



# TOX®-Production Systems



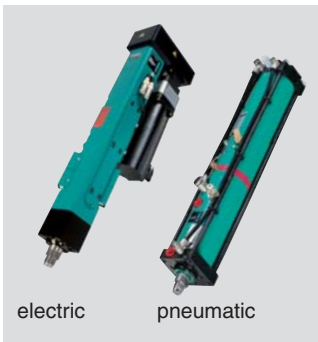
# That's us



## Quality, Competence, Safety – worldwide.

Only good ideas will make a company successful in the long run. With products like the pneumo-hydraulic drive TOX®-Powerpackage and our TOX®-Joining systems we have proven this since 1978. Based on a permanent further development and enlargement of our program, we created a modular design system which covers the requirements of most different industrial fields and allows the establishment of our technology. More than 700 highly qualified and motivated employees worldwide guarantee for future innovative solutions for your applications.

## That's what we produce



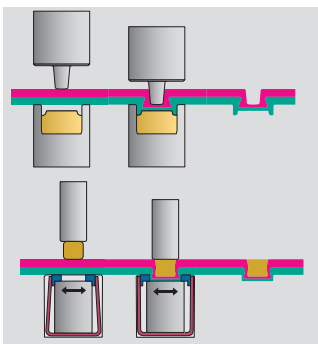
### TOX®-Drive Technology

The energy saving pneumo-hydraulic TOX®-Powerpackage with capacities ranging from 2 – 2000 kN for punching, bending, pressing, joining, welding ... . Or the smart electro-mechanical servo system TOX®-Electric-Drive from 0.25 – 400 kN.



### TOX®-Powerpackage Presses

The smooth workhorses from 10 – 2000 kN. Compact presses in C-frame, 2- or 4-column construction. Plus the complete TOX®-Fine-Press product range of bench top presses up to 57 kN press force.



### TOX® sheet metal joinings

The most effective joining of metal sheets is possible by the TOX® round point. Sheets of different materials and thicknesses, coated or uncoated/varnished can be permanently joined without any additives or heat treatments. The joining is supplemented by the patented TOX®-Clinch-Rivet.



### TOX®-Press-Fitting

Nuts, studs, rivets, screws

### Everything from one source:

- Handling technology
- Feeding technology
- Piercing technology
- Planning
- Development
- Design in 3D



### TOX®-PowerKurver

Power that moves around the curve, from 0.5 to 90 kN when clamping, positioning, holding, crimping, shearing, cutting, punching, embossing, bending, joggling etc. is required. Specially for difficult reachable points. Versatile thanks to its maximum opening angle of 90°.

