

Hightech in sheet metal



ARNOLD & SHINJO Piercing nuts in the office furniture industry

A further example for the multifarious fields of application for piercing nuts is the use in the office furniture industry.

A European manufacturer of high-grade office furniture has decided to use piercing nuts because he was not satisfied with the process reliability and the quality of the originally used welding nuts.

The company has found the piercing nut to be an alternative meeting the requirements expected from a fastening system providing process-reliability and cost-effectiveness.

- No punched hole required, i.e. no offset between nut and hole

- Accurately defined positioning of the nut

- No thermal effect on the sheet material which could alter the microstructure.

- No weld sputter in the thread and spoiling of the surface

- No expensive follow-up work required

- Reduction of process time

- No stress on the environment due to vapours, gases, or noise

In close cooperation with the customer Arnold & Shinjo developed a tailor-made solution meeting perfectly the requirements of the customer.

Arnold&Shinjo is a 100 percent subsidiary of the global Würth Group with 54,900 employees and 375 companies in 83 countries and global sales of over 7.74bn Euro.



Two piercing nuts in the base plate for height-adjustable office desk tops

The two piercing nuts are fastened in one stroke to the component, which is fed-in automatically and located in a special jig.

The nut piercing unit, connected by means of a column frame to the power unit, is integrated into the existing production line.

The piercing nuts are fed into the system from refillable magazines, which can be replaced without problems by a vibratory spiral conveyor in case more capacity is required.

After a period of one year of trouble-free successful operation it is now intended to use piercing nuts also on other parts.

In addition, one is also considering installing a universal C-Frame unit which, as a stand-alone solution, could be used to process the most differing components and nut sizes.



Feeding of the piercing nuts from refillable magazines



Nut piercing unit integrated into the production line

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