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Cost reducing package from Arnold

The RIVTEX clinch system reduces costs and increases quality – system partner Arnold & Shinjo supplies intelligent tool and process technology

(Forchtenberg, Germany) Arnold Umformtechnik GmbH, the fastener specialist, has explored fresh avenues in marketing the RIVTEX clinch system. When combined with the intelligent tool technology and process system produced by its subsidiary, Arnold & Shinjo, the RIVTEX range, consisting of clinch studs and self-piercing nuts, truly is a cost-reducing package.

The RIVTEX clinch system is suited to automated manufacturing – replacing the welded bolt and nut technology previously used in the manufacture of ready-to-fit steel components. It protects the surface structure of steel or

aluminium sheets less than a millimetre thick, and prevents the corrosion damage usually produced by welding.

In particular the system cuts cost in terms of assembly times. And, when the specially adapted tool technology developed by subsidiary company Arnold & Shinjo is also used, RIVTEX fasteners can be applied during the manufacturing process as the sheet steel is



The Arnold Group is a wholly owned subsidiary of the Würth Group, which, with over 50.000 employees and with 314 companies world-wide operates on a global basis with earnings of over 6 billion euros.

stamped and pressed. The system achieves cycle speeds up to ten times faster than with welding. The work process can be carried out inside the pressing and stamping unit, thus saving at least one work operation.

Cost comparison between welding and piercing

	Example M6 nut	
Material costs per nut	0,02 €	0,0357 €
Assembling costs per nut		
Assembling time (approx. 12 sec)	0,2 min	
Costs per minute (approx. 45,-€/h)	0,75 €/min.	
production costs	0,15 €	
tool wear	0,00155 €	0,00085 €
Costs per nut	0,17155	0,03655

Cost saving per nut: 0,135 €

A stamping part with 4 piercing nuts and a yearly production quantity of 150.000 parts means a cost saving of 81.000 € / year

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