

jOSL
JOINING — SYSTEM

josy

JOINING SYSTEM

– HIGH-SPEED 3D INLINE INSPECTION

RELIABILITY TURNKEY PERFECTION IN 3D

Josy is a high-speed, all-in-one-system for non-contact visual 3D inspections, ideally suited to all joining technologies. Josy combines highly advanced sensors, a configurable software package and personal service to a perfect solution to support your 3D quality assurance effectively.

Josy boosts your product quality by returning accurate and reliable inspection results compliant to international standards.

- 100 % objektive inline inspektion 24/7/365
- ISO-compliant and measurement-friendly to VDA 5 standard, also ISO 58917 and ISO 10042

FLEXIBILITY VERSATILE SOLUTION

Josy – the innovative solution addressing a multitude of unique production requirements through its configurability and versatility. It perfectly utilizes the capability of our 3D triangulation sensors to create a highly accurate inspection solution.

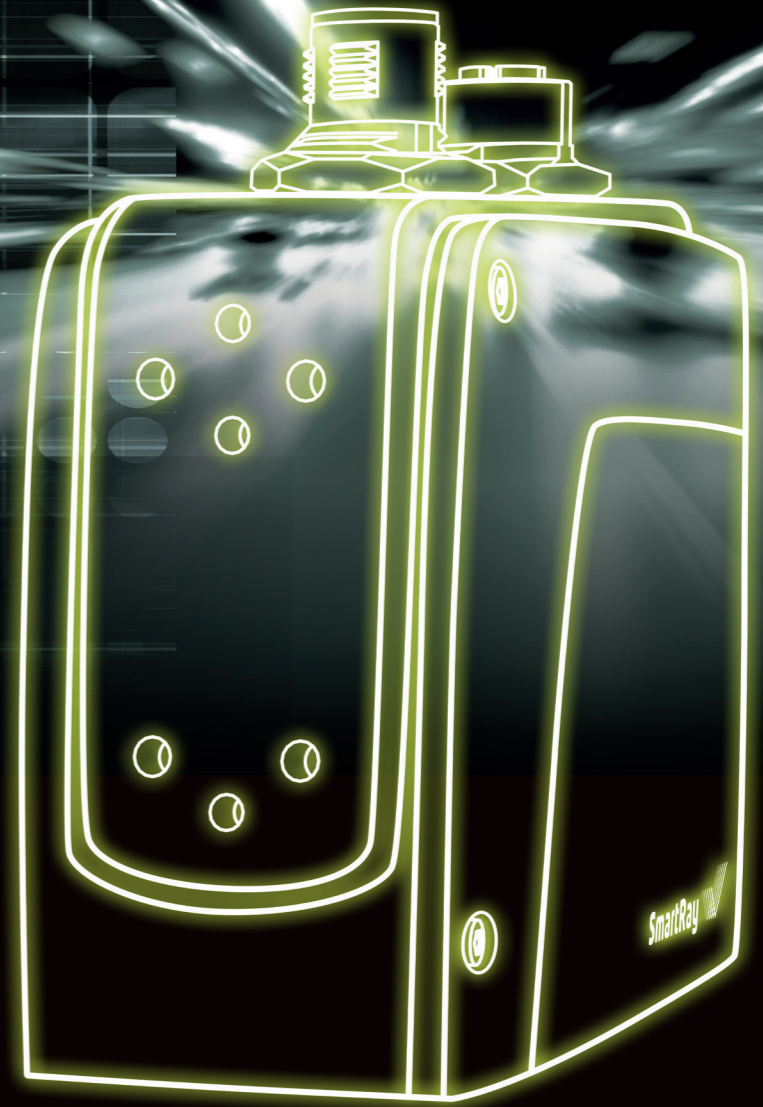
No matter whether it's steel, aluminum or plastic: Josy supports all joining technologies, from MIG/MAG and laser soldering, via riveting and clinching, through adhesive dispensing. Intelligent algorithms, and instant real-time feedback build your foundation to ensure and document constant product quality. The sophisticated statistical analysis package enable you to continuously optimize your process and reduce rework and quality cost. Our pre-configured systems can be installed rapidly and easily in your facility in less than two hours. The user interface is customizable to your requirements.

