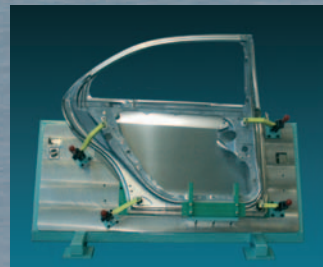
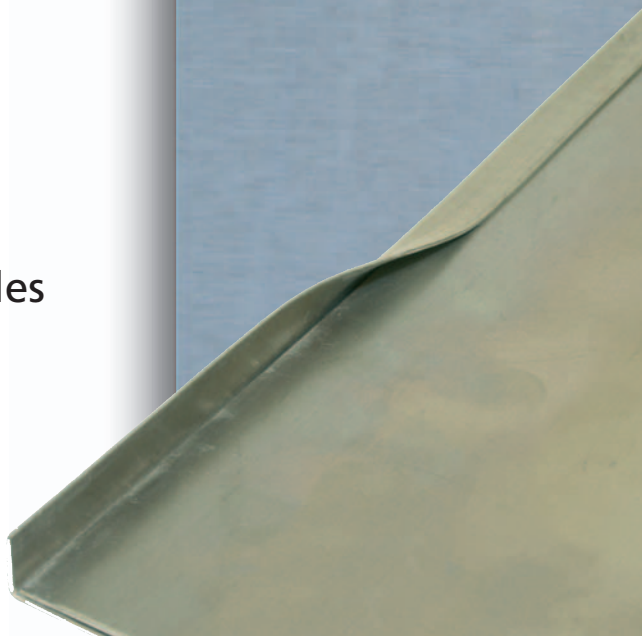


Eckold Seamclosing Technique



® for sheet metal and profiles



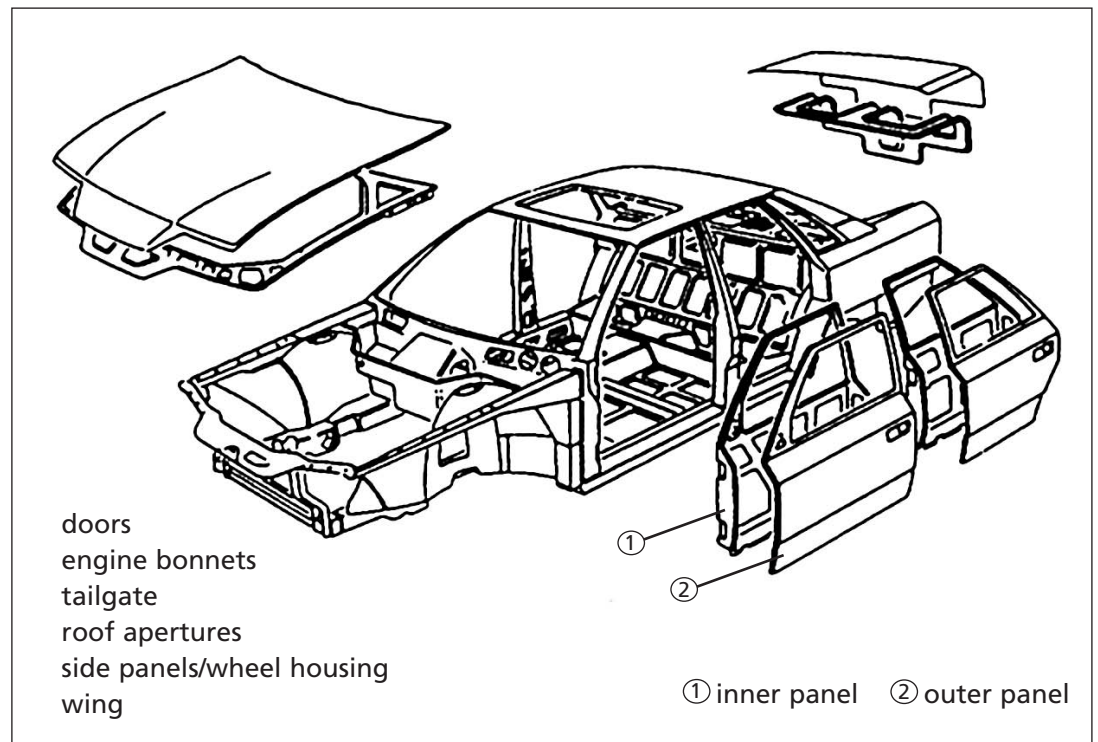
Seamclosing on car components

Eckold Seamclosing Technique: Top quality for form-fit joining of mounted parts.

Seamclosing is a proven, mechanical joining method used to join chassis parts, etc. with one another in a form-fit fashion. This technique is employed in the automotive industry, e.g. for fabrica-

tion of externally mounted parts. Here, the Eckold seamclosing technique offers a rational, economical and space-saving alternative to press tools and fully automated seamclosing stations.

