

# IMTS 2018 Booth Previews

## Affolter Technologies

### North Hall, Booth 237223

Affolter Technologies, in partnership with its U.S. representative, Rotec Tools, will showcase their innovative gear hobbing center AF110 plus at IMTS 2018.

The AF110 plus is the most advanced machine offered by Affolter Technologies. It convinces with its versatility, precision, power, rigidity and ease of use. The AF110 plus has eight axes, a cutter-spindle speed of up to 12,000 rpm capable to make gears with a maximum DP17 and minimum of DP1270. Different automation systems for part loading and unloading are available, such as universal grippers, drum loader or robot loading as well as options such as deburring, dry cutting, centering microscope and oil mist aspiration.

"The loader system AF71 with two grippers ensures 24 hours automatic production," Vincent Affolter, managing director of Affolter Technologies, said. "While a gear is in the hobbing process, the other gripper already reaches out for the next part to load."

The AF110 plus can cut spur, helical, frontal, bevel, and crown gears.

Worm Screw Power Skiving, a cutting-edge technology developed by the Affolter engineers, is available as an option. The idea behind it: Unlike in worm hobbing, where the hob turns much faster than the workpiece, the Affolter engineers inverted the process.

"The workpiece turns extremely fast, with two new spindles up to 12,000 rpm, while the cutter turns much slower. Only highly advanced machines can reach such speeds and at the same time provide the necessary stiffness," Affolter said.

WSPS allows manufacturers to finish a high-precision worm in only 6 seconds — four times faster than the traditional worm hobbing.

"Manufacturers of a high volume of worms will greatly benefit from this new process and improve their productivity significantly," Affolter said.

The WSPS technology focuses on small worms with a module up to 17 DP.

"The Affolter gear hobbing machines offer customers a

production

machine with high precision and efficiency,"

Ivo Straessle,

president of Rotec Tools,

said. "The simplicity of these machines is remarkable. The user-

friendly controls with step-by-step and easy-

to-follow functions will simplify the gear-making

process. With a relatively

small investment, customers can keep know-how and technology in-house."

### For more information:

Affolter Technologies

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[www.affelec.ch](http://www.affelec.ch)

Rotec Tools

Phone: (845) 621-9100

[rotectools.com](http://rotectools.com)



## American Broach & Machine

### North Hall, Booth 237020

American Broach & Machine specializes in the design, engineering and manufacturing of turn-key broach machining systems.

### For more information:

American Broach & Machine

Phone: (734) 961-0300

[www.americanbroach.com](http://www.americanbroach.com)

## Bourn & Koch

### North Hall, Booth 236854

The global manufacturing community is invited to receive a behind-the-scenes look into how precision machine tools are being built, right here in America, during the Bourn & Koch "Made in America" open house on Wednesday, Sept. 12 and Friday, Sept. 14, 2018.

Tours will be held in Rockford at 10 am and 2 pm both days of the open house. Included in the tours will be a display of select original prints from Blanchard, Fellows, Springfield, DeVlieg, Bullard, Barber Coleman and many other brands which Bourn & Koch, as an OEM for 35 American machine tool brands, is curating.

Full factory tours during the event include the 130,000 square foot shop floor where Bourn & Koch remanufactures classic American machine tools to OEM specifications and also builds brand new Springfield vertical grinders, Blanchard rotary grinders, Bourn & Koch gear hobbors, Fellows shapers and DeVlieg milling machines with the latest technology and designs. A highlight of the tour will be demonstrations of a newly redesigned and reengineered Blanchard 22AD-42 rotary surface grinder.

