

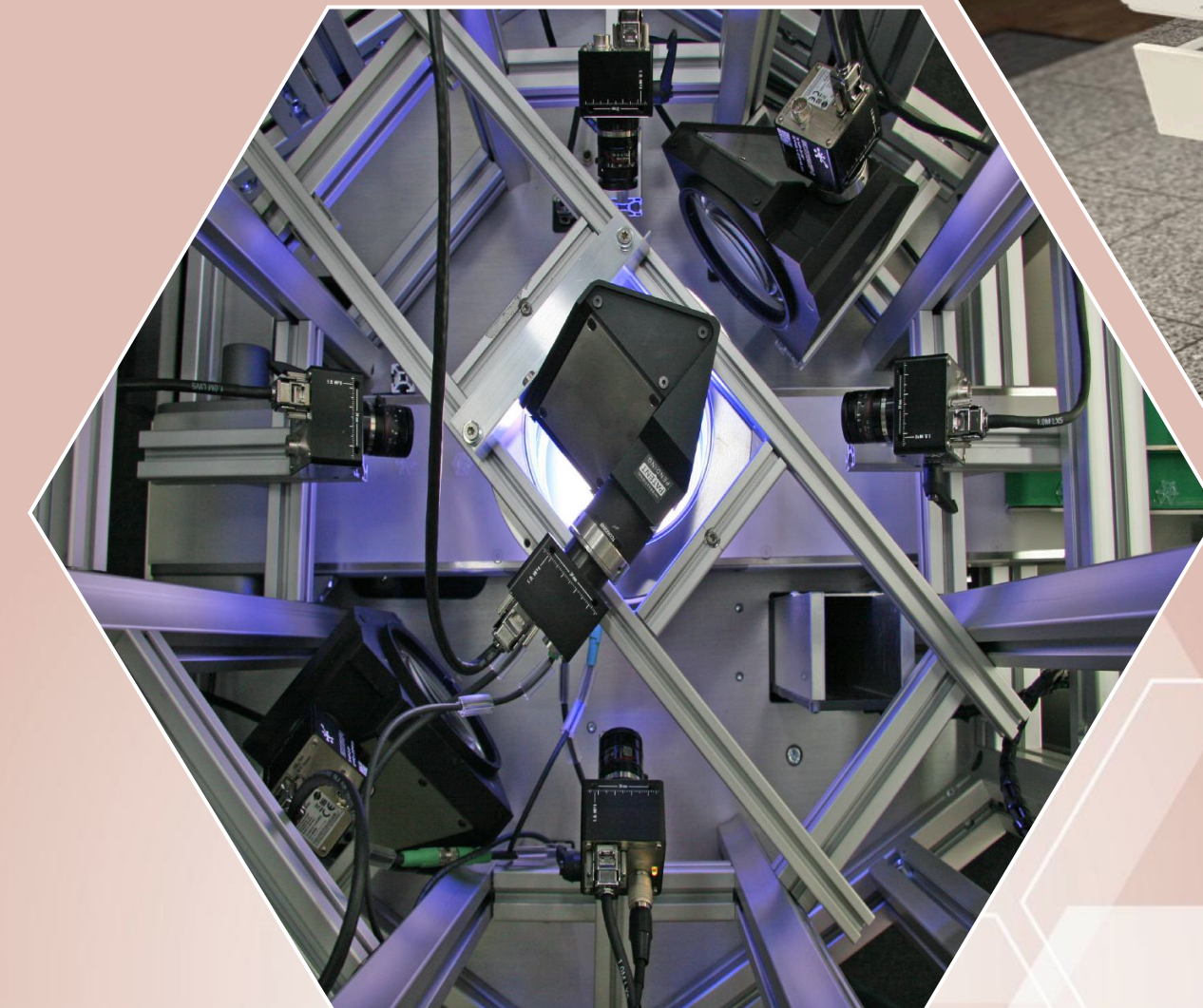
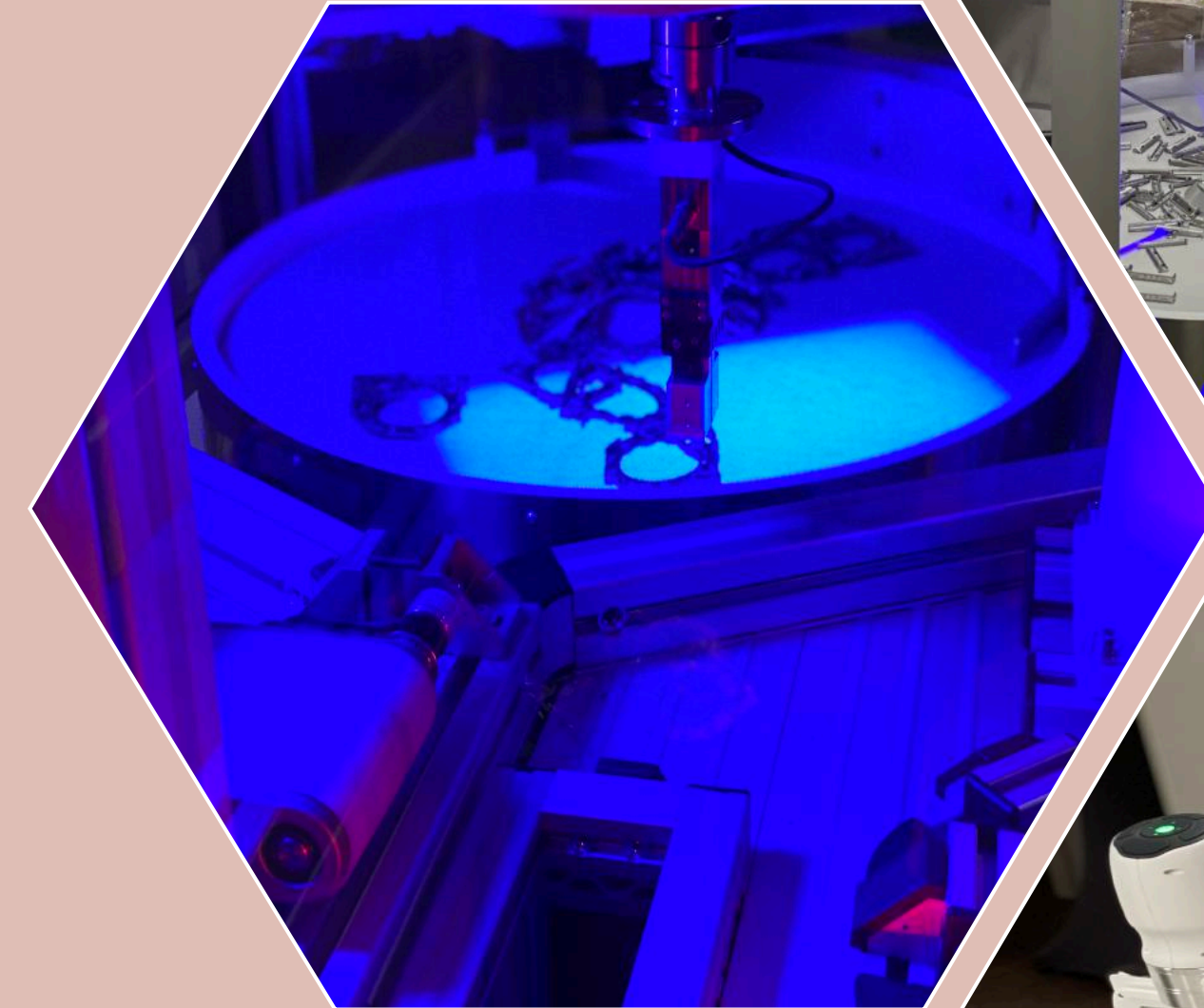


Global Knowledge · Local Support

QBICs - Multitalent in CoBot/Robot-Vision 16.02.2021

CRETEC CYBERNETICS

Who we are?



Where we are?