Fields of application



Target group

Lines of business: Automobile manufacturer
Purveyor for automobile industry
Sheet fabricating industry

Fields of application: Prototype production
Spare parts production
Small- and medium-lot production

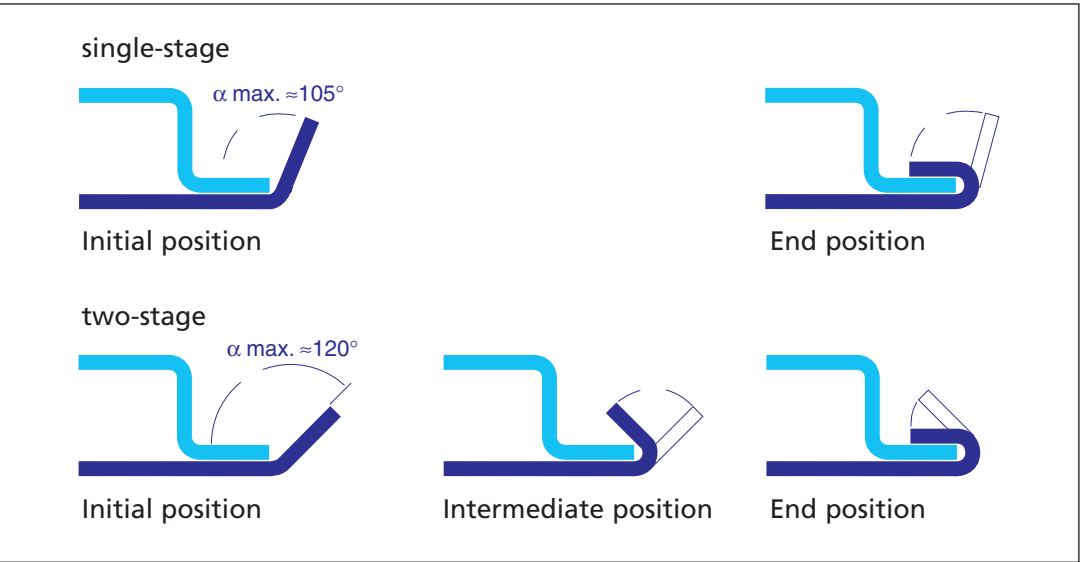
Method

The Eckold seamclosing technique is a method in which a hydraulically driven seam-closing device is guided manually into a specific fixture.

