b&w solutions

Scanner measuring systems QUANTUM

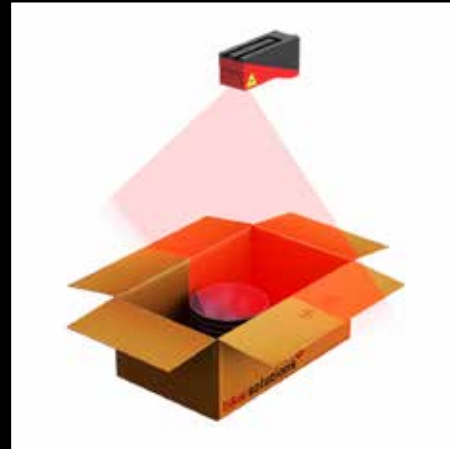### The right system for every application.

Only the software makes a scanner to an intelligent system.

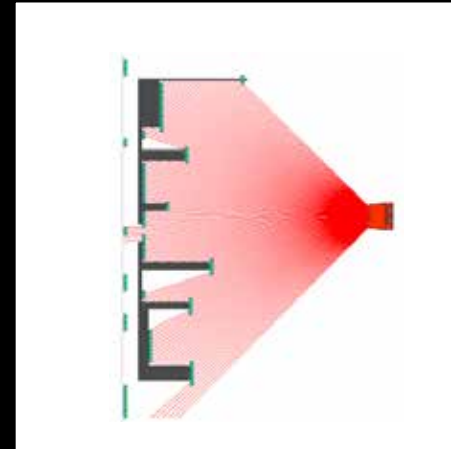*Precise measuring, recognition, comparing and much more …*
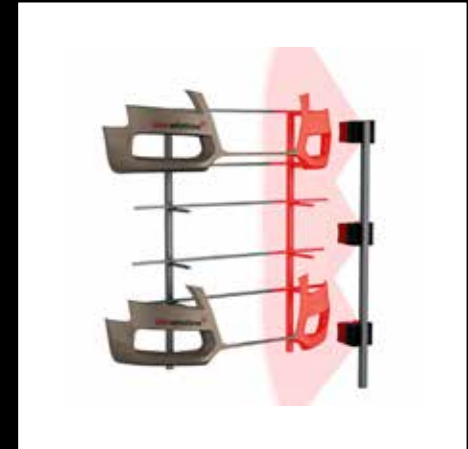
Scanner measuring system *QUANTUM*

b&w solutions
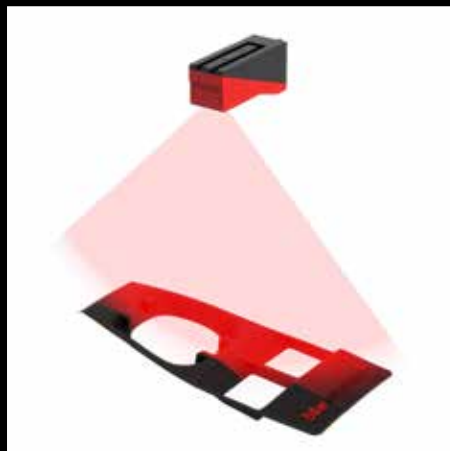
QUANTUM Frame
Pallet shape control

QUANTUM Volumina
Volume measurement

QUANTUM Altum
Depth scanning
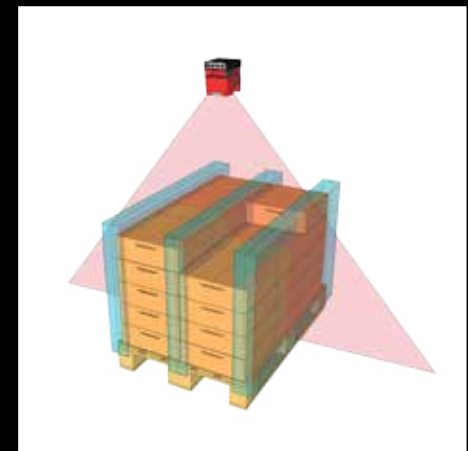
QUANTUM Typus
Type-/product recognition

QUANTUM Figura
Object measurement

QUANTUM Statum
Position sensing

QUANTUM Arca
Crate fill-level monitoring

QUANTUM
Packaging units count

QUANTUM *Frame*
Pallet shape control

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Measurement
- Length
- Width
- Height
- Volume
- Overhangs
- Overloads

