



SINCE 1919



WATCH INDUSTRY GEAR HOBBING SOLUTIONS



INNOVATION ■ PRECISION ■ PRODUCTIVITY



REWINDING PINION

ON GEAR AF100 HOBBING CENTER

- Gear **Frontal Breguet & Spur Gear**
- Module **0.19 mm**
- Dimensions **Ø 3.66 x 0.52 mm**
- Material **steel**
- Production **45 sec***



AFFOLTER

AFFOLTER TECHNOLOGIES SA

www.affoltergroup.ch



REWINDING PINION ON GEAR AF100 HOBBING CENTER

- Production **1 cycle**
- Operations **4 (2 gear cycles & 2 deburrings)**
- Gear **Frontal Breguet & Spur Gear**
- Time **45 sec***

HERITAGE

To date, the **rewinding pinion** gear cycle has been carried out on **2 machines** - the first for the **frontal Breguet gear cycle** and the second for the **Spur exterior gear cycle**. This procedure has required extra time to load, wash and check between the 2 machines...

INNOVATION

Currently, **Affolter Technologies** provides the gear cycle for this major watch movement part in **one single production cycle**. Our multipurpose **GEAR AF100** hobbing center effectively carries out this gear work in **1 production cycle** for **4 operations**. This is alongside our new "L10" gear cycle **collet clamping** procedure, used for **small clockwork parts**.



PRECISION



This application is made possible by our **new MB5S270E spindle motor** and its **collet clamping system** intended for small, low-intensity items. This new spindle motor is **adjustable** to suit requirements: **clamping force, clamp opening, oval shape correction and control part presence**.

Thanks to the flexibility of our **GEAR AF100** gear cycle center, its **8 axes**, its **flexible digital control** and its **quick and simple setting**, this part can be produced with perfect precision.

* Data depends on the geometry of the part, the setting and quality required.



PRODUCTIVITY

Tools

Option of using **current tools** such as dollies, L10 or F10 gear clamps and loading clamps.



Loading

The **AF20 drum** or **AF45 pulse** feeders are suitable for loading this type of part, and will enable you to keep using your current tools.



Cycle

1 production cycle for **4 operations**:

- Frontal **Breguet gear cycle**;
- **Breguet deburring** with end cutter;
- **Spur deburring** with 2 milling cutters;
- **Spur exterior gear cycle**.



Option

By integrating a **second collet clamping**, the machine can produce the "sister" **sliding pinion** part, with many advantages.



Please contact us for a specific offer.

AFFOLTER
AFFOLTER TECHNOLOGIES SA



Sales network

Switzerland / Europe | Affolter Technologies SA
Germany | D&M GMBH

Sweden | Hintze Maskin
Eastern Europe | Alfleth Engineering AG
North America | Parker Industries

Brazil | Vison Máquinas e equip.
Japan | YKT Corporation
China | Affolter China Co., Ltd

Taiwan | Corremax International
Korea | LB Tech Inc.
India | GT Engineering