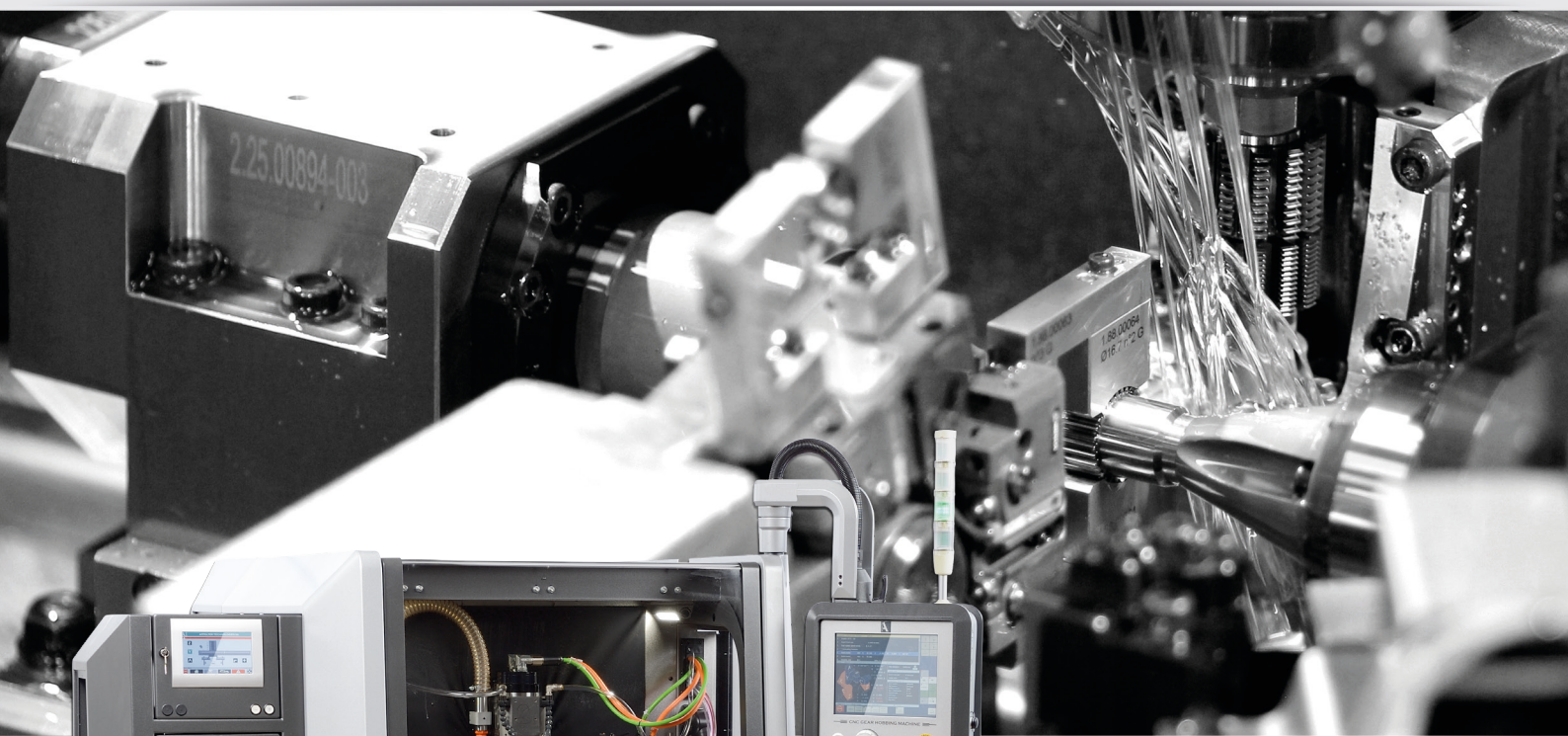




SINCE 1919

CNC GEAR HOBGING MACHINES

SOLUTION FOR HIGH PRODUCTIVITY AND PRECISION GEAR HOBGING



- Precision
- Flexibility
- Stiffness
- Productivity

AFFOLTER
AFFOLTER TECHNOLOGIES SA

GEAR

AFFOLTER

Line



the most compact



the most versatile

Fitted with Leste CNCs, these machines enable **hobbing** or **tooth by tooth** for...