Technology
- QUANTUM Ultro
- QUANTUM Continuus

Applications

- Quality control of incoming and outgoing shipments
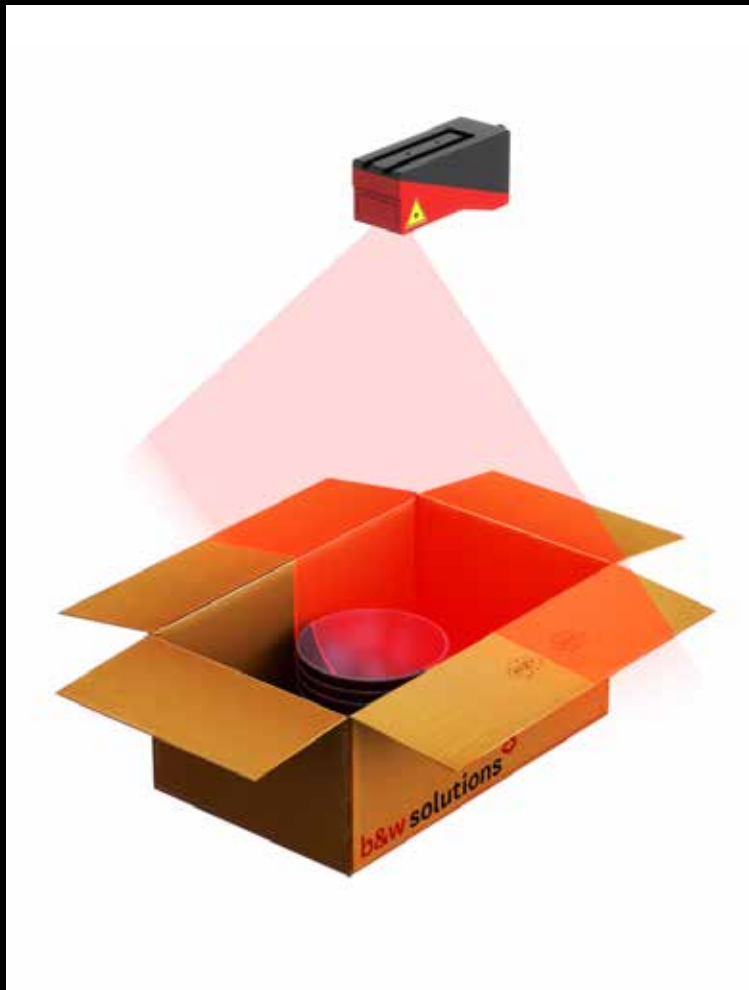- Freight-, Warehouse-, Shipping- and process optimizing

b&w solutions

scanning   loose-fill   technology   machinery   scanning   packaging

b&w solutions

Germany

solutions

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ww   w-solutions.com

handle applying

smart.loose-fi

3D-Scanning

PalScan3D XE   XE CC 9100.009
ContourChecker

Laenge(mm) Breite(mm) Hoehe(mm)   Inspektions-Ergebnis:
6   350 1490   **NIO**

Produkt-Typ:

QUANTUM Frame
Pallet shape control

Project: Logistics center
*Mission: Measurement of length,
width and height of the pallets*

QUANTUM *Volumina*
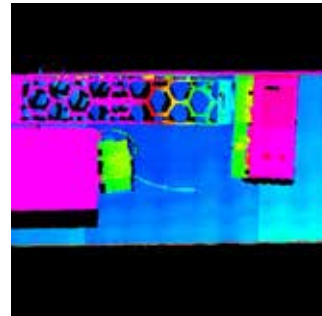## *Volume measurement*

Measurement
- Residual volume
- Void volume
- Full volume
- Overfilling

Technology
- QUANTUM Maxime
- QUANTUM
  ~ Continuus
  ~ Simplex
  ~ Medius
  ~ Animus

Applications

- Flips filling machine Flipsmaster
- Paklink (STOROpack)
- Monitoring of high racking lists
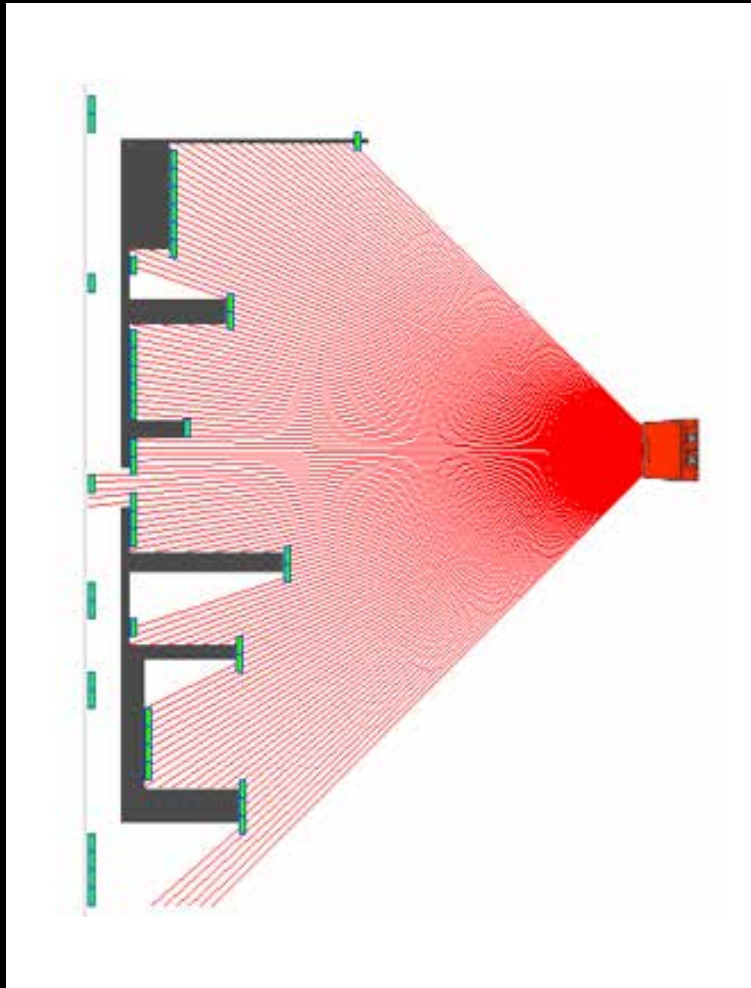
QUANTUM *Volumina*
Volume measurement

Project: Mail order business
Mission: Measurement rest volume
          of shipping packages

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QUANTUM *Altum*
Depth scanning

