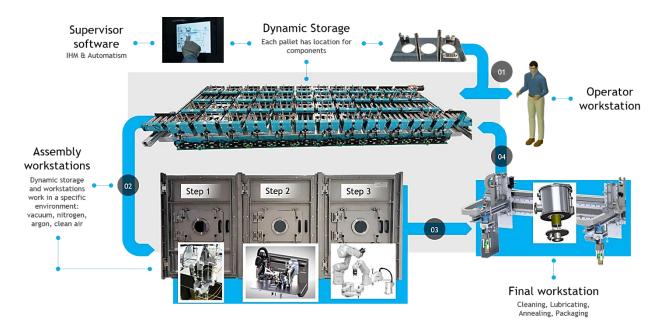


# PROCESS LINE

DATASHEET ISP19A0141FP0000004139-A



**ISP System process layout** 

# 1 - Application

### Special environment assembly process:

- Medical
- Photonic
- Clean industry

# 2 - Description

### 1. Operator workstation:

- Preparation of pallet with components
- · Control by vision
- · Intermediate manual operation
- · Assembly product picking
- · Clean air environment

#### 2. Dynamic storage:

- · 48 locations for product pallets
- · Transfer to assembly workstations
- · Transfer to/from operator workstation
- · Transfer from final workstation
- · Nitrogen or Argon environment

## 3. Assembly workstations:

- · Sequential operations on pallet
- · In-situ metrology
- Insertion without contact, screwing, welding
- Vacuum or nitrogen or Argon environment

#### 4. Final workstation:

- · Robots to manipulate products
- · Cleaning, lubricating, annealing
- · Exit product and/or pallet to storage
- · Nitrogen or argon environment
- · Product exit SAS

### DATASHEET ISP19A1041FP0000004139-A

### 5. Supervisor software:

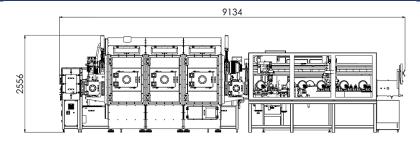
- · IHM at operator workstation
- · IHM for environments management
- · IHM at final workstation
- · Manage products recipes
- Control of component before entry in storage

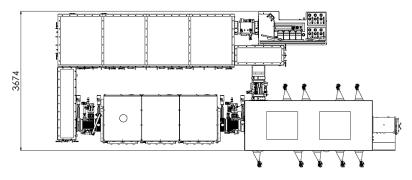
- · Manage storage:
  - Sized for continuous production
  - Custom priority of assembly
  - Calibration pallet
- · Edit assembly reports

# 3 - Technical Data

CHARACTERISTIC	SPECIFICATIONS
Dynamic storage module	8H autonomy, motor for each location
Environments control	Air, oxygen, pressure, T°
Transfer axes	Standard or custom solution
Linear assembly axes	0,1μm resolution, 1 to 10 μm accuracy
Rotary assembly axes	0,001° resolution, 0,01° accuracy
Gripper	Custom design, 3 fingers
Vision	High resolution cameras
Metrology	Confocal, laser, force sensors

# 4- Dimensions (mm)





Given as example, adapted to application

○ ISP SYSTEM
Z.I. de la Herray
65500 VIC-EN-BIGORRE – France

+33 (0)5 62 33 44 44
contact@isp-system.fr

www.isp-system.fr

-EN-BIGORRE – France

Capital de 1 000 000 € - SIRET : 410 675 078 00027 - APE : 71128 - TVA : FR 19 410 675 078