



## Autoinjector and Pen Injector Final Assembly Systems

Mikron Automation Standard Offerings

# Mikron Expertise

Complex process expertise from low to high volume

## Pharma/Medtech



[Assembly of Pharmaceutical & Medical Devices | Mikron Group](#)

## Auto-injector and Pen injector expertise

Up to  
140  
parts/min



Auto-injector

[Auto-injector expertise | Mikron Group](#)

Up to  
200  
parts/min

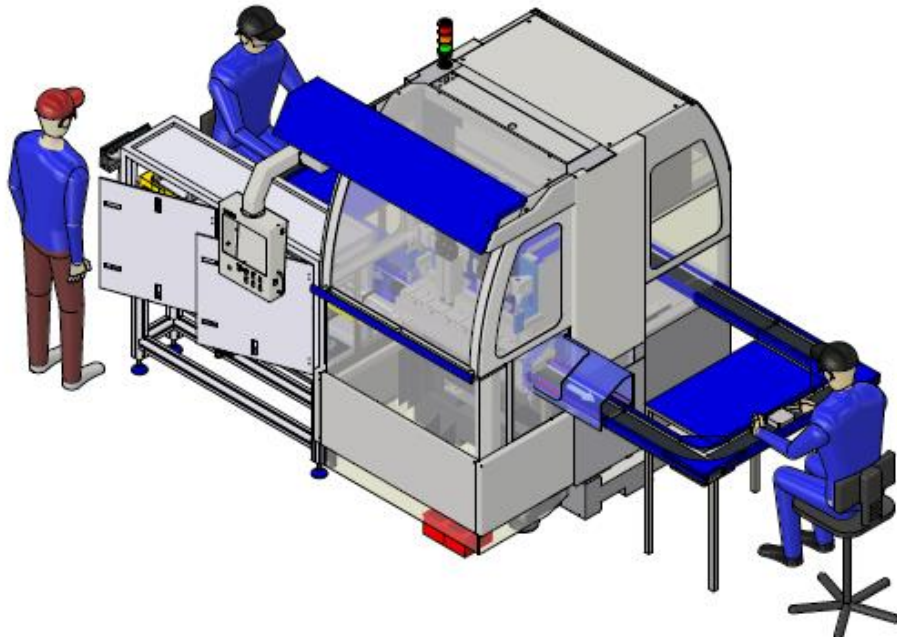


Pen Injector

[Pen injector expertise | Mikron Group](#)

# Autoinjector Assembly System Compact 20PPM

## 3D Visualization



## System Description

- > Manual loading/unloading
- > Minimal footprint (~3.2m x 2.0m)
- > Low volume assembly (20ppm)
- > Rate limited by manual operator load speed
- > PFS supplied In trays or tubs
- > [Ypsomate Video](#)

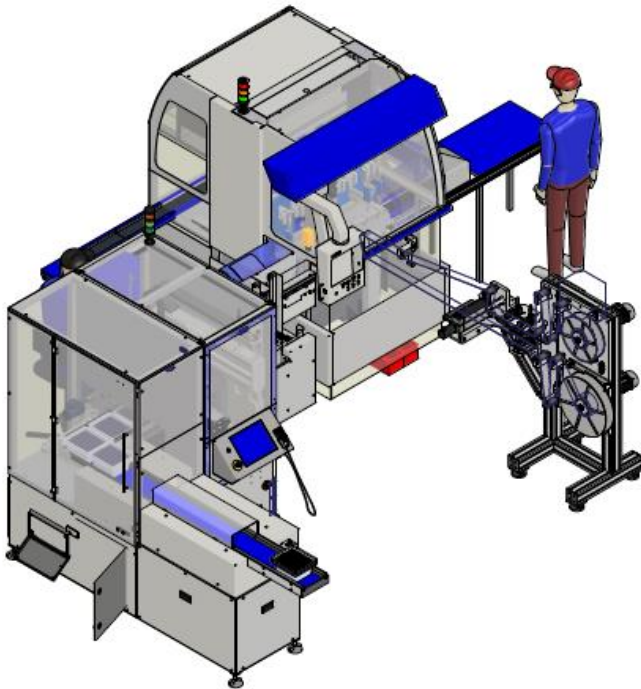
## Supported Devices

- > Ypsomed YpsoMate 1.0mL
- > Ypsomed YpsoMate 2.25mL
- > Potential similar devices