Measurement
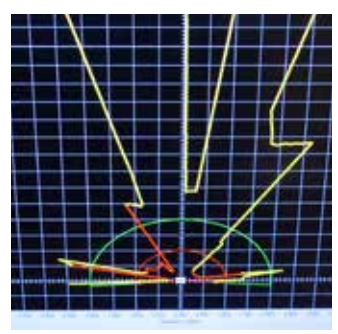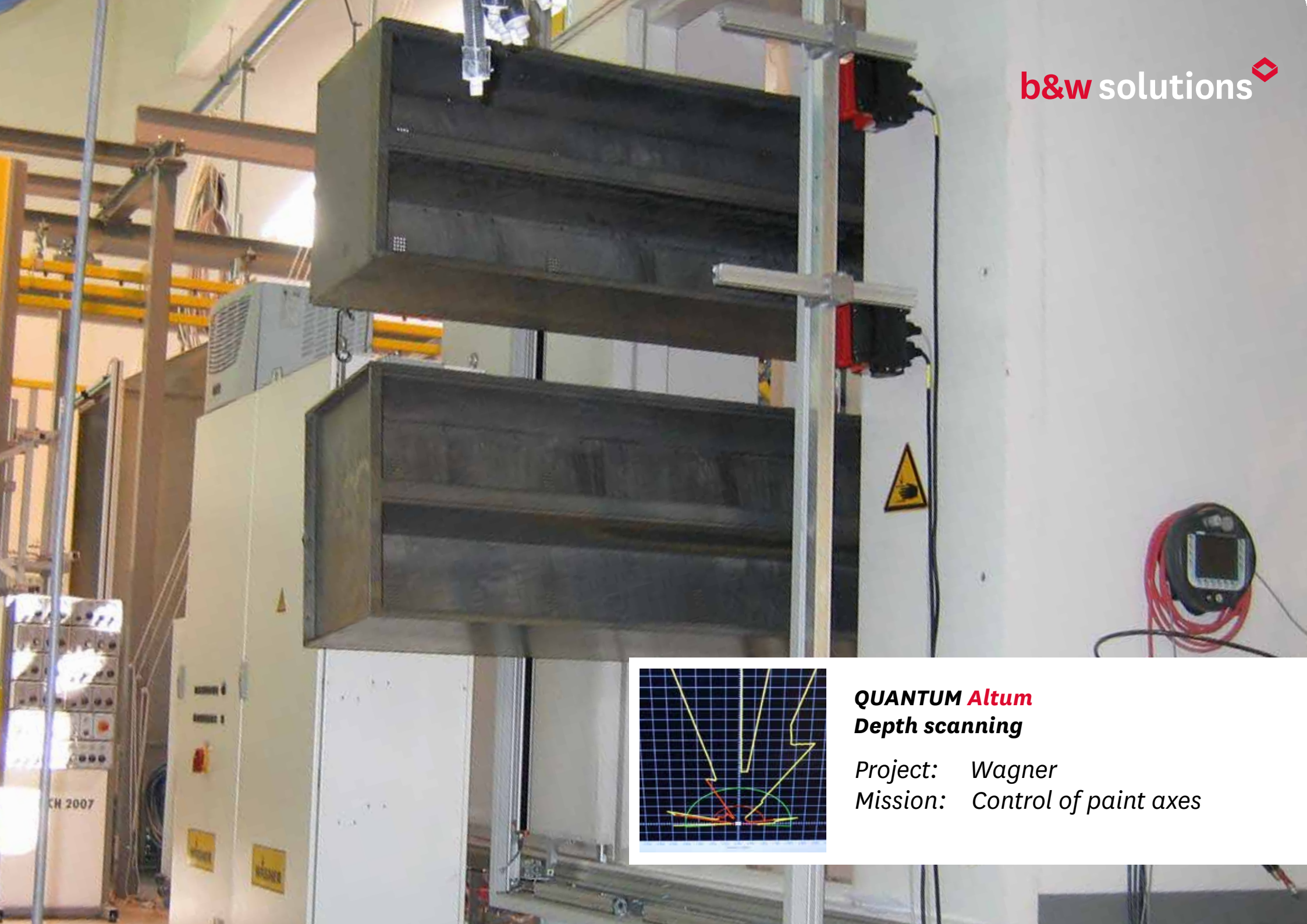
- Contours
- Elevations

Technology

- QUANTUM Planum
- QUANTUM Continuus
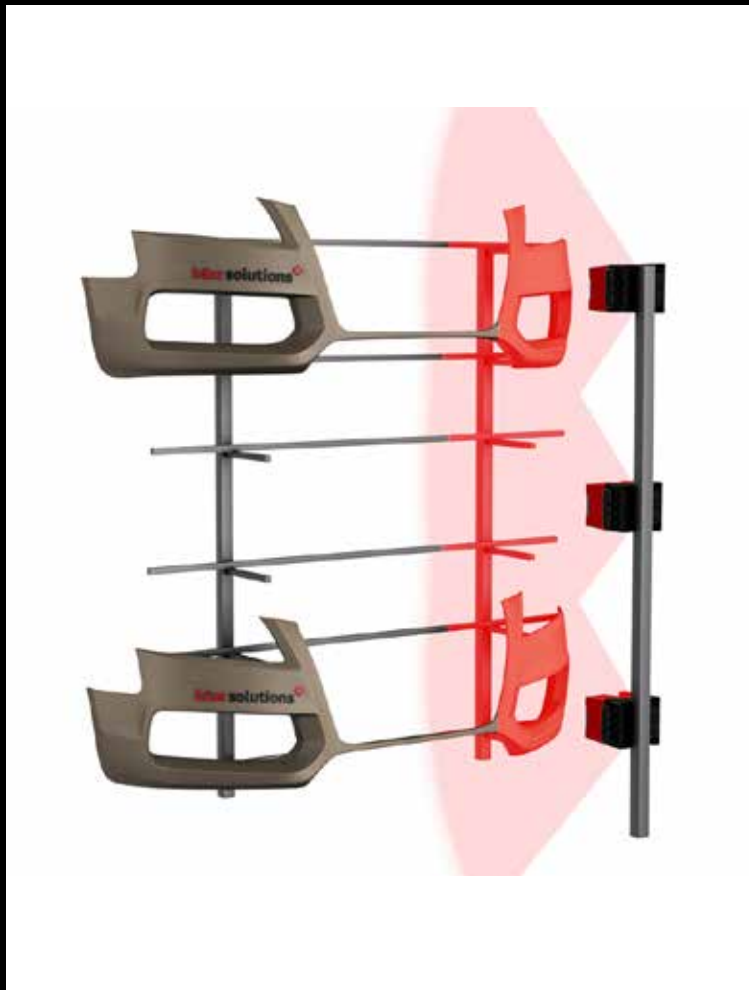
Applications