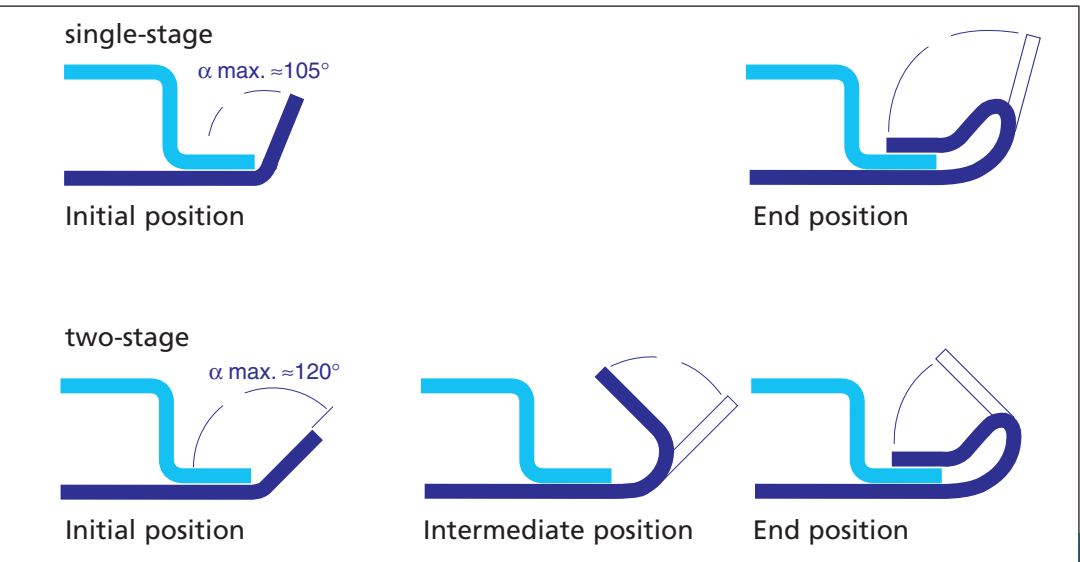


The principle

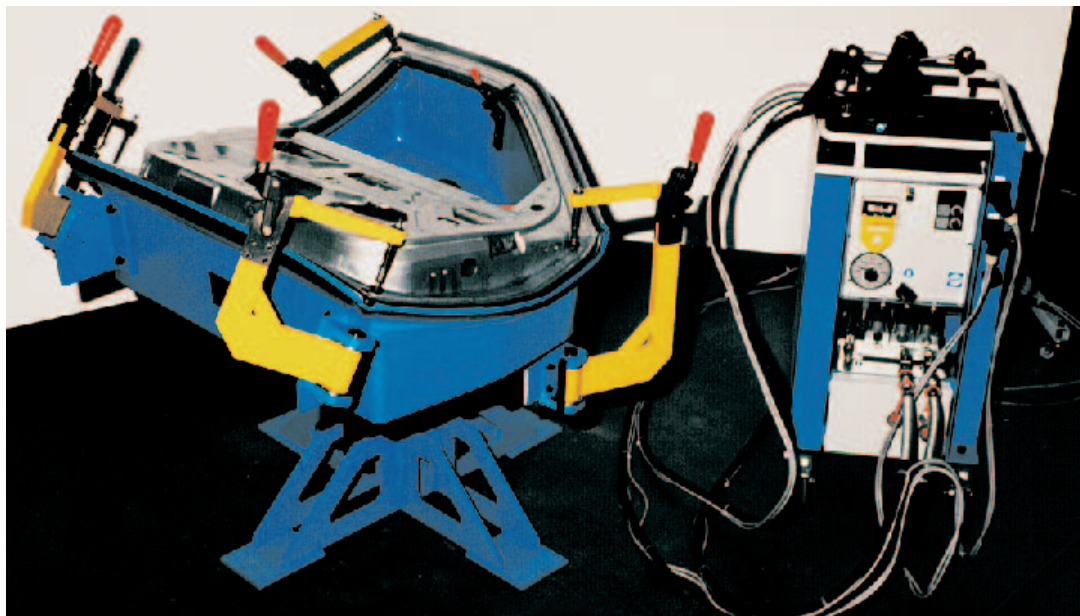
Seamclosing / flat seam



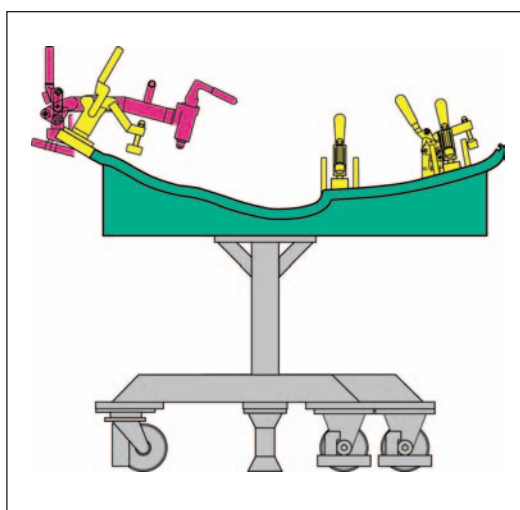
Seamclosing / rope seam



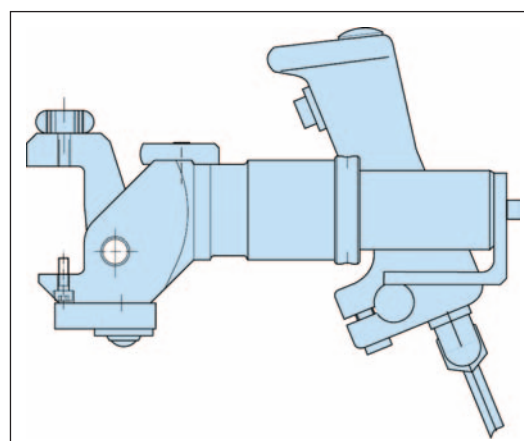
Components,
belonging to
a complete
seamclosing
station



