

— SIKORA'S PRODUCT PORTFOLIO FOR HOSE & TUBE AND PLASTICS APPLICATIONS

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SIKORA STANDS FOR GROWTH

4

Business
areas:

Wire
& Cable

Hose
& Tube

Plastics

Service



>50,000 Devices in use worldwide

13

Subsidiaries
worldwide

30

Representatives
worldwide

>400

Employees worldwide



100.8 M €



Revenue 2024
preliminary result

100%



R&D and production
at the company headquarters
in Bremen

16%

Share of R&D employees

10%

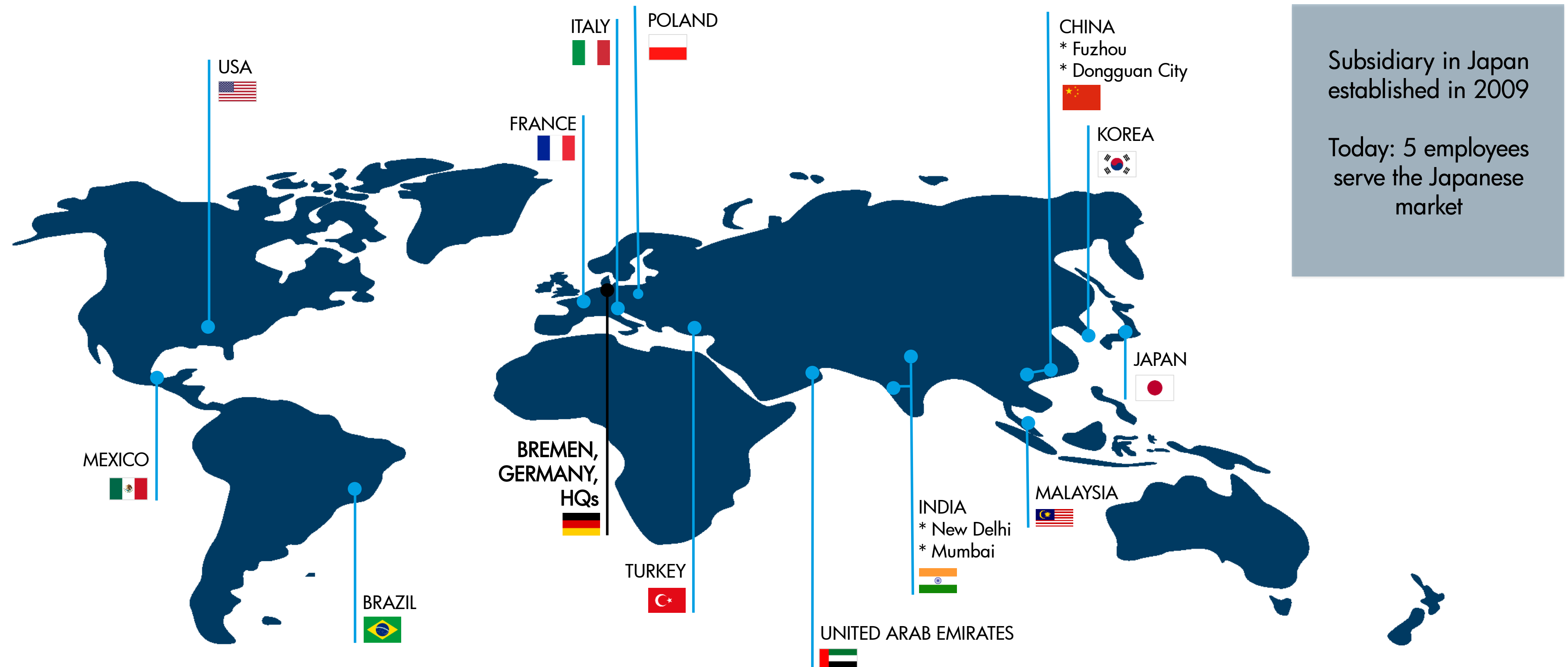
Annual revenue invested
in R&D

130

Countries where
SIKORA customers come from



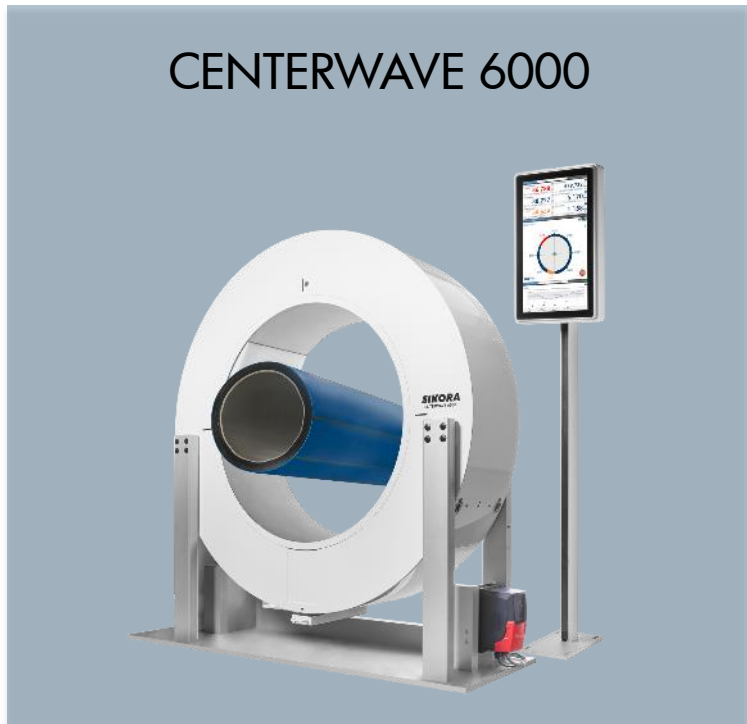
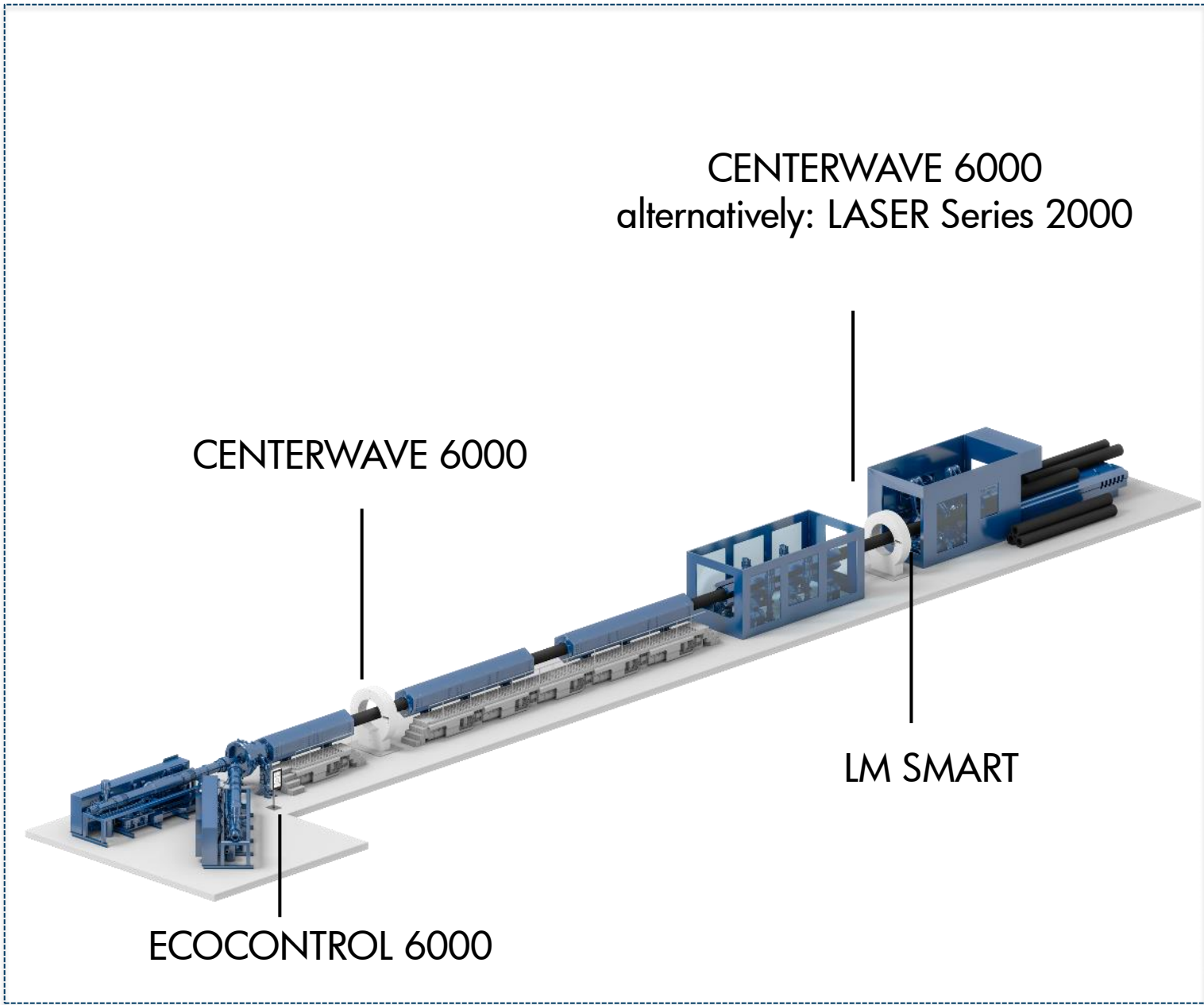
— YOU FIND US, WHERE YOU NEED US



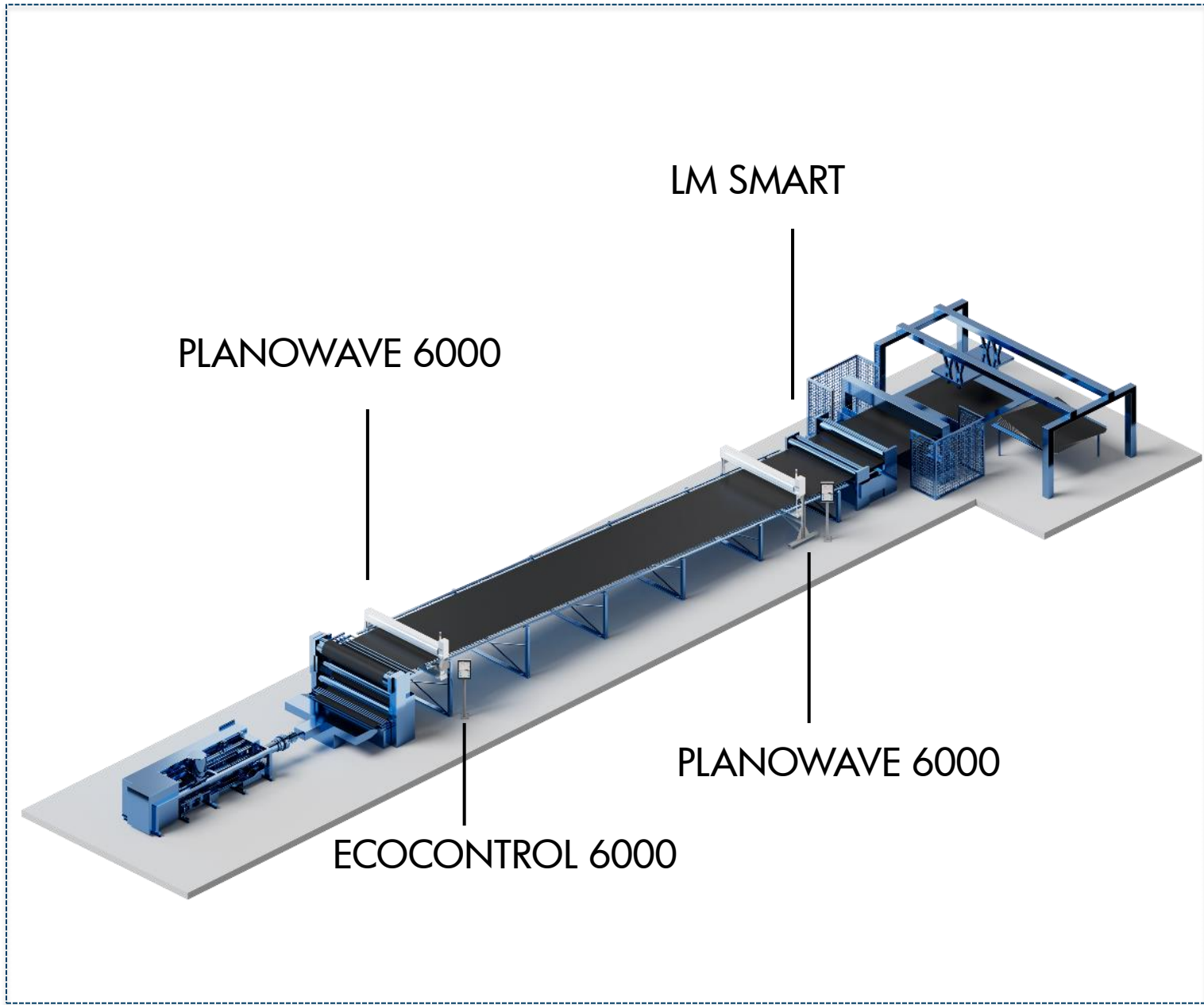
13 operating international subsidiaries & worldwide more than 30 representatives for a fast support

