

TECHNICAL DATA | MACHINE VISION SOLUTIONS



Machine Vision Solutions

inos
A Member of

GRENZBACH

INNOVATIVE SOLUTIONS FOR THE MANUFACTURING INDUSTRIES

inos is part of the strong and globally active Grenzebach Group. The Grenzebach infrastructure with manufacturing facilities on three continents and three major currency areas enables inos to service its customers locally throughout the world. inos offers sensor based robot guidance, inline metrology and quality inspection systems for the automotive and manufacturing industries. Applications implemented with inos patented G-Guide HPFit product are fitting of doors, hoods, roof modules, glass and other parts into the car body. The inos G-Gauge Gap&Flush product is used to verify the vehicles dimensions in the body shop and on the moving final assembly line. With its G-Verify products inos assures that only correctly built products move to the next production step or leave the factory to the end customer.

System Hard- and Software

inos automation systems are based on well proven standard industrial components. This concept ensures a high technical availability. The inos software processes the image data provided by the digital sensors and relays the information to the relevant applications. The implemented technology builds on more than 15 years of experience in the field of industrial image processing, metrology and robot guidance. The inos expertise and know how culminates in their software products. Through software upgrades inos customers quickly benefit from innovations at reasonable cost.

Engineering Services

inos can provide services and expertise starting from the design phase and ending with the completely commissioned system. Our experts can help optimize your production process by using vision based robotic guidance solutions. Or they can provide solutions to safe-guard and continuously optimize your production quality by using inline metrology and verification systems.

G-Guide – Robot Guidance Systems

- HPFit - High Precision Fitting
- HPPos - High Precision Positioning
- Depal - Depalletizing of KLTs
- Derack - Deracking of parts from transport containers

G-Analyzer

- Statistical process control tool
- Visualization of metrology data from sensors
- Visualization of robot movements and corrections
- Correlation of data sets

G-Verify – Inline Quality Inspection Systems

- End of Line Build Verify
- Power Train Verification

G-Gauge - Inline Metrology Systems

- Gap & Flush in Body in White
- Gap & Flush in Motion in the Final Assembly
- Inline Metrology Tunnels

G-Guide HPFit Hanging Lines

- Fitting of doors, hood, back-lids in the body shop
- Better than 0.3mm final fitting accuracy
- Patented best fit principle
- Gap & Flush as sensor data
- Simple & fast sensor replacement (< 15 min)



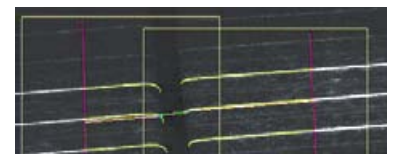
G-Guide HPFit Glazing Cells

- Fitting of front, back and side glasses
- Gap & Flush quality measurement
- Robust metrology on glass, rubber trim and colored surfaces



G-Gauge Gap & Flush on Moving Lines

- Robotic Systems
- Stationary Tunnel solutions
- Visualization synchronized to the line at any location in the line



G-Verify

- Exterior verification of vehicles on moving lines
- Verification of the power train built before marriage