AF90

GEAR HOBBING MACHINE

- CNC axes **6**
- Max. module **0.8 mm**
- Max. cutting length **40 mm**
- Max. parts diameter **30 mm**
- Manual inclination **-/+ 10°**

The AF90 is designed to be compact in order to replace conventional machines, while being just as productive and precise as the AF100 *plus*.

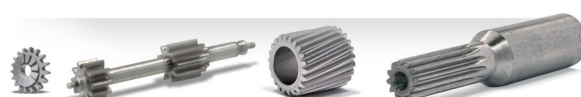


AF100^{plus}

GEAR HOBBING CENTER

- CNC axes **8**
- Max. module **0.8 mm**
- Max. cutting length **50 mm**
- Max. parts diameter **36 mm**
- Automatic inclination **-/+ 30°**

The AF100^{plus} is fitted with a variety of loader and options to offer solutions to suit many applications in the microtechnical industrial sectors. It is the most versatile GEAR line machines.





the most automated

the most robust

...spur, helical, bevel and crowned wheels, shafts, pinions and worm screw.

AF101

AUTOMATED GEAR HOBGING CENTER

- CNC axes **8**
- Max. module **0.8 mm**
- Max. cutting length **50 mm**
- Max. parts diameter **36 mm**
- Automatic inclination **-/+ 30°**

The AF101 is an automated Gear Hobbing Center with a robot, that can feed and unload parts automatically, as well as provide many additional operations.



AF110^{plus}

POWERFUL GEAR HOBGING CENTER

- CNC axes **8**
- Max. module **1.5 mm**
- Max. cutting length **90 mm**
- Max. parts diameter **60 mm**
- Automatic inclination **-/+ 30°**

The AF110 *plus* is the most robust Gear Hobbing Center in the GEAR line, with increased performance and extra options such as the "Worm Screw Power Skiving" process.



CNC CONTROLS

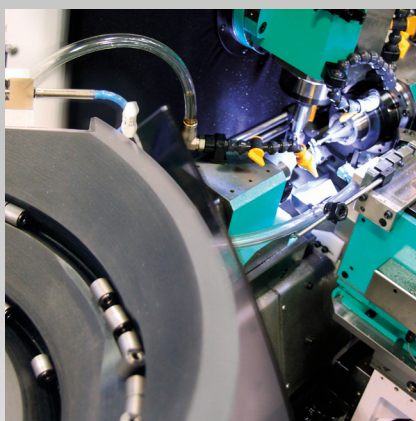


All our machines are equipped with **Affolter Leste CNC-Controls**, which can control up to 12 axes. The interpolation speed is 90 ns! This proprietary control design affords unique speed and machine dynamics.

Further, the Affolter CNC-Controls are very easy to use thanks to a user interface with **touch screen** and programming that was completely designed for gear hobbing.

Options as networking of several machines and centralized production management with **CNCnet** software and simple updating via Internet with **Update Manager** software enhance our CNC-Controls performance.

AUTOMATIONS AND OPTIONS



Our machines work with a variety of **automation solutions** and **options** 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**:

- Loader **semi-automatic** AF10, AF12;
- **Drum loader** AF20;
- **Universal loading system** AF45 and AF71, with vibratory bowl feeder, magazine, oil impulse, adjustable feed rail unit and many different conveyor options.
- Customizable coolant systems, oil, oilmist, coolant.
- Options: chip extraction conveyor with filtration, collet clamping, dry cutting, skiving, deburring and Worm Screw Power Skiving process.

GEARS APPLICATIONS



Our high-production and high-precision Gear Hobbing Machines enable us to produce high-quality **gears** (applications) – such as **pinion, wheel, shaft, spur gear, helical gear, face gear** and **worm screw** – within extremely efficient production times.

We offer you many years of **experience** in gear hobbing. Our customers are invited to take advantage of our knowledge regarding **feasibility studies**, tooling and workholding design, cycle time studies, and application specific process **training** with Turnkey technology!

www.affolter-applications.ch

SOLUTION FOR HIGH PRODUCTIVITY AND PRECISION GEAR HOBGING

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