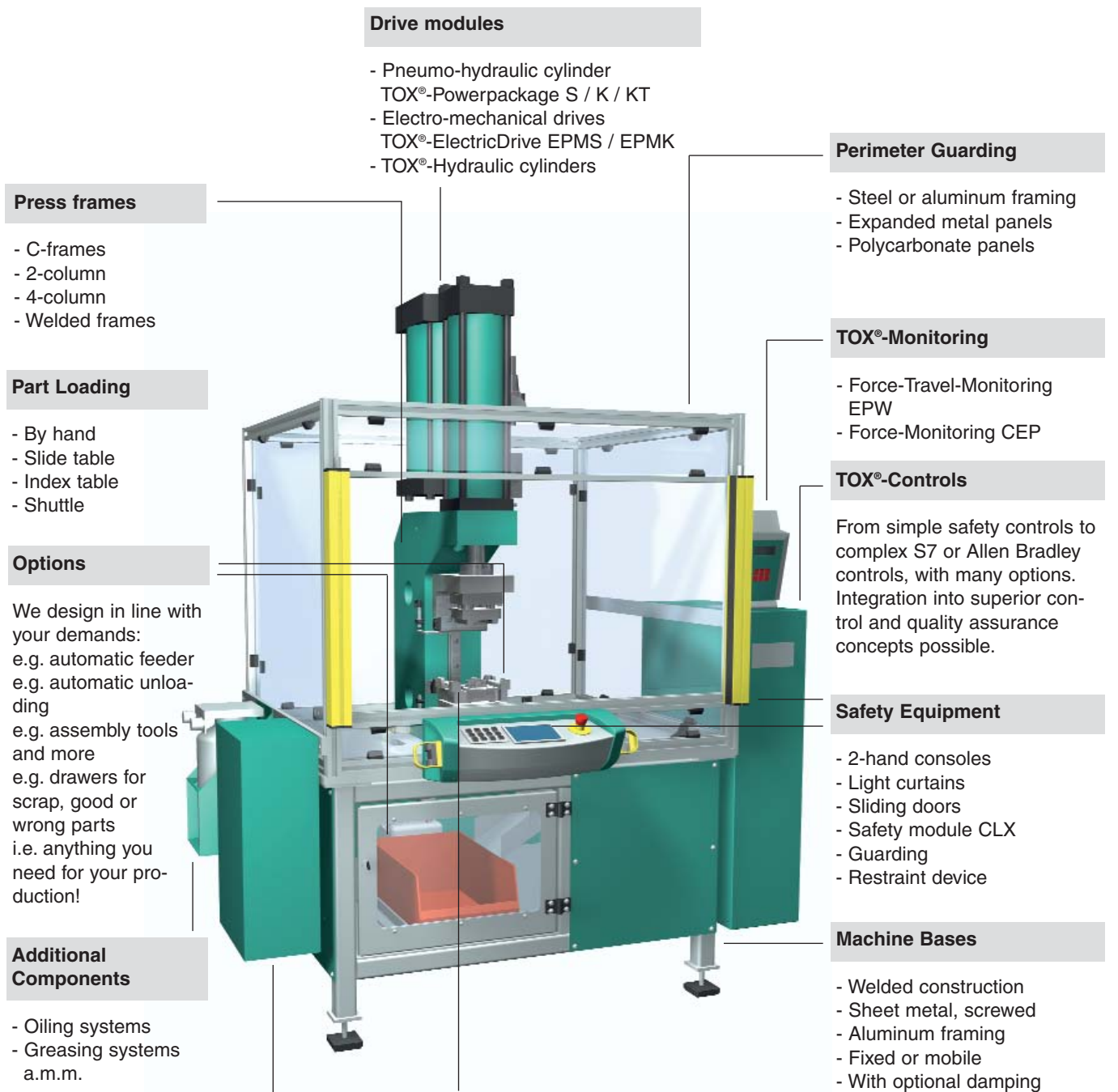


### TOX®-Punching and Coining

Whether punching tongs, punching frames or punching presses - our thoroughly thought out modular system offers complete solutions for all punching applications. Whether the TOX® marking, stamping Powerpackage, the suitable TOX® tongs, or the TOX® marking presses - also in this field we offer a flexible modular system.

# Modular Work Stations

## Professional application solutions per your requirements



### Drive modules

- Pneumo-hydraulic cylinder  
TOX®-Powerpackage S / K / KT
- Electro-mechanical drives  
TOX®-ElectricDrive EPMS / EPMK
- TOX®-Hydraulic cylinders

### Press frames

- C-frames
- 2-column
- 4-column
- Welded frames

### Part Loading

- By hand
- Slide table
- Index table
- Shuttle

### Options

We design in line with your demands:  
 e.g. automatic feeder  
 e.g. automatic unloading  
 e.g. assembly tools and more  
 e.g. drawers for scrap, good or wrong parts  
 i.e. anything you need for your production!

### Additional Components

- Oiling systems
- Greasing systems a.m.m.

### Pneumatic control components

### Standards and Guidelines

TOX®-Presses are safe: They meet all European standards and guidelines. Turnkey machines are CE conforming.

### Perimeter Guarding

- Steel or aluminum framing
- Expanded metal panels
- Polycarbonate panels

### TOX®-Monitoring

- Force-Travel-Monitoring EPW
- Force-Monitoring CEP

### TOX®-Controls

From simple safety controls to complex S7 or Allen Bradley controls, with many options. Integration into superior control and quality assurance concepts possible.

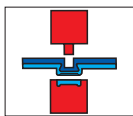
### Safety Equipment

- 2-hand consoles
- Light curtains
- Sliding doors
- Safety module CLX
- Guarding
- Restraint device

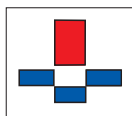
### Machine Bases

- Welded construction
- Sheet metal, screwed
- Aluminum framing
- Fixed or mobile
- With optional damping elements
- Height adjustment
- For standing/seating operator
- Foot rests a.m.m.

### Tooling



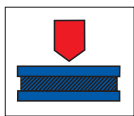
Clinching, TOX®-sheet metal joining



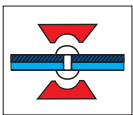
Punching, Piercing



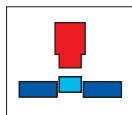
Coining, Marking, Stamping



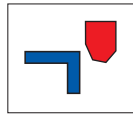
Pressing, Compressing



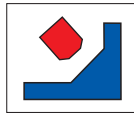
Riveting, Crimping, Flaring



Assembling, Press-fitting, Mounting



Bending, Edging

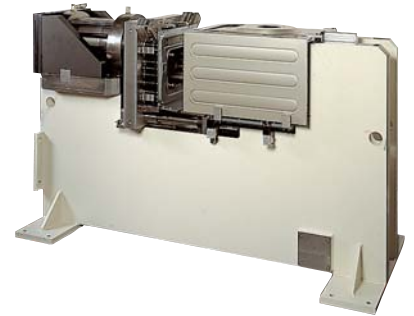


Clamping, Tensioning, Peening

# We work in partnership with your integrator

For further examples of projects, please visit us at [www.tox-en.com](http://www.tox-en.com)

## White goods industry: Technology components for your plant manufacturer



Manufacturers of white goods worldwide rely on TOX® tools and TOX® components in their plants.

