



Digital transformation



Production logistics



Safety



Quality control

DIGITAL TRANSFORMATION

SENSORS

Sensor data as enabler



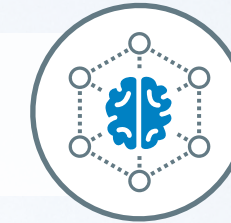
DATA ACQUISITION
& PROCESSING



INTEGRATION
& CONNECTIVITY



REMOTE
ACCESS



ARTIFICIAL
INTELLIGENCE

OPERATIONS

Transparency and efficiency
with digital solutions



DATA & DEVICE
MANAGEMENT



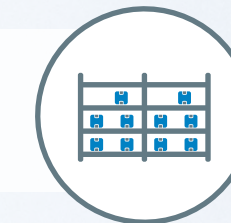
QUALITY
CONTROL



MATERIAL FLOW
MANAGEMENT &
SUPPLY CHAIN
TRANSPARENCY



IDENTIFICATION &
LOCALIZATION



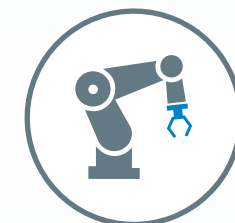
MATERIAL
STORAGE

MACHINES

Digital industrial automation –
safe and secure



AGV/AGC



ROBOTICS



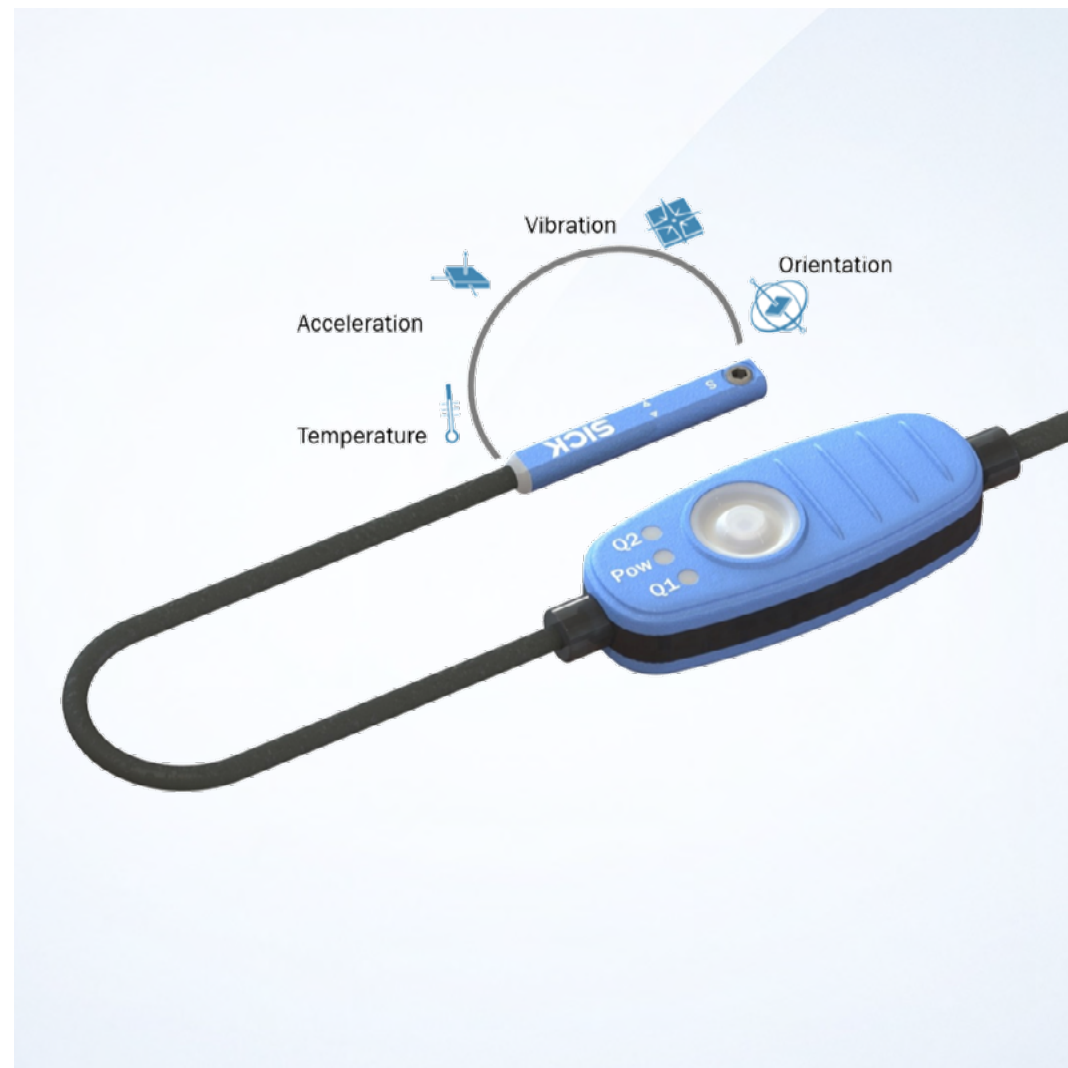
I4.0 RETROFIT



CONDITION
MONITORING &
PREDICTIVE
MAINTENANCE



MPS-G: Diagnostic sensor data enables condition monitoring



MPS-G: Diagnostic sensor data enables condition monitoring

Our solution

- Intelligent sensors are able to deliver much more information than a simple switching signal
- Example: position sensor MPS-G to monitor the position of pneumatic grippers
- Additional sensor information: temperature, acceleration, vibration, orientation
- Generated diagnosis data: actuator travel time, actuator velocity, acceleration time, etc.

Your benefit

- Machine down time prevention due to condition monitoring based on detailed diagnosis data
- Increased machine process transparency e.g., collision detection



SIG200:

