Photoneo

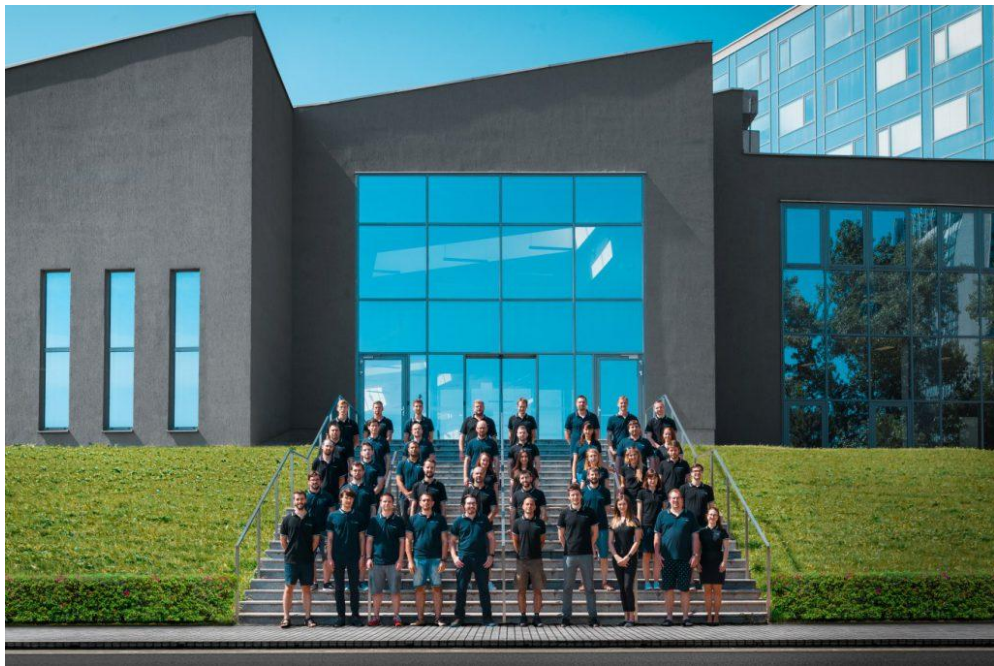## Products overview

Complex provider of 3D vision for smart automation

Strong Vision - Strong Team

"We provide robots with eyes, not only to see but also to understand."
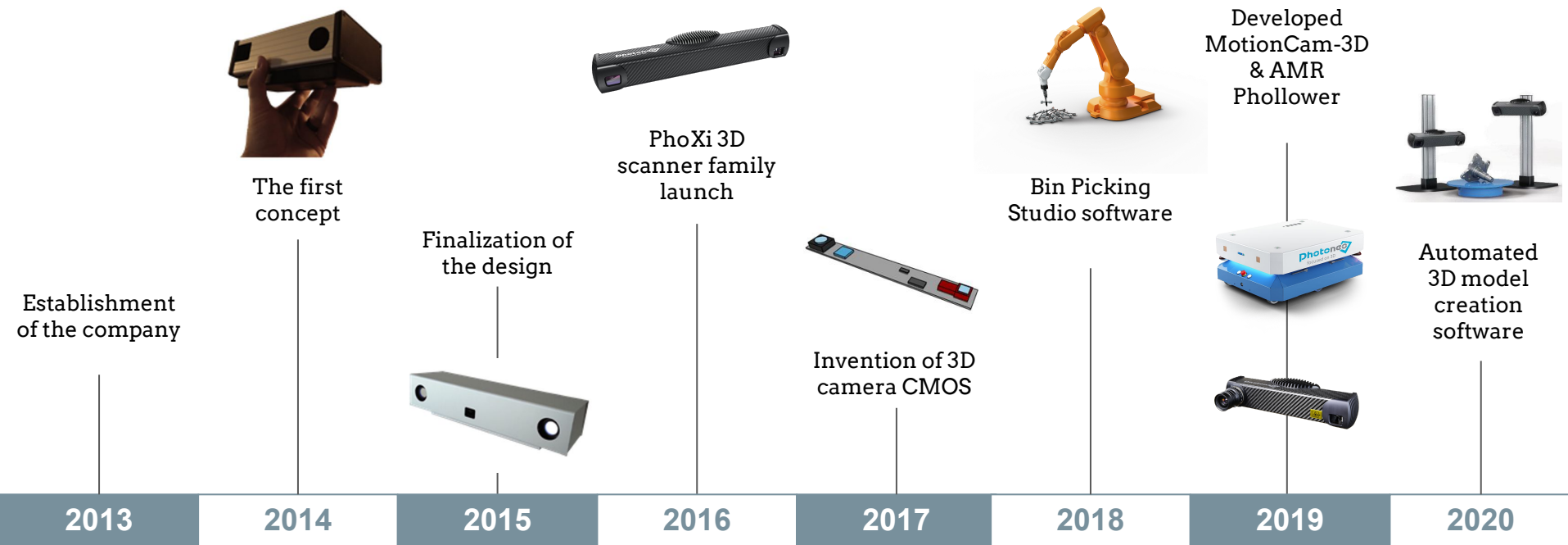
Employ 150+ people globally

