

BOLLHOFF

NEW

RIVCLINCH® Automation E

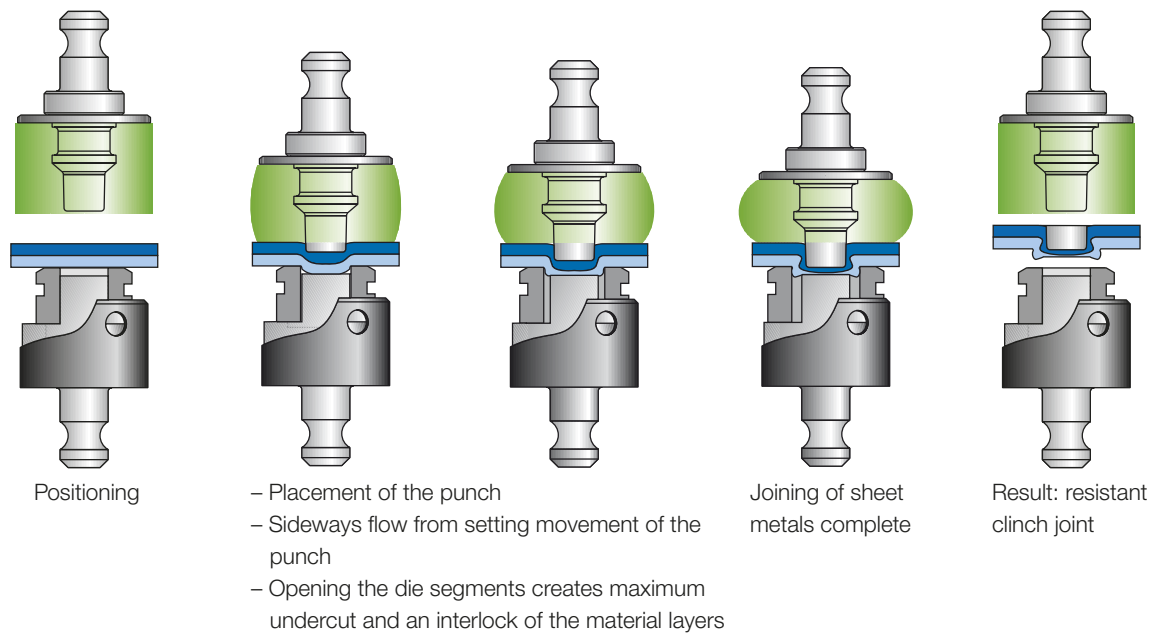
When clinching electrifies
— energy-efficient, flexible and modular



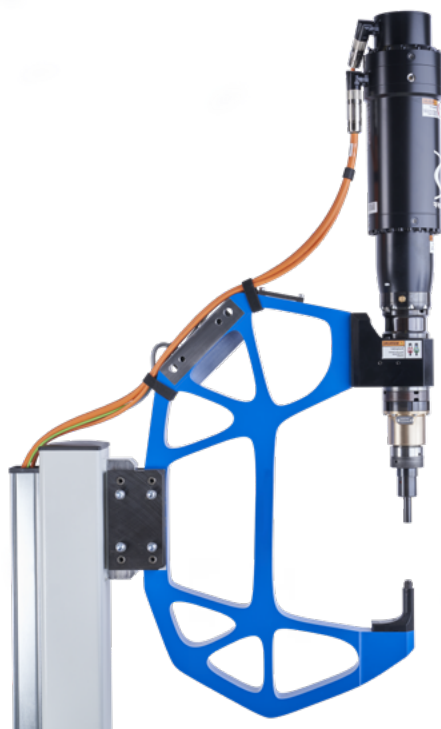
RIVCLINCH® Automation E

Clinching is a procedure to join sheet metals using punctual cold forming — without fasteners or filler materials. Joining is realised through the engagement of two or more metal layers. The RIVCLINCH® technology is a cost-effective, environmentally friendly method to join steel and stainless steel sheets, also aluminium and/or non-ferrous metals. As of now, we are also offering this efficient procedure as a fully automated version.

The joining process in short



Benefit from the new key facts



- Modular electrical lightweight system
- High joint quality and a wide application range due to
 - dies with spring segments
 - path-controlled process with adjustable holding times that allows maximum undercut values
- Low-maintenance electrical drive with 67 kN force capacity
- Compact, robust and reduced-weight with C-Frame Select
- Modular design with mechanical strippers and punches in various sizes for different joining forces
- One supply unit for different joining technologies
 - self-pierce riveting and clinching
- Flexible due to quick and easy retooling to vary between the RIVSET® and RIVCLINCH® technology
- Wide application range (aluminium – steel – stainless steel)

RIVCLINCH® Automation E

Technical data:

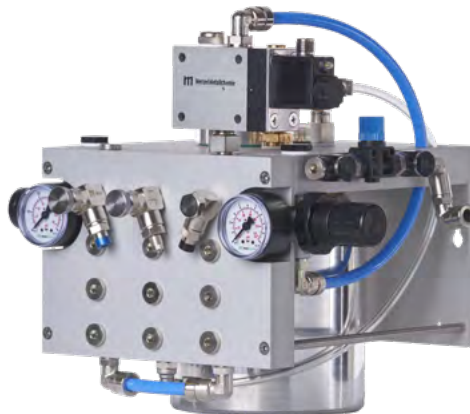
- Setting tools from 50 kg
 - according to C-frame size
- Process cycle from 1.0 sec.
 - according to clinching stroke
- Great variety of punches, dies and mechanical strippers – according to application
- High repeatability of the residual bottom thickness
 - according to application
- Online process monitoring for every cycle

Joint modules for RIVCLINCH® and RIVSET® Automation



You can select the respective control software from the HMI software menu; the hardware is the same.

Optional equipment



- Spraying device for dry workpieces to achieve a long service life
- Spray nozzle positioned on the setting tool (C-frame)
- Adjustable spray nozzle bracket (minimum interference)
- Adjustable spray volume
- Valve and reservoir with external positioning (outside the robot cell)



Scope of application

- Automotive and supplier industry
- Heating, ventilation and air conditioning
- Building technology
- Domestic appliances (white goods)

Interested? Please do not hesitate to contact us.



RIVCLINCH® metal joints without fastener
Catalogue No 6782

<https://www.boellhoff.com/en/pdf/rivclinch>



RIVSET® Automation E – when modern multi-material designs electrify, Catalogue No 6712

<https://www.boellhoff.com/en/pdf/rivset-automation-e>

BÖLLHOFF

Passion for successful joining.

Böllhoff Group

Innovative partner for joining technology with assembly and logistics solutions.

Find your local partner at www.boellhoff.com or contact us at fat@boellhoff.com.