Kerb Konus

Tuk-Rivet®
Punched rivet system

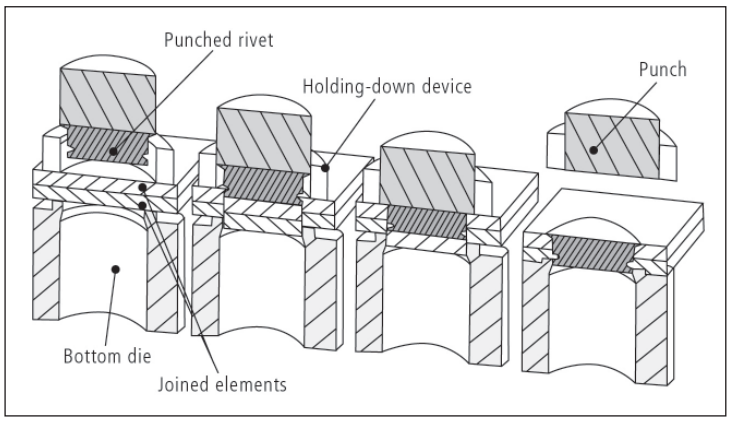
The process

Punch riveting with a solid rivet permits one or more joined elements such as semi-finished product types, sheet, profile and cast components to be fastened together.

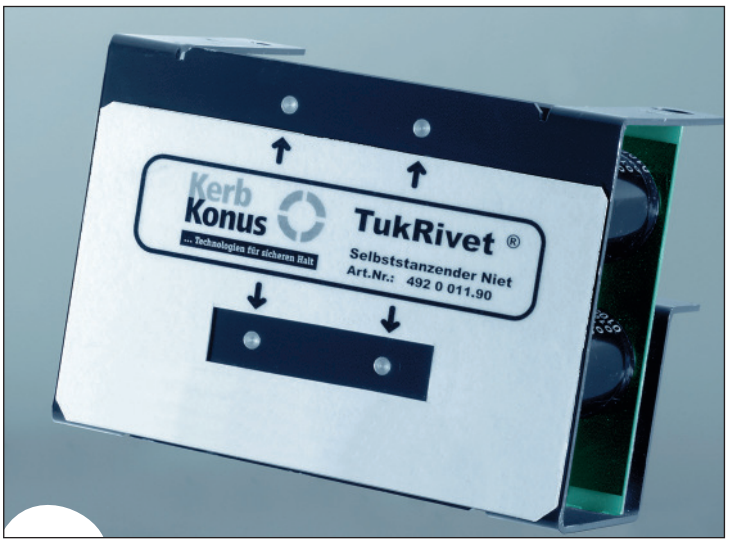
During this process, the workpieces are clamped to the bottom die by the hold-down device. They are then punched by the solid Tuk-Rivet that acts at the same time as the blanking die. When the stop-point is reached both the hold-down device and rivet punch are flush with the workpiece surface.

As a result of the compressive force applied by the rivet punch and the hold-down device the shape of the bottom die forces material into the peripheral shank groove in the Tuk-Rivet.

This acts against the flow of material generated by the rivet punch and hold-down device.



Schematic sequence diagram



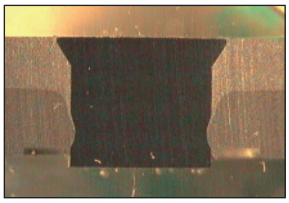
Field of application

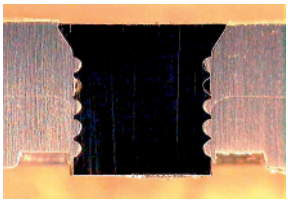
Wherever connections of thin metal mouldings with a high loading capacity have to be produced quickly, the Tuk rivet is the ideal fastening element.

- For joining workpieces made of aluminium to steel as well as rustproof and acid proof sheet steels.
- For joining thin-walled components made of aluminium to sheet steels.
- For joining thick and thin sheets, whereby the lower sheet should have a minimum thickness of 0.9 mm.