Sold 1700+ scanners worldwide

Winner of 5 "best-in-class awards"

Our product development

The first concept

Finalization of the design

PhoXi 3D scanner family launch

Invention of 3D camera CMOS

Bin Picking Studio software

Developed MotionCam-3D & AMR Phollower

Automated 3D model creation software

Establishment of the company

| 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |

Photoneo on the map

Headquarters
Bratislava, Slovakia

Offices
Germany,
China,
USA

Distributors
45 offices globally

Product portfolio

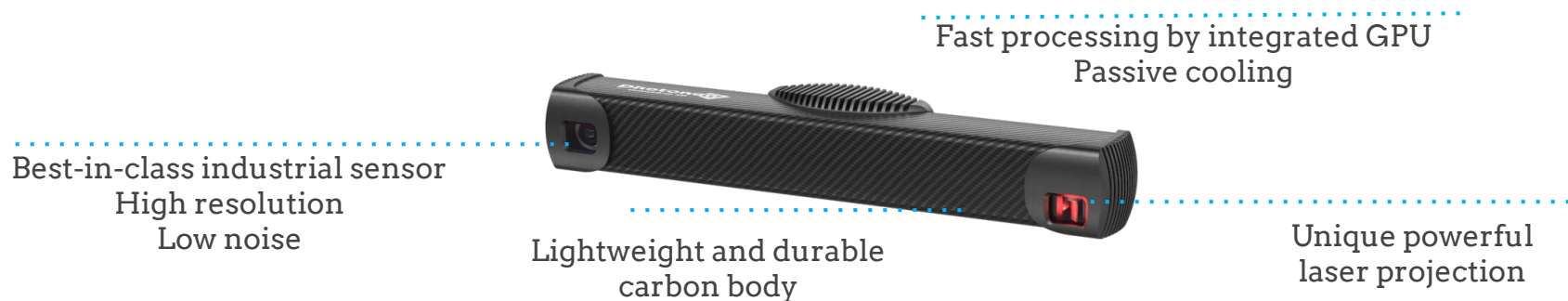| Hardware	Software	Application
producer	developer	integrator
PhoXi 3D Scanners MotionCam - 3D Phollower 100	Vision Software Localization SDK AMR – navigation & setup Robot Handling Softwares	Bin Picking Depalletization AI based picking

Complimentary portfolio for advanced automation

PhoXi 3D Scanners family

Fast processing by integrated GPU
Passive cooling

Best-in-class industrial sensor
High resolution
Low noise

Lightweight and durable
carbon body

Unique powerful
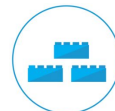laser projection

ADVANTAGES OF PHOXI 3D SCANNERS

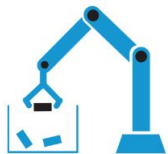Large depth of scan

High accuracy

Robust performance

Easy integration

Use cases

Object manipulation
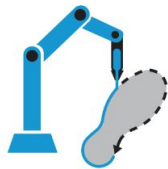
Bin picking
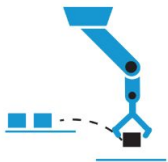
Pick & place