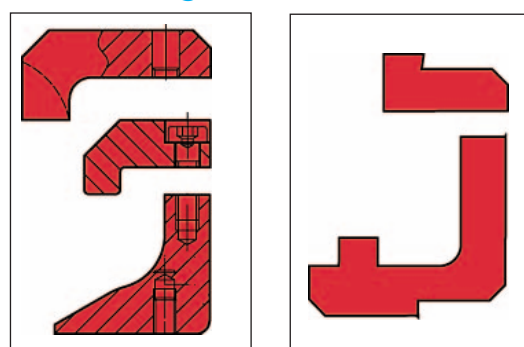
Seamclosing
fixture



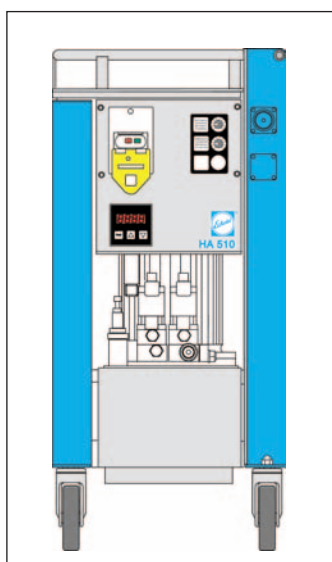
Portable seamclosing pliers



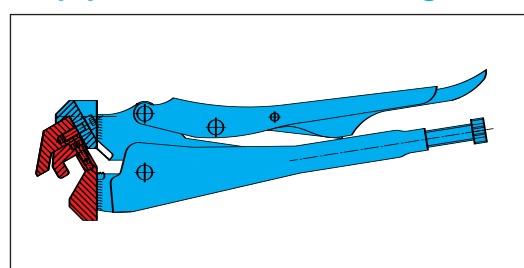
Seamclosing inserts



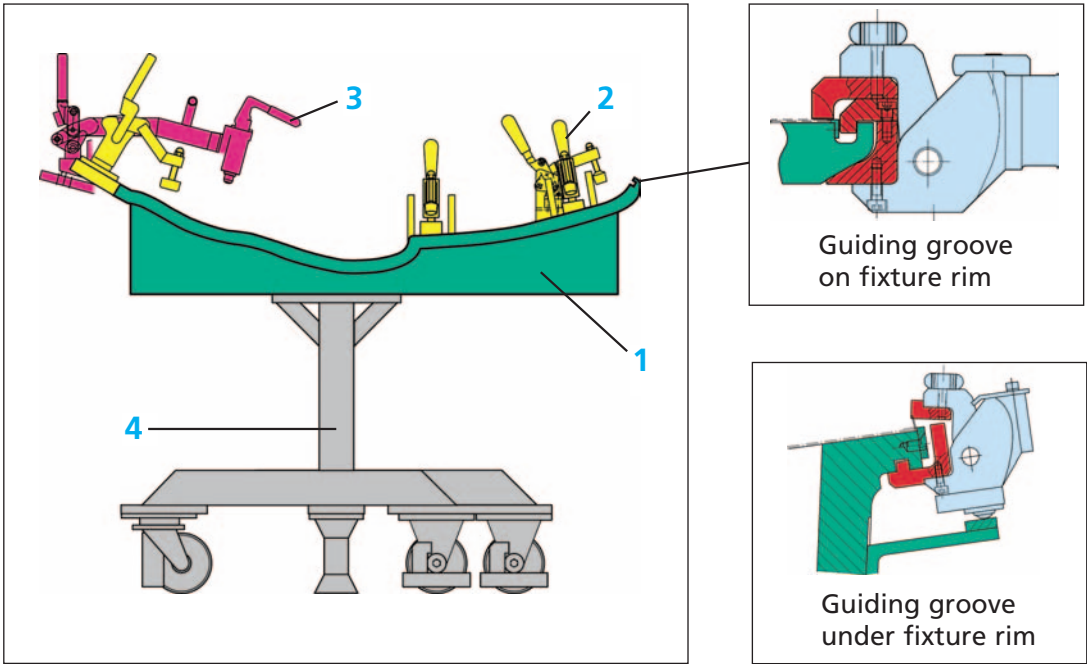
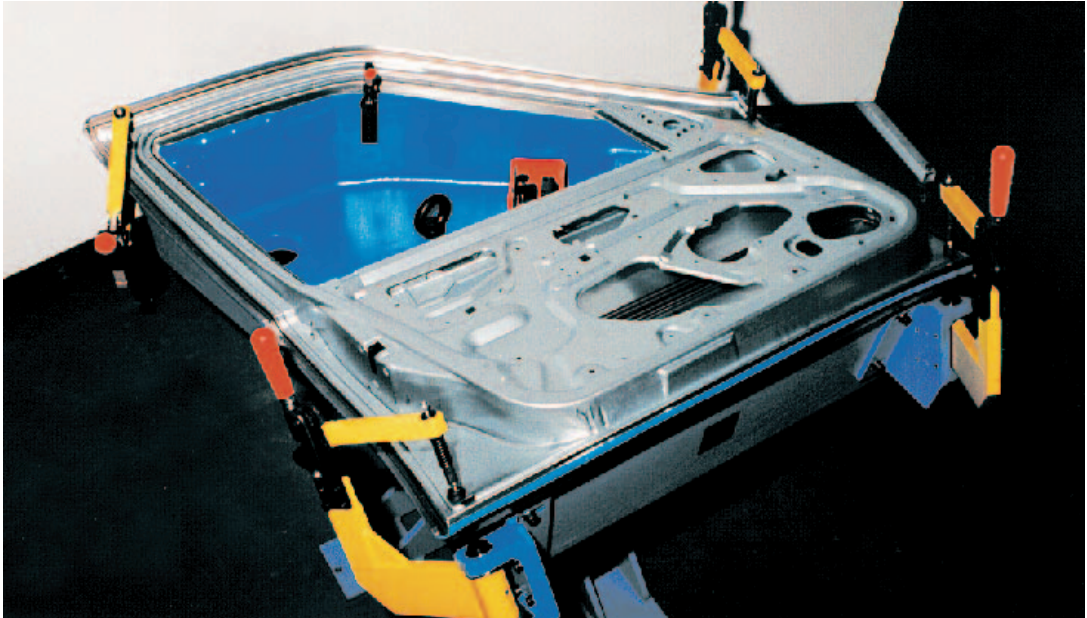
Hydraulic
drive unit



Grip pliers with seamclosing insert



Seamclosing
fixture
Construction
and components



1 Seamclosing guiding frame

Component-specific, cast frame. Equipped with a milled contour support in the machining region and guiding groove for seamclosing pliers.

2 Clamping units

Clamping of the components to be machined in the seamclosing guiding frame.

Options: Rigid clamps
Swivel clamp

Clamping parts: Rubber
Plastic
Steel

3 Centering units

For alignment of the parts to be machined with one another and/or to the seamclosing guiding frame.

Options: Rigid centering units
Swivel centering units

4 Basic frame

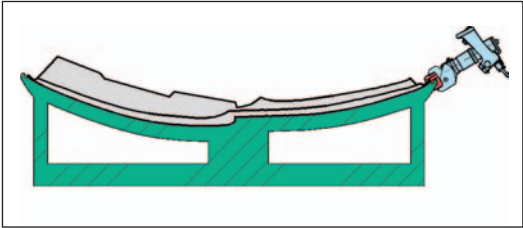
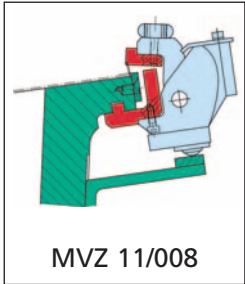
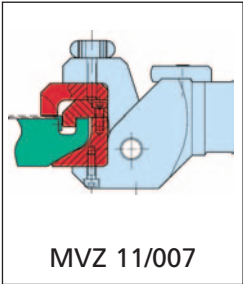
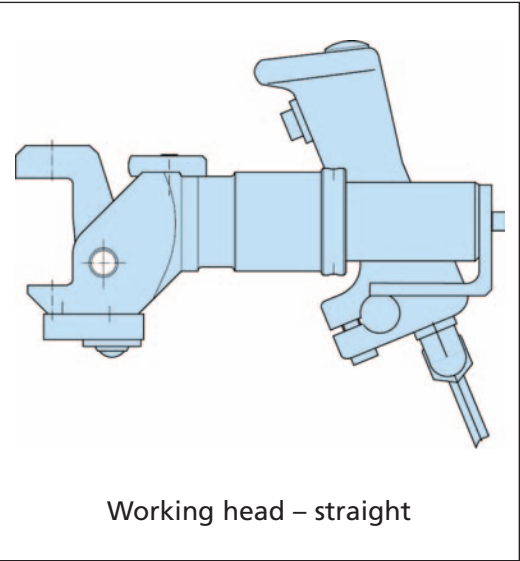
Options: Base design
Frame design
Table design

