

Improve Performance By Using the Latest Technologies

by:

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OMAS celebrates 30 years of dedication to the wire forming industry and teams up with a new partner in North America.

OMAS, a world leader in design, development and production of automatic bending machines for automatic forming of round wire, flat wire and strip materials joins **Forming Systems, Inc.**, to serve the North American markets of the USA, Canada and Mexico. OMAS, an ISO-certified company recently celebrated its 30th year of dedication to the wire forming industry.



CEB-110.

Technologically advanced products include:

- 3-D CNC Single Head Bending Machines (up to 7 axes)
- CNC Ring Forming & Welding Machines
- High Speed Multi-Slide Machines
- Heading Attachments & Forming Stations
- Automatic Payoff Systems

The OMAS technical staff is equipped with the latest engineering design systems, developing solutions for special applications. Highly skilled tool makers and operators enable OMAS to thoroughly test applications in a simulated production environment prior to delivery to the customer.

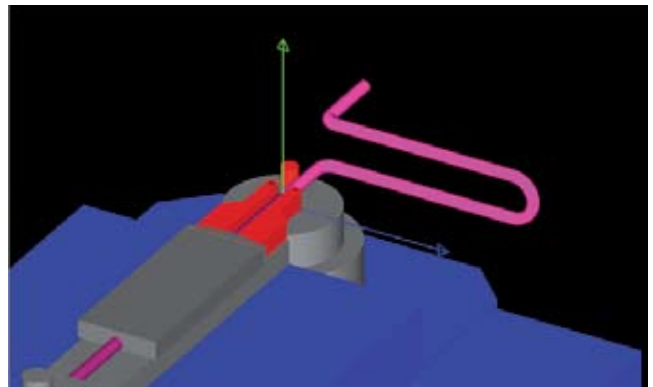
3-D Multi-Axes Wire Forming Machines

OMAS offers one of the most complete lines of 3-D wire forming machines available, covering a wire range of 0.7 to 16 mm (0.027" to 0.63"). The OMAS CEB series of single-head 3-D forming machines offer many unique

Model	Wire Range	
CEB 203	0.7 to 3.5 mm	0.027" to 0.140"
CEB 106	1.5 to 6.0 mm	0.060" to 0.250"
CEB 108	1.5 to 8.0 mm	0.060" to 0.315"
CEB 110	2.0 to 10.0 mm	0.080" to 0.400"
CEB 416	5.0 to 16.0 mm	0.200" to 0.630"

features to assist the end user.

Highly advanced graphic software allows the operator to see a virtual digital image of the part during the programming process. As bends and movements are added, the operator receives immediate feedback via the digital imaging. When adjustments to the part are needed, simply point and click to the area of interest on the graphic display, and the specific dimension, shape or radius can be modified. The view changes as the adjustments are made. The simulated forming process allows the operator to watch digitally as the part is formed, one bend at a time. This feature will minimize setup time and reduce scrap during the setup process.



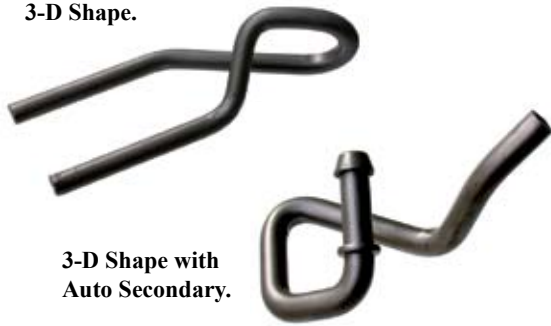
Screen shot from graphic software.

OMAS CEB machines use a compact head design, ideal for close bends and high-speed production. A unique anti-torque feature eliminates dimensional distortion typically created within parts with long wire development and many bends. The anti-torque feature is standard on all OMAS CEB machines. The ability to



CEB 110 w/ Press Operation.

3-D Shape.



3-D Shape with Auto Secondary.

automate secondary operations in-line with 3-D forming is very important to wire form manufacturers. Robotic or automatic transfers are available for automation of operations such as welding, chamfering, ball chamfering, heading and threading in-line with the OMAS forming process.

OMAS incorporates an industrial PC interface using Windows® XP Professional®, equipped with an installed modem for online technical support if needed, 17" LCD display, 80 Gb hard drive, DVD 16X, 3" Floppy and USB 2.0. Digital servo motors and drives provide for improved bend accuracy and improved tolerances. Digital systems allow OMAS machines to handle data much more efficiently, thereby improving the product produced. Additionally, the Windows-based software system is easy to use and familiar to most operators today.

Making Rings and Welded Rings from Wire or Strip

OMAS FSA production ring machines are recognized for their speed and quality of the products produced. These machines can produce rings within a wire range of 1 to 12 mm (0.04" to 0.47") depending on model selection. Automated welding systems are offered for butt welds, TIG welds and introduction of Argon gas if flash is a concern. Overall ring diameters range from 15 to 2200 mm (0.590" to 86"). Specialized positioning



FSAB2 Ring Coil-Weld.

Fsa-Ring Machines	Small	Medium	Large
Min Wire Diameter	1	2	6
Max Wire Diameter	4	8	12
Min Ring Diameter	15	25	100
Max Ring Diameter	300	1000	2200
Strip Or Flat Wire	Yes	Yes	Yes
Feed Speed M/min	170	80	40
Butt Weld	Yes	Yes	Yes
Weld System	Digital	Digital	Digital
Anneal & Deburr	Avail	Avail	Avail
Med. Freq. Weld Cont.	Avail	Avail	Avail
Tig Tungsten Gas Sys	Avail	Avail	Avail

systems have been developed for large welded ring production. Special annealing and deburring systems are also available on request.

High-Speed Mechanical Multi-Slide Machines

OMAS high-speed multi-slide forming machines provide an additional option for high volume components which call for manufacturers to find increased productivity through product automation. High-speed mechanical machines are available for products from 0.5 to 10 mm (0.020" to 0.394") wire diameters.



BS/60T High Speed Multi-Slide.

Applicable products could include automotive, electronics and appliance products. Secondary operations such as pressing, punching, piercing, heading, chamfering, welding and assembly can be integrated into these automated systems. Examples might include hangar hooks with flattening and heading at 300 ppm or bucket handles with assembled plastic sleeves at 70 ppm. These systems provide a complete solution. **WFTI**

Company Profiles: OMAS products are sold in North America exclusively by **Forming Systems, Inc.** of Schoolcraft, MI, USA. **Forming Systems, Inc.** is a full-service distributor, serving the wire forming and spring making industries. Products include 2-D and 3-D wire forming machines, spring making machines, spring testing equipment, spring grinding equipment and conveyor and box ovens. Visit us at Interwire 2007 in booth 4023. www.formingsystemsinc.com