Trajectory correction

Palletizing

Assembly

Packaging

Inspection

Completeness check

Measurements

Recognition

Sorting

3D OCR

XYZ

Engineering

3D modeling
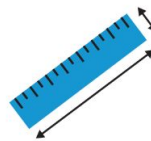
Reverse engineering

MotionCam-3D

The highest resolution and highest accuracy area-based 3D Camera for scanning in rapid motion in the world

Resolution
~ 0.5 Mpx

Max. object speed
40 m/s

Max. FPS
20 fps

VISION AWARD 2018 Winner

Vision Systems DESIGN 2019 Innovators Awards PLATINUM

inVISION INNOVATI 2019

Phollower 100

Autonomous mobile robot for transport and delivery of material.
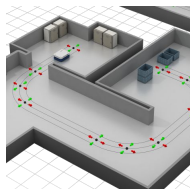
Safety

- Environment checked 33 times per second
- Detecting objects with a minimum width 30 mm
- Safety class SIL2 PL.d Category 3

Mapping

- Real-time robot navigation by controlling movements with a joystick
- Instant map redrawing

Trajectory planning

- Quick and easy
- Speed zones and limits (max. speed: 1.125 m/s)
- Cyclic or dynamical move plans
- Reversible movement

Bin Picking Studio - for all integrators

General solution for all bin picking application

- Easy and intuitive web-based configurator
- Choose robot brand and model (>120 types)
- Choose gripper and 3D Scanner
- Load CAD files - object, gripper, environment
- Define grasping method - only with mouse
- Visualize and validate
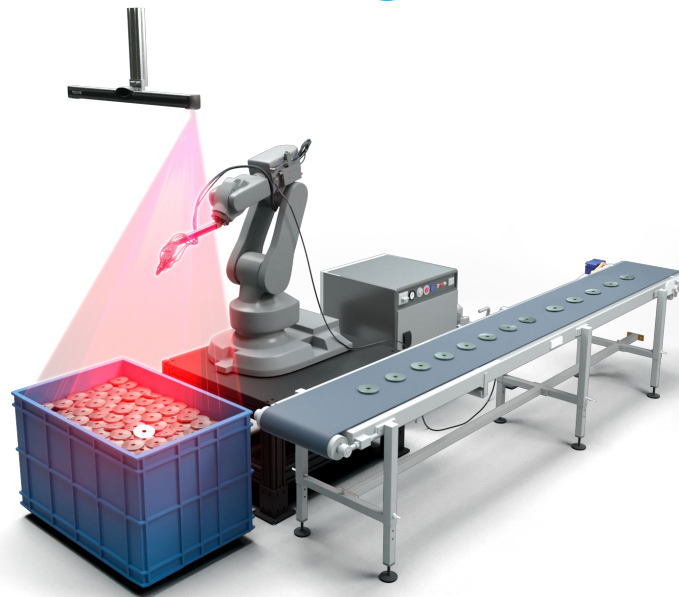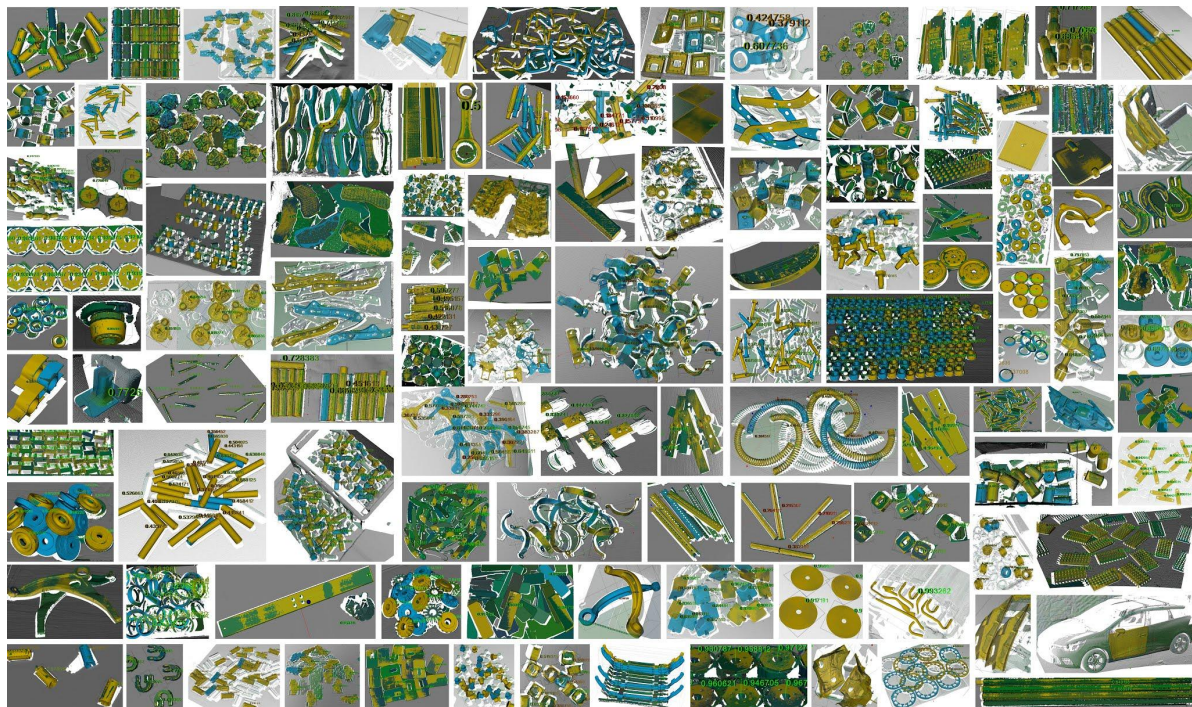