Germany

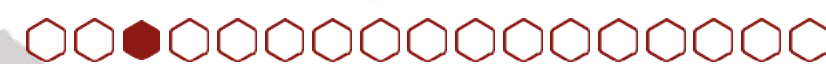
Germany

Türkiye

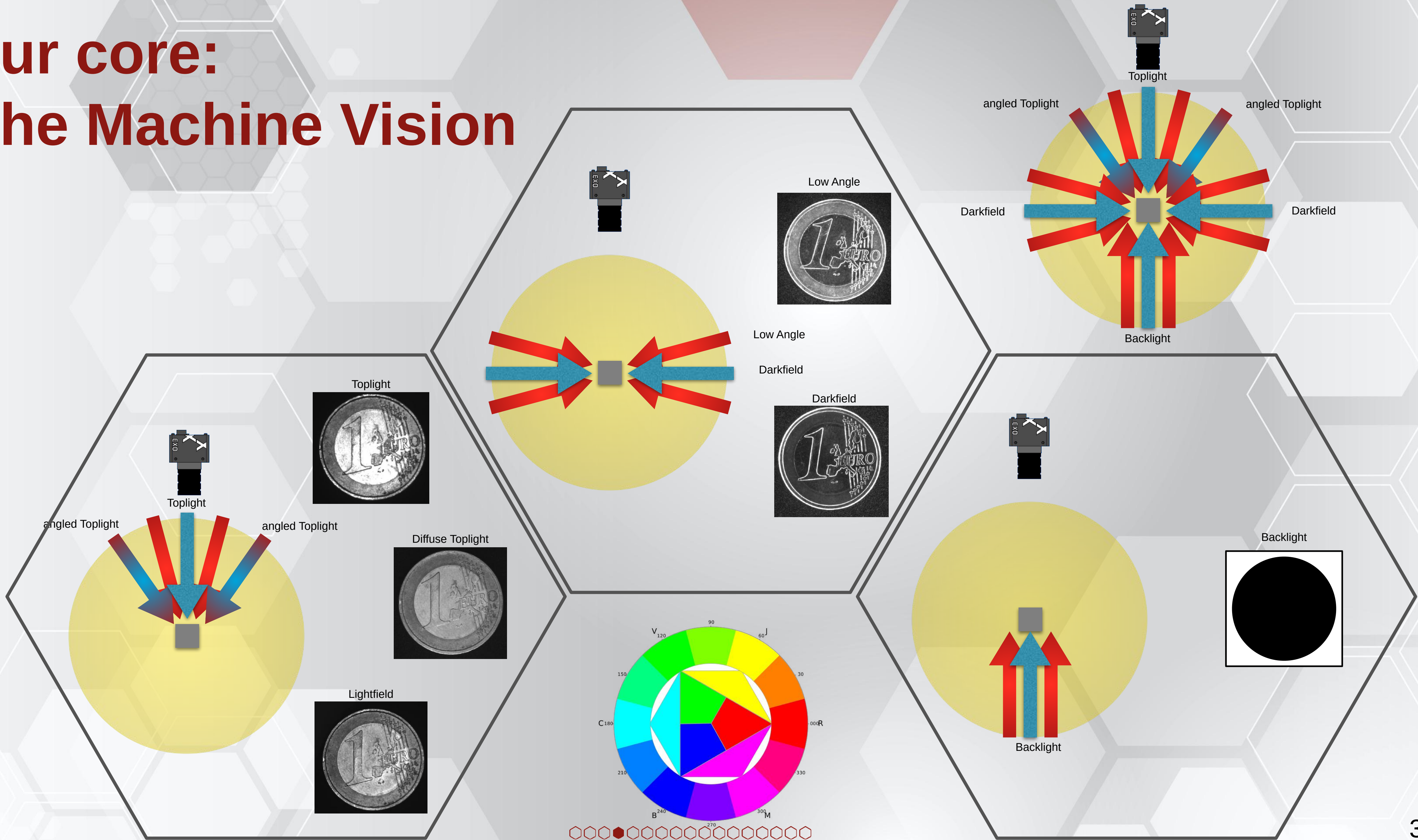
España

México

Colombia



our core: The Machine Vision

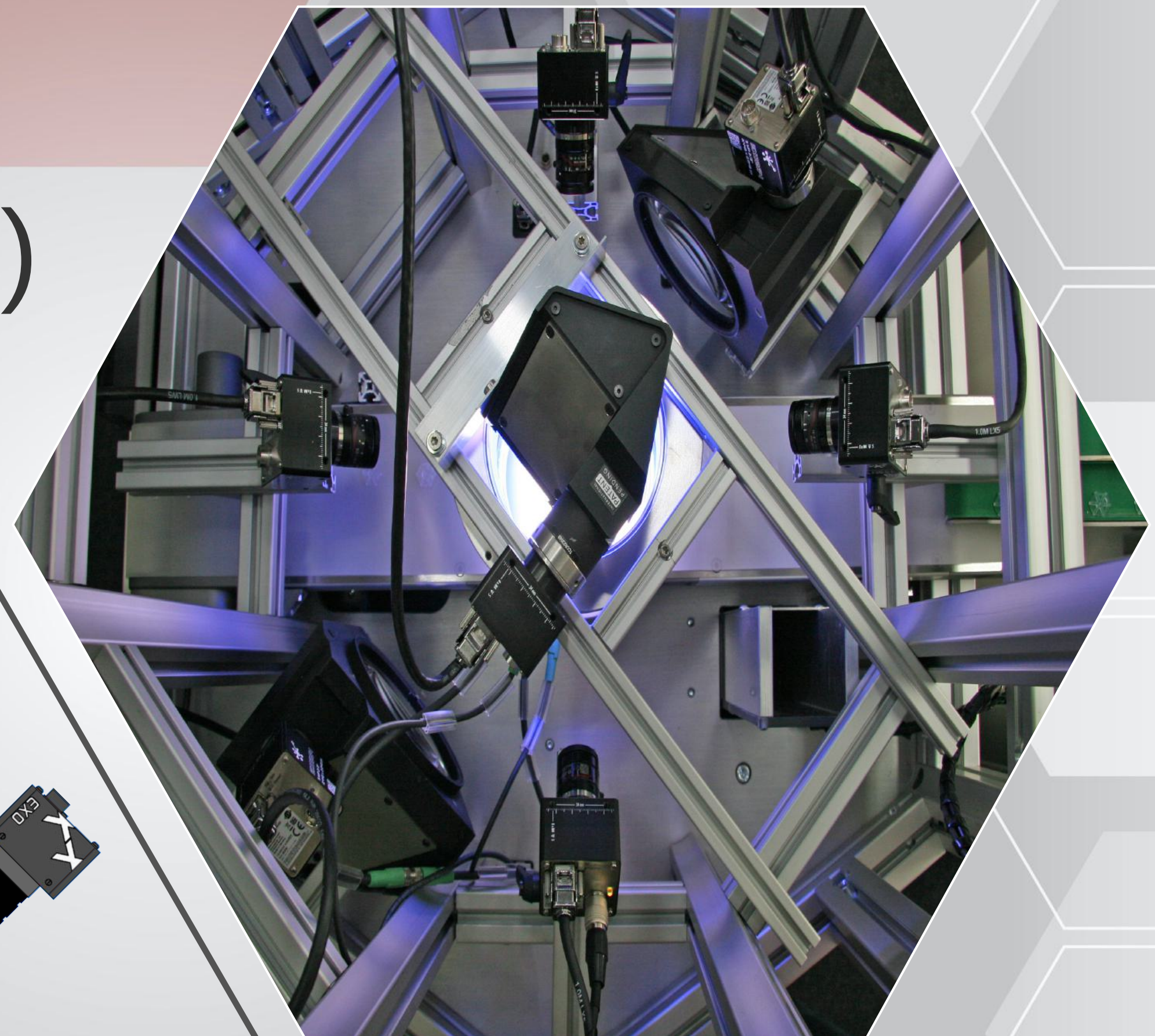
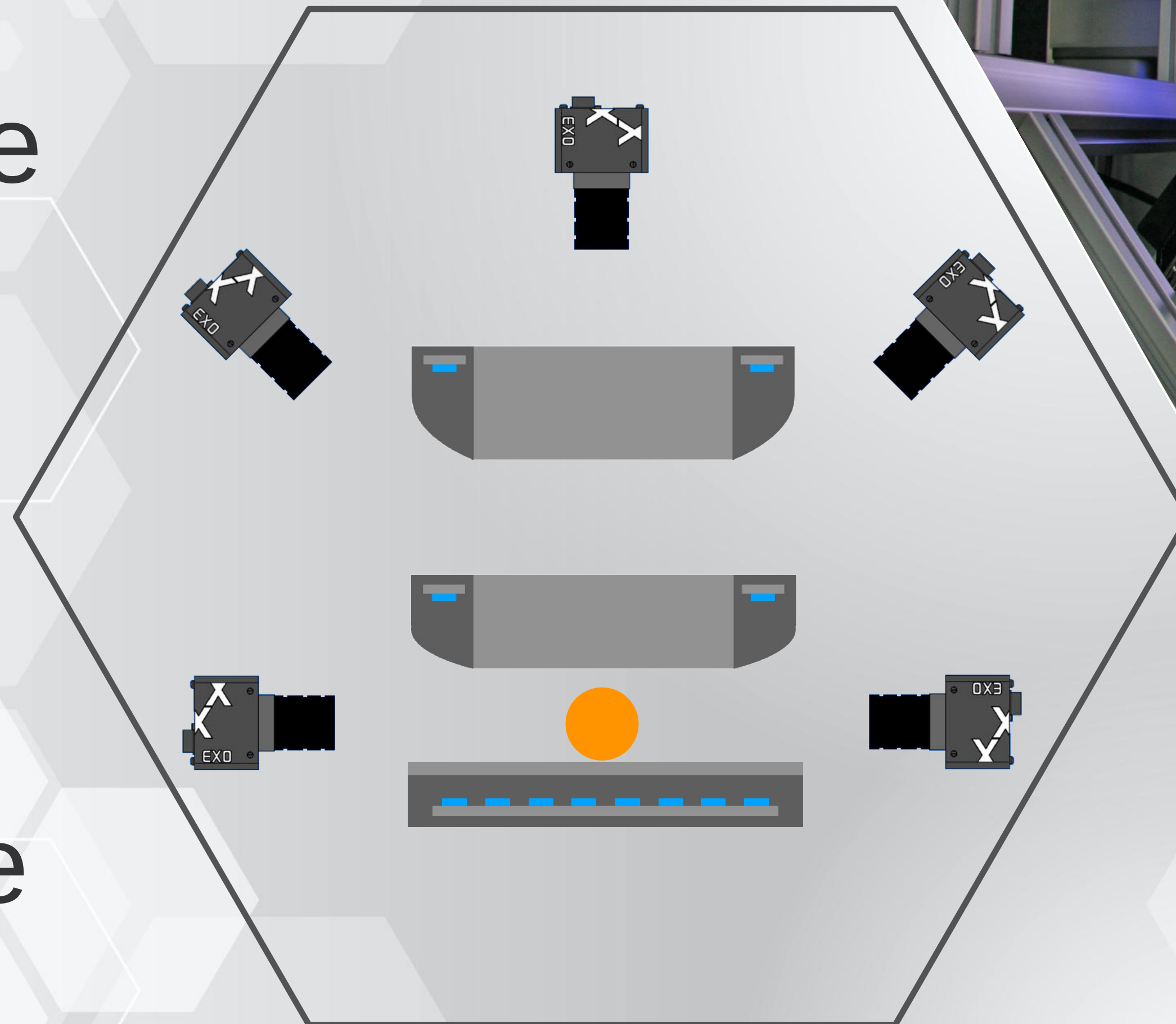