- Powder coating booths
- Paint shops

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QUANTUM Altum
Depth scanning

Project: *Wagner*
Mission: *Control of paint axes*

QUANTUM *Typus*
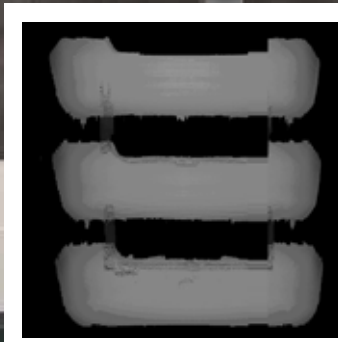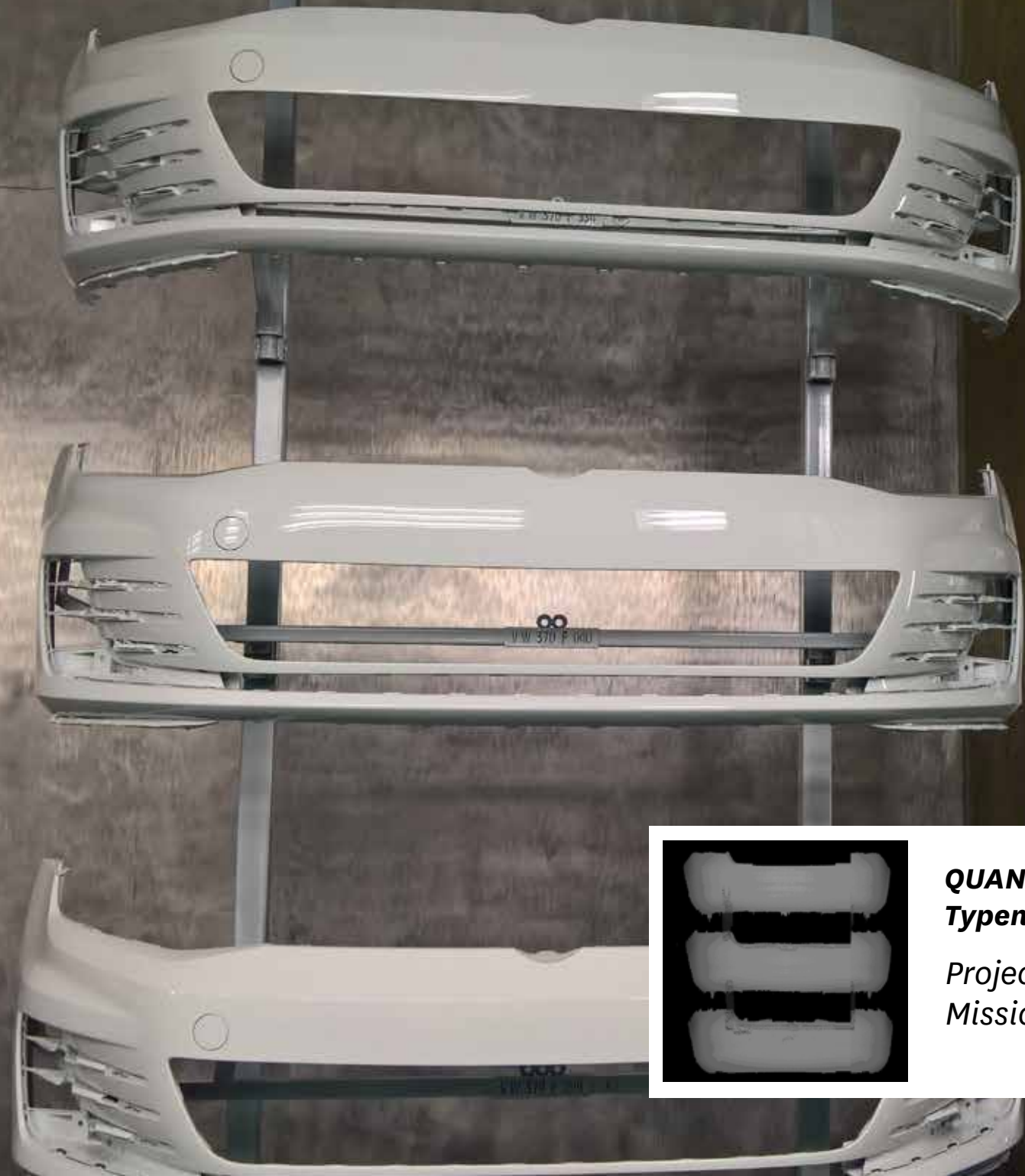### *Type- and product recognition*

Recognition
- Distinction
- Missing parts
- Identification
- Crash protection of spray guns

