

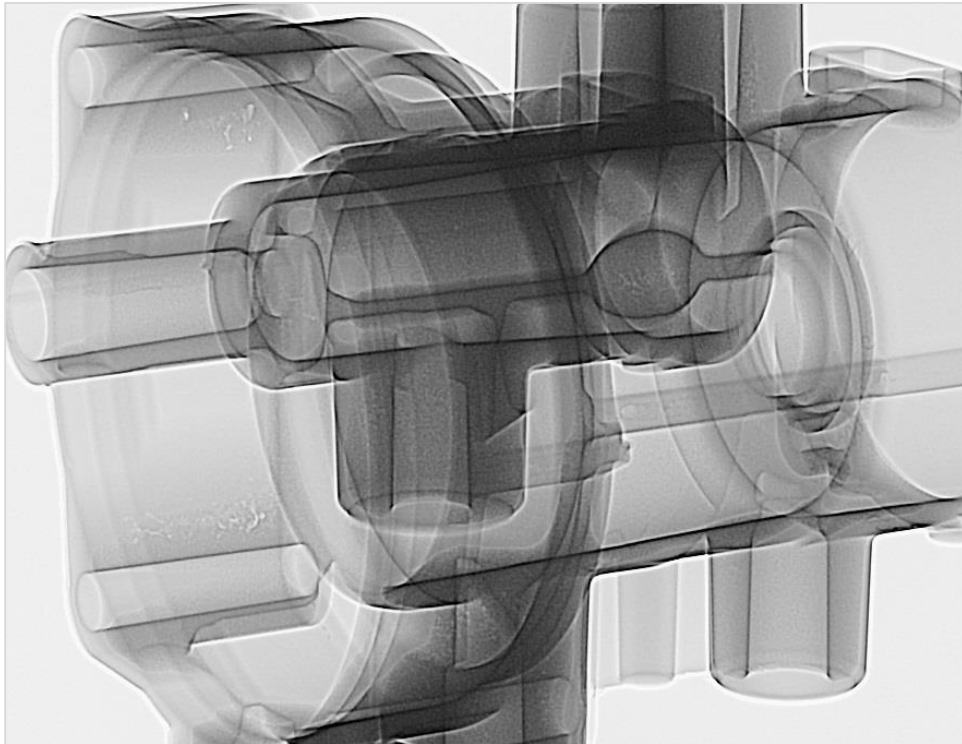
Turning inspection into productivity.

ZEISS BOSELLO OMNIA



ZEISS BOSELLO OMNIA

2D X-ray technology



WHY

With 2D X-ray technology you get **insights** about the quality of your parts.

HOW

By capturing your part, you can inspect defects beneath the surface. This reliable quality assurance can reduce costs by **detecting flaws**.

WHAT

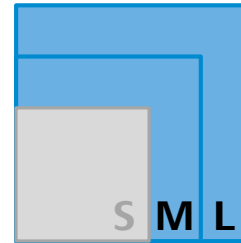
With ZEISS BOSELLO OMNIA you get **advanced 2D X-ray technology** for your **inline inspection**.

Fields of applications

ZEISS BOSELLO OMNIA



Part size



Part density



Industries



Automotive



Foundry



Aerospace

ZEISS BOSELLO OMNIA

Key characteristics



HIGH THROUGHPUT

Fast exchange of parts

A special loading concepts makes it possible to load and unload the system in only 5 s. For high throughput in your production!



CUSTOMIZABLE SOLUTION

The perfect fit for your needs

Get a totally customized and flexible solution for your needs! The system can be configured individually so that it fits perfectly into your production line.



ROBUST AND RELIABLE SYSTEM

For continuous use in the harsh production environment

Its strong and robust construction make ZEISS BOSELLO OMNIA the perfect fit for the continuous use in the harsh production environment – 24/7.



FULL FLEXIBILITY

When inspecting different parts

Due to the clever pallet concept, various types, sizes and forms of castings can be inspected.



