

Automated, Fast Multi-DOF Alignment

GAIN RELIABILITY AND SAVE DEVELOPMENT AND PROCESS TIME

POSITIONING SYSTEMS

- 6 Degrees of freedom with hexapods or stacked motion systems for long travel
- High speed piezo scan/align system
- Allows for tracking capability to
- Compensate curing stresses during packaging
- Eliminate thermal drift
- Nanoscale resolution

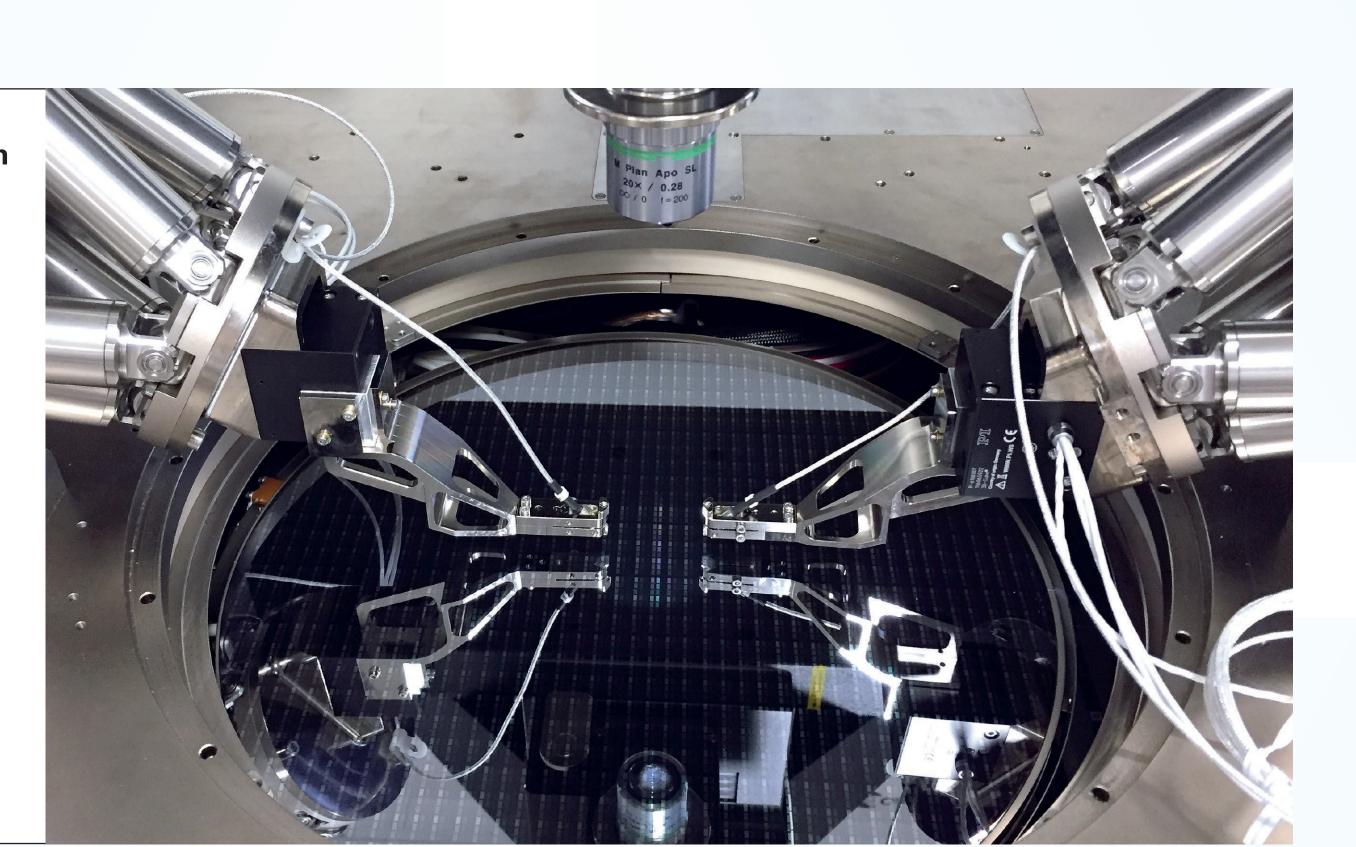






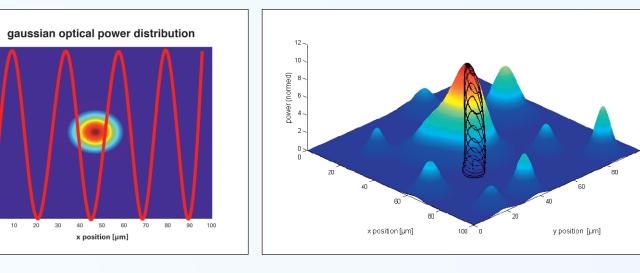


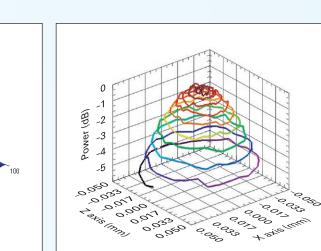
18-Axis double alignment system provides fast NxM alignment of SiP devices in wafer probers.
Cascade Microtech's pioneering CM300xi photonics-enabled engineering wafer probe station integrates Pl's Fast Multichannel Photonics Alignment systems for high throughput, wafer-safe, nano-precision optical probing of on-wafer Silicon Photonics devices. (Image: Cascade Microtech, a FormFactor company)



MOTION CONTROL, FIRMWARE OPTIONS AND ALGORITHMS

- Parallel optimization across numerous channels and degrees of freeedom
- Firmware routines for fastest peak finding
- Simultaneously aligning input, output, and multiple degrees of freedom
- Area scan algorithms, such as Spiral scan with constant angular or path velocity or sinusoidal scan
- Gradient search finds optimum uniquely fast
- Flexible Interfaces: Fast Ethernet TCP-IP, RS-232
- EtherCAT® option for real-time synchronization





OPTIONS AND ACCESSORIES

- Manual control unit
- Independent positioning of all Cartesian axes
- Velocity and step size can be set; motion stop and referencing
- Display of the position of all Cartesian axes,
 velocity, errors or pivot point
- Direct connection to the hexapod controller or PI MikroMove
- -Translate/rotate coordinate system anywhere

SERVICE SERVICE

- Calibrated optical power meter
- Large signal bandwidth of 20 kHz
- High dynamic range
- Wavelength range 400 to 1550 nm
- Current input range to 1 mA
- Logarithmic output
- Force control option





SOFTWARE RESOURCES

- Convenient API: Libraries for fast development in NI LabVIEW, Python, C++, Matlab,
- Supports various operating systems: Linux, macOS, Windows
- User software included in the package