IO-Link Master integrates sensor data to the PLC system and beyond

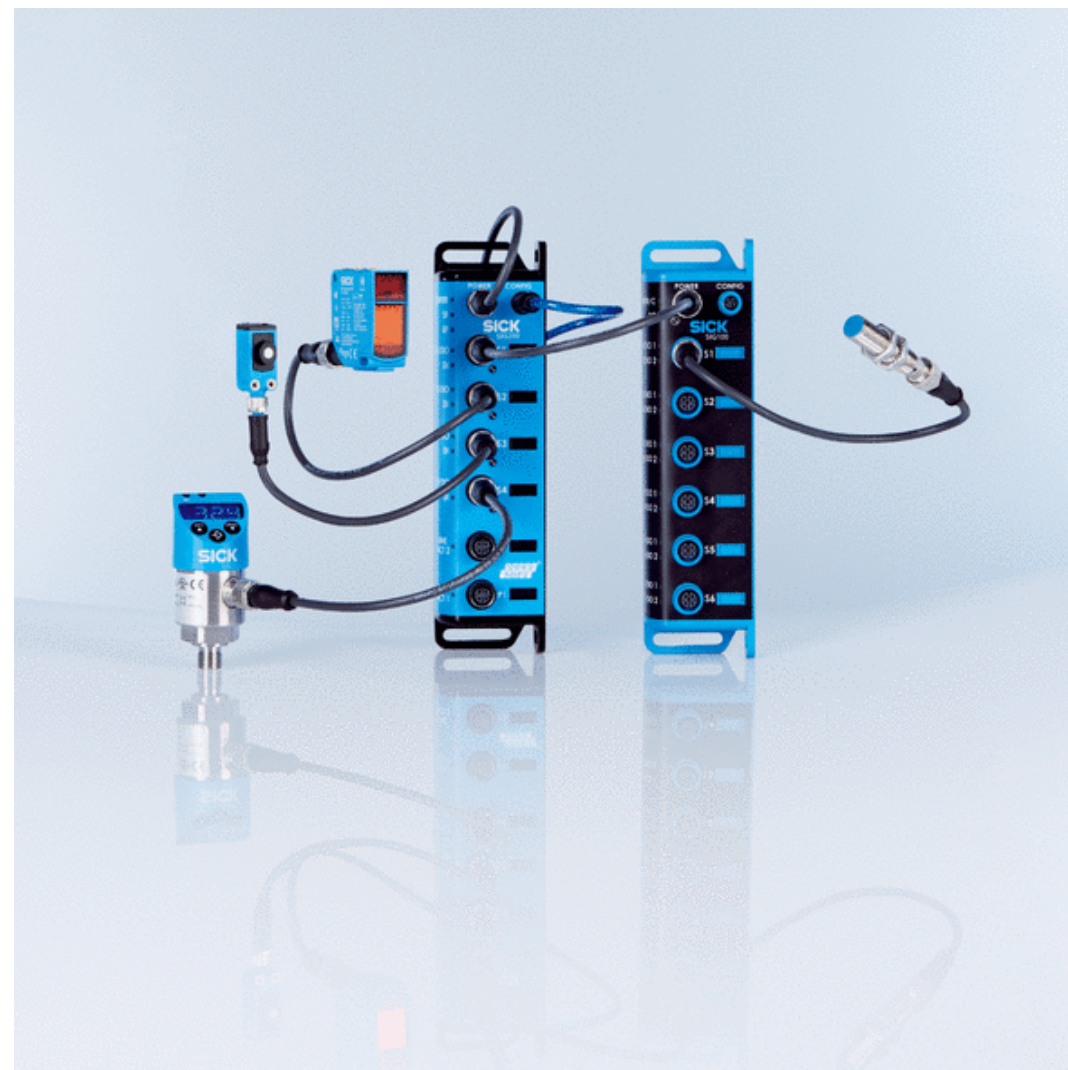


FieldEcho®:

Web-based graphical user interface for parameterization and monitoring of all IO-Link devices

TDC:

Field level data made available for IT level by IIoT gateway technology



SIG200: IO-Link Master integrates sensor data to the PLC system and beyond

- The SIG200 Sensor Integration Gateway is an IO-Link Master for integrating IO-Link devices into common PLC environments and enterprise level systems
- “Dual Talk”: Access to sensor data from the company level (second data channel for higher-level processing via a REST-API) and in parallel via industrial Ethernet



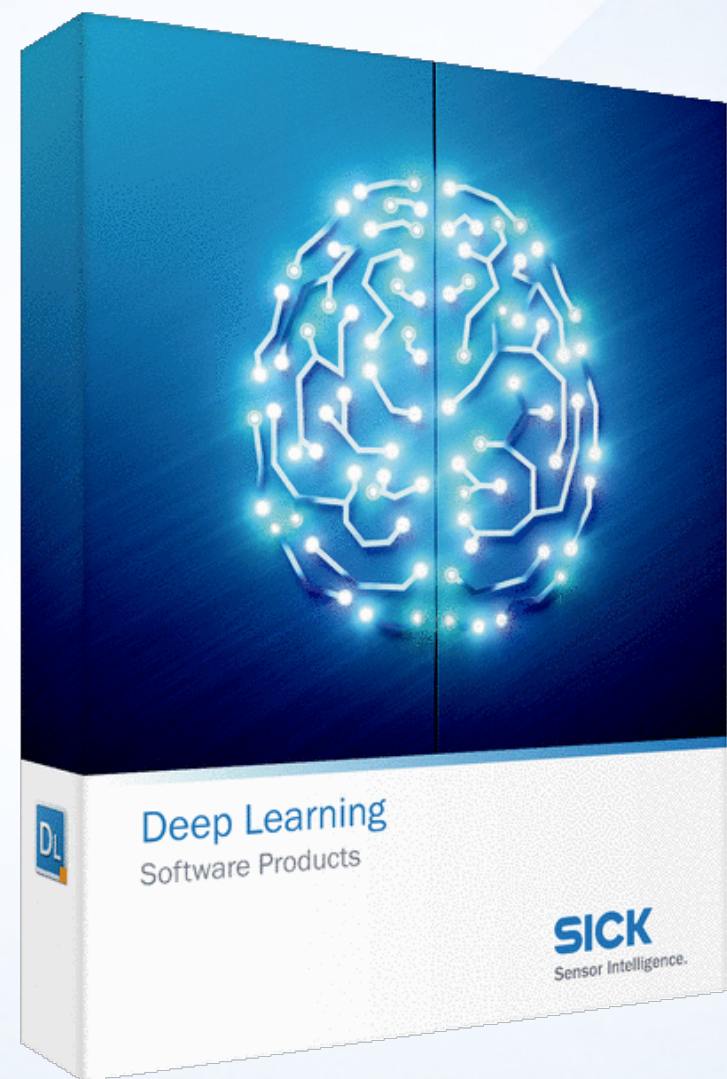
FieldEcho®: Web-based graphical user interface for parameterization and monitoring of all IO-Link devices

- FieldEcho® allows for parameterization and monitoring of all IO-Link devices in a plant throughout the whole life cycle – regardless of the PLC, fieldbus, or IO-Link Master used
- FieldEcho® provides access to the IO-Link Device process and service data



TDC: Field level data made available for IT level by IIoT gateway technology

- The Telematic Data Collector (TDC) networks sensors, machines, systems, and vehicles using IIoT platforms
- The TDC brings together all the information along the value adding chain, thereby providing the ideal basis for wide-ranging analysis of that information and for deriving useful measures to increase productivity and efficiency