What makes the difference ?

beautiful ;)

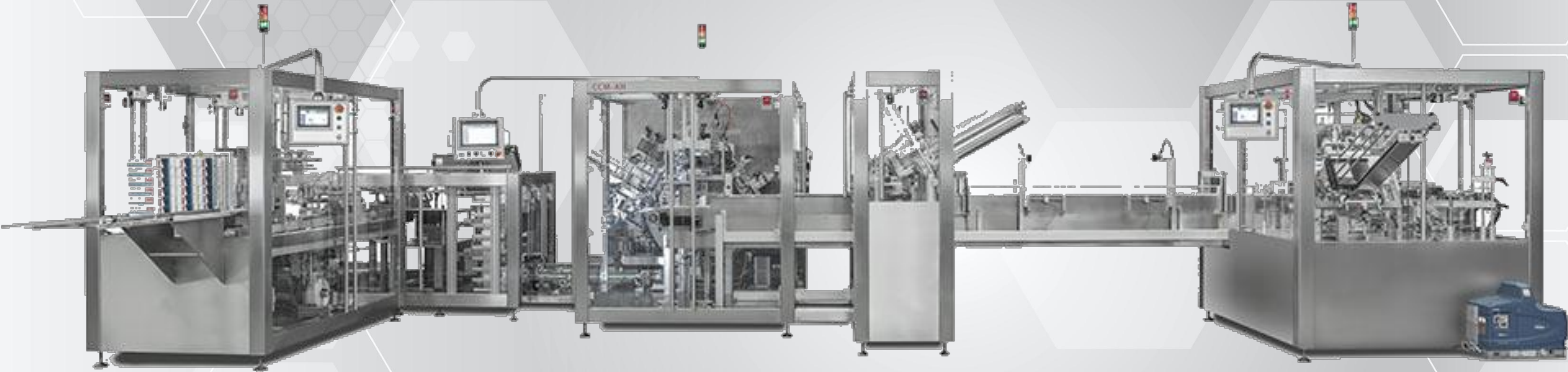
adaptive

changeable



compact

conventional custom machine building



Individual projects

Customized products

Every time again from scratch

Long delivery times

Extensive to expand

Long project durations

Individual solutions



QBICs?