ABB FANUC KUKA OMRON MITSUBISHI ELECTRIC Kawasaki STÄUBLI YASKAWA UNIVERSAL ROBOTS

CAD based localization

AI based picking - AnyPick

We can pick anything!

- Machine learning solution for e-commerce, warehouses, logistics and processing of parts that vary in shape or size
- AI-based location detection allowing to pick any object from 1x1 cm (no CAD models needed)
- High speed - up to 500 picks per hour

Warehouses/ e-commerce

Objects of irregular shape

Food handling

AI based picking - variations

Universal Depalletization
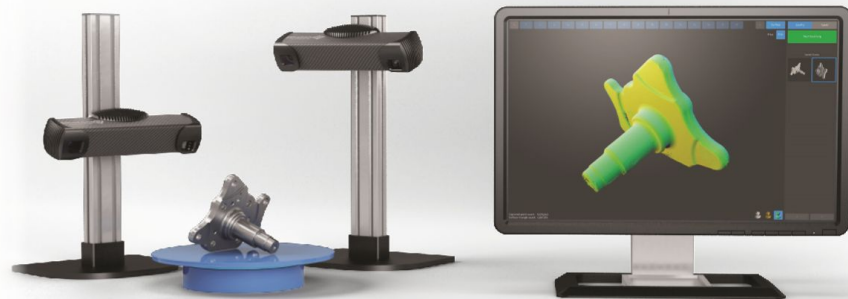
Board Picking

Envelopes

- Predefined solutions - ready to be deployed
- Pretrained - works out-of-the-box

Automated 3D model creation

Fast one-click solution for any kind of objects

- Fast model creation in 1-2 minutes
- Smallest feature detection ~ 0,2 mm
- Custom size of the rotary table
- Any number of scanners
- Output formats: PLY, STL
- Accuracy from 50 um

Applications

| Inspection & metrology | 3D modelling & reconstruction | Reverse engineering |

Thank you

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