(optional with base plates or rollers)

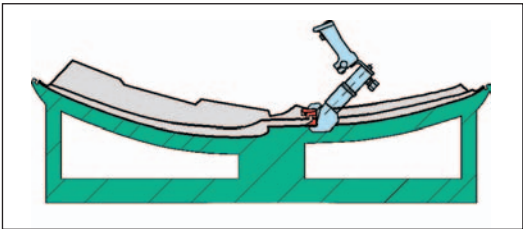
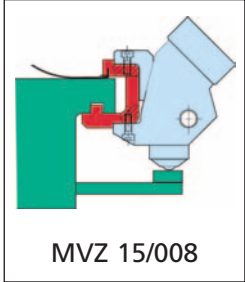
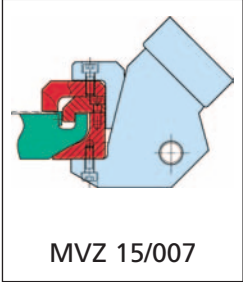
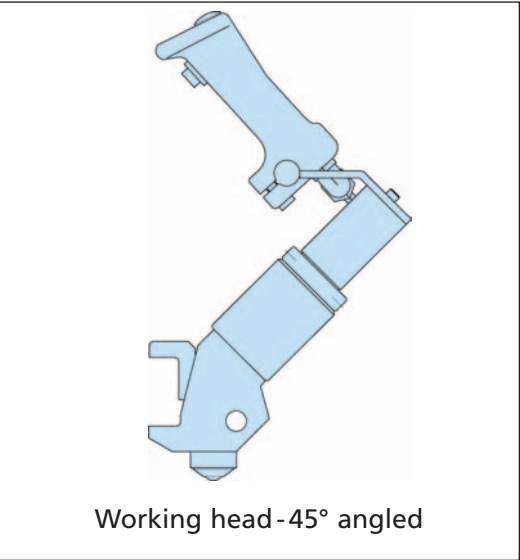
Portable seam-closing pliers

Depending on the seamclosing task at hand and the position of the pliers guiding groove on the seamclosing guiding frame, different types of pliers are available for optimal handling.

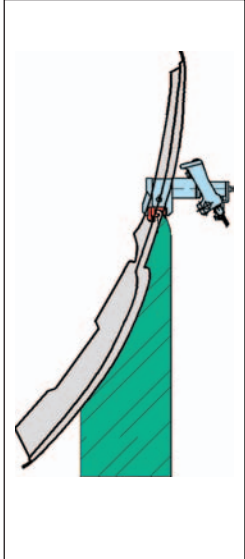
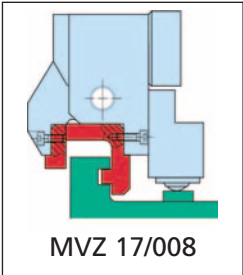
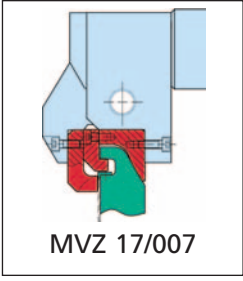
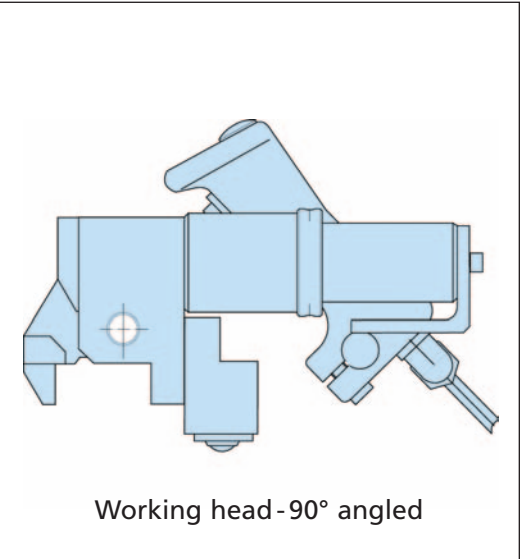
MVZ 11