Q (Quality) Cubicle

Machine Vision Company

Design Products

Develop Machines for Quality Inspection

Make this Machines Scalable

Go on with CoBots

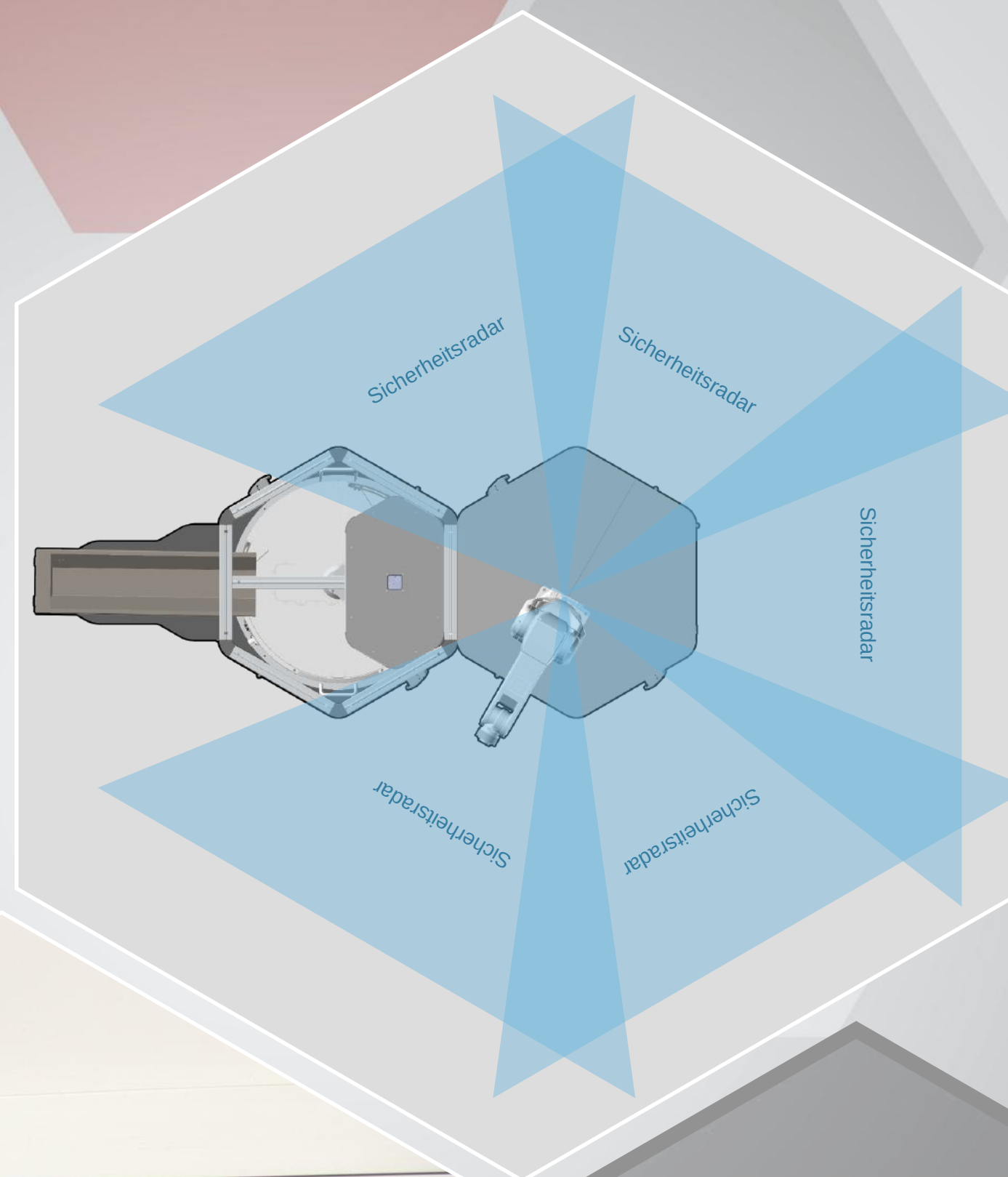
Move to industrial Robots

Combine it with Part Feeding



USPs

Combinable



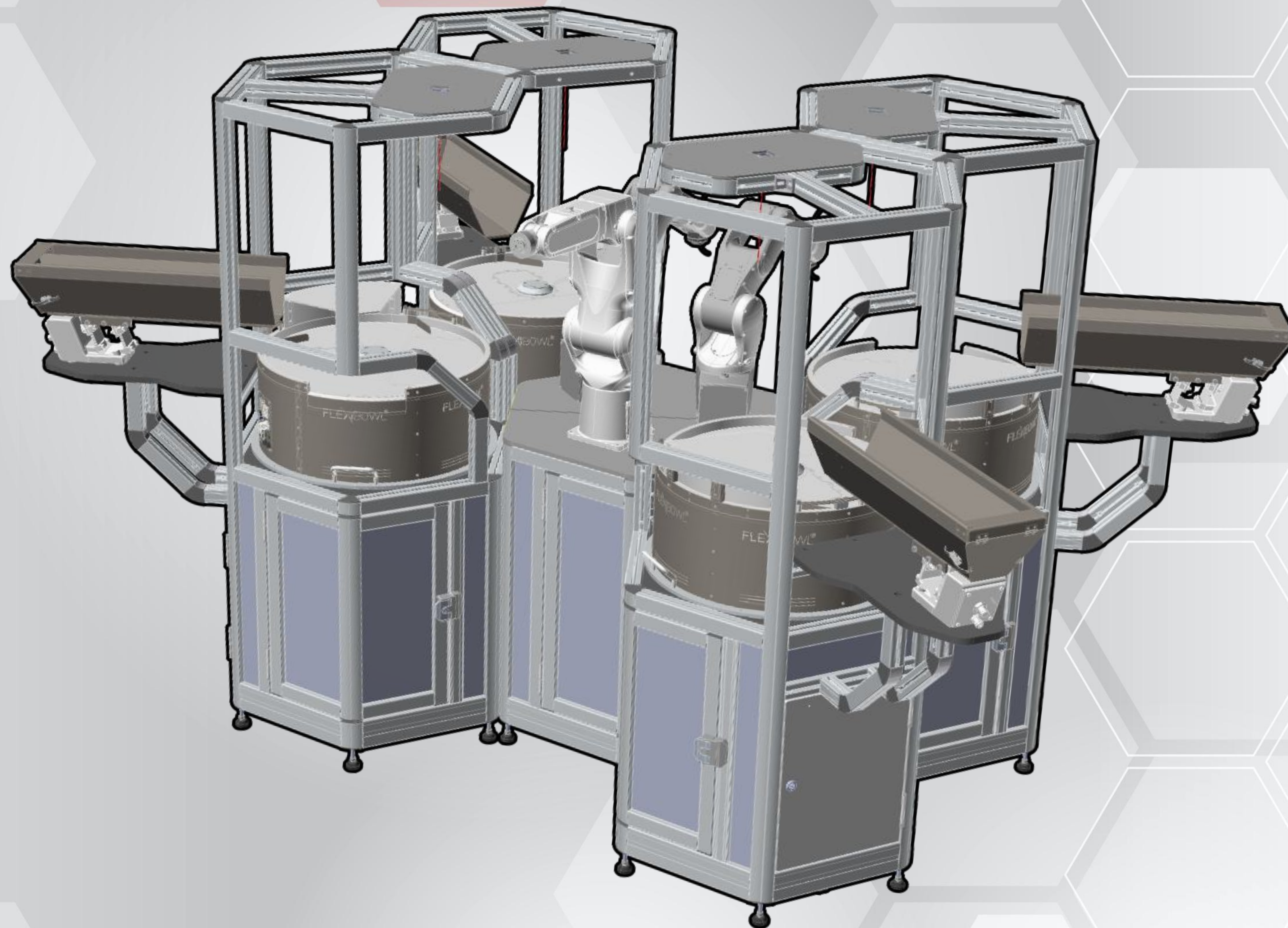
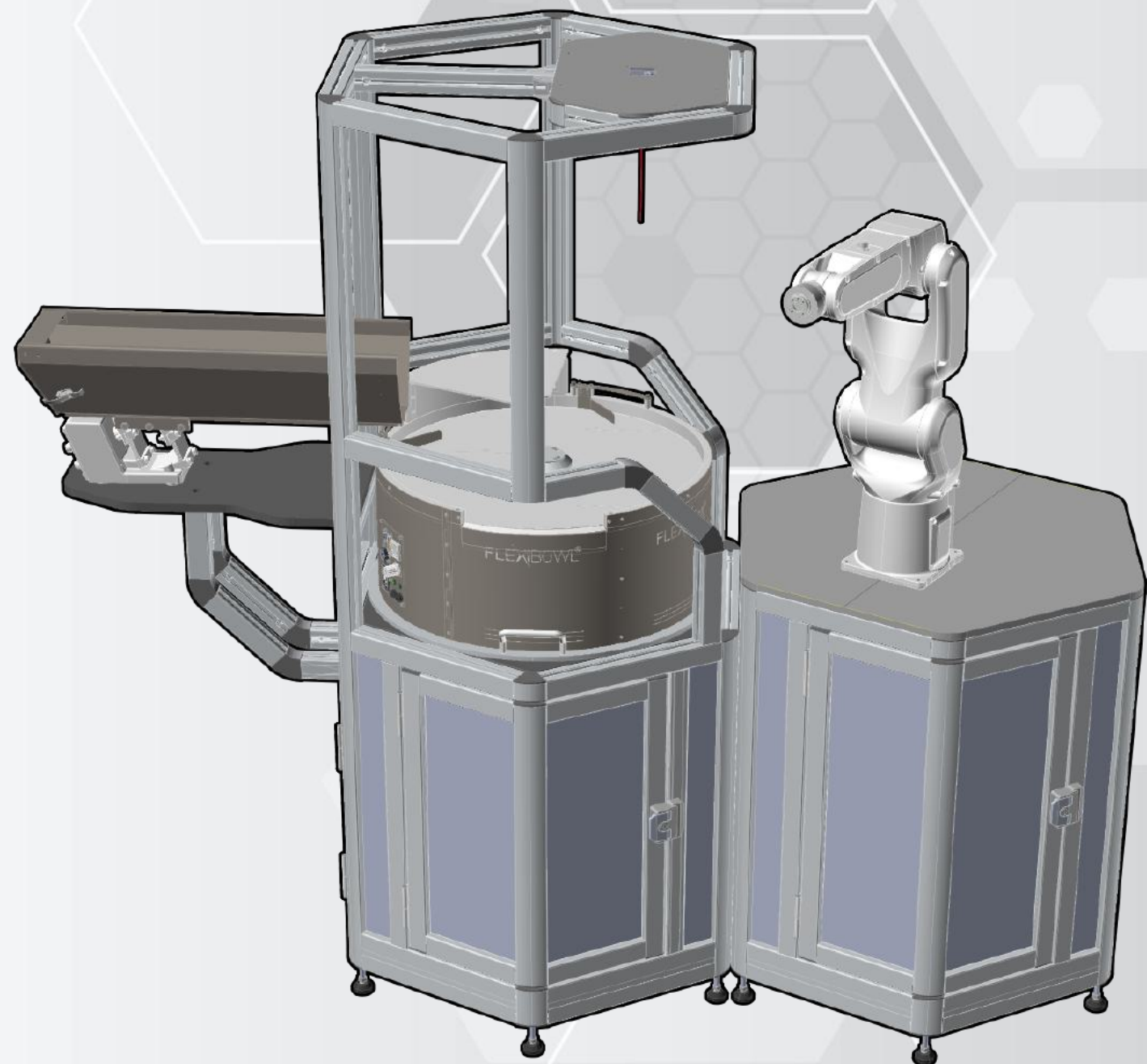
Save