AUTOMATED EVALUATION

With the ADR software Visual Faris

The self-designed and developed ADR software FARIS enables fully automatic X-ray inspection of different kinds of castings independent of the operator.



BEST SERVICE

Thanks to worldwide service and 24/7 support

Native speaking service technicians and trainers are available close to you – 24/7 to keep downtime at a minimum level.

#1

Save time

#1 Save time

For high throughput



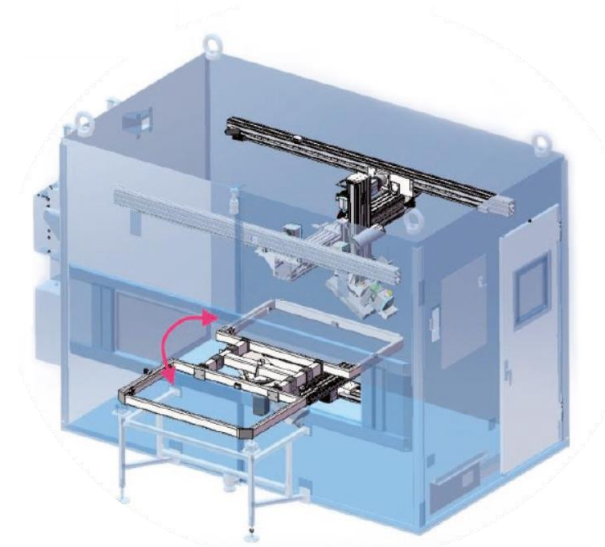
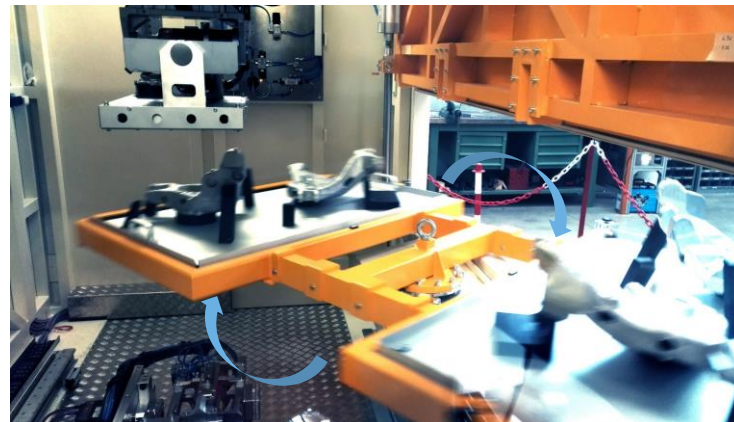
Technical explanation and example

- The castings move from outside the cabinet to the inside inspection position by a rotating motorized mechanism with two pallets-holders placed at 180 degrees.
- This rotating loading table ensures a parallel scanning and loading option.
- Loading and unloading the system takes only 5 s.



How you benefit

- Idle time between inspection of the two tables is kept at a minimum.
- Fast and continuous cycle inspections.
- Allows high throughput.



#1 Save time

Automated exchange of parts



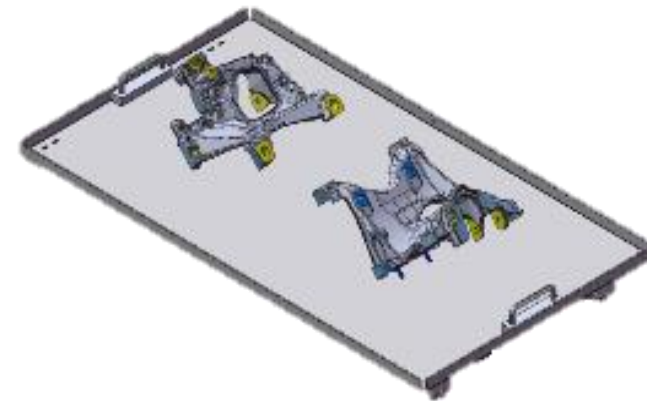
Technical explanation and example

- The innovative pallet concept is an easy and fast adapting to any kind of castings. The pallets are made of aluminum with specific plastic fixtures which are provided with RFID sensors.
- After changing the pallets, the system does not require any new setting: it will automatically run the right program and inspection cycle corresponding to the pallet type loaded.