Technology
- QUANTUM Planum/Ultro
- QUANTUM
  - ~ Medius
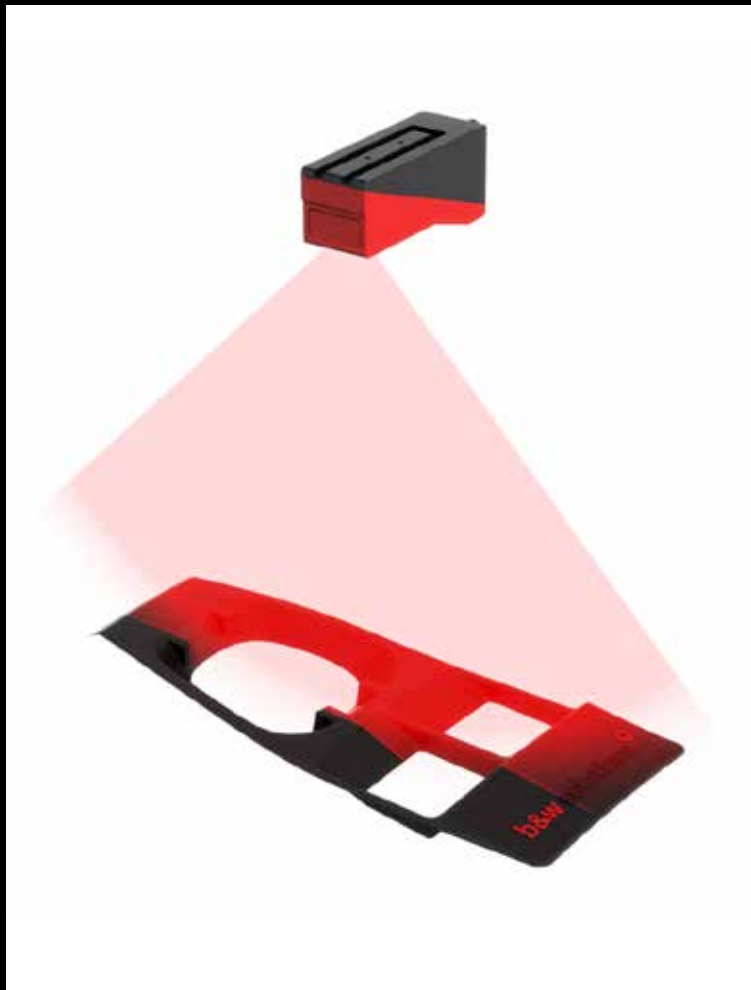 - ~ Maximus

Applications

- Magna paint shops
- Porsche saddlery
- Control cabinet identification in powder coating

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QUANTUM *Typus*
Typen- and product recognition

Project: Magna Liberec (CZ)
*Mission: Detection of position,
               missing parts and type*