Moveable

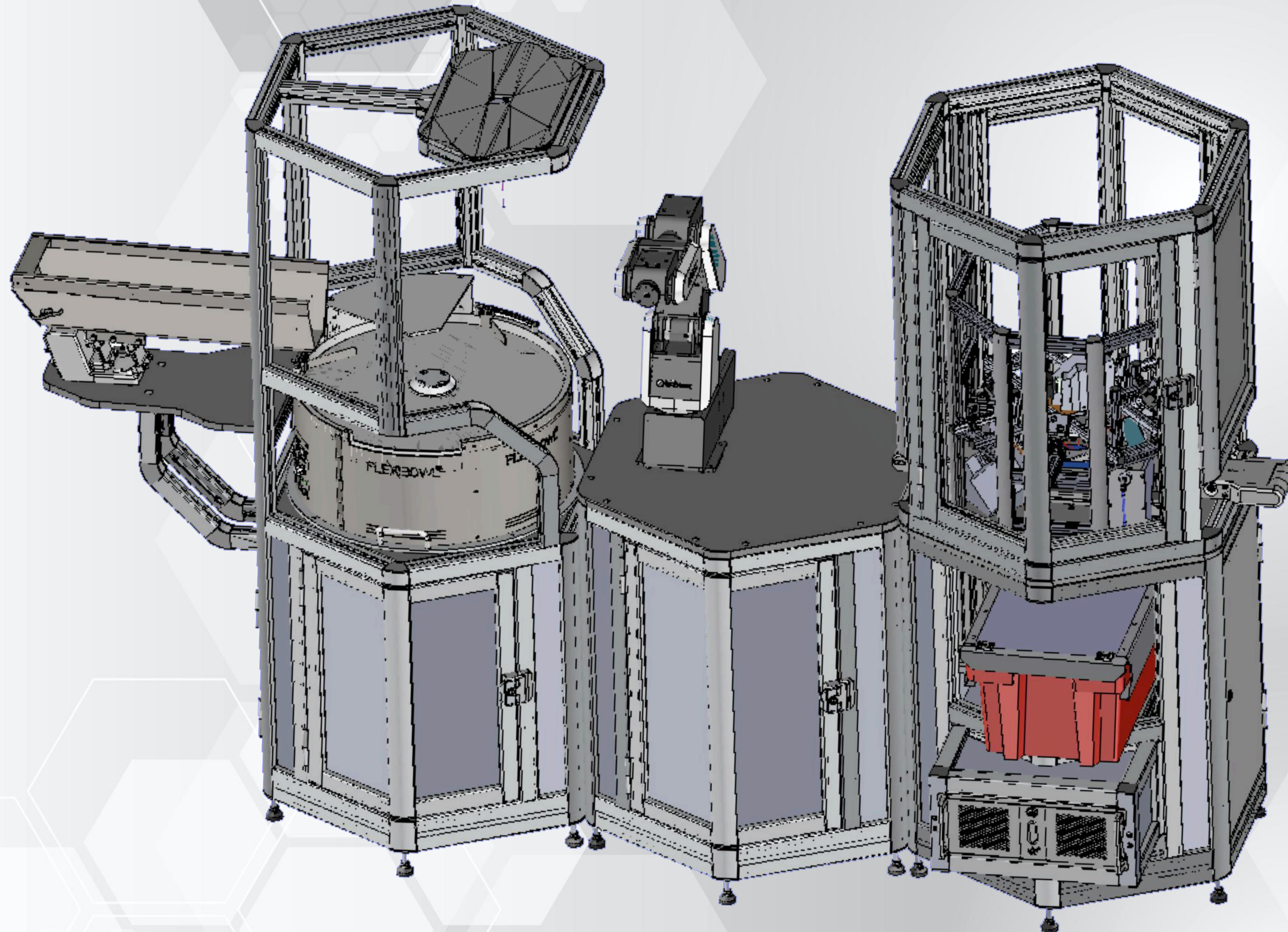


Protected by Law
european
Patent and Trademark
Office
Design patent
Utility model

Unique



2.5D Part Feeding



- Done for:
- Automotive Parts Metall
 - Automotive Parts Plastic
 - Zipper
 - Medication Bottles
 - Covid 19 test sticks
 - Cable glands
 - ...

SAMPLE PROJECTS



Control of turbocharger
compressor wheels

Automatic inspection of
turbocharger compressor
wheels



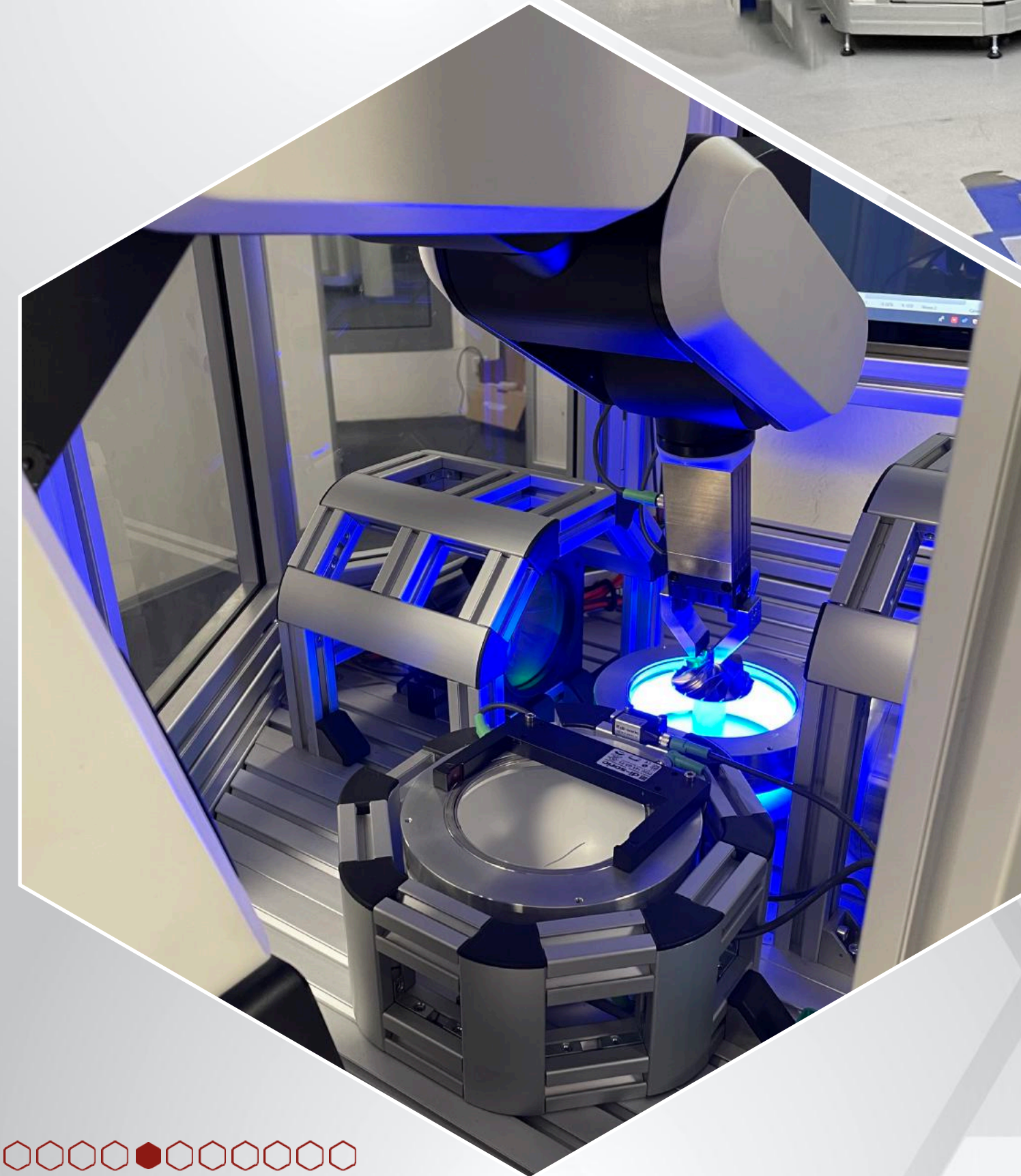
1st step test cell for dimensional
inspection 360° 0.02mm
accuracy - manual loading