## Automotive industry: Technology, competence and responsibility for production modules



Engine bonnet  
100 % aluminium  
100 % TOX® joining technology  
100 % TOX® tongs and components

## Other industrial applications



and even more

**Special machine station with TOX® Multi-point C-frames** adapted to individual requirements. Numerous variations have already been realised.

**TOX® Process Monitoring System**

An absolute must for your quality control process. Available in 1 to 12 channel units, all combinable.

You need **flexible manufacturing** – and we provide the solutions built with modular components from the TOX® standard product range.



**TOX®-Fastener-Insertion**

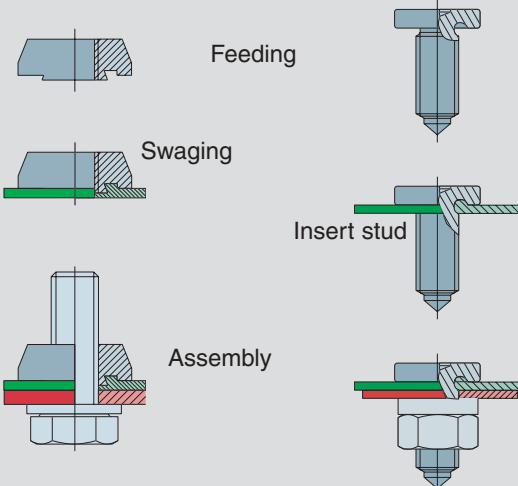
For each task a suitable solution.

Working closely together with the system supplier, we can offer you a truly synergistic partnership with a complete system solution, which incorporates the latest technical features for optimum manufacturing. This assures both, top quality and low cost.



Nut Insertion

Stud Insertion



Reinforcement brackets

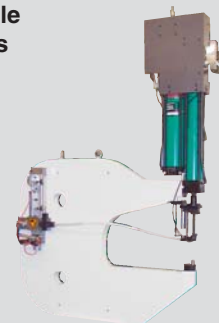


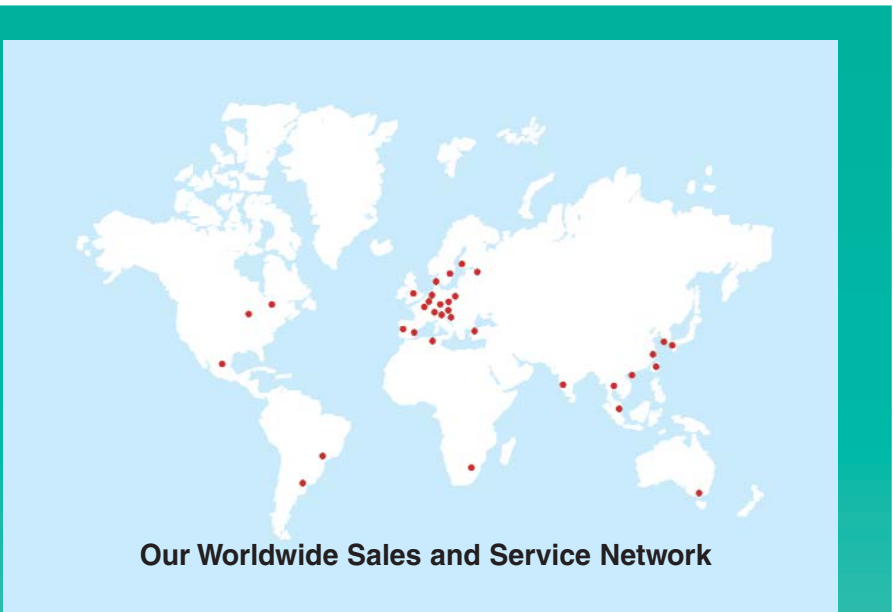
Fender Fastening element

Stationary press



Mobile press





**Product Range**

TOX®-Powerpackage



TOX®-PowerKurver



TOX®-ElectricDrive



TOX®-FinePress



TOX®-Presses



TOX®-Controls  
TOX®-Monitoring



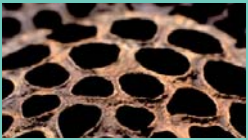
TOX®-Joining-  
Systems



TOX®-Tongs



TOX®-Punching  
TOX®-Coining



TOX®-Press-Fitting



TOX®-Production  
Systems



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