QUANTUM *Figura*
Object measurement
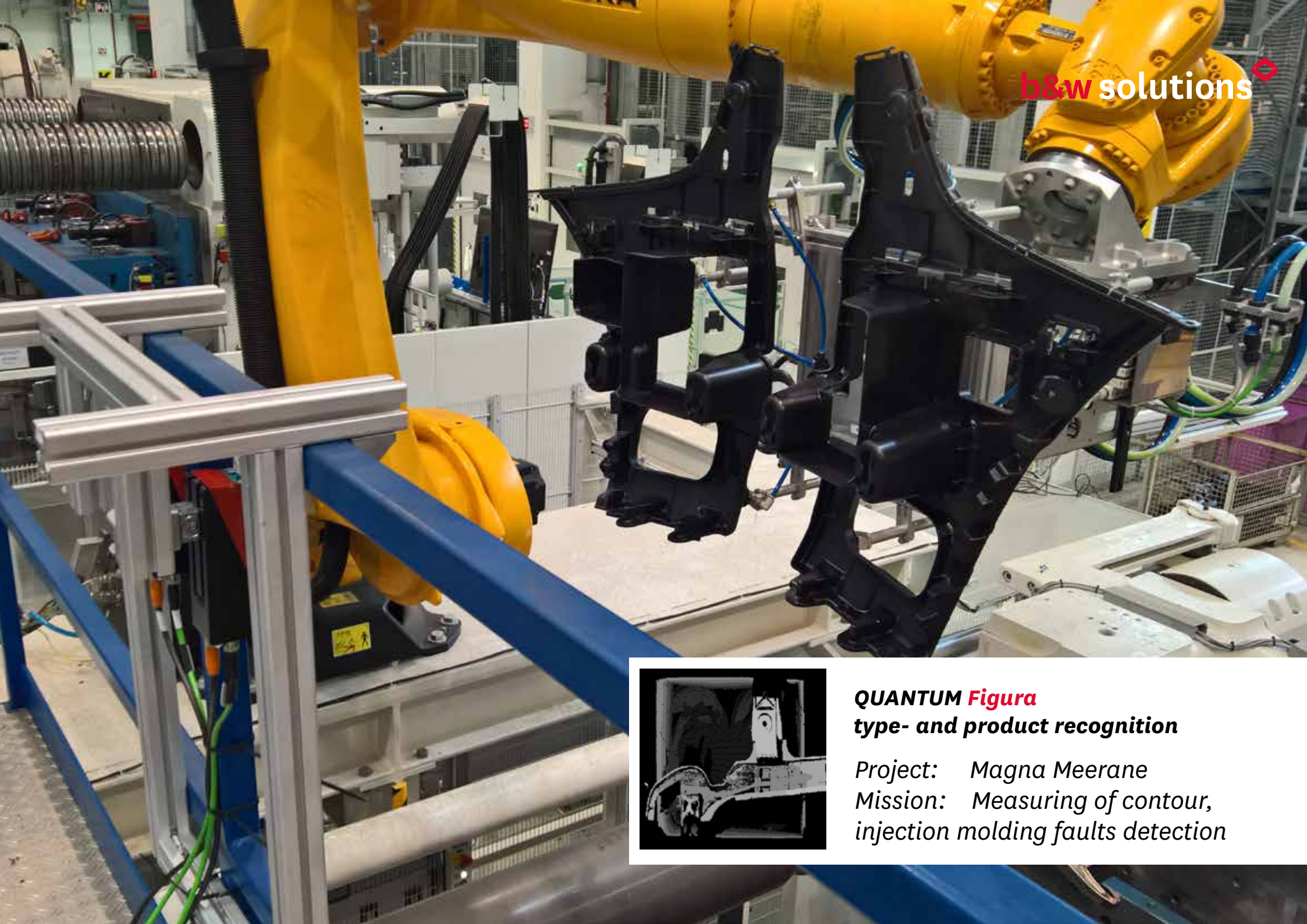

Measurement

- Contour
- Measurement data to 0,1 mm

Technology

- QUANTUM Maxime/Vis
- QUANTUM
  - ~ Medius
  - ~ Maximus
  - ~ Animus

Applications

- Measuring plastic injetion molded parts after injection process for errors
- Measuring racks on deformations

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QUANTUM _Figura_
type- and product recognition

Project: Magna Meerane
Mission: Measuring of contour,
injection molding faults detection

QUANTUM *Statum*
Position recognition

Measurement
- Points in coordinate system
- Alignment of parts

Technology
- QUANTUM Maxime/Vis
- QUANTUM
  ~ Medius
  ~ Maximus
  ~ Animus

Applications
- Bolt circle position in rims
- Position of parts on conveyor for work with roboters
- Handing over coating coordinates to roboter