2nd step test cell fully automatic
loading by robots

3rd step Checking compressor
wheels for damage using an
additional camera



The project could be extended
step by step. Due to the
scalable QBIC solution



SAMPLE PROJECTS

360° INSPECTION OF METAL PARTS

Requirements:

Automotive Metal parts check for dimensions, damage, surface 360°

Cycle Time:

10 Parts per minute

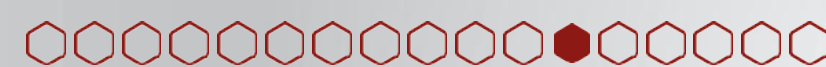
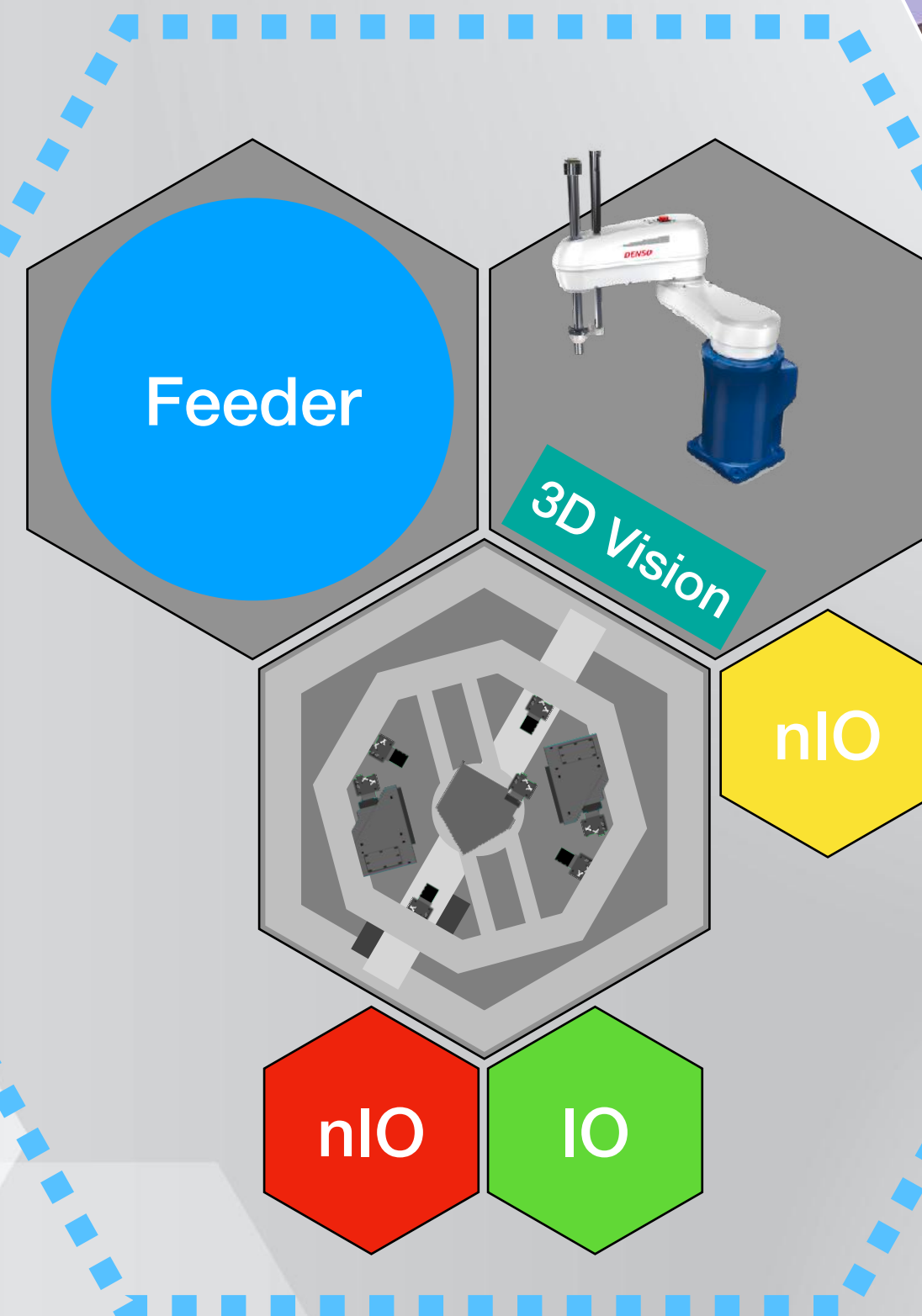
Hardware installed:

9x 2D Kamera 5 Megapixel

1x 3D System

1x Scara Roboter

1x flexible Part Feeding



SAMPLE PROJECTS

360° INSPECTION OF METAL PARTS

Requirements:

Check safety-relevant automotive metal parts for dimensions, damage, surface 360°.

Cycle time:

12 Parts per minute

Hardware installed:

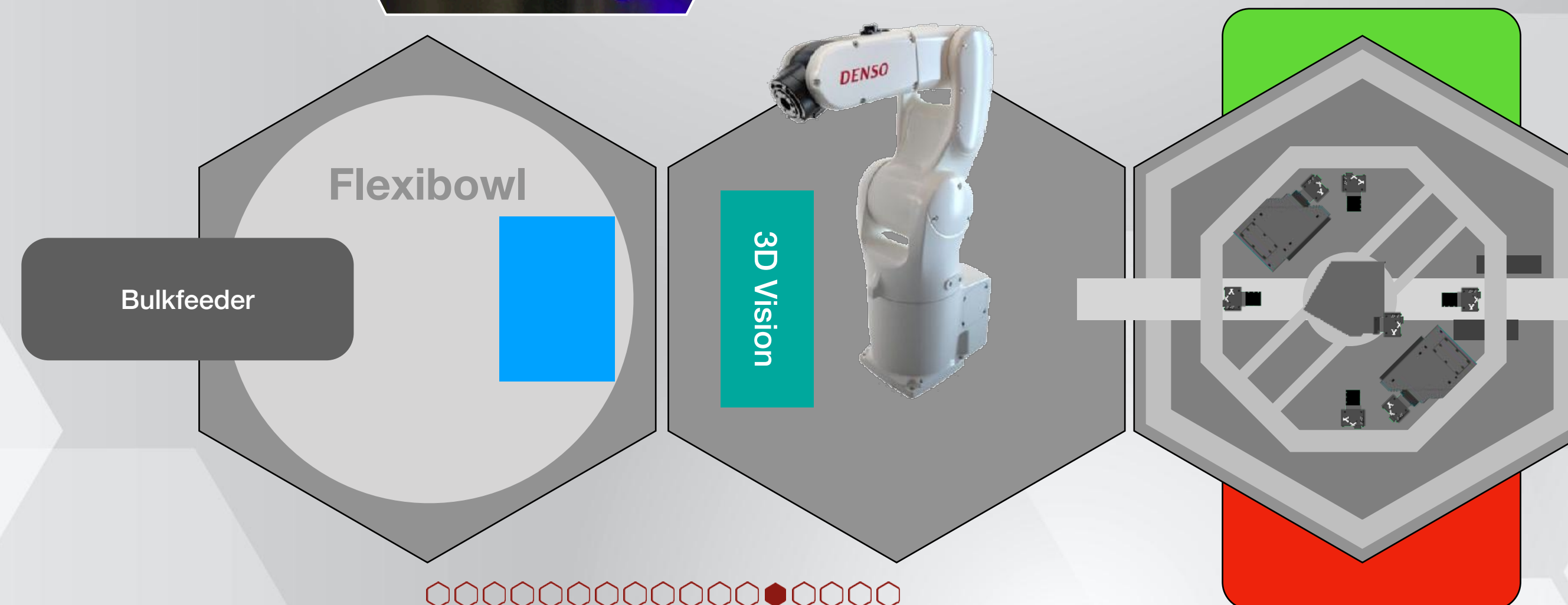
9x 2D Kamera 5 Megapixel

1x 3D System

1x 6-Achs Roboter

1x flexible Part feeding

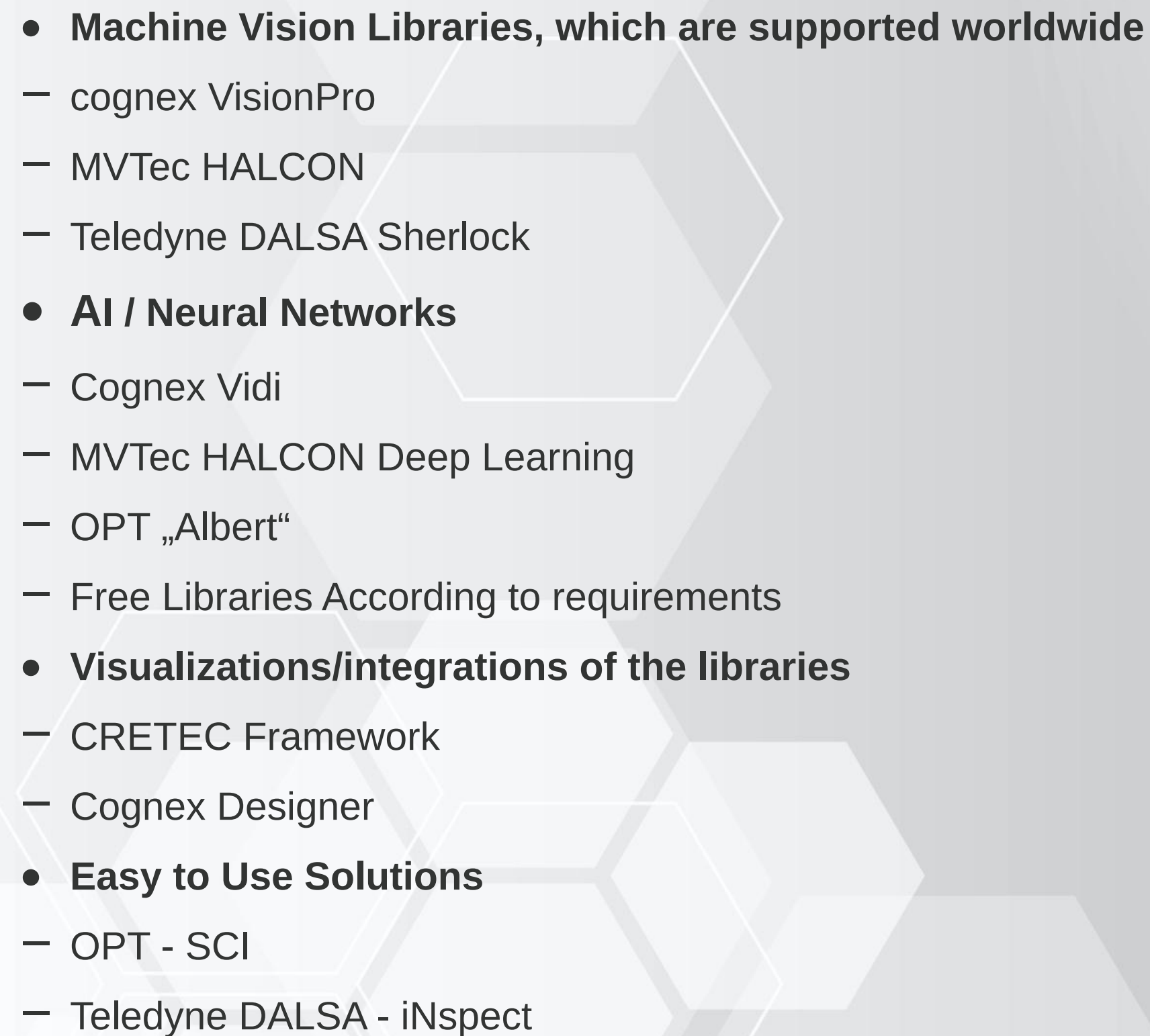
1x Security Radar System

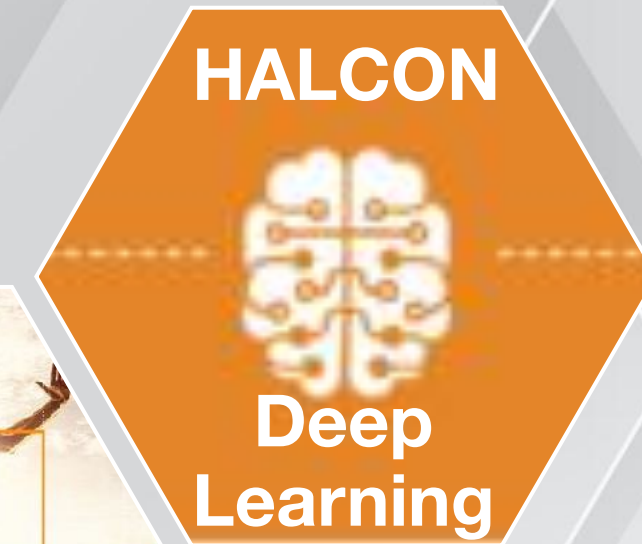
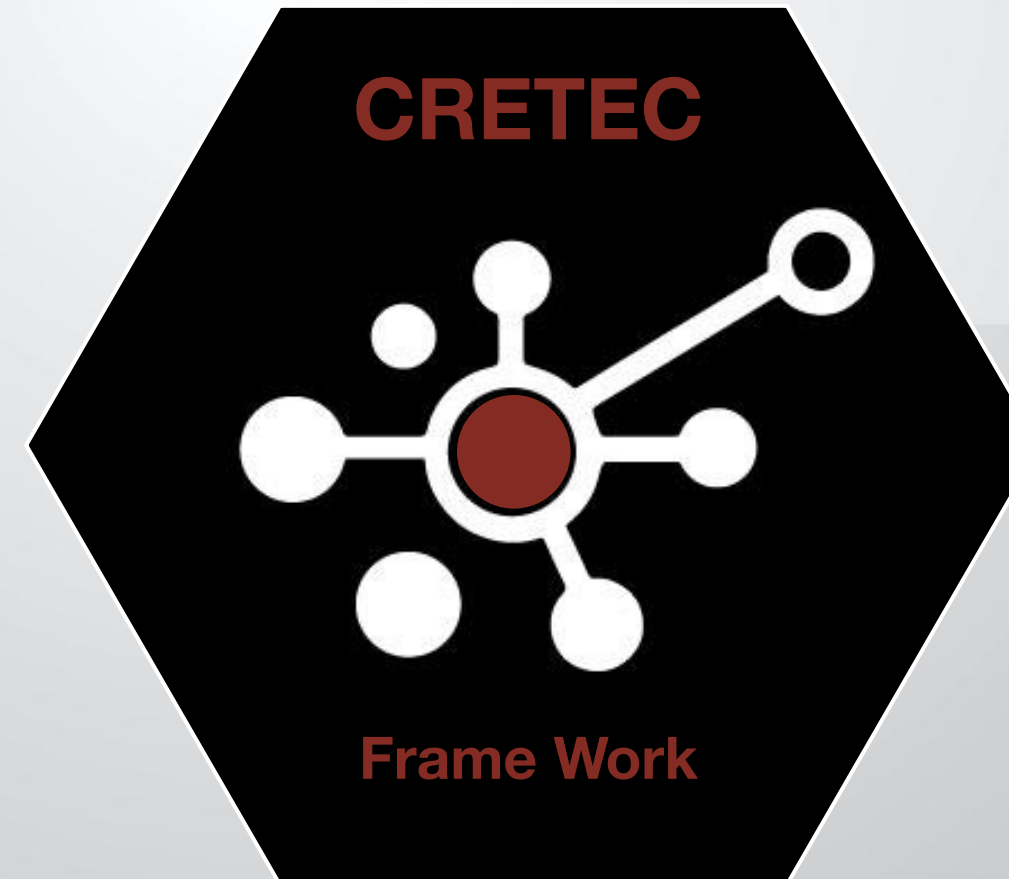
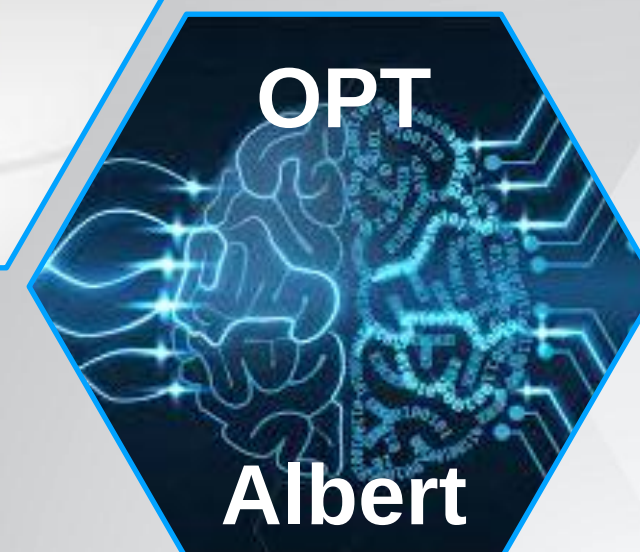


SOFTWARE
MACHINE
VISION



CRETEC delivers, integrate and support:

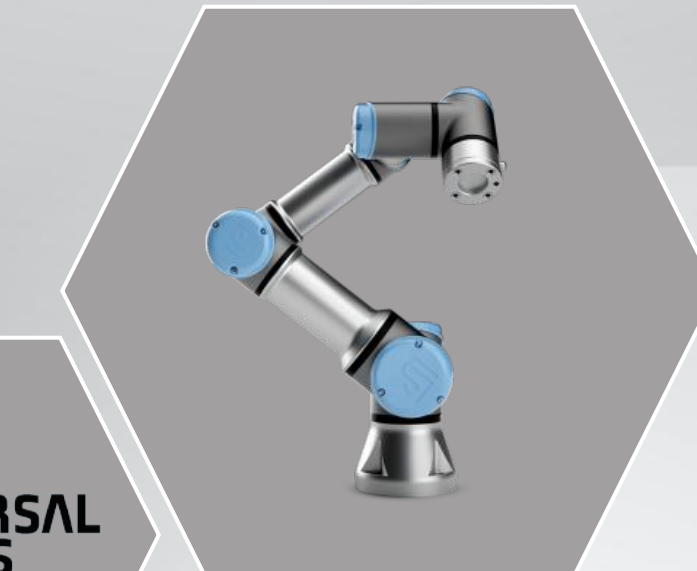
- 
- **Machine Vision Libraries, which are supported worldwide**
 - cognex VisionPro
 - MVTec HALCON
 - Teledyne DALSA Sherlock
 - **AI / Neural Networks**
 - Cognex Vidi
 - MVTec HALCON Deep Learning
 - OPT „Albert“
 - Free Libraries According to requirements
 - **Visualizations/integrations of the libraries**
 - CRETEC Framework
 - Cognex Designer
 - **Easy to Use Solutions**
 - OPT - SCI
 - Teledyne DALSA - iNspect





CRETEC delivers, integrates and supports:

- **Collaborative Robots**
 - Franka Emika
 - Fanuc