SIKORA SOLUTIONS FOR HOSE & TUBE EXTRUSION LINES

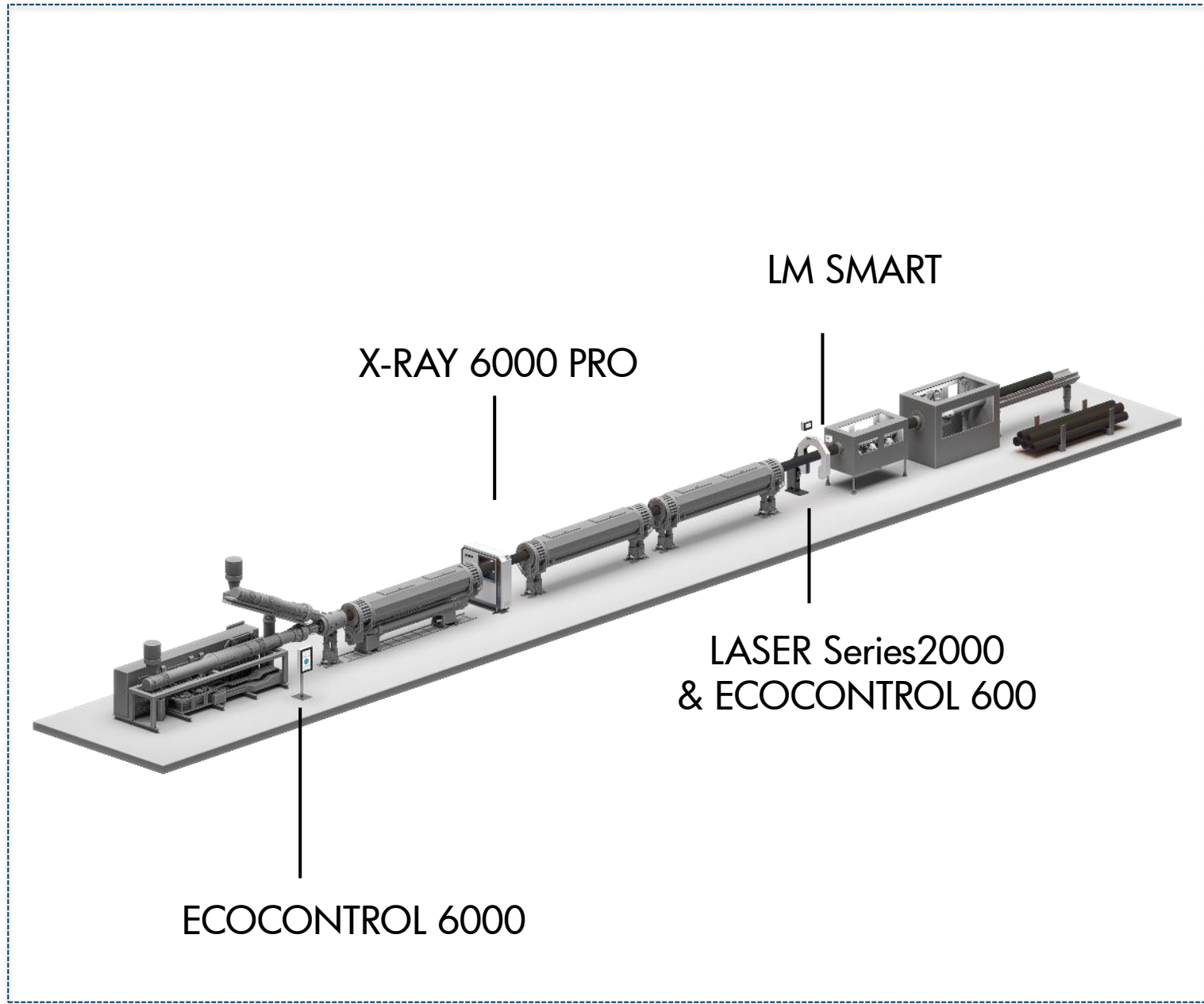
Large diameter pipe extrusion line



Sheet extrusion line



Foam core pipe extrusion line