Deep Learning: Artificial intelligence for SICK sensors

Deep Learning: Artificial intelligence for SICK sensors

Our solution

- The Deep Learning software makes it possible to train artificial neural networks for SICK sensors in the cloud with little effort using example images
- Fast, automatic, reliable decision-making by sensors, even for complex tasks
- Reduces development time and expenses: image analyses are trained using example images
- No additional hardware and software is required thanks to the cloud training

Your benefit

- No programming needed, as solution is based on trained pictures which reduces development time and expenses
- Time and resource efficient, since complex quality or process control tasks can be solved easily and fast





Remote Service Connect: Preventing machine downtime by safe remote maintenance of programmable SICK devices

Remote access



Remote Service Connect: Preventing machine downtime by safe remote maintenance of programmable SICK devices

Our solution

- The Remote Service Connect SensorApp makes it possible to link SICK devices via Remote Service
- The app is designed to offer a pure Remote Service software solution for all programmable SICK devices
- Neither a meeting point router nor special hardware is needed to connect SICK devices to the Remote Service platform
- There are no additional costs for a gateway or a router

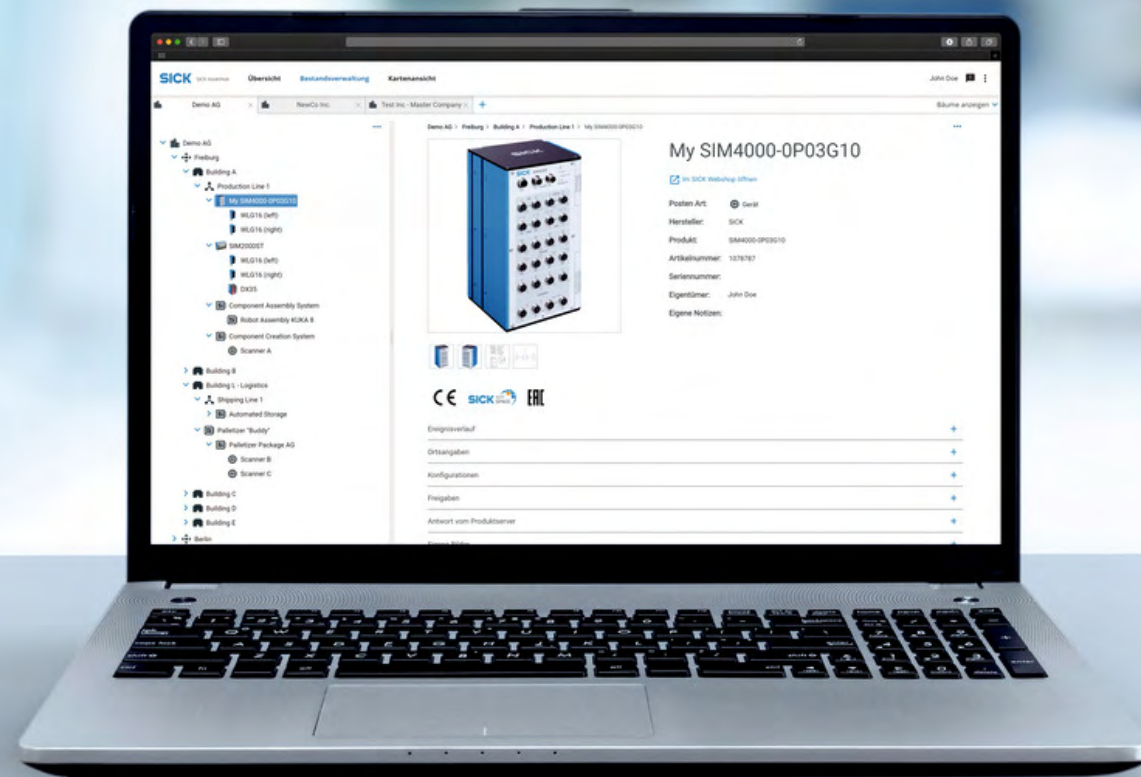
Your benefit

- Enables safe remote maintenance of programmable SICK devices which prevents machine downtimes and increases machine availability

Remote access

Data and device management

SICK AssetHub: Create and manage digital twins of all devices or systems of a company





SICK AssetHub: Create and manage digital twins of all devices or systems of a company