MVZ 15



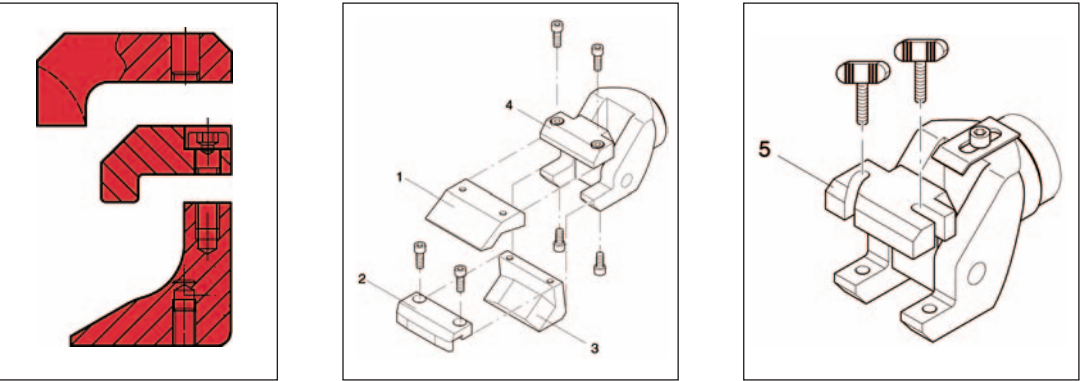
MVZ 17



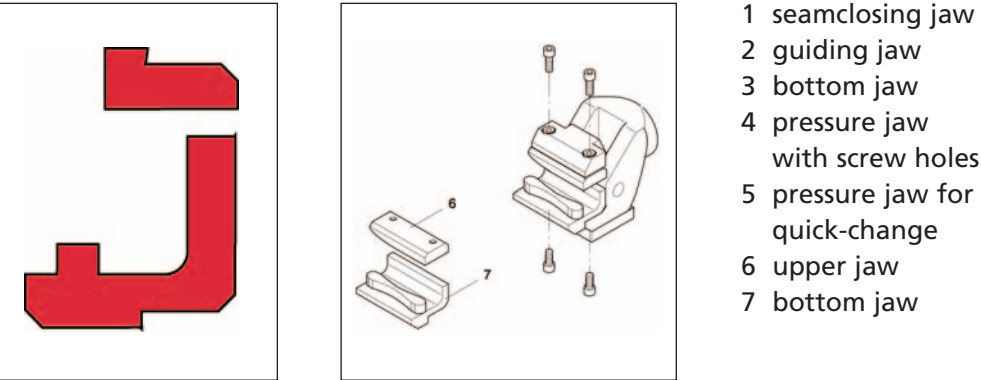
Seamclosing
inserts

We design and fabricate specific seamclosing inserts, based on the seamclosing task at hand and on the design and position of the pliers guiding groove.

Seamclosing insert, guiding groove top, consisting of 3 parts

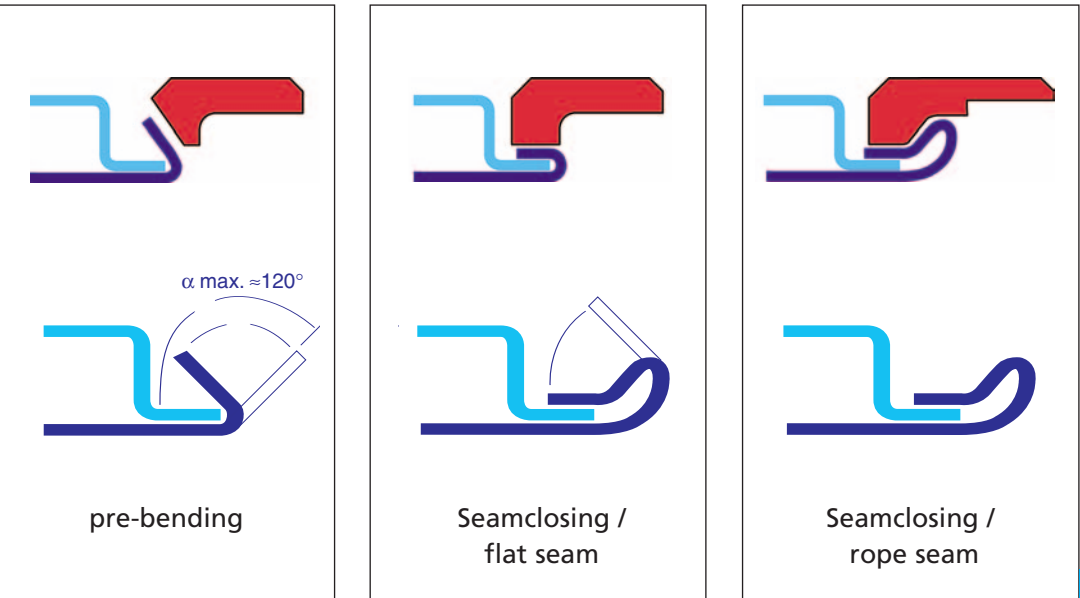


Seamclosing insert, guiding groove bottom, consisting of 2 parts



Seamclosing
jobs

Whereas the bottom jaw and/or the guiding jaw and bottom jaw depend on the shape and position of the guiding groove, the seamclosing jaw and/or the top jaw must be designed in accordance with the defined seamclosing task. This means that the top jaw, or seamclosing jaw, is designed with respect to pre-bending or seamclosing.



Hydraulic drive units

Eckold hydraulic units are available for driving portable pliers of design series MVZ 11, 15 and 17.



