

Microtechnical assembly

OUR BUSINESS SECTORS:

- AUTOMATION UNITS
- MEASURING AND AGEING MACHINES
- ASSEMBLY AND MACHINING EQUIPMENT
- SUBCONTRACTING



Microtechnical assembly

■ The equipment

Fully automatic equipment for assembling two components. Designed using the latest technologies, it guarantees precise, fast, flexible and reliable production.

It combines proven solutions from the UNIMEC range, including a robot, feeder systems, linear motors, a servo-press, vacuum/blow technology and machine vision.

The 'plug and play' tooling system offers great flexibility while optimising changeover times. It is ideal for assembling small, medium and large production runs.

■ Fonctions

We offer solutions for assembling watch components, such as:

- pinions, wheels, jewels, pins and screw bases.
- Fitting of bridges
- Crimping
- Assembly of watch mobiles
- Miscellaneous assembly



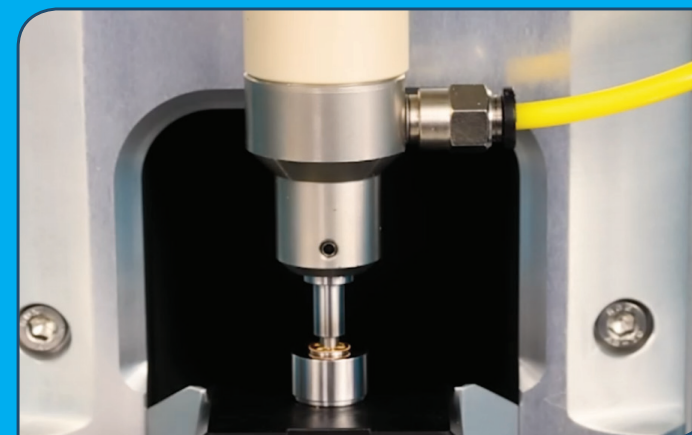
■ UNIFEED 3400

Flexible feeding system developed and produced by UNIMEC SA.

■ Features

Quality automation and controlled, repetitive processes :

- Bulk loading of components
- Vision-based location, orientation and sorting of components
- Component transfer via 4-axis robots (BE66)
- Assembly using a servo press (controlled by force and position) or a pneumatic press
- Packaging of assemblies in bulk or individually
- User-friendly human-machine interface
- Production monitoring export via the IT network



Technical data

Cycle time	min. 3 seconds
Force range	0 - 5000 N
Positioning repeatability	< 0,01 mm
Accuracy of measurement	< 1%
Spindle stroke	80 mm
Energy	230V / 5 bars
Dimensions (W x D x H)	1100 x 800 x 1850 mm