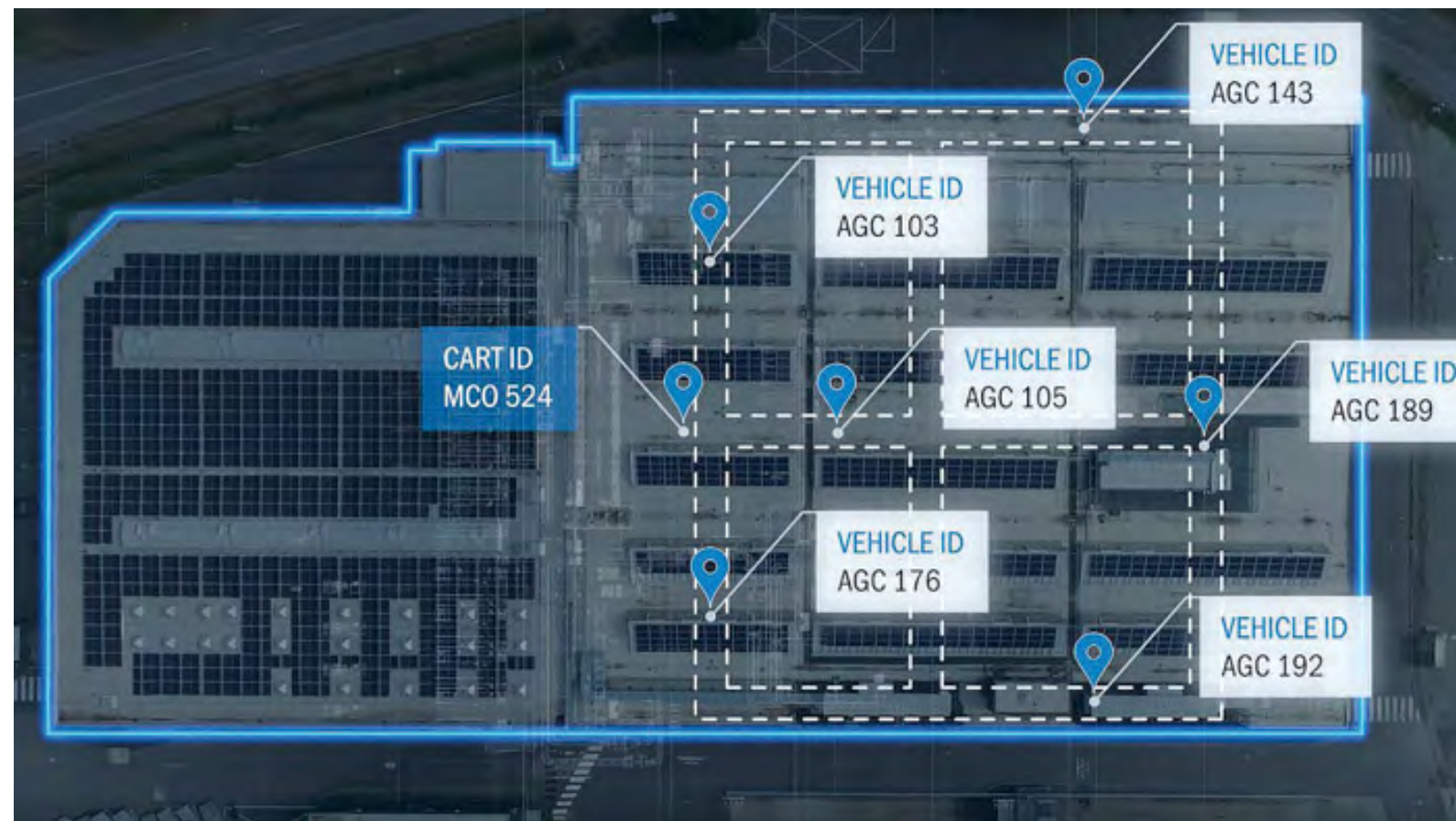
Our solution

- SICK AssetHub is a digital service which can be used to manage the digital twins of all devices or systems of a company, regardless of the manufacturer
- The digital service enables an interactive overview of these assets, creating transparency
- It also provides important information and documents throughout the life cycle of all assets
- SICK AssetHub provides the necessary foundation for any I4.0 strategy and is a flexible basis which can be extended with modules

Your benefit

- Creates transparency over all assets
- Saves time by providing important information and documents of all assets over one digital platform / web service