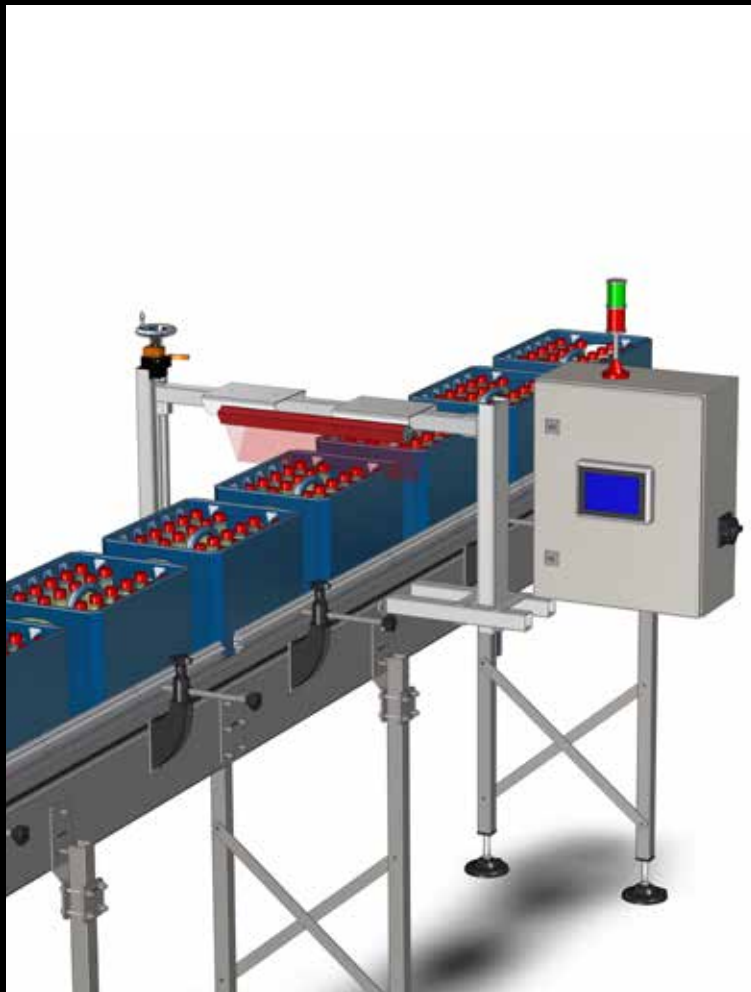**QUANTUM Statum**
Position recognition

Project: Wagner
Mission: Recognition of bolt circle
            position in rims

QUANTUM *Arca*
Crate fill-level monitoring

Recognition

- Completeness in the crate
- Disturbing body in the crate
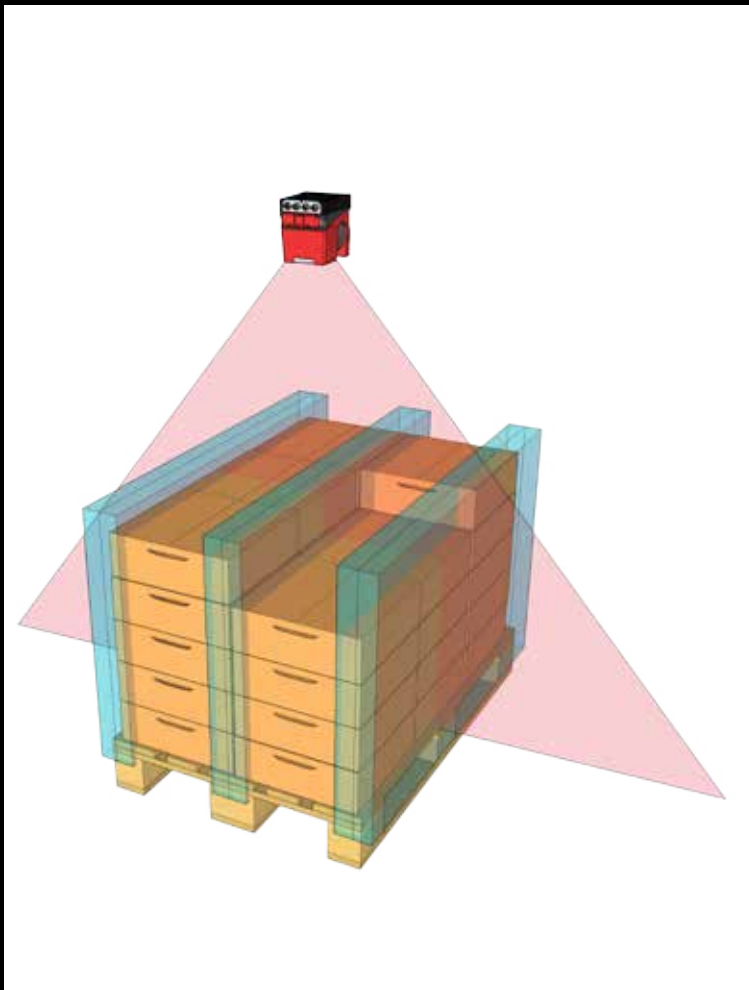
Technology

- QUANTUM Ultro/Vis
- QUANTUM Continuus

Application

- Beverage industry

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QUANTUM *Arca*
Crate fill-level monitoring

Project: Beverage industry
Mission: Check completeness and bodies in the crate

QUANTUM *Numerus*
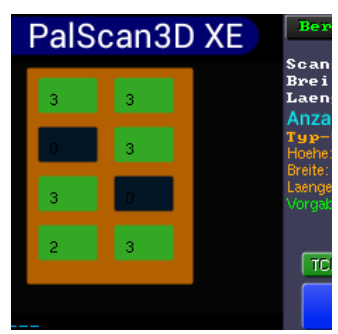## *Packaging units count*

Detection
- Number of packages on the pallets
- Volume, length, width, height

Technology
- QUANTUM Planum
- QUANTUM
  ~ Continuus
  ~ Medius

Application

- Monitoring and verification in the picking

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PalScan3D XE

QUANTUM *Numerus*
Packaging units count

Project: Picking
Aufgabe: Number of packages
           on pallets

Scanner types

QUANTUM Maxime
Line profile sensor

QUANTUM Planum
Exhaustive distance sensor

QUANTUM Lector
Stationary barcode reader

QUANTUM Procul
Optical distance sensor

QUANTUM Viso
Smart camera

QUANTUM Animus
3D-profile sensor

QUANTUM Ultro
Light grid

QUANTUM Vis
3D-sensor

Evaluation variations

QUANTUM
Continuus

- Compact controller
- In-house development
- Fast and solid
- Comaptible with:
- *Maxime (up to 3 pieces)*
- *Planum (up to 4 pieces)*
- *Procul (2 pieces)*
- *Ultro (2 pieces)*

For simple evaluation work!

QUANTUM
Simplex

- Industrial compact PC
- Passively cooled
- SSD hard disk
- Windows 7
- Volume measurement/ Flipsmaster
- Comaptible with:
- *Maxime (1 piece)*
- *Planum (2 pieces)*
- *Procul (2 pieces)*
- *Ultro (2 pieces)*

For simple evaluation work!

