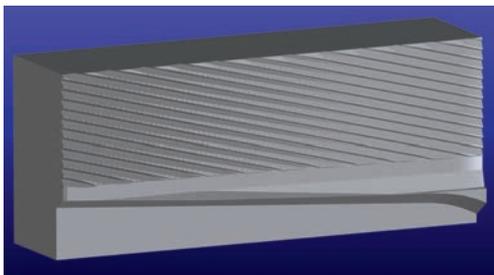


■ 14th International DELTA PT® Licence Meeting 2014

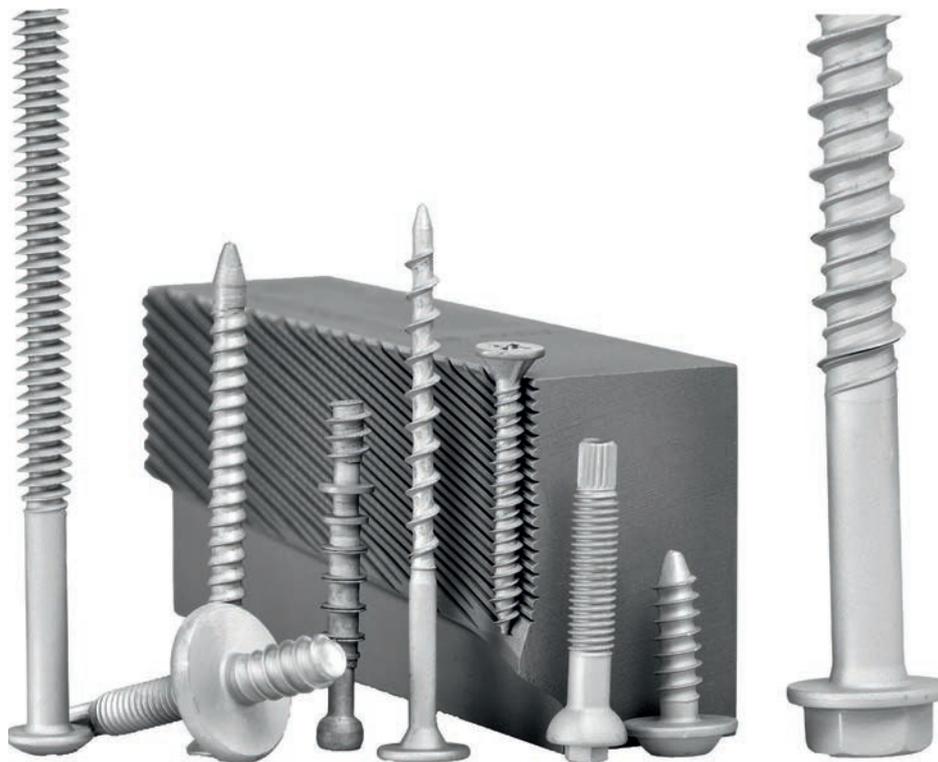
For Further Developed DELTA-PT® Thread Rolling Dies TYPE HILGELAND

These questions and many others were debated at the 14th International DELTA PT® Licence Meeting of EJOT in Freising. EJOT licence holders from all around the world came together at the meeting from the 1st to the 2nd of September, 2014, also among them were WAFIOS Umformtechnik HILGELAND thread rolling die specialists. These experts intensively discussed and exchanged views at the meeting concerning new technologies and developments. Naturally the focus was on DELTA PT®, but also on solutions such as the self-tapping ALtracs® screws for light metals.



WAFIOS Umformtechnik is amongst the leading EJOT licence holders in the field of thread rolling dies. The two companies have been close partners for decades. EJOT values the over 100 years experience and innovative abilities of the Wuppertal specialists in forming machines and thread rolling dies. Thanks to the planning tools of WAFIOS Umformtechnik, customer can, for example, examine the industrial feasibility of new profile geometries in advance.

The EJOT DELTA-PT® screw is an all-rounder for secure and trouble-free direct screw fastenings in thermoplastic synthetic materials. In order to manufacture these special and long-lasting fasteners, special thread rolling dies are required. But what are the important details? What is crucial for quality?



**National Industrial Fastener
& Mill Supply Expo**



**North America's Largest
October 22-24, 2014
Sands Expo Center
Las Vegas, NV USA**

WAFIOS Umformtechnik
at the National Industrial
Fastener & Mill Supply Expo,

from 22nd – 24st October 2014
Booth 856

■ International Bearing Industry Exhibition

WAFIOS Umformtechnik Brings Out Real Innovations

450,000 square metres of exhibition space. 700 exhibiting companies. More than 50,000 specialist visitors from all around the world. The China International Bearing Industry Exhibition in Shanghai from the 18th to the 21st of September, 2014, set new records.