Product characteristics

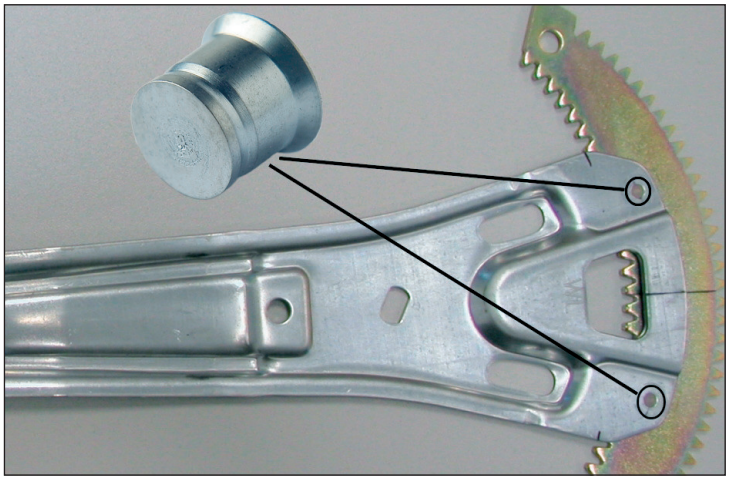
- Accurate turning quality
- Largely flush finish on both sides
- Self-punching, no hole punching problems, reduced installation costs
- High-strength connection
- Ideal for plastic-coated or surface-treated parts
- Suitable for steel, stainless steel and light alloy sheet
- Replaces spot welding, no environmental pollution
- Integration possible in production lines, no separate workplace required
- The rivet head is covered by painting, no additional work stage required
- Hybrid construction possible
- Greater material thickness difference can be processed with multi-zone rivet

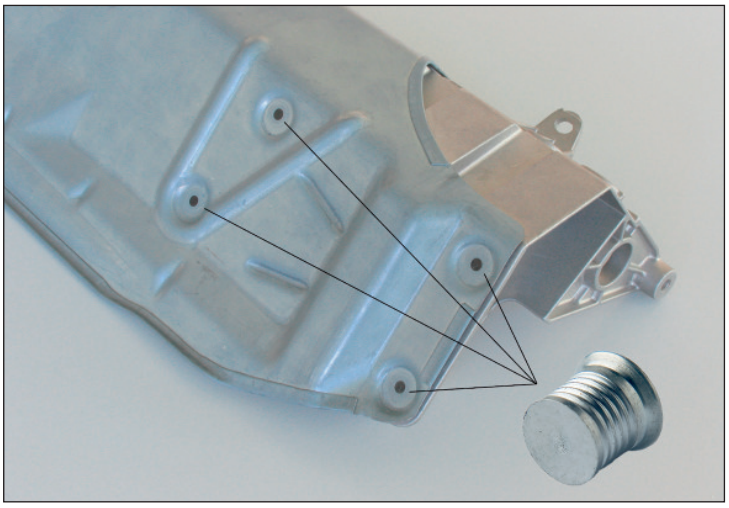




Punched rivets in application ...

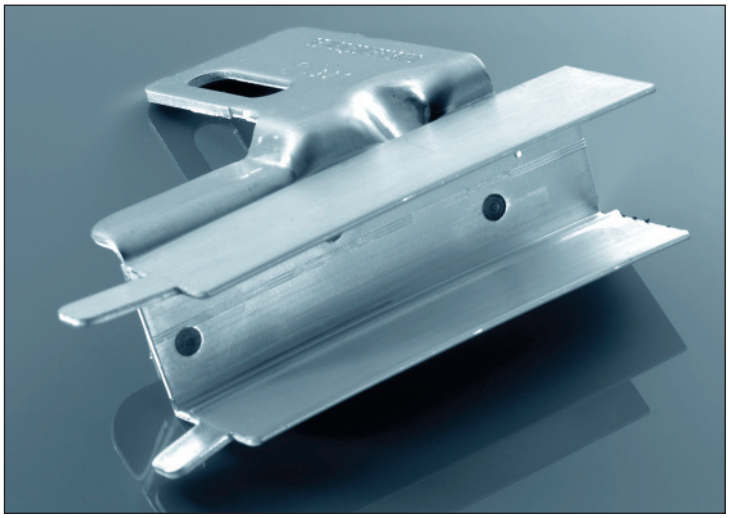
Window lift of galvanized steel (zinc coated).