Data and device management



Asset Analytics: Full shop floor transparency – what, where, when, and who

Material flow management and supply chain transparency

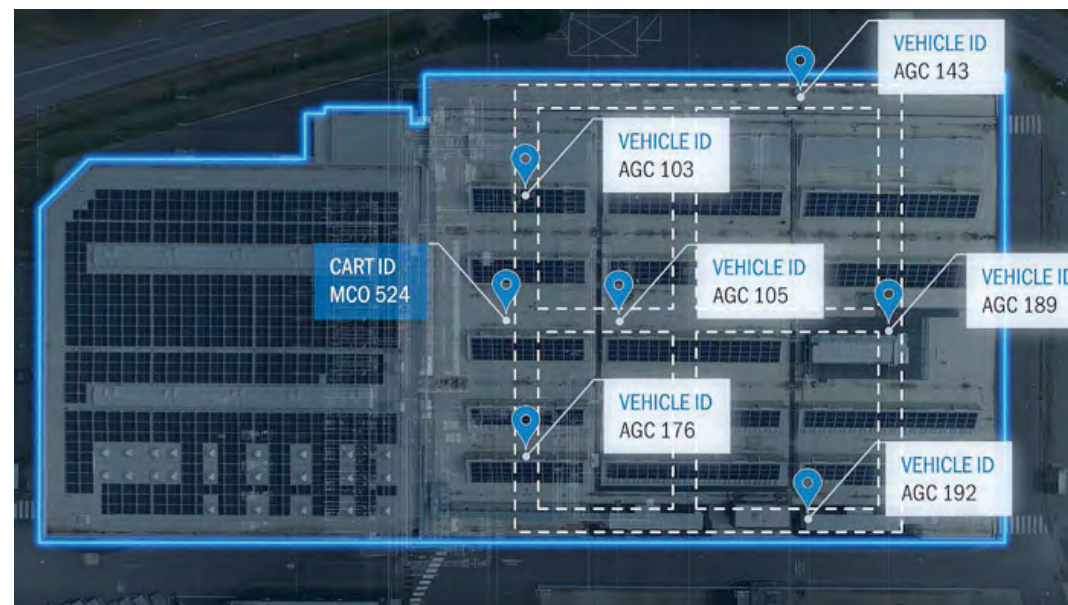
Asset Analytics: Full shop floor transparency – what, where, when, and who

Our solution

- Asset Analytics is a visualization and analysis platform which fuses the localization and time data of all concerned localization systems
- Enables the display of movement profiles, the analysis of transport and downtime, and the derivation of optimization potential for process logistics
- Offers open interfaces which enable the use of both raw data and pre-processed data in company-wide supply chains for asset management tools or cloud applications

Your benefit

- What, where, when, who: provides full shop floor transparency about tracked assets and products
- Based on collected and visualized information actions can be derived to increase efficiency of shop floor processes, e.g., material flow



Material flow management
and supply chain transparency



CLV6 series:

Fixed mount bar code scanners

Lector® series:

Image-based code readers

IDM series:

Mobile hand-held scanners

RFH and RFU series, and Tag-LOC system:

RFID and UWB technology solutions

Identification and localization



CLV6 series: Fixed mount bar code scanners

- Reading of bar codes at various distances and with different object sizes with just one device thanks to a large depth of field

Identification and localization



Lector® series: Image-based code readers

- Flexible reading of various code types, for example 2D codes such as data matrix codes, regardless of the code alignment (360°)

Identification and localization



IDM series: Mobile hand-held scanners

- Mobile scanning of a variety of code types (e.g., and 2D codes such as data matrix codes) and ability to read the code regardless of its orientation (360°) – for high flexibility

Identification and localization



RFH and RFU series, and Tag-LOC system: RFID and UWB technology solutions

- Reliable identification and localization (UWB) of concealed or contaminated objects, as no visual contact with the RFID/UWB tag is necessary

Identification and localization



Quality Inspection SensorApp: Easy solution for quality inspection tasks with 2D vision

Quality control



Quality Inspection SensorApp: Easy solution for quality inspection tasks with 2D vision

Our solution

- Quality assurance applications are solved by simply configuring a selection of tools for image analysis using a graphical user interface in a web browser
- The user can easily add standard and custom SICK Nova tools
- Scalable InspectorP6xx hardware: fitted to your needs for resolution, field of view, and size

Your benefit

- Reliable detection of faulty parts which enables good part delivery
- SensorApp provides a wide toolset to efficiently solve quality inspection tasks and the solution can be quickly customized if needed by complementing the toolset with a standard or custom tool

Quality control



SICK Smart shelf solutions: Full transparency about stored materials and automation of replenishment