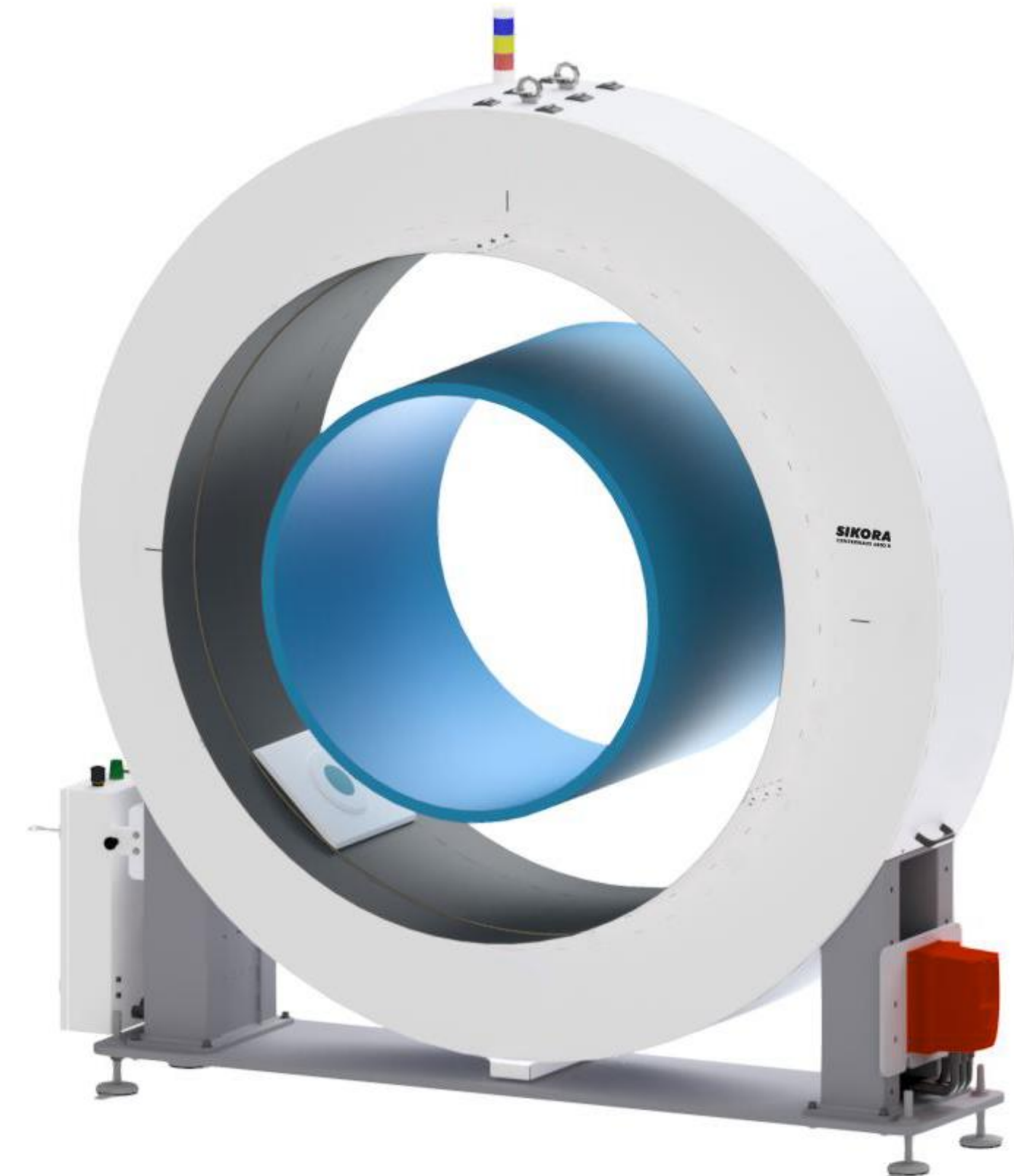


PIPE EXTRUSION – CENTERWAVE 6000

SIKORA
Technology To Perfection

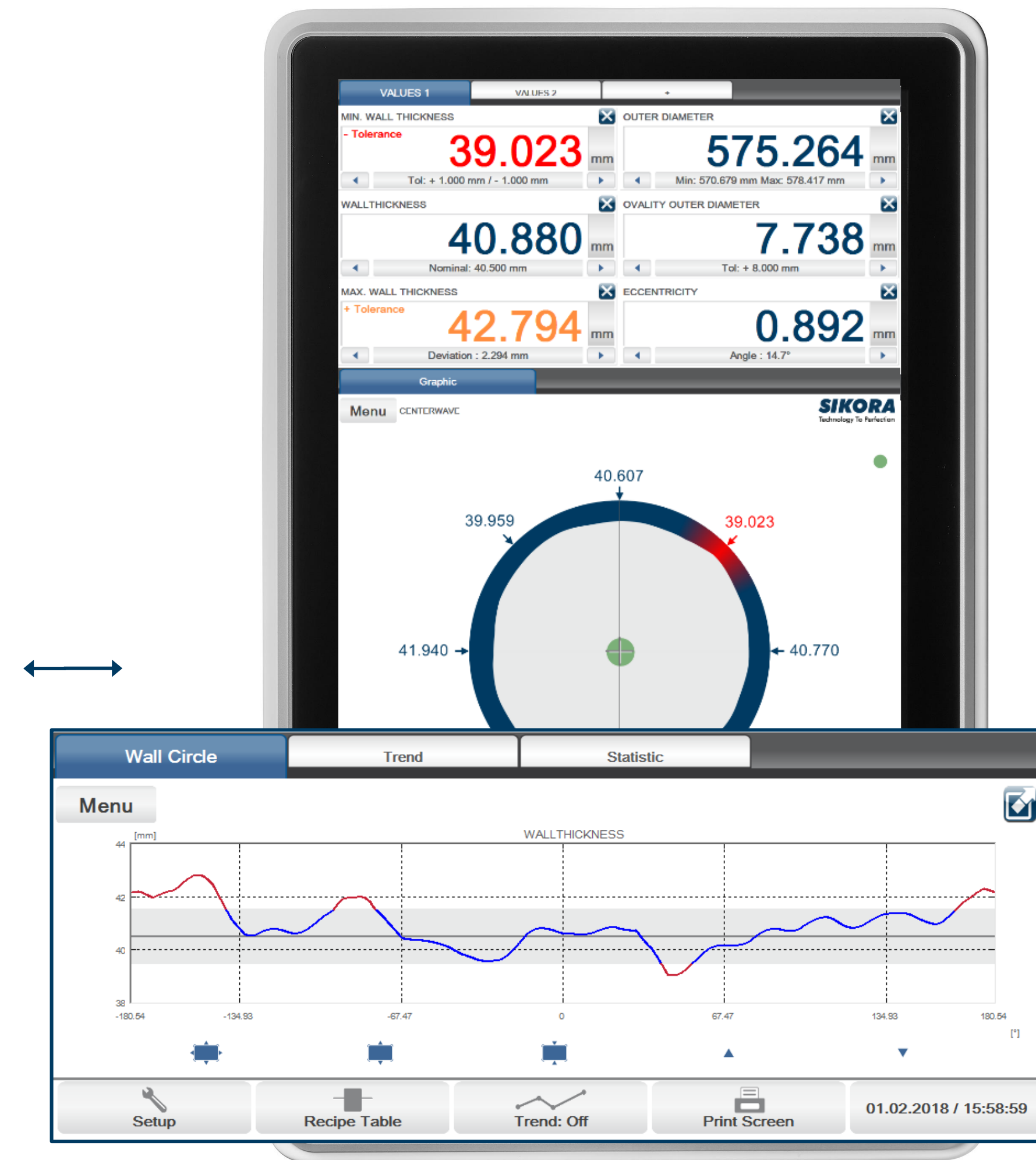
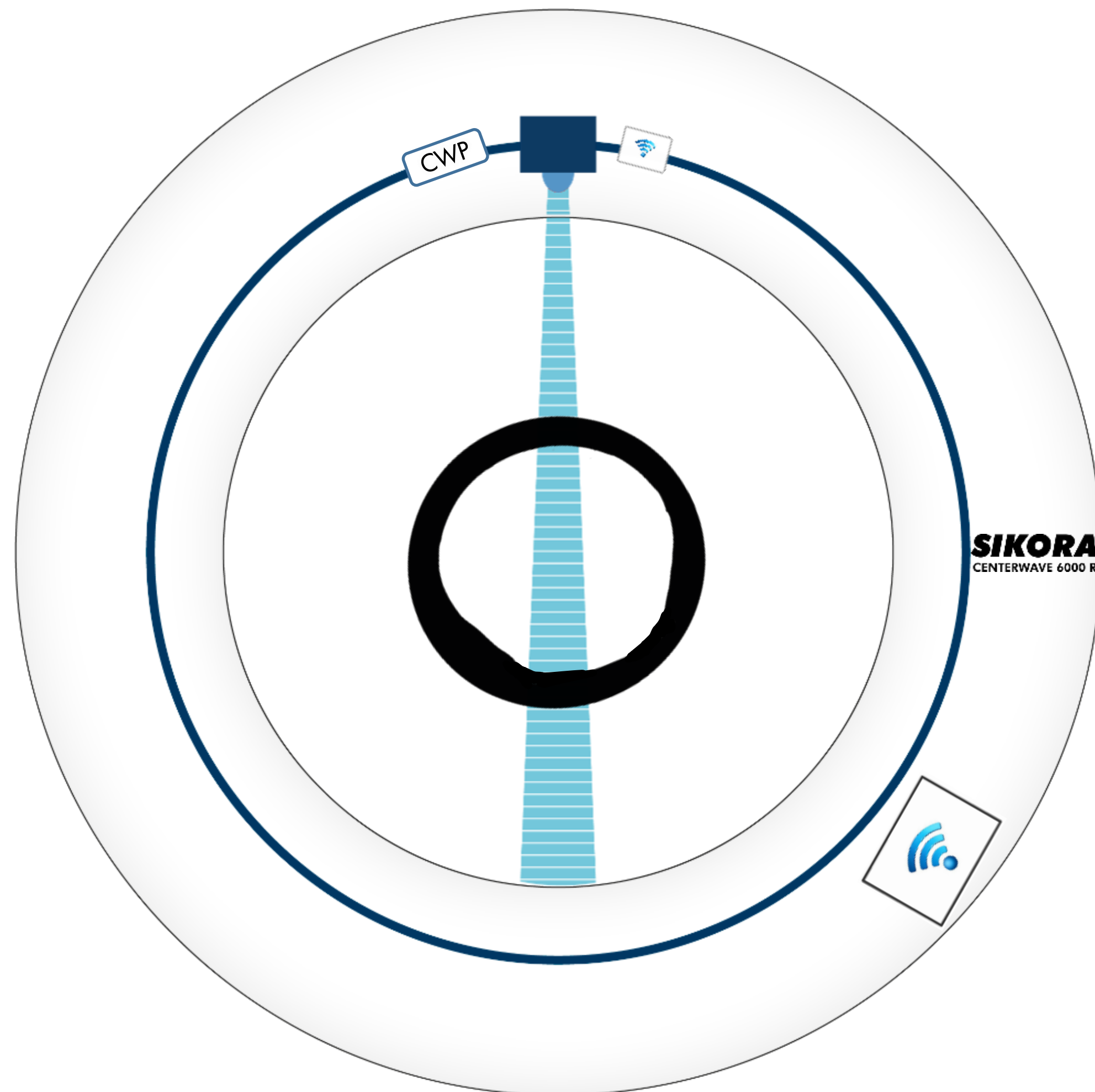
Online measurement of:

- Wall thickness in 360° (min/max/avg)
- Diameter
- Ovality
- Inner profile (sagging)
- Automatic S_{\min} control
- for pipes from Ø 32 to 1,600mm



CENTERWAVE 6000

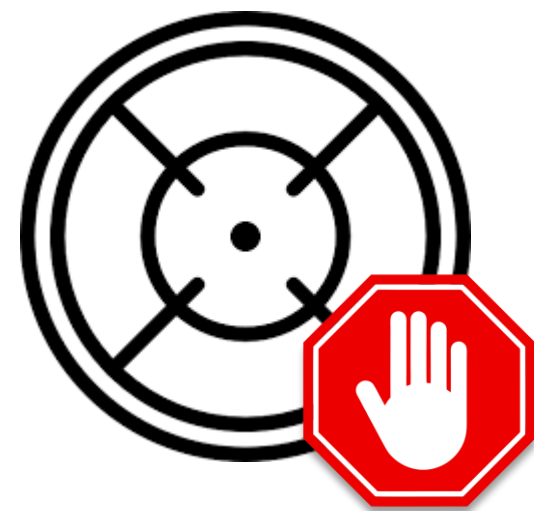
Functional principle



Every $0.2^\circ = 1$ measurement

CENTERWAVE 6000

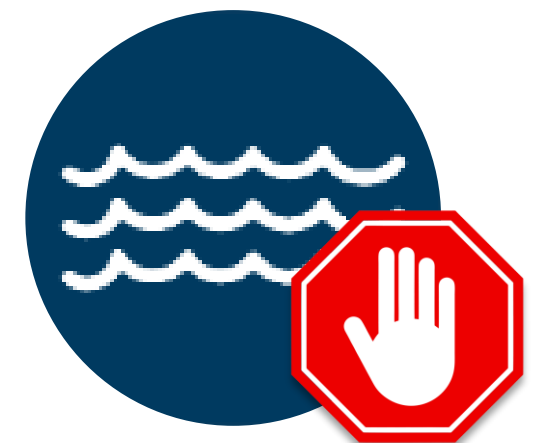
Technical features



No calibration

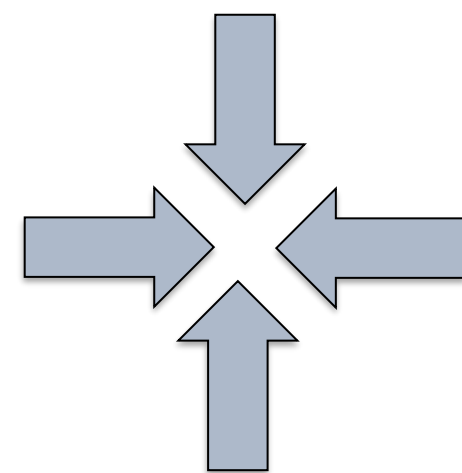
Patented automatic determination of the refractive index* allows to measure pipes of any plastic material or dimension without pre-settings or calibration.

Also temperature of material or its melt-status can be neglected



No coupling media (water)

Fluctuations in water temperature or quality as well as air-bubbles do not affect the measurement



Automatic centering (option)

Once aligned in the extrusion line, the system automatically remains centered to the pipe



Dynamic speed adjustment (option)