# Autoinjector Assembly System Upgradable 20–35PPM

## 3D Visualization



## System Description

- > Manual loading/unloading (option to automate offload)
- > Footprint optimized for optional functionality (up to ~9.0m x 4.3m)
- > Low to medium volume assembly (20–35ppm)
- > Ability to integrate label application in the G05 cell
- > Rate limited by manual operator load speed, optimized with operator assist station (20ppm → 35ppm)
- > PFS supplied in trays or tubs
- > Option to include PFS inspections (flange quality, RNS inspection, stopper position)

## Supported Devices

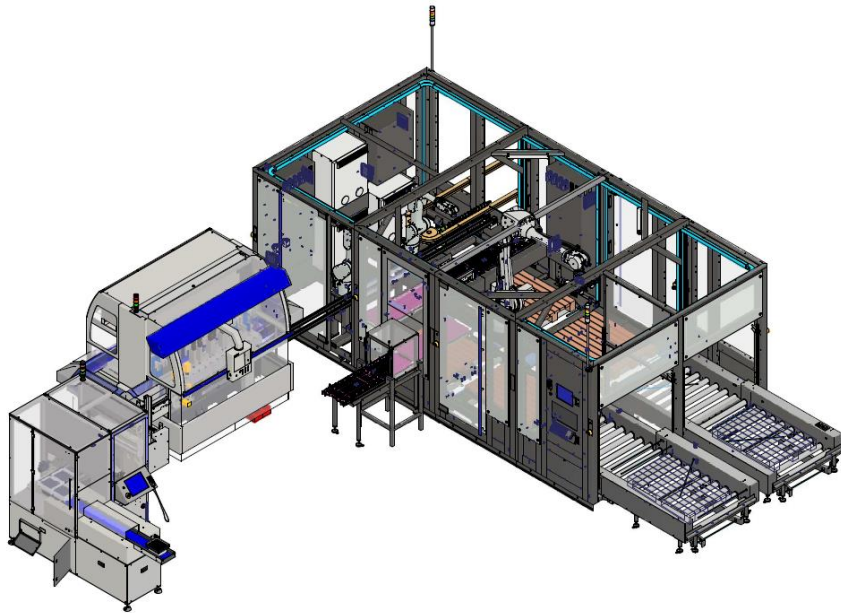
- > Ypsomed YpsoMate 1.0mL
- > Ypsomed YpsoMate 2.25mL
- > Potential similar devices





# Autoinjector Assembly System Fully Automatic 35–140PPM

## 3D Visualization



## System Description

- > Automatic loading/unloading (optional palletizing capabilities)
- > Footprint optimized for optional functionality (up to ~9.4m x 8.6m)
- > Med to high volume (35–140ppm)
- > Optional “multi-up” tooling add to increase output
  - > 35ppm (1-up)
  - > 70ppm (2-up)
  - > 105ppm (3-up)
  - > 140ppm (4-up)
- > Option to include standalone label application after the G05 cell
- > Option to include PFS inspections
- > PFS supplied in trays or tubs

## Supported Devices

- > Ypsomed YpsoMate 1.0mL
- > Ypsomed YpsoMate 2.25mL
- > Potential similar devices



# PFS Insertion-Force Monitoring

- Servo press or dedicated force & position transducers
- Insertion force and position check
- Fully controlled by servo press during the complete transfer and insertion process
- Parameters are adjustable (force, position, speed, acceleration)