Heat protection shield connection of sheet metal with aluminium diecast.

Guide rails in aluminium for electric windows.



Kerb Konus

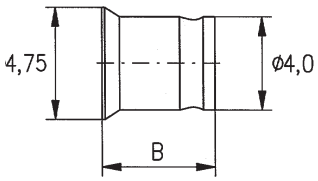
Punched rivet
Multi-zone punched rivet
Self-riveting

Tuk-Rivet®
Works standard
492 / 492 1 / 493

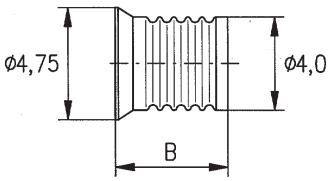
Application

Tuk-Rivet is a punched rivet made of rust and acid proof material or steel for the manufacture of highly load resistant riveted joints in thin section components.

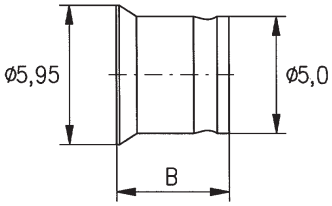
Works standard 492 0



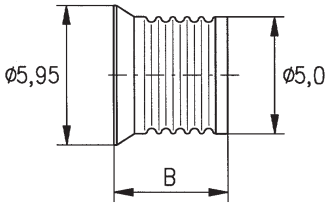
Works standard 492 1



Works standard 493 0



Works standard 493 1



Article-number	For total sheet thickness	Length B
49. .00 001 ...	1,8 mm – 2,1 mm	2,1
49. .00 002 ...	2,2 mm – 2,4 mm	2,4
49. .00 003 ...	2,5 mm – 2,7 mm	2,7
49. .00 004 ...	2,8 mm – 3,0 mm	3,0
49. .00 005 ...	3,1 mm – 3,3 mm	3,3
49. .00 006 ...	3,4 mm – 3,6 mm	3,6
49. .00 007 ...	3,7 mm – 3,9 mm	3,9
49. .00 008 ...	4,0 mm – 4,2 mm	4,2
49. .00 009 ...	4,3 mm – 4,5 mm	4,5
49. .00 010 ...	4,6 mm – 4,8 mm	4,8
49. .00 011 ...	4,9 mm – 5,1 mm	5,1
49. .00 012 ...	5,2 mm – 5,4 mm	5,4
49. .00 013 ...	5,5 mm – 5,7 mm	5,7
49. .00 014 ...	5,8 mm – 6,0 mm	6,0
49. .00 015 ...	6,1 mm – 6,3 mm	6,3
49. .00 016 ...	6,4 mm – 6,6 mm	6,6
49. .00 017 ...	6,7 mm – 6,9 mm	6,9
49. .00 018 ...	7,1 mm – 7,2 mm	7,2
49. .00 019 ...	7,3 mm – 7,5 mm	7,5

Minimum thickness for lower sheet: ≥ 0,9 mm

Example for locating the article number

Stainless steel Tuk-Rivet for 3.0 mm total sheet thickness, works standard 492 0:
Tuk-Rivet 492 000 004.900

Material

Steel, hardened, zink/nickel-plated, transparent passivated — Article no. (**fourth** group of digits)... 143
Steel, tempered, zink/nickel-plated, transparent passivated — Article no. (**fourth** group of digits)... 243
Light-alloy, heat-treated — Article no. (**fourth** group of digits)... 700
Stainless steel, hardened — Article no. (**fourth** group of digits)... 900
Other finishes upon request

Tolerances

mean as per ISO 2768