 - Universal Robots
- **Industrial Robots**
 - Fruitcore
 - Denso
 - Fanuc
 - Kuka



CRETEC Cyberpicker

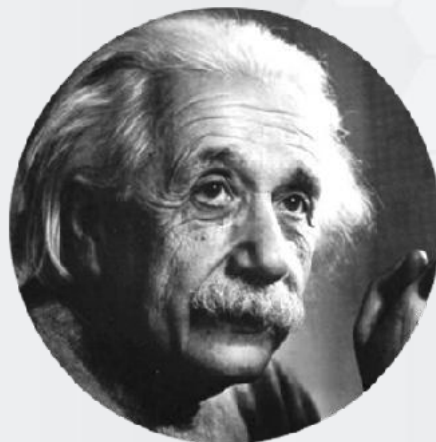
REFERENCES

In the meantime, there are more than 180 A4 pages of reports about us in the German trade press alone. In the most different branches - machine vision, robotics, automation, control engineering, electronics, PCs, food, pharma, packaging, surfaces, and, and, and...

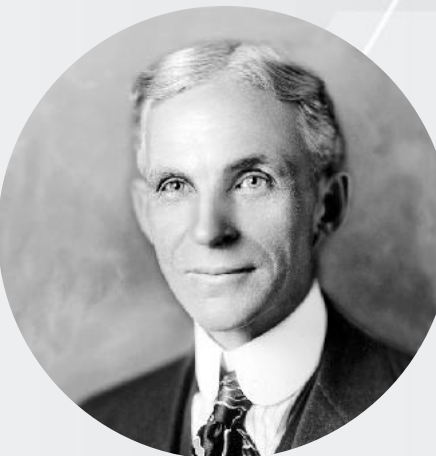


UNSERE VISION

HIGHTECH



„Probleme kann man niemals mit der selben Denkweise lösen, durch die sie entstanden sind.“
Albert Einstein



„Suche nicht nach Fehlern, Suche nach Lösungen.“
Henry Ford



„Die meisten Nachahmer lockt das Unnachahmliche.“
Marie von Ebner-Eschenbach

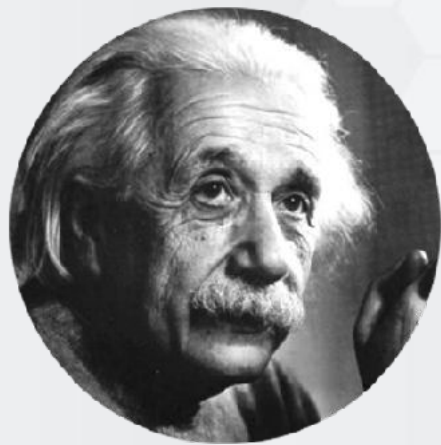


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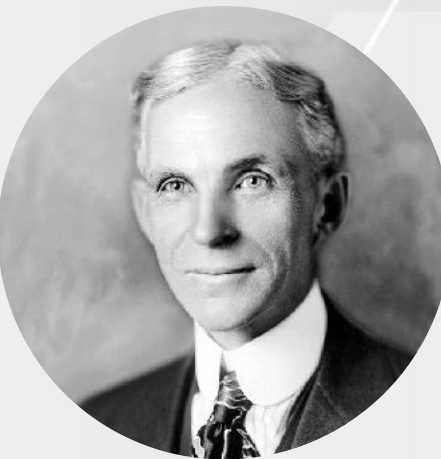


UNSERE VISION

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