How you benefit

- Multiple parts can be inspected on the same pallet.
- Inspection process does not need to be stopped if different parts are inspected.
- Allows fast and continuous cycle inspections for high throughput.



#2 Customizable solution

#2 Customizable solution

The perfect fit for your needs



Easy integration & adaption

ZEISS BOSELLO OMNIA can be integrated into your specific robotic working cell.

Personal interface

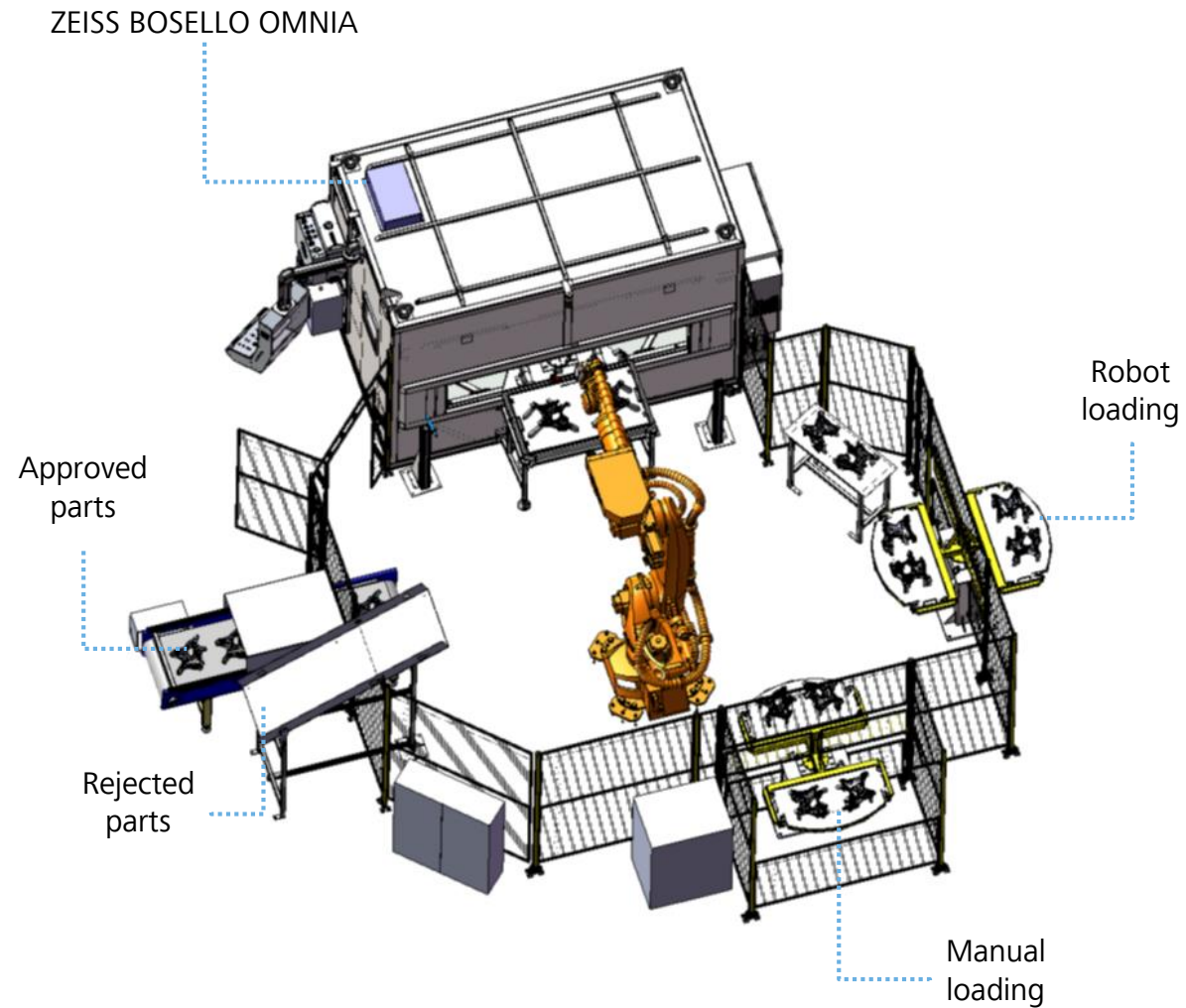
Marking and identification features such as remote operator unit and special interfaces are available on request.

