



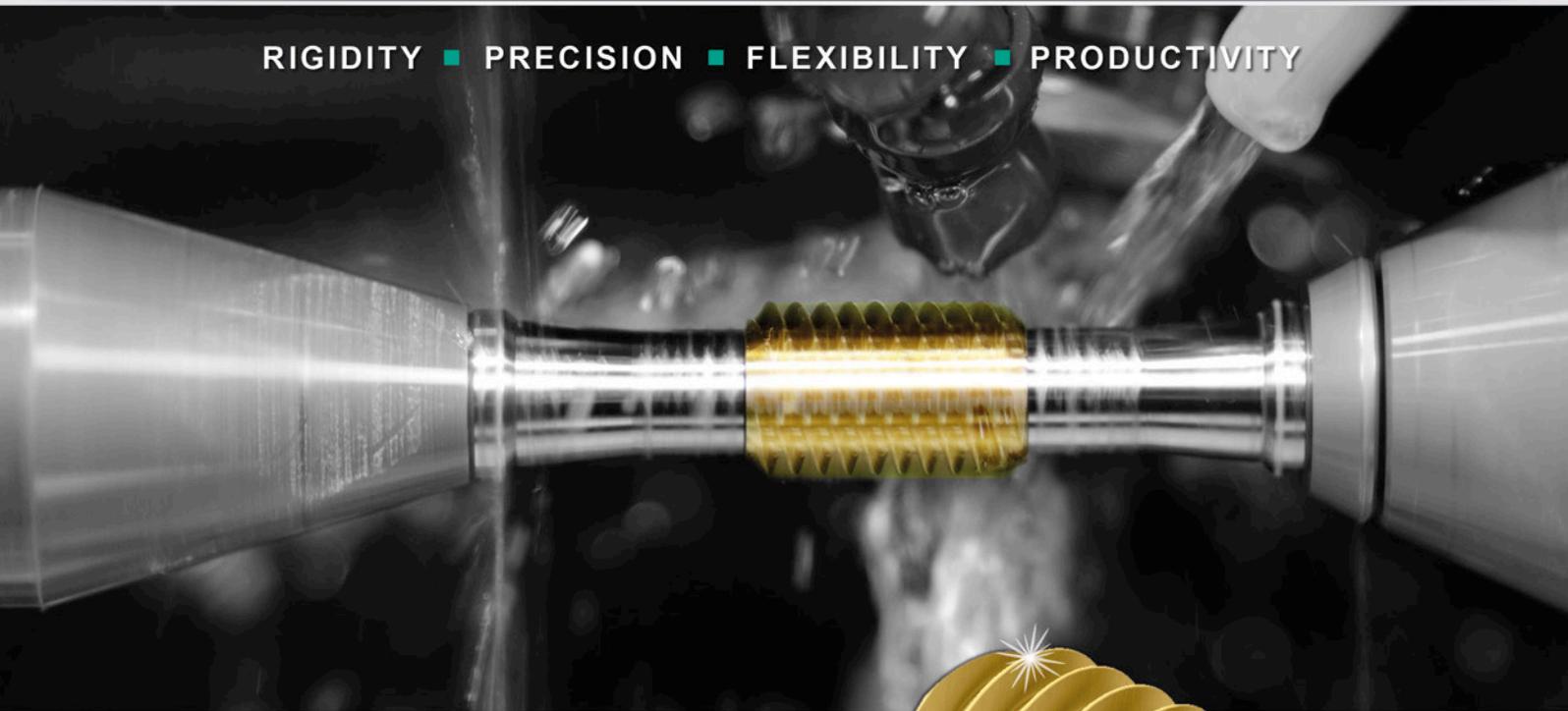
SINCE 1919



SOLUTION FOR HIGH PRODUCTIVITY AND PRECISION GEAR HOBBING



RIGIDITY ■ PRECISION ■ FLEXIBILITY ■ PRODUCTIVITY



## WORM SCREW ON CNC GEAR AF110 PLUS

- Process **Worm Screw Power Skiving**
- Module **0.6 mm**
- Dimensions **Ø 12.7 x 20 mm**
- Material **Brass**
- Production **12 sec\***



# AFFOLTER

AFFOLTER TECHNOLOGIES SA

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



## AF110<sup>plus</sup>

- 8 axis CNC
- Max. module **1.5 mm / 17-DP**
- Max. cutting length **90 mm / 3.54 in.**
- Max. part diameter **60 mm / 2.36 in.**
- Gear Process **Worm Screw Power Skiving**

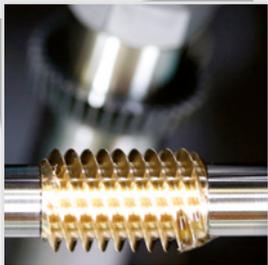


### Worm Screw Power Skiving

The new process: Unlike in worm hobbing, where the hob turns much faster than the workpiece, the Affolter experts inverted the process.

The workpiece turns extremely fast, with up to 12'000<sup>rpm</sup>, while the cutter turns much slower.

With this Worm Screw Power Skiving technology, we can finish a high-precision worm in only 6 seconds. If done by worm hobbing, every piece will take 25 seconds." In other words, the worm high-speed manufacturing technology makes producers 4 times more efficient.



### Technical characteristics

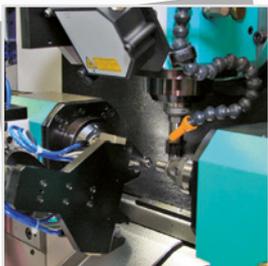
Max. part diameter	60 mm / 2.36 in.*
Max. part length clamping between drive centers	100 mm / 3.94 in.**
Max. cutting length clamping between drive centers	50 mm / 1.97 in.**
Max. part length clamping between collet and tailstock	200 mm / 7.87 in.**
Max. cutting length clamping between collet and tailstock	90 mm / 3.54 in.**
Max. module (depending on material and process)	1.5 mm / 17 DP
Max. diameter of the hob cutter	38 mm / 1.49 in.
Max. width of the hob cutter	50 mm / 1.97 in.
Inclination of the cutting spindle	-/+30°
Max. rotation of the cutting spindle	12'000 rpm ***

\* According to the setup and the quality required. | \*\* According to clamping of tools. | \*\*\* Options



### CNC-Control

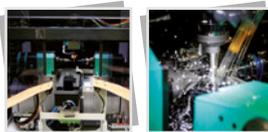
The programming is simple and user-friendly. The machine comes with a 12" color touch-screen monitor. There is a possibility to network the machines and download the programs on a PC or a server.



### Automation and option

The GEAR line machines offer a variety of automation solutions to be adapted to any application, ranging from flexible manufacturing of small series up to high volume production with an autonomy of 12 to 24 hours:

- Universal loader with vibratory bowl feeder, magazine, or conveyor options.
- Customizable coolant systems, oil, oilmist, coolant.
- Options: Worm Screw Power Skiving process, Collet clamping, Dry Cutting, Skiving, Deburring, Chip extraction conveyor with filtration, and more.



and much more...



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