



Air Bearing Scanners

Providing high-performance laser scanning devices for a variety of imaging applications,

From automated optical inspection to high-resolution film recorders, our laser scanning devices are critical components of some of the most precise instruments.

CMM Optic designs and manufactures both aerodynamic and aero-static rotary air bearing scanners to meet your specific application needs.

By generating its own air bearing cushion as the spindle lifts off during rotation, the aerodynamic laser scanner provides advantages for applications where an air supply is not available. Our aerodynamic laser scanners provide high rotational speeds, high mechanical cross-scan accuracy and low jitter when used in conjunction with CMM Optic's spindle controllers.

CMM Optic's aero-static air bearing scanners provide optimal performance at all speeds. Suspended by pressurized air, the aero-static bearing is completely cushioned prior to dynamic rotation, enabling the device to deliver consistent performance from low-to-high speeds. The aero-static bearing provides extremely high stiffness for additional load carrying capacity and low repeatable spindle run-out errors.

FEATURES

- Rotation speeds from 1 - 100,000 RPM
- Contamination and maintenance free
- Infinite orientation of the spindle axis
- Low wobble or cross-scan error
- Low jitter or in-scan rotational error



Air Bearing Scanners

FEATURES

- Aerodynamic and aero-static design options
- Rugged design and sealed housing
- Choice of optical deflectors including monogons, polygons, cubes and prisms
- Brushless DC and AC hysteresis synchronous motors
- Closed-loop control electronics
- Speed and position optical encoders

APPLICATIONS

- Computer-to-plate image setters
- Health imaging film plotters
- Automated optical inspection systems
- Continuous web inspection devices
- Semiconductor microlithography equipment
- Laser projection and display systems

6.2020-R1

CMM Optic
2909 Waterview Drive
Rochester Hills, MI 48309

Sales Contact: tvette@cmmp optic.com
(248) 293-2900
www.cmmp optic.com