Material storage



SICK Smart shelf solutions: Full transparency about stored materials and automation of replenishment

Our solution

SICK Smart shelf solutions consist of scalable identification solutions, sensors, and displays, which enable to:

- Monitor flexibly stored material
- Automatically start replenishment processes (eKanban)
- Guide and control manual picking and placing tasks
- Remotely monitor local material inventory

Your benefit

- Full transparency about stored material which reduces efforts, e.g., searching for material
- Increased efficiency by, e.g., automatic start of replenishment processes

Material storage



Holistic sensor solution portfolio for mobile platforms (AGVs/AGCs)

AGV / AGC



Holistic sensor solution portfolio for mobile platforms (AGVs/AGCs)

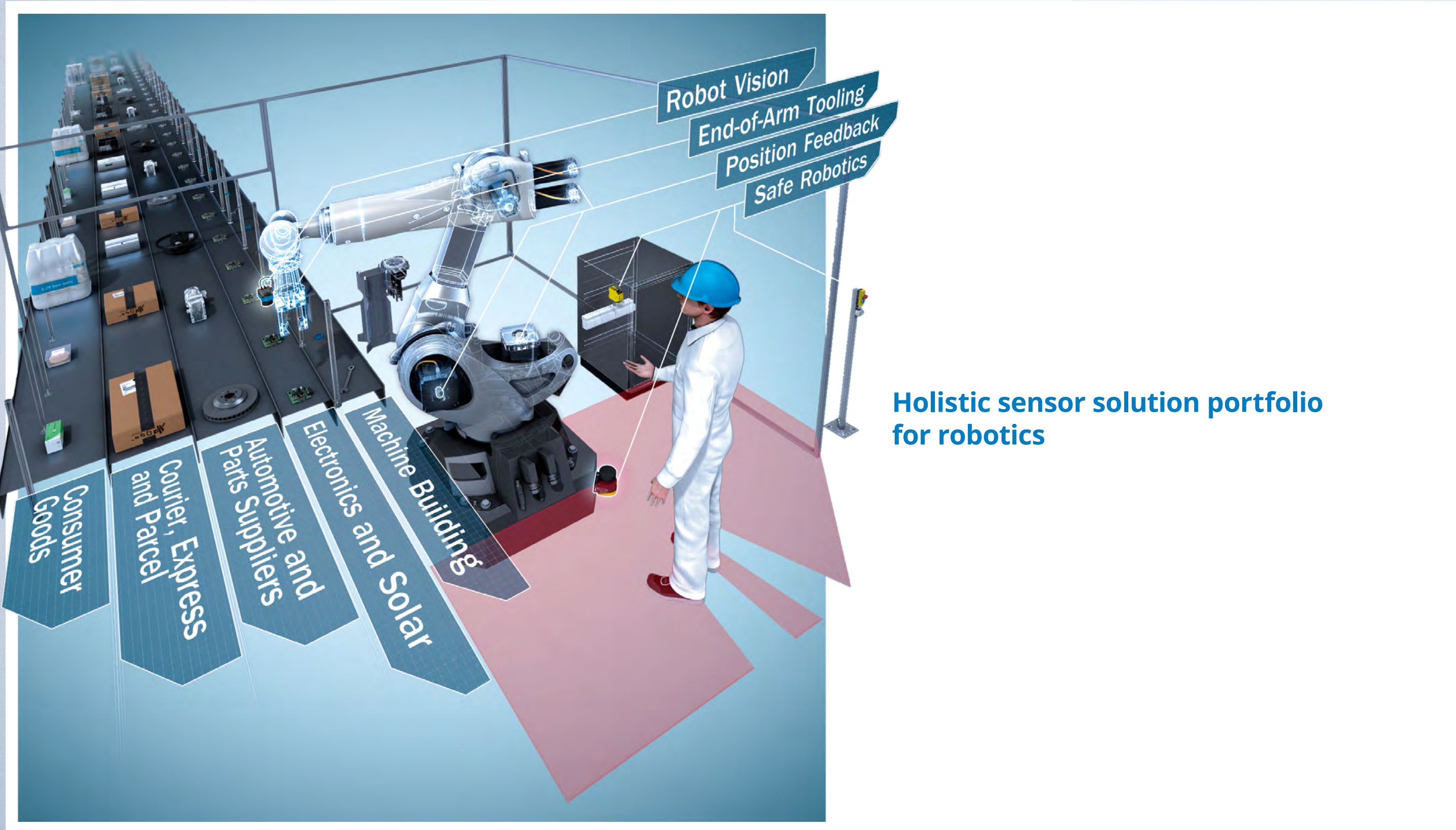
Our solution

- Navigation and positioning: localization, motion control, line guidance
- Load handling: load detection, load positioning, identification and tracking
- Environmental perception and safety: collision avoidance, personnel safety, safe control