The participation of WAFIOS Umformtechnik also exceeded all expectations. The exhibition stand was very well visited and was one of the main attractions of the trade fair with the largest multi-vision screen. WAFIOS Umformtechnik impressively presented in modern 3-D animation and videos the advantages of the KIESERLING ball and roller header, **BR 220**. The visitors showed great interest in the innovative, single-stroke cold former which is primarily used for the manufacture of balls and rollers in the 12 to 33 mm diameter range. The **BR 220** shears wire with a tensile strength of 750 N/mm² and up to a diameter of 30 mm. In doing so it achieves a volume constancy of < 0.3%. With this, users can manufacture products in the near net shape range highly economically and productively. In addition



there is the residual quantity processing function which ensures that the bar or wire ends are also processed and do not end up in the scrap bin. This means optimum material utilization and output.

Naturally, in addition to the **BR 220**, other machine solutions from WAFIOS Umformtechnik were presented

on the exhibition stand. Thanks to the clear and large-scale presentation, lots of interested parties were able to be attracted and many discussions took place with potential customers. Conclusion: A completely successful trade fair for WAFIOS Umformtechnik!

Machines at short notice:

In approx. 2-3 months:

- Cold Former **HC6** (1-die-2-blow) with rotating die block
- Cold Former **HD6** (1-die-2-blow)
- Thread Roller **FN12** Type HILGELAND (flat die)
- Nut Tapper (double spindle) **MAS06F, MAS14F, MAS24F**
- Forming Center **SMR** with 8 die holders for the production of small parts
- Machine for the production of bushes and rollers **IL** Type MRP

In approx. 6 months:

- Cold Former **H645** with 6 stations
- Cold Former **MSF10** (with 6 stations) for the production of high precision complex shapes in small diameters
- Cold Former **HC4** (1-die-2-blow) with rotating die block
- Cold Former **HC5FT** (2-die-3-blow) with rotating die block
- Cold Former **CF2N** (2-die-3-blow)
- Automatic Pointer **SKM08**
- Nut Tapper (one spindle) **UNT**

Technical data of BR 220:

- Forging capacity 2.200 KN
- Output up to 130 pcs/min.
- Max. Ball diameter 33 mm
- Max. Roller diameter 30 mm
- Cut-off dia. at T/s 750 N/mm² up to 30 mm
- Die pocket diameter 150 mm
- Punch diameter 150 mm
- Quill diameter 100 mm

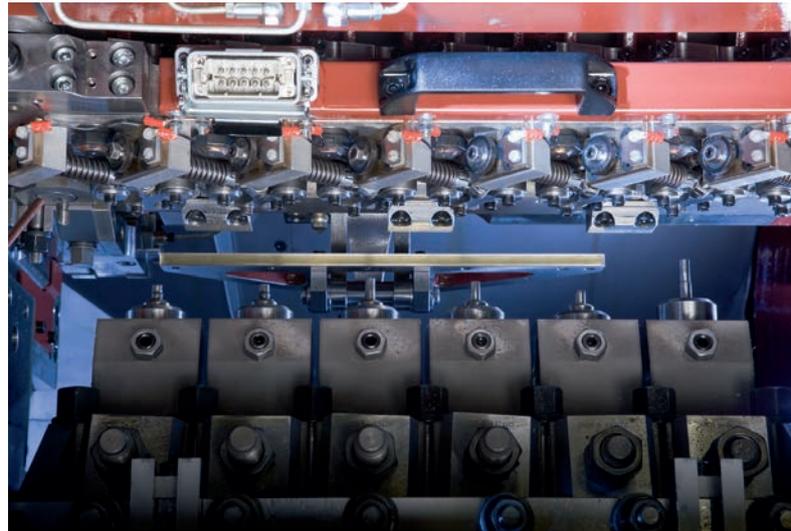
Our Cold Header type BR is available with 1 and 3 dies.

■ USA, Russia, China, India, Europe...

World-wide Success for the KIESERLING H 645 Multi-Station Header

Machines from WAFIOS Umformtechnik win over customers from all around the world. High efficiency and precision as well as innovative technology are the reasons for this success.

The best example is the KIESERLING header Type **H 645**. The machine with six stations is ideal for the production of high-precision, formed components in small to medium wire diameters. Through the quick change-over system and automatic adjustment (for example with punch and die blocks) the setup and non-productive times are reduced to a minimum. There follows high productivity growth and cost savings for the machine operating company. The fully developed technology, reliability and quality of the KIESERLING **H 645** are demonstrated in continuous daily use: The placement grippers, blank stoppers and the virtually play-free guides of the carriage have proven themselves under all operating conditions.



And whoever wants to open up new markets with new products simply sets up the **H 645**. With the inductive wire pre-warming, integrated directly in the machine, high-strength materials such as titanium alloys or Inconel can be formed with a lower press force. Additional options for expansion are: Transfer with electrical adjustment of the cams, tool adjustment fixture and monitoring of the feed length for linear in-feeding.

As already mentioned above, the KIESERLING **H 645** is only one example of the WAFIOS Umformtechnik solutions. But nevertheless it makes clear where the advantages for customers lie and why the machines are so successfully in demand all over the world.