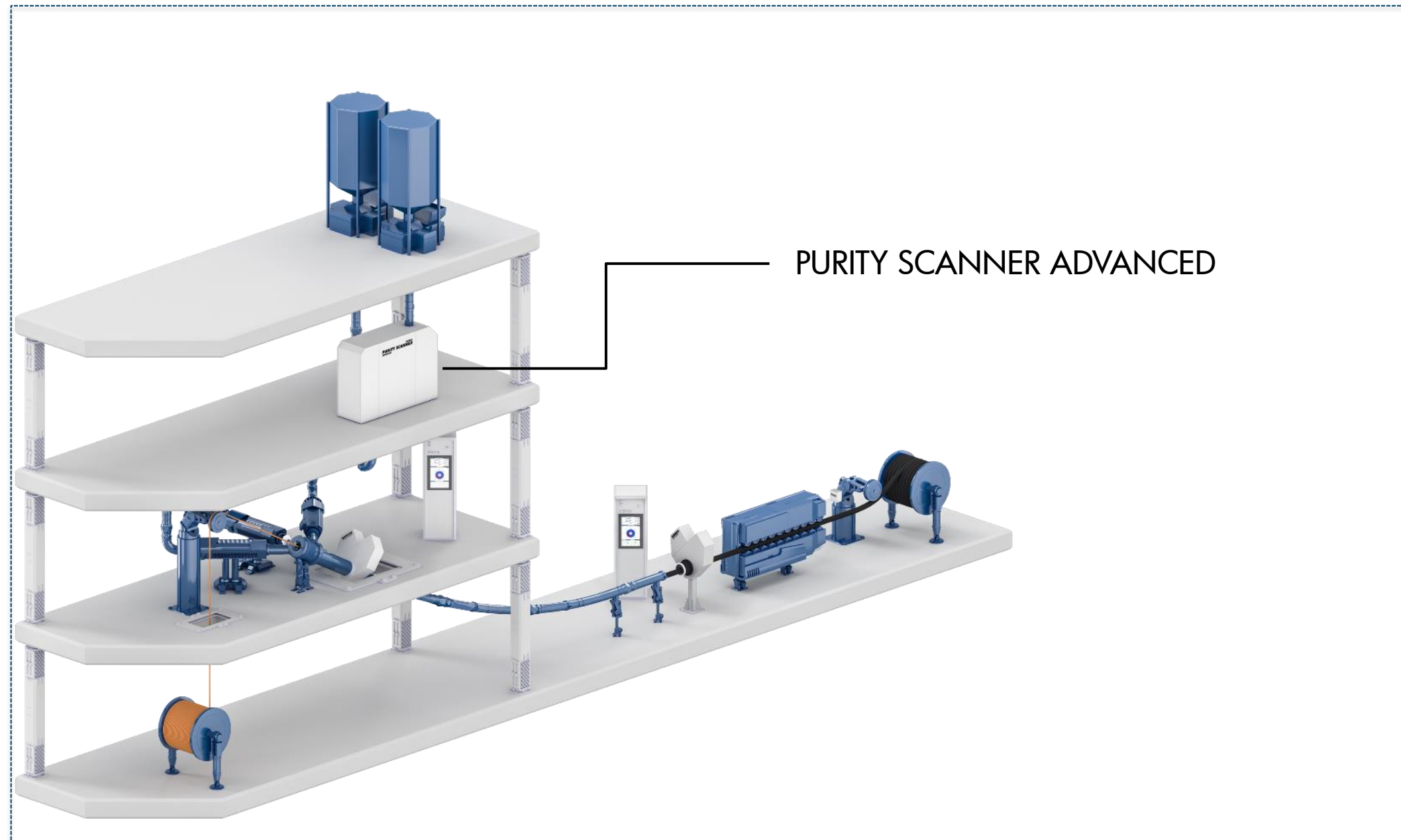
Rotation-speed is automatically adapted to the line-speed to allow a 100% coverage over the pipe's circumference