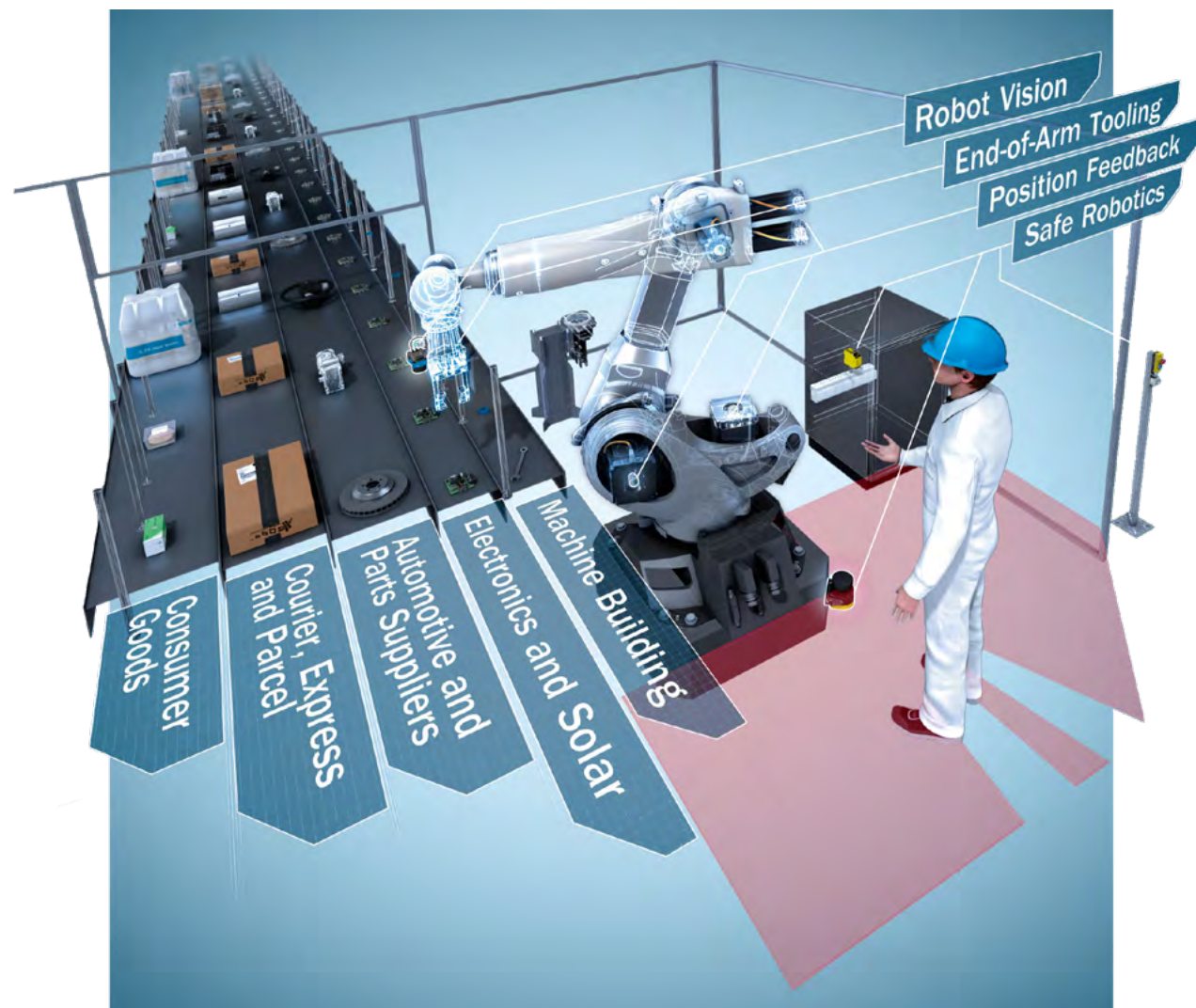
Your benefit

- Mobile platforms (AGVs/AGCs) enable flexible production and logistics, e.g., to realize an efficient small-batch-size production
- One-stop shop: SICK is a holistic sensor solution provider for navigation and positioning, load handling and safety

AGV / AGC



Robotics