How you benefit

Totally customized and flexible solution for your needs.

#2 Customizable solution

Full integration into your production line



#2 Customizable solution

Additional features



High-level customization

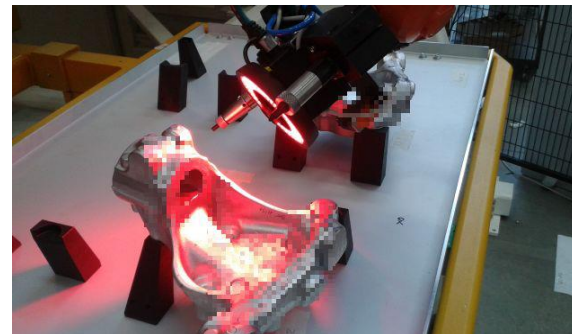
ZEISS BOSELLO OMNIA can be enhanced with different additional devices which allows to mark, identify and load parts.



Marking system



ID system for part identification



Robotic ID and Marking



Safety devices for manual loading

#3

Full flexibility

#3 Full flexibility

When inspecting different parts



Technical explanation and example

- Due to the clever pallet concept, various types of castings can be inspected.
- Pallets can be removed and changed quickly without using any tools.
- Optimized to work in an automatic production line interfaced with an external robot.



How you benefit

- Full flexibility if you need to inspect different parts with various sizes and morphology.
- Pallets can be removed and changed in just a few minutes.
- Manual loading/unloading operations possible.



#4

**Robust and reliable
system**

#4 Robust and reliable system

For continuous use in the harsh production environment



Technical explanation and example

- Strong and robust mechanical structure.
- The reliable system ensures an automated 100% inline inspection for multi-shift operation in your production.



How you benefit

- Long and continuous use in a heavy industrial environment – 24/7.
- Keep downtime at a minimum.