HAT 520



HA 510



Hydraulic drive unit in special design

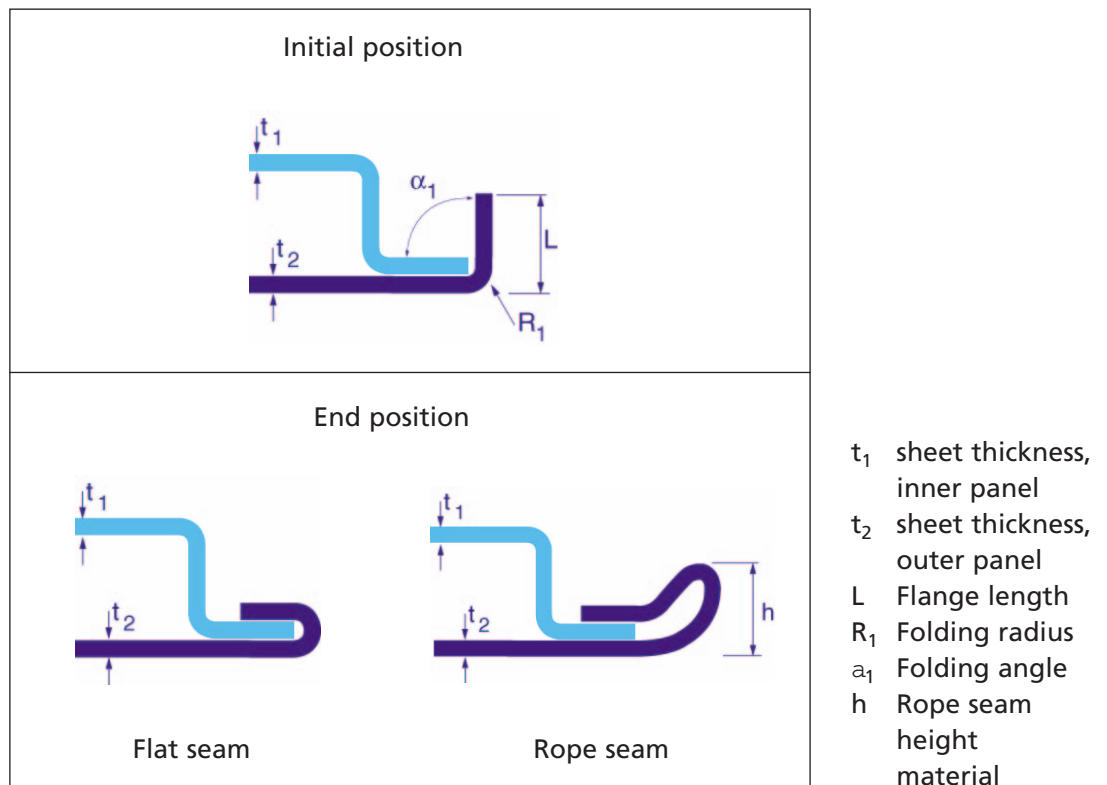
Auxiliary equipment

Often it is not possible to work with portable seamclosing pliers in corners, with skips in the contour, or at the beginning/end of the seam. Caulking tools and grip pliers with special seamclosing inserts are frequently the best remedy for work in these areas.



Parameter

In addition to the specified component contour and seamclosing areas, the following parameters are also relevant for evaluation of the seamclosing task at hand.



Efficiency and advantages

Eckold seamclosing technique for prototype production, pre-production, small-lot production and spare parts production

- economical
 - low investment costs
 - minimal space requirements
 - short set-up times
 - low power consumption
- flexible
 - compatible standard components
 - can be installed anywhere
- unique
 - optimal quality
 - easy to use
 - versatile for a number of uses

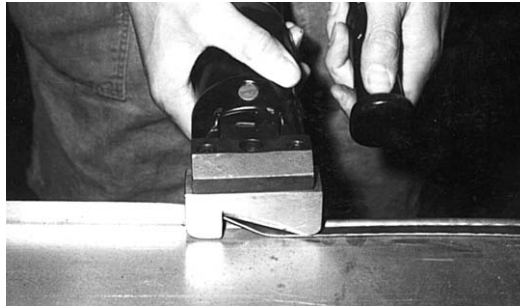
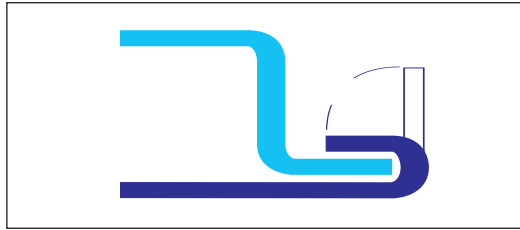
Services

As a partner of the automotive industry we offer you:

- competent advice
- design and fabrication
- on-site service
- after-sales service

