

Industrial inspection and metrology systems

The Industrial Inspection and Metrology (IMET) systems allow cosine to efficiently build industrial inspection and metrology systems. cosine has developed several industrial metrology and inspection systems based on the common IMET inspection and metrology platform, combining submicron motion control, advanced image analysis, interferometry and real-time data processing into sophisticated measurement systems for industrial applications.

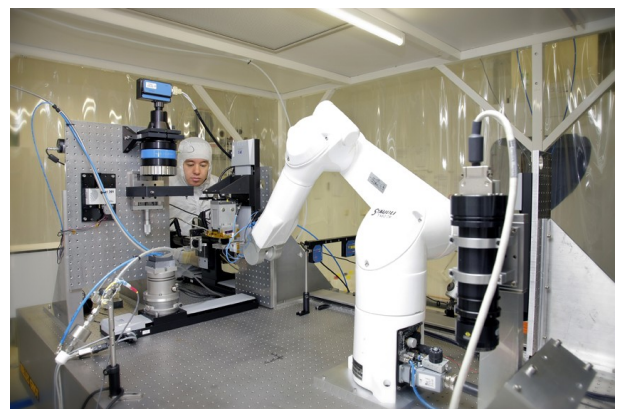
With IMET industrial inspection and metrology cosine provides real time control and data analysis for industrial and instrument processes. The IMET platform includes:

- embedded Linux control and data analysis
- advanced image analysis such as pattern matching
- high-accuracy translation and rotations stages
- networked controllers
- optical tables, vibration isolation
- optics
- wavefront sensors
- IR-VIS sources and spectrometers
- CCD array and line cameras
- industrial robots (Staubli)

and this list can be extended for your particular application.

cosine's concept for industrial and metrology systems provides real time data and analysis of your process and is based on state-of-the-art equipment and a modular approach

For more information about this product please contact
Dipl.-Ing Max Collon, m.collon@cosine.nl,
tel. +31 71 5284962



IMET Applications

In-line glass fibre metrology system

- The IMET In-line glass fibre metrology system is an inspection system to inspect up to 15 high-accuracy parameters of square glass fibers, such as bend, twist, size, asymmetry, wall flatness etc. This inspection tool works in line with the production process, giving real-time feedback to the production engineers.



Biometric authentication system

- The IMET Biometric authentication system, developed for a customer, is an integrated security system that inspects the heat pattern of the veins in the hand of a person and when authorized opens the lock of a door. The full security system has been integrated into the door handle mechanism, runs on open source software and is accessible by WLAN.



Other applications

- Stereoscopic camcorder
- Silicon plate stacking machine
- Broadband reflectivity metrology
- Particle contamination inspection system
- Laser altimetre breadboard
- Monitoring and analysis of electron, proton, ion, and neutron beams at accelerator facilities