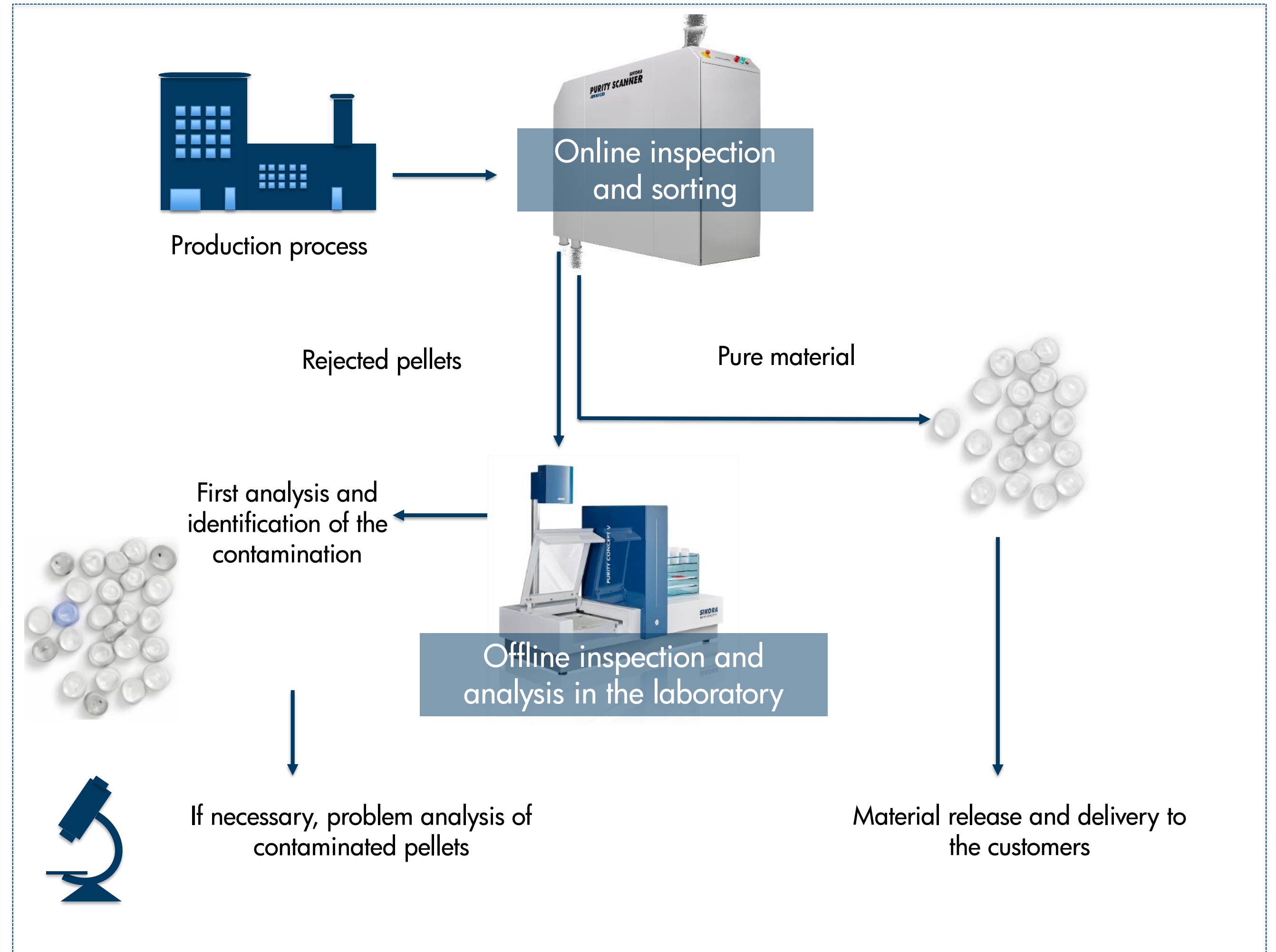
*Patent DE 10 2018 124 175 A1

SIKORA SOLUTIONS FOR INSPECTION, SORTING & ANALYSIS

Raw material inspection in CV line



Use by the customer, e.g. in compounding lines



PURITY SCANNER
ADVANCED



PURITY CONCEPT V



PURITY CONCEPT X



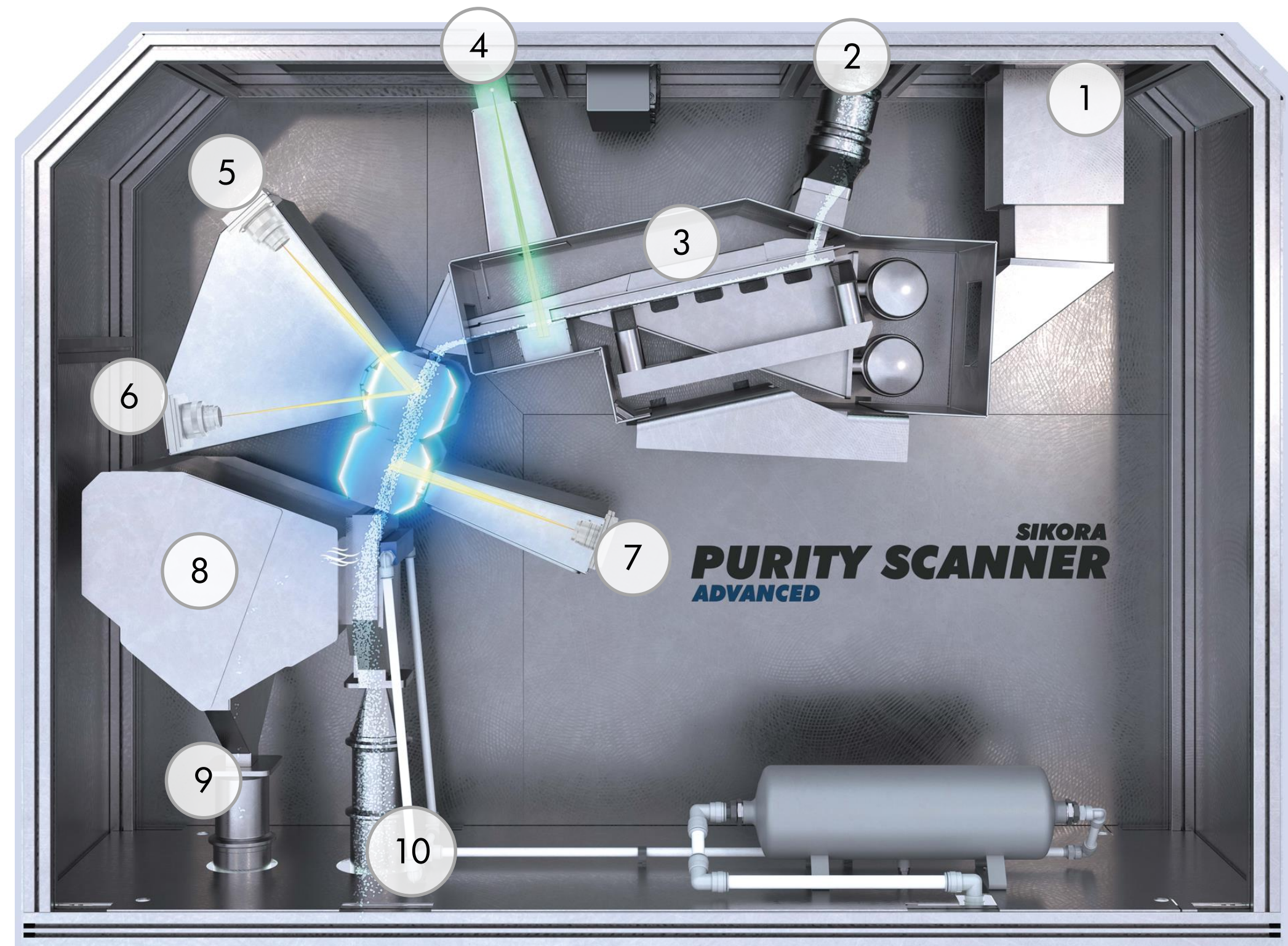
— ONLINE INSPECTION AND SORTING – PURITY SCANNER ADVANCED

Flexible camera system for all requirements

Contaminants are:

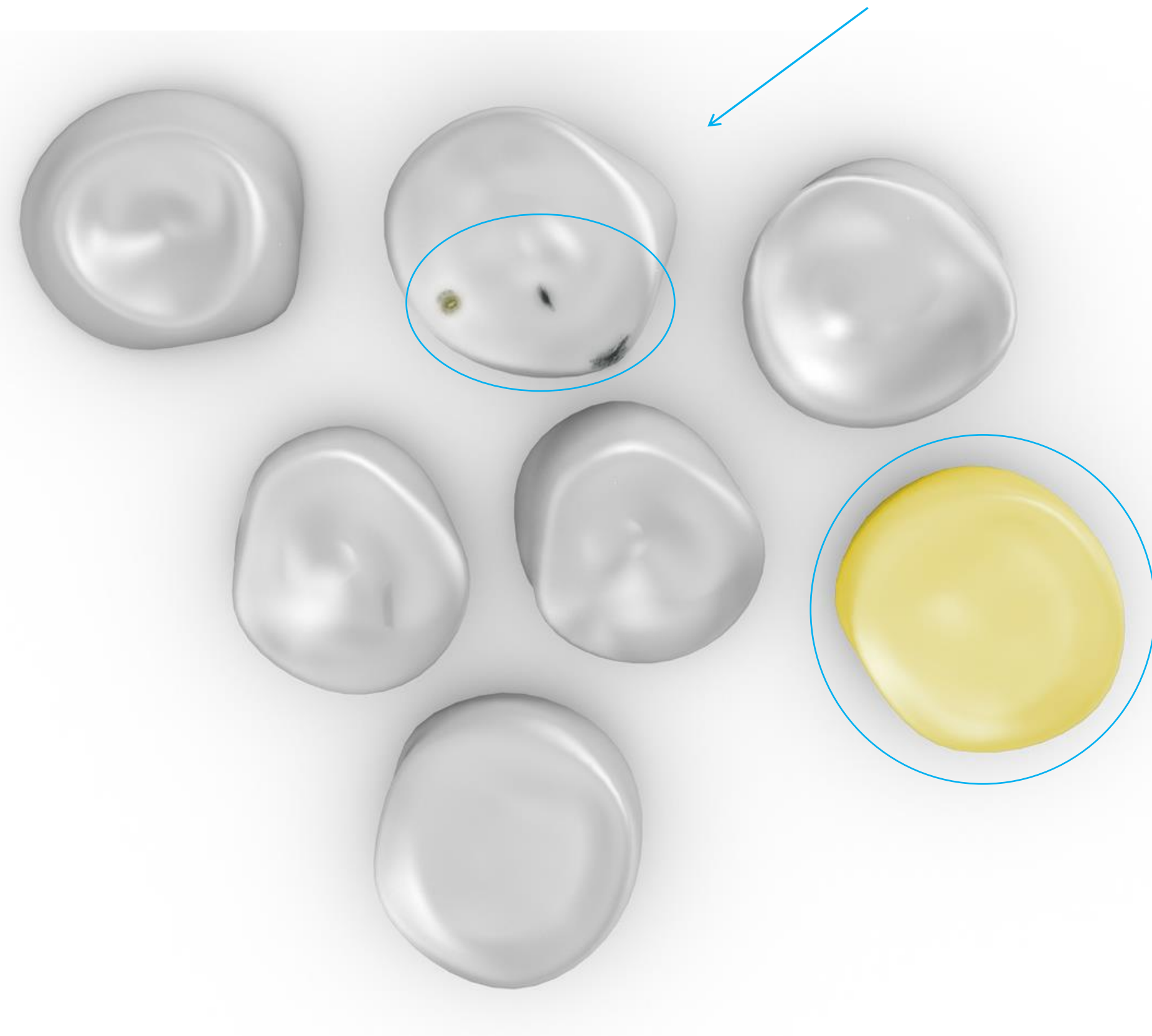
- detected by X-ray technology and an optical inspection inside the pellet as well as on its surface
- sorted out automatically

