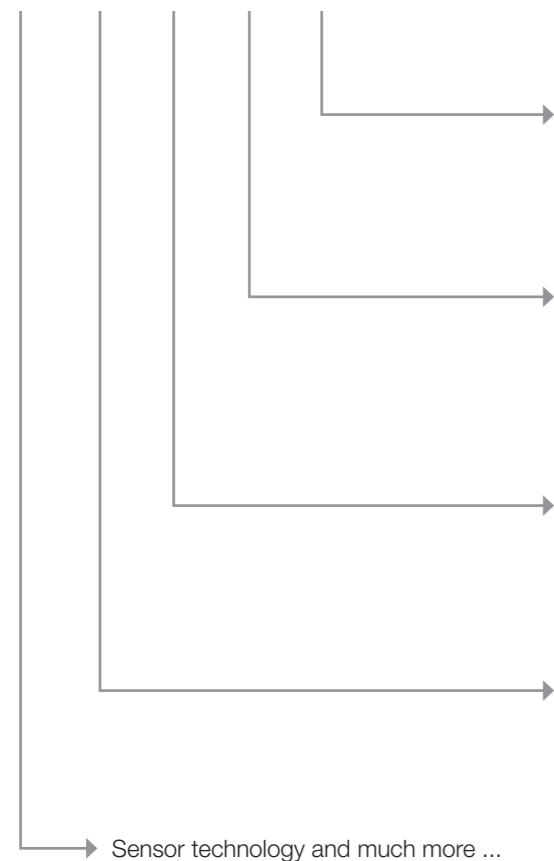
Choose the control system (TOX®-Controls) suitable for your press from our extensive standard range. All meet the latest technical safety standards and guidelines of the German Occupational Safety and Health Administration as well as European Directive DIN EN 13736 for pneumatic presses (local standards available upon request).

### Basic equipment of the TOX®-Control systems

- 2-hand safety control systems
- 1-hand/foot stand + additional safety modules
- external impulse control systems/interfaces



### Optional integration of further components



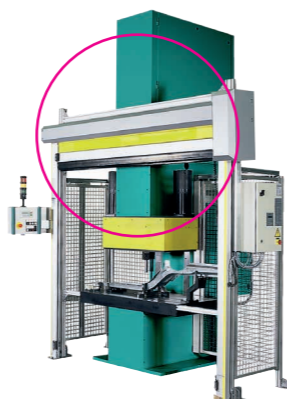
TOX®-UDI Panel

TOX®-ProcessMonitor



Safety controls with Light curtain

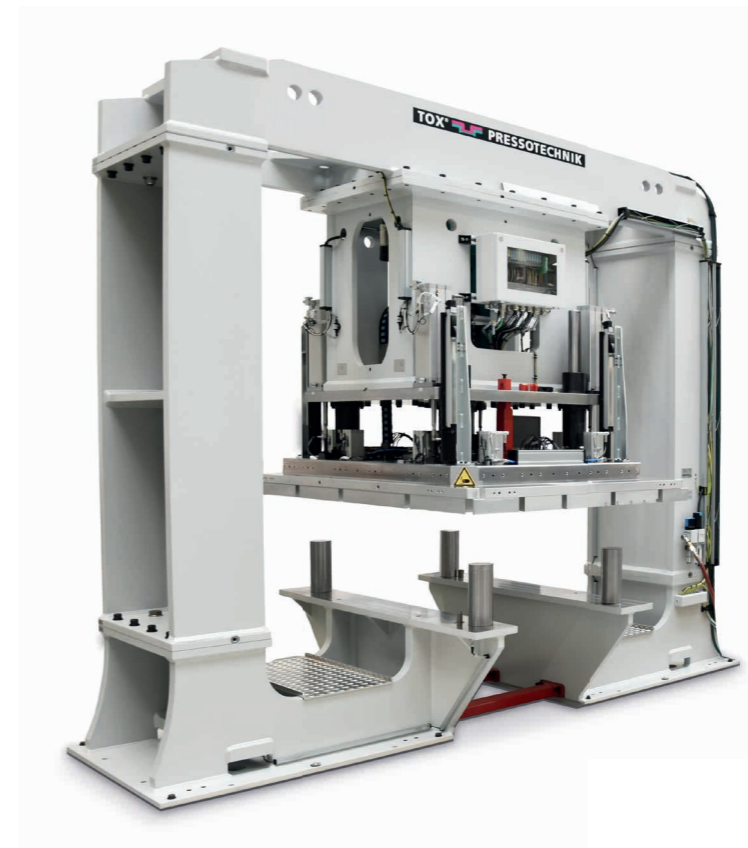
Safety control systems with lifting door and roller door



Sensor technology and much more ...

