



MICRO-PRECISION PARTS MANUFACTURER EXPERT

FROM BESANÇON

TGV

Lyon 2h00 - Paris 2h05
Marseille 3h45 - Francfort 3h35

By the road

Freiburg 1h50 - Genève 2h00
Strasbourg 2h15 - Lyon 2h30
Stuttgart 3h30

Besançon

FRANCE

FRALSEN THROUGH TIME

1962

Established in 1962 in Besançon, Timex Corporation factory is dedicated to the fabrication of components for the watch industry.

1970

Development of new activities from subcontracting. Beginning of new assembly activity for electronic chips for IBM.

1990

Timex launches the highly successful Indiglo watch. This year more than 1 billion components were manufactured in the Besançon factory.

2013

Diversification into new activities sectors: micro mechanical, connectics and defense, while keeping our watchmaking core business.

2017

Beginning of Certification
ISO 9001 v2015.

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www.fralsen.com



MICRO-PRECISION PARTS
MANUFACTURER EXPERT

KNOWLEDGE

DESIGN & MANUFACTURING

SCREW MACHINE PRODUCTS / GEAR CUTTING

BLANKING

PLASTIC MICRO-INJECTION

FINISHING PROCESS AND ASSEMBLY

DESIGN & MANUFACTURING

- **Help for your projects.**
- **Design and manufacture blanking tools and plastic molds.**

SCREW MACHINE PRODUCTS / GEAR CUTTING

- **Screw machine product : parts diameter**
from 0,5 to 16 mm.
- **Gear hobbing :**
modul from 0,05 to 1 mm.

BLANKING

- **Blanking of parts**
from 10 μ to 0.5 mm thickness

PLASTIC MICRO-INJECTION

- **Plastic micro-injection :**
starting at 0,0008g
- **Overmolding**

FINISHING PROCESS AND ASSEMBLY

- **Tumbling**
- **Heat treatment**
- **Plating**
- **Assembly**



EQUIPEMENT LIST

- Wire spark erosion Makino - 0.03 mm to 0.2 mm
- Electrical discharge sinking Sodick
- HSM machining centres Makino
- Sharpeners, cylindrical grinding machine



SOFTWARE

- NX
- Solidworks
- Moldflow



CONTROL EQUIPMENT

- 3D systems



EQUIPEMENT LIST

- 83 screw machine, CNC Citizen, Tsugami, Tornos Swiss Cam
- 55 gear cutting machines, Wahli, Lambert, Strausak.



MATERIAL TYPES

- Stainless Steel, Brass, Copper, Titanium, Delrin.



CONTROL EQUIPMENT

- Three-dimensional control instruments.



EQUIPEMENT LIST

- 10 blanking presses from 6 to 35 tons
- Length table 1 meter max



MATERIAL TYPES

- Stainless Steel, Brass



CONTROL EQUIPMENT

- Three-dimensional control instruments



EQUIPEMENT LIST

- 27 injection presses from 30 to 60 tons, including 4 electric presses
- 3 rotary turntable presses



MATERIAL TYPES

- PC, POM, ABS, ABS/PC, PMMA, TPE, LCP ...



CONTROL EQUIPMENT

- Three-dimensional control instruments,
- Keyence optical comparators



EQUIPEMENT

- Dürr degreasing machine. Tempering and annealing furnace
- Automatic sorting
- Plating chain
- Tumbling machines



ASSEMBLY

- Manual, semi-automatic and automatic assembly



CONTROL EQUIPMENT

- Chemical laboratory
- Atomic absorption
- Thickness measure by X-ray fluorescence
- Durometer



INDUSTRIES

WATCH INDUSTRY

Our core business for more than 55 years with validated and recognized processes.



MICROMECHANICS

Mastery of the complete process and the means of control.



CONNECTOR

Our know-how in terms of quality and precision provides a solution to the miniaturization of products.



