

JFP PP-One Stacker

The machines which require minimal training to operate



Laser Diode/Bar Stacker System STACKER – UNSTACKER

The PP-One Platform designed for accurate Pick & Place of delicate devices is a perfect tool for handling Laser Diodes/Bars.

Specific Laser Bars ejector kit is used to pick the Bars directly from wafer hoops

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The machine provides a simple solution for automatic placement of spacers devices, using a combination, of automatic Bars and Spacer Stackers.

Vision magnification is continuously adjustable... to achieve high accuracy placement, matching devices dimensions.

PP-One is a robust, and reliable mechanical concept, easy to use, flexible. Dry cycle: 250 p/h, requires only minimum training to operate.



SYSTEM: Basic PP-ONE

LASER-BAR ON WAFER

- Minimum component size 150*150µm
- Maximum Bar size up to 20mm
- Wafer Rings up to 100mm
- WafflePak, GelPak, 2"x2"
- Customized Pick-up Tool, upon application

VISION-ALIGNMENT SYSTEM

- Field of view: adjustable per camera Zoom, FOV= 2mm up to 20 mm.
- Vertical vision of Bars and package
- **Up to 3** CCD Color Vertical UHD cameras
1 vertical camera system per stage
- Digital CrossHairs per camera
- Adjustable digital video Box generators
- Monitor, 22"
- Ring LED lightings adjustable

STACKER

- Automatic STACK feeders: for Bars and Spacers
 - Stack Height up to 20mm
 - Stack, Theta alignment by micrometer
- Customized STACK Storage (magasin/cassette)

FEATURES/PARAMETERS

- Very Low Picking Force: <4 g
- Slow touch down speed for delicate device

TECHNICAL SPECIFICATION

Power: 100 / 230VAC 1kwatt
Dry air 5 bar
Vacuum: 90%
Dimensions: 700*680*800mm

CONFIGURATIONS

● Two Stages: Wafer to GelPak/ WafflePack

Pick Bar from Wafer, Place to GelPak
2 stages: 1 Eject system + 1 GelPak holder

● Two Stages: Wafer to Stacker

Pick Bar from Wafer, Place to Bar-Stack
2 stages: 1 Eject System + 1 automatic Stacker

● Three Stages:

Wafer / Bar Stacker/Spacer Stacker

Pick Bar from GelPak, Place to Bar-Stacker
Pick Separators / Place to Bar-Stacker

UNSTACKER

● Three stages: Stacker to GelPak or Tape

Pick Bar from Bar-Stack, Place to GelPak/Tape
Pick separators from Bar-Stack, Place back to Spacer-Stack

3 stages: 1 GelPak-Holder + 2 automatic Stackers

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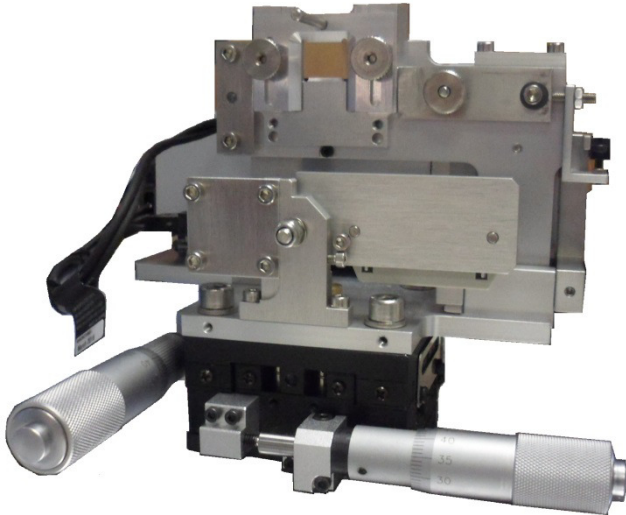
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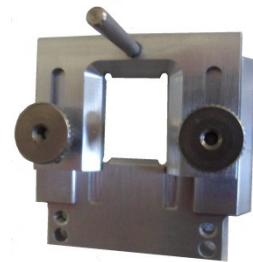
Laser Diode/Bar Stacker System



AUTOMATIC STACKER UNIT

- **Motorized Lift**
- **Linear chip detector**
- High Zoom capability

Magasin Cartridge for laser bars



PROCESS INSPECTION CAMERA

- application **VISION- SYSTEM**
- Inspection/Process
Camera+Zoom+Monitor
Workholders

FACET INSPECTION

• **Motorized Facets Inspection:**

- High Zoom capability
- Co-axial LED lighting
- Oblic LED light
- Intermediary chuck
- Full rotation 360° programmable
- Full facet length at high
- Programmable angles
- Programmable length
- Programmable step sequences
- motorized focusing control

AUTOMATIC X&Y OUTPUT for Gelpack

- X&Y table
- Travel: 100x100 mm
- Programmable matrix
- 1 à 4 wafflePacks
- Interface operator on remote pc

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