- 1 Fine filter/overpressure system for integrated clean room
- 2 Material feed
- 3 Stainless steel vibration chute
- 4 X-ray inspection
- 5-7 Optical inspection: black and white camera
- 8 Sorting unit
- 9 Rejected material
- 10 Clean material



INSPECTION OF CONTAMINATION – PURITY SCANNER ADVANCED

On the pellet surface



Optical cameras:
detect contamination
from 25 μm

Foreign pellet



INSPECTION OF CONTAMINATION – PURITY SCANNER ADVANCED

On the pellet surface

Optical cameras:
detect contamination
from 25 μm

X-ray camera: detects
contamination from
50 μm

Inside the pellet

Foreign pellet



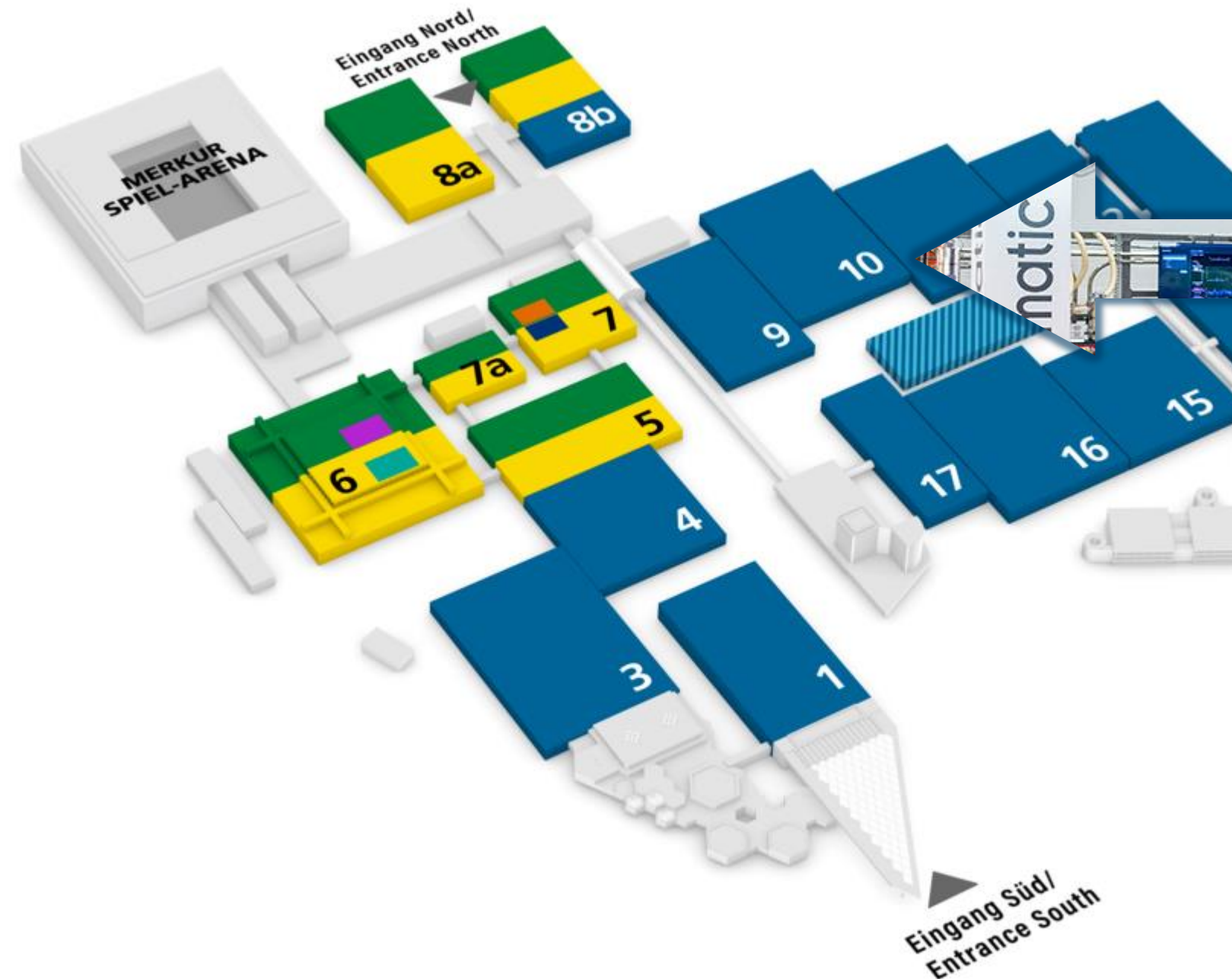
OPTICAL OFFLINE INSPECTION AND ANALYSIS – PURITY CONCEPT V



- Detection of optical contamination $\geq 50 \mu\text{m}$
 - Black specks
 - Colored specks
 - discolorations
- Broad spectrum of samples:
 - Pellets
 - Flakes
 - Plates
- Reproducible optical laboratory test with automatic analysis and statistics (1x test, multiple evaluation options)
- Test certificate

— THANK YOU FOR YOUR ATTENTION!

See you at K 2025!



Source for site map:
<https://www.k-online.de/de/Besuchen/Vorbereitung/Hallen- und Gel%C3%A4ndepl%C3%A4ne> (24.04.2025)