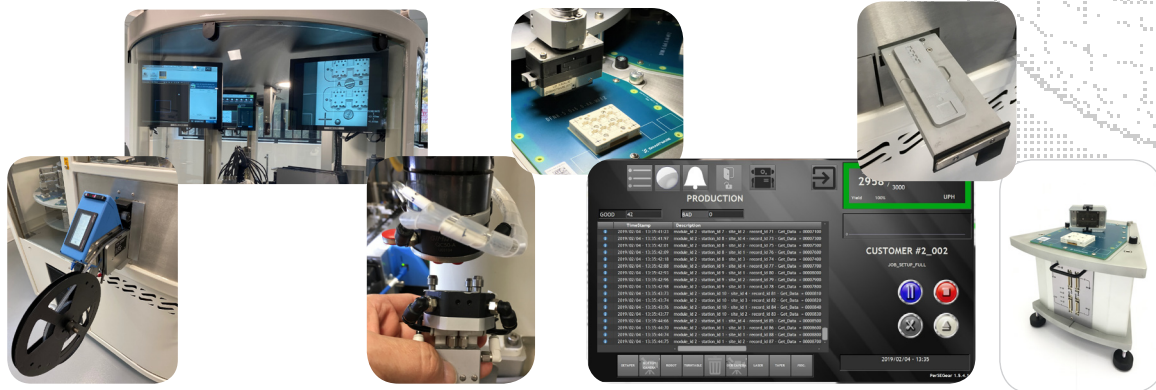# PerSE Series

PerSE for Personalization of Secure Element is a modular Industrial Equipment capable of Electricaly Testing/ Personalizing, Marking in sequence Embedded Secure Element (eSE), with large quantity of fixed and variable data.

Based on the use of 4-Axis Arm Robot and Innovative concept of Personalisation Turn Table which limits to the minimum, transportation of sensitive and fragile eSE parts during the all process flow



## Increased Performance

Higher Throughput / Higher Yield (4200 and 5500 UPH version available – up to 40 programming heads), boost your production and increase your yields

## Scalable Equipments

Cover all various models and technologies, scalable, compact, easy to operate and maintain

## PerSEGear

An Open Software Architecture, PerseGear offers an user-friendly interface optimized for industrial and secure elements production.

## Enhanced Security

Optical inspection and control of parts at each step

## Investment Protection

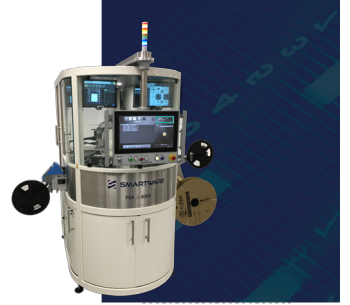Rationalize equipments, tools, and human ressources.

Possibility to mix and manage different types of programming plates on the same Turntable.

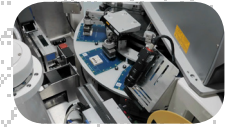## Be ready for the PerSE experience !

SMARTWARE

# PerSE Series



### Optimized part Handling

On PerSE system, secure elements are only transported 2 times during normal process flow System.
PerSE riskless process reduces part damaging and increases machine generat throughput.



### Electrical Parametric test and Personalization

Directly Integrated into the Turntable, just under each Programming Plate, Smartware's Testers (US-CMT2), allow various advanced parametric testing and personalization of Secure Element.
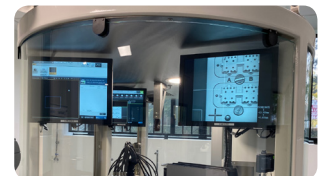


### Marking system

One station of the Turntable is dedicated for Laser Marking operation.
With KEYENCE Laser and its automatic working distance engraves with high resolution, all types of components, without impacting the throughput nor damaging Secure Element



### Vision systems

With a permanent quality inspection, each vision system displays results and shows live capture.
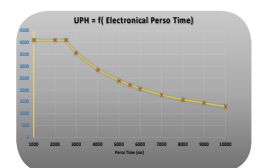


### Sampling Station & Sorting Buffer

At any moment or automatically defined in Job Setup, the Operator can decide to select part(s) for manual sampling.
Sorting Buffer (JEDEC Tray Like) is used when respect of sequence is required in order to temporarily store eSE parts.



### Throughput

With up to 40 programming heads, an higher Throughput is ensured with a 4200 UPH for 22 seconds personalization time and 2 seconds verify after marking.



## Be ready for the PerSE experience !

contact us at sales@smartware.fr
www.smartware.fr

**SMARTWARE**