## Typical applications

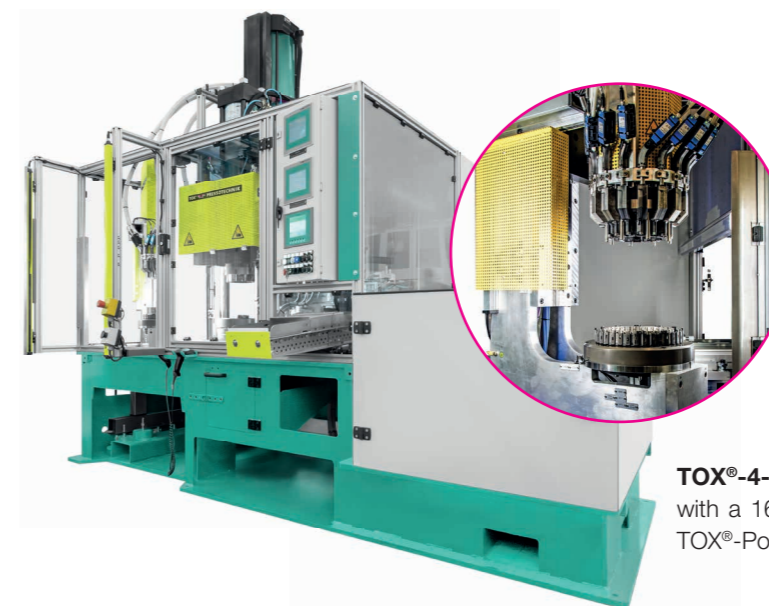
We design, plan and build complete presses and special machines



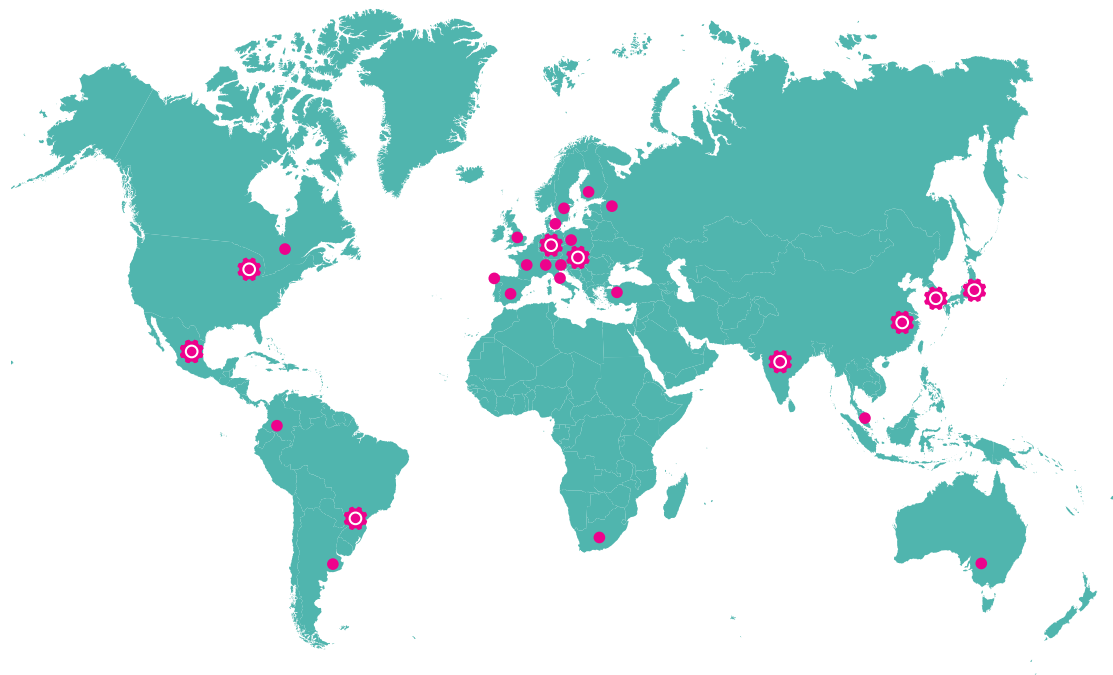
**TOX®-4-Column Press MAG series**  
with electromechanical drive system TOX®-ElectricDrive



**TOX®-C-Frame Press CMB series**  
with electromechanical servo drive TOX®-ElectricDrive, safety controller with pneumatic door and touchscreen



**TOX®-4-Column Press MAG series**  
with a 16 tool riveting system, pneumohydraulic drive TOX®-Powerpackage, light curtain and transfer unit



**TOX®  PRESSOTECHNIK**

TOX® PRESSOTECHNIK GmbH & Co. KG  
Riedstrasse 4  
88250 Weingarten / Germany

Find your local contact at:  
[tox-pressotechnik.com](http://tox-pressotechnik.com)

317814 / 60.202206.en Subject to technical modifications.