- Ease of use – intuitive status monitoring and rework guidance
- Comprehensive software for inspection, metrology and statistics
- Multiple user levels
- Embedded database – process monitoring & documentation
- Template based default settings for objective, standard compliant inspection



SOFTWARE

ALL-IN-ONE SOLUTION

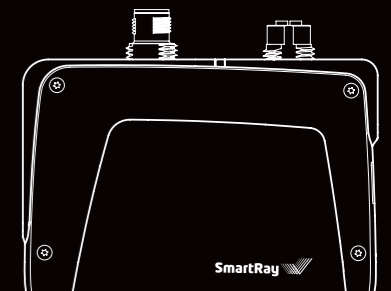
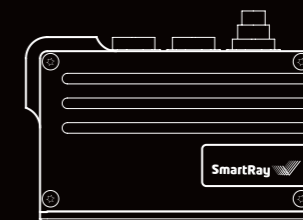


PERFORMANCE PRECISION FOR METROLOGY

SmartRay provides cutting-edge 3D vision technology and sensors with the smallest form factor designed for harsh production environments. Our 3D laser triangulation sensors are optimized and factory calibrated for precise metrology and inspection tasks. The combination of high quality components and innovative image processing software ensure perfect 3D images. All sensors have a sealed enclosure with IP 65 protection to work safely 24 hours / 7 days a week. Through the small form factor, applications, like robot mounted seam inspections, with limited space or limited accessibility can be solved.

Our comprehensive sensor portfolio enables you to implement a tailored solution for your unique inspection requirements. Our customers, leading automotive manufacturers, OEMs and numerous medium-sized companies, rely on the fully-automated inspection systems of SmartRay.

- Compact, light-weight and robust sensor design with excellent image quality (from 180 g / IP 65)
- High Speed: Inline seam inspection with scanning rated up to 8 kHz and scan speeds up to 400 mm/s
- SmartXtract reflection filter for ideal image quality under difficult conditions
- HDR real time image acquisition
- Detection of pores smaller than 0.1 mm
- Variable classes of laser class (2M / 3B)



SENSOR

ALL-IN-ONE SOLUTION

ASSISTENCE
ALWAYS AT YOUR DISPOSAL

You can experience the benefits of Josy even before deciding on a system: our specialists will give you comprehensive, project-specific advice on your choice of configuration – always considering maximum safety and profitability. We're your reliable partner in defining & integrating inspection solutions for new production lines. In this partnership, you will benefit from the experience and 3D competence of SmartRay – providing support tailored to your needs. Your business grows – Josy grows along with you. Thanks to the modularity of Josy, you can expand your solution for every new model or inspection requirement. Josy stands for excellent project planning, easy commissioning and professional after-sales support.

- Investment in quality with short-term ROI (typically within 12 months)
- Consultation on project design, economic-efficiency assessments, and on drafting the specifications.
- Operation & service support: Professional and efficient services tailored to your specific needs



2M

choice of laser class

3B

2 h

installation time

100%
24/7/356

true inline inspection

up to **8 kHz**
up to **400 mm/s**

high speed scanning

ISO 58917
ISO 10042
VDA 5

objective & compliant
with international
standards

down to **0.1 mm**

pore detection

180 g
IP65

compact & robust
sensors with superior
image quality

SERVICE

ALL-IN-ONE SOLUTION



If you need high-performance 3D measurements for seam inspection, SmartRay offers you top-notch quality and reliability. That's why we are among the leading system-suppliers for inspection checks: 3D laser-measurement technology has been in our company's DNA for over 10 years. We're focused on your requirements: we know and understand your business, your processes and all relevant standards in industrial production. That's how we're always able to come up with the optimal integrated solution for 3D inspection. Your success is our success.

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