QUANTUM
Medius

- Industrial compact PC
- Passively cooled, extended temperature range
- SSD hard disk, CPU i7
- Windows 7
- Comaptible with:
- *Maxime (2 pieces)*
- *Planum (2 pieces)*
- *Ultro (2 pieces)*
- *Animus (2 pieces)*
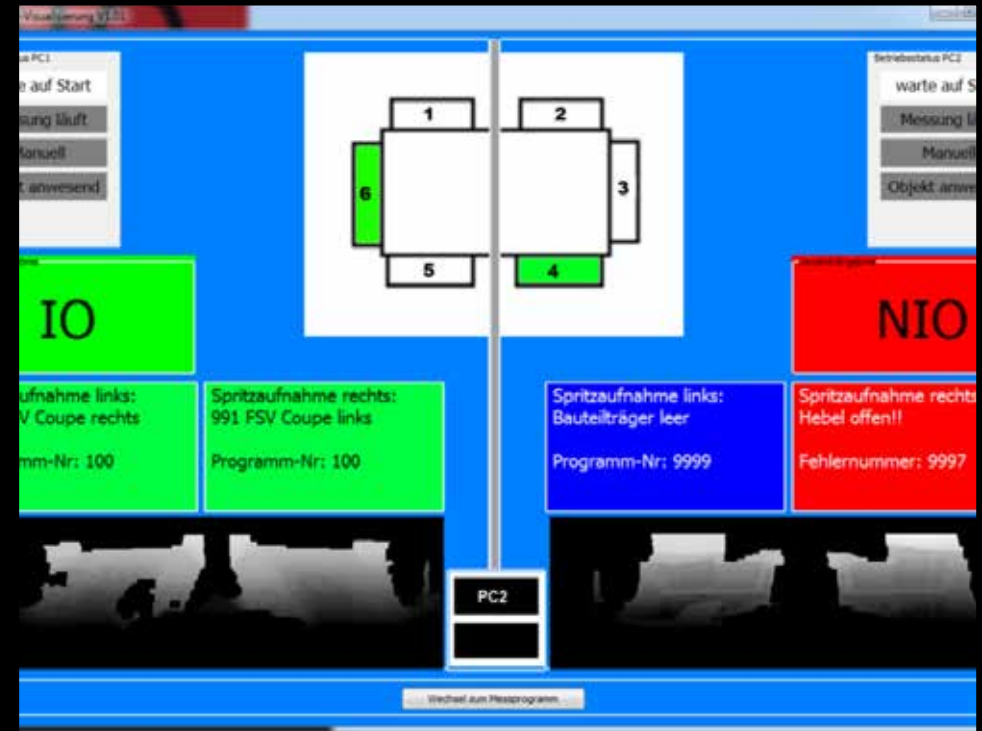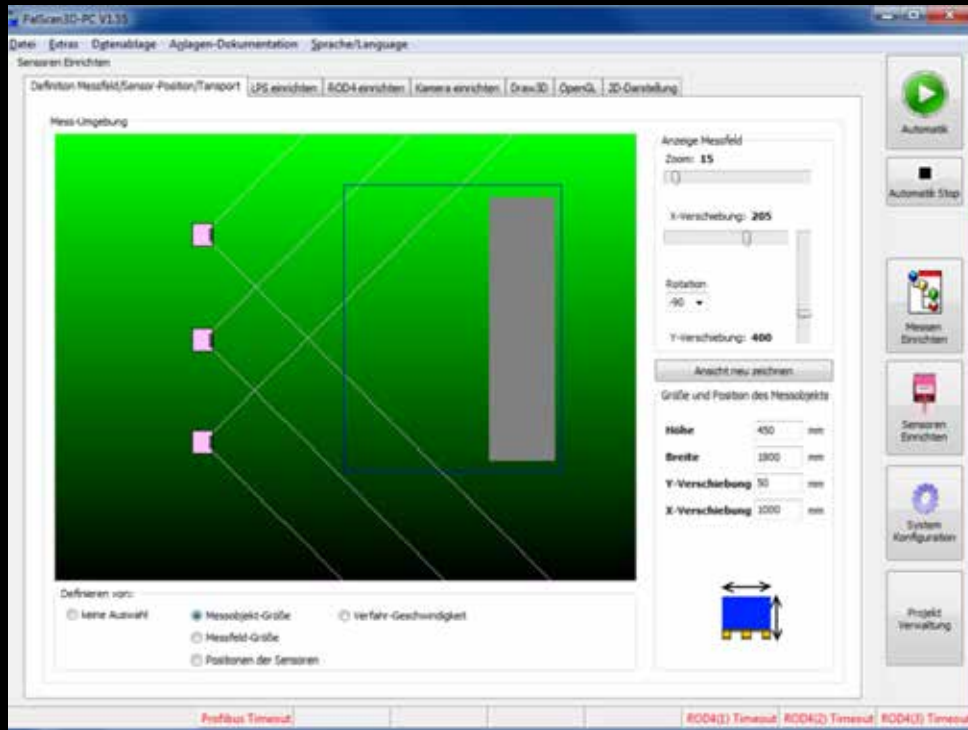- *Vis (2 pieces)*

For middle evaluation work!

QUANTUM
Maximus

- Measurement 19" Rack
- 2 x SSD hard disk
- CPU i7, 16 GB Ram
- Nvidia GTX graphic for evaluation
- Windows 7
- Comaptible with:
- *Planum (up to 6 pieces)*
- *Maxime (4 pieces)*
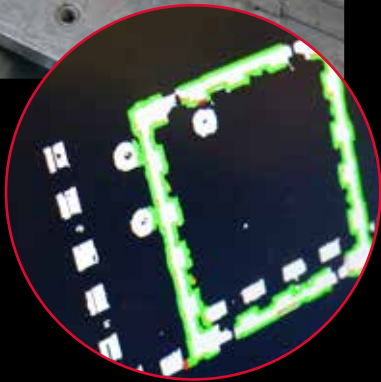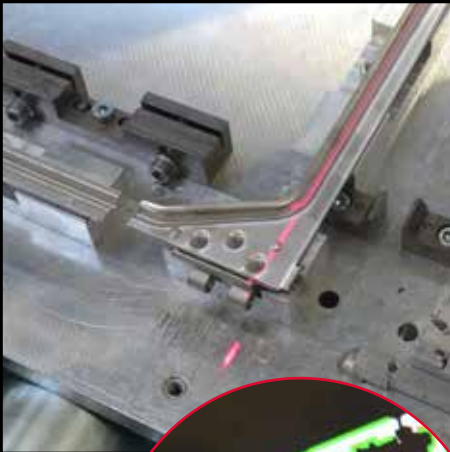- *Ultro (2 pieces)*
- *Animus (1 piece)*
- *Vis (1 piece)*

For larger 3D evaluation work!

QUANTUM *Omni*
Analysis software

Connection to all QUANTUM scanners and evaluation devices with individual adaption via graphical controls. Multilingual interface with fast result display and SPS connection.
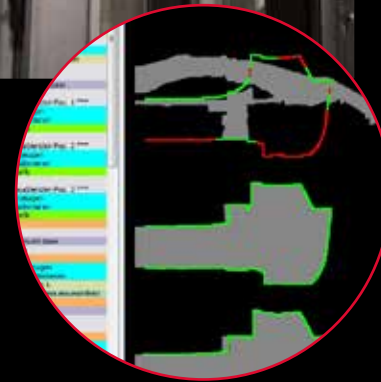
QUANTUM *scanner measuring systems*
Infinite applications ...

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QUANTUM Statum
*Position sensing
of industrial objects*

QUANTUM Figura
*Surveying
of industrial objects*

QUANTUM Typus
*Automobile parts
detection*

QUANTUM Volumina
*Volume detection
in transport boxes*

REFERENCES Scanner measuring systems

b&w solutions

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We look forward to you!

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