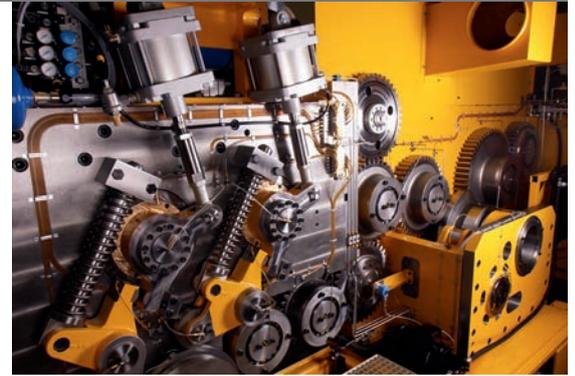


■ WAFIOS Umformtechnik offers more than just repairs

Service as a Competitive Advantage

For WAFIOS Umformtechnik, Wuppertal, service is more than a technician on site to rectify a defect. The manufacturer of machines for cold and semi-hot forming, with the traditional brands HILGELAND, KIESERLING, NUTAP and MRP, considers service to be

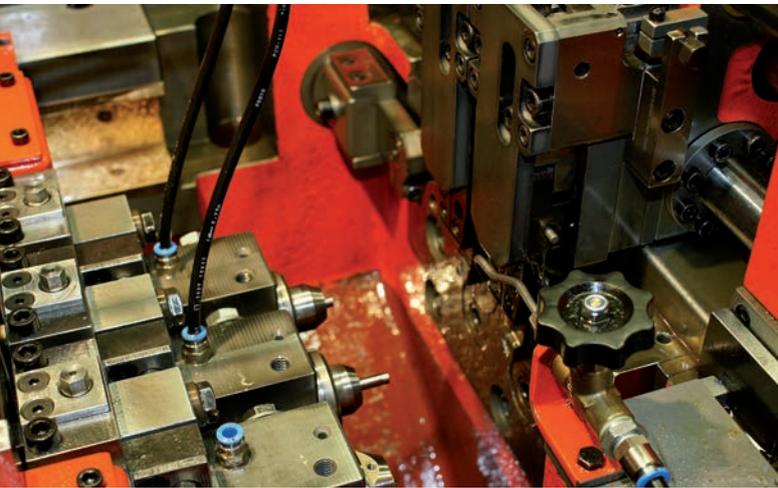
an integral, strategic contribution to the competitive advantage of the customer. The Managing Director of WAFIOS Umformtechnik, Sven Nieper: "As an Original Equipment Manufacturer (OEM) we care for our equipment over its complete life cycle.



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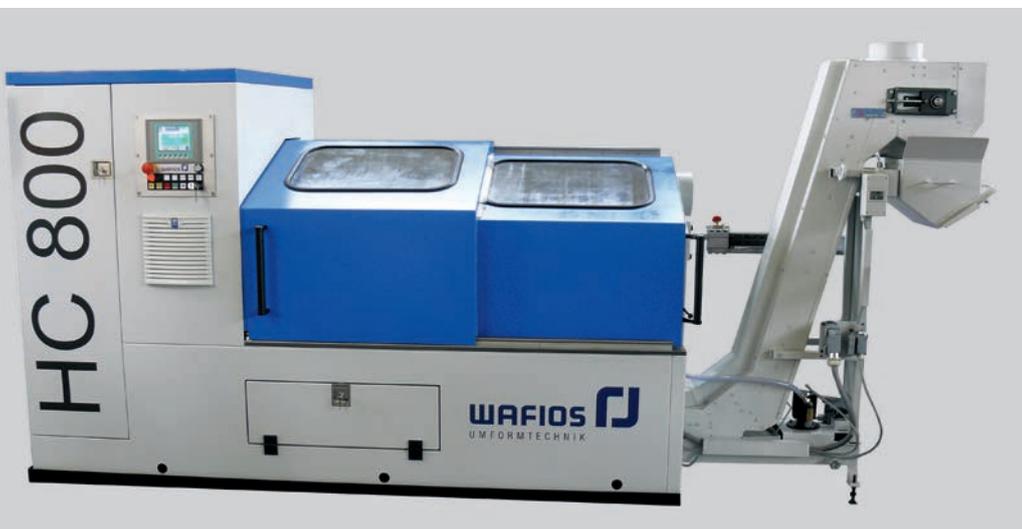
With our knowledge of manufacturing and more than 100 years of experience, we ensure high equipment availability, low maintenance costs and through refurbishment bring the machines up to state-of-the-art technology. Our customers profit from this with continually high productivity and optimized product quality".



Hilgeland
 Kieserling
 MRP
 Nutap

Striking success – Fastest in its category

HC800 Cold Former (1-die-2-blow) with new space saving design – highlight at the Fastener Expo Shanghai (19th – 21st June 2014).



LEGAL NOTICE

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