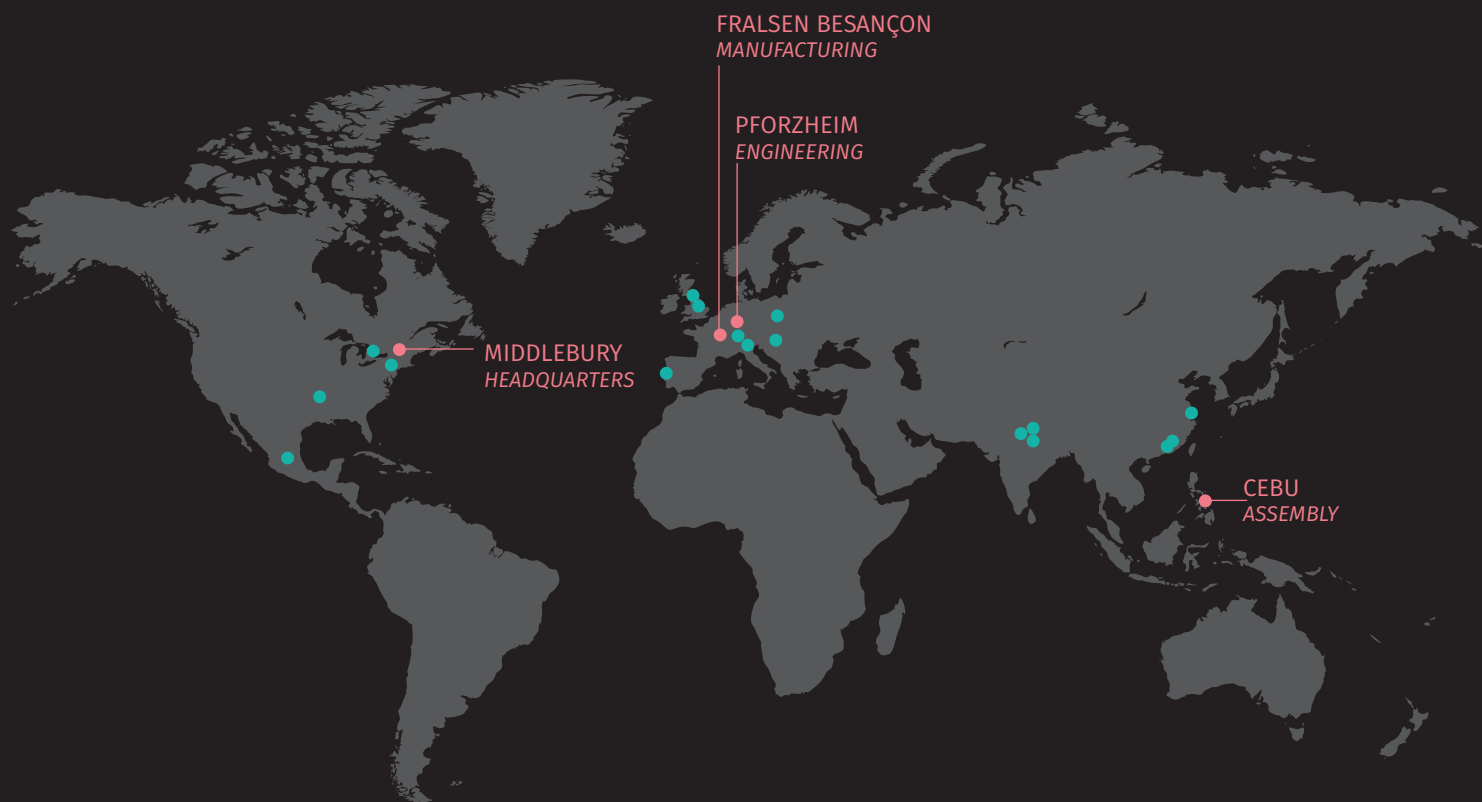
DEFENSE

Our complete manufacturing capabilities also allows us to produce small series or prototype to validate your production launch.



TIMEXGROUP

www.timexgroup.com



Timex Group designs, manufactures and markets innovative timepieces around the world. Founded in 1854, Timex Group is a privately-held company headquartered in Middlebury, Connecticut with multiple operating units and over 5,000 employees worldwide. As one of the largest watch makers in the world, Timex Group companies produce watches under a number of well-known brands.


Fralsen
TIMEXGROUP

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