#5 Automated evaluation

#5 Automated evaluation

With the ADR software



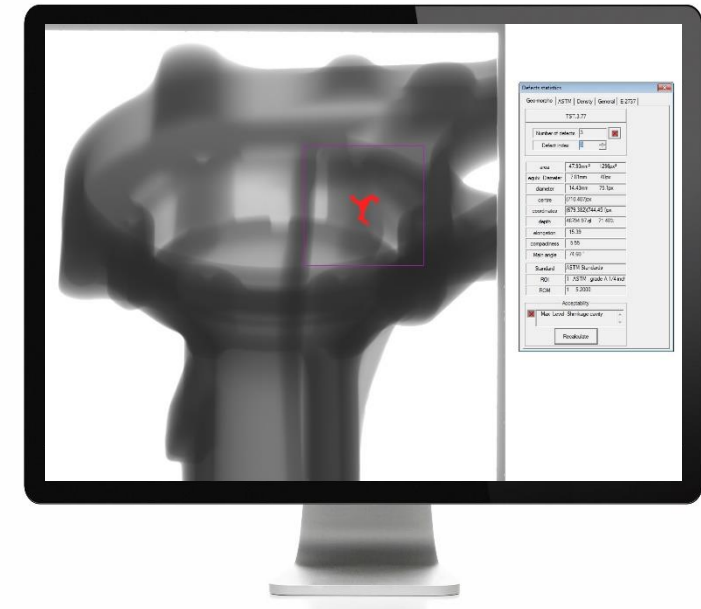
Technical explanation and example

- Automatic Defects Recognition offers features for imaging technology on automated defect recognition for industrial X-ray applications.
- The self-designed and developed software enables fully automatic X-ray inspection with the ADR software for different kinds of castings.



How you benefit

- Can be customized to comply with specific user acceptability standards.
- Allows real-time production monitoring and management.



#6

Guaranteed stability

#6 **Guaranteed stability**

State-of-the-art generators developed in-house



Technical explanation and example

- Our proprietary high-voltage generators are advanced products for different applications.
- High kV stability is guaranteed through an electronic control system that compensates possible fluctuations and micro-interruptions on the main supply line in real time.
- Two built-in automatic X-ray tubes warm-up programs are available: management and protection functions implemented in our generators' control electronics ensure proper X-ray tube operation, as well as an extended operation life.



How you benefit

- Solution out of one hand guarantees a stable operation of the system.
- Long operating life of the generator keep costs low.
- Know-how inhouse for fast support in case of breakdown.

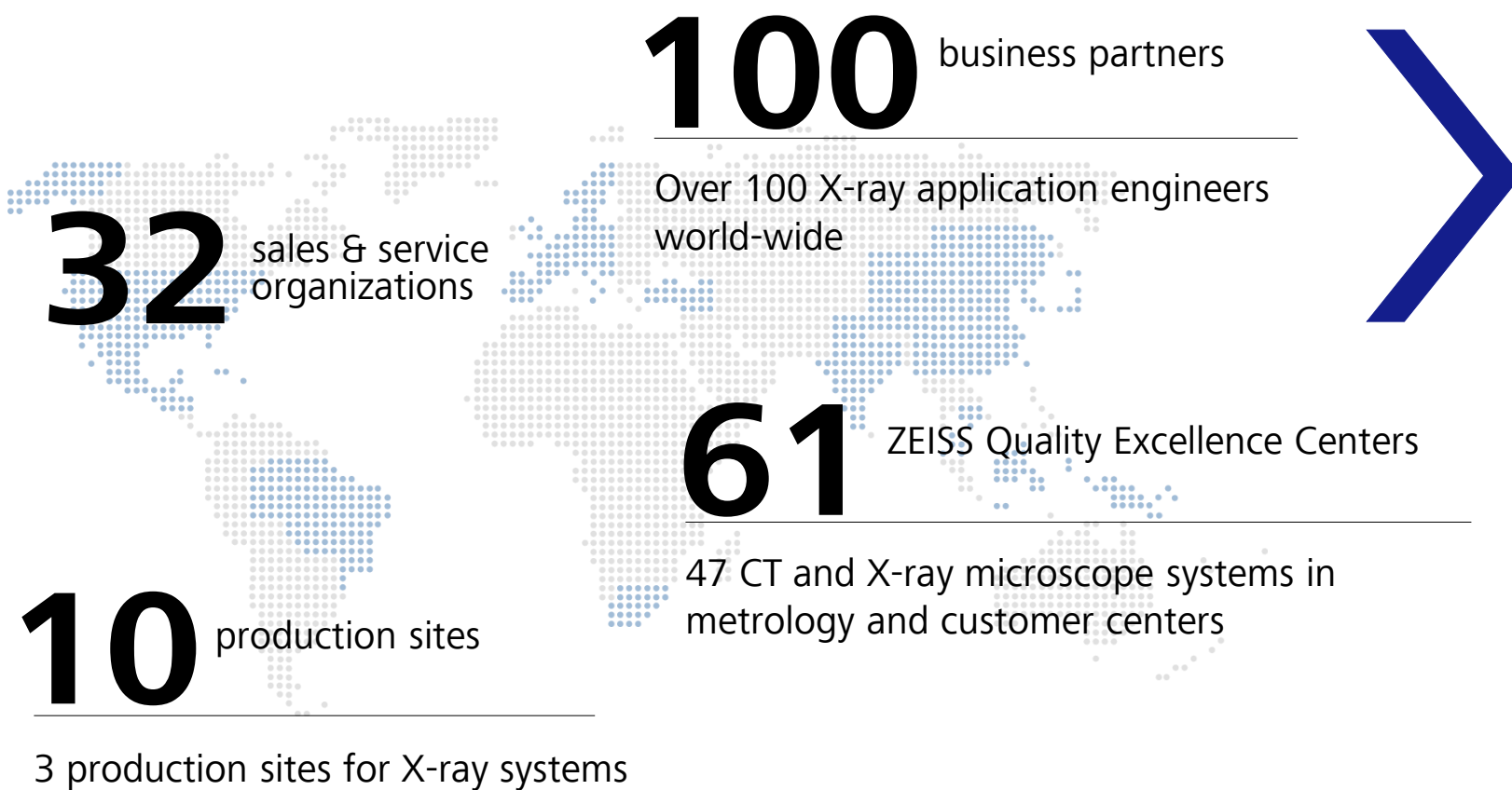


#7

Best service

#7 Best service

Thanks to worldwide service and 24/7 support



How you benefit

- ZEISS know-how & application technicians available globally.
- Service & support very close to the customer means fast reaction times.
- Less downtime and more security.
- All spare parts on stock for fast support
- With our global ZEISS service we guarantee fast and reliable support to meet your up-time requirements.

#8

One-stop
solutions provider

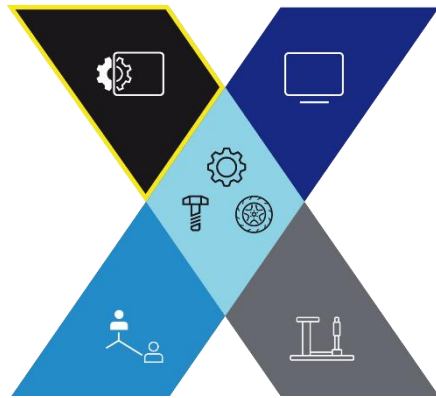
#8 One-stop solutions provider

We provide you the optimum solution for your needs



Technical explanation and example

- Not only a system but a solution will be provided, including software, accessories, and services.
- ZEISS offers a full package of software for image acquisition, reconstruction, visualization / evaluation and data management out of one hand - for a smooth workflow.



How you benefit

- One contact can help in case of problems
- All tools are aligned with each other
- Customer gets customized solution based on their requirements and application
- With the full software package the customer gets full control over the entire production and quality assurance process

#8 One-stop solutions provider

ZEISS X-Ray Series



SYSTEMS



2D radiography
Computed tomography
X-ray microscopy

SOFTWARE



Image Acquisition
Image Evaluation
Data Management & Industry 4.0

ZEISS X-Ray Series
Make the Invisible Visible

APPLICATIONS



Additive manufacturing
Alu casting
Battery
Blade
Electronics
Oil & Gas

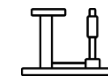
Plastic parts
Composites
Multi-material parts
Assemblies
Material research
Life sciences

SERVICES



On-site trainings
Classroom seminars
eLearning

ACCESSORIES



Sample holders
Set-up table

Retrofit solutions
Automization solutions

#9

**Configuration
standards**

#9 Configuration standards

ZEISS BOSELLO OMNIA



Compatible Software

- BHT IP PLUS
- Visual Faris

**Turning inspection
into productivity.**

ZEISS BOSELLO OMNIA