**Optimum
production
possibilities**

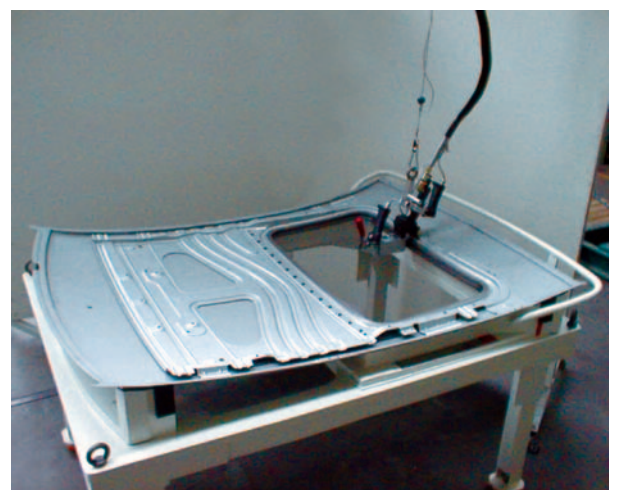
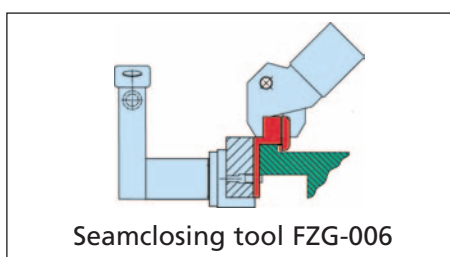
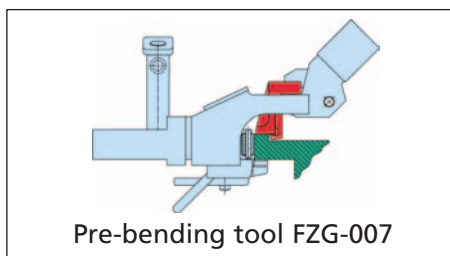
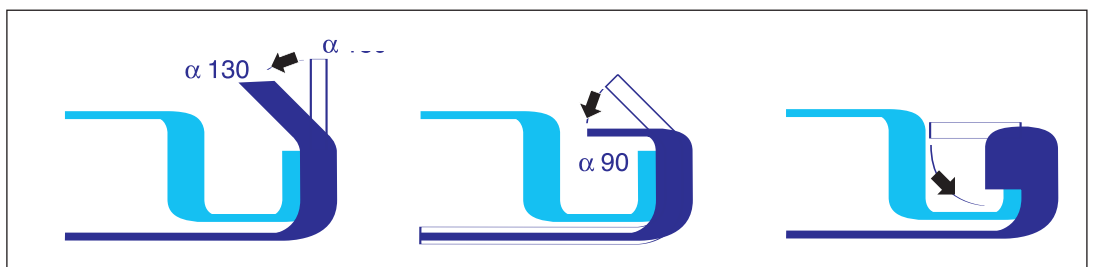
Seamclosing without fixture



Example: fire-proof door

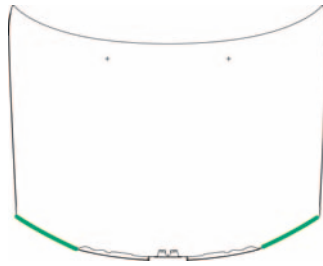
**Special
applications**

Seamclosing in fixtures, shown here for a section of an automobile sun roof

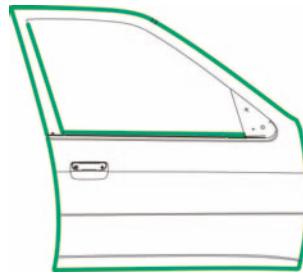
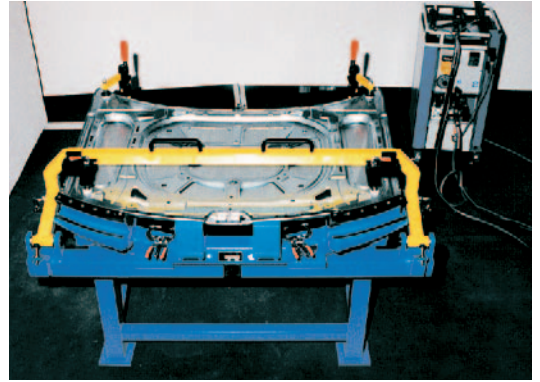


Example: sun roof

Examples for application



Engine bonnet



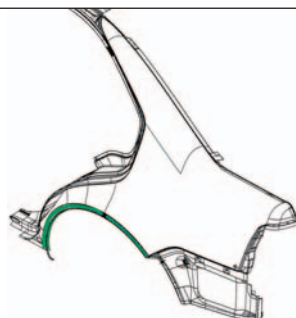
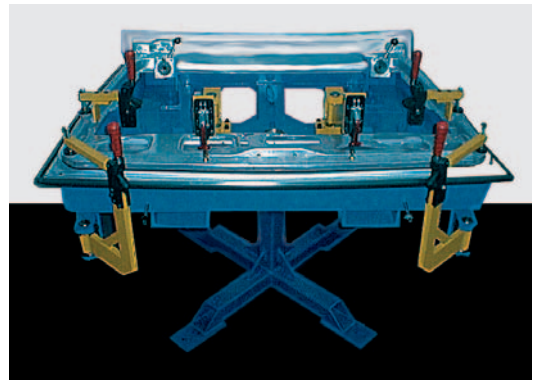
Front door



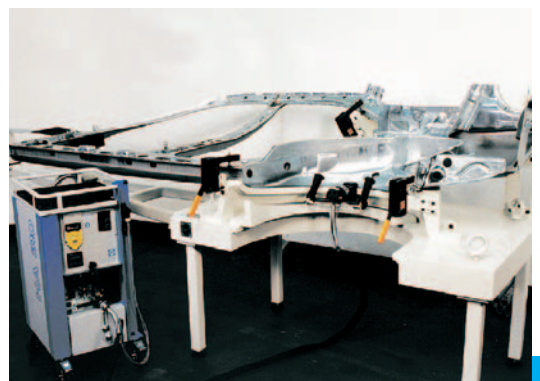
Rear door



Tailgate



Side panel with wheel house



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