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...

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.

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 Stack**
  - 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 tages:** 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

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)

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

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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 waffle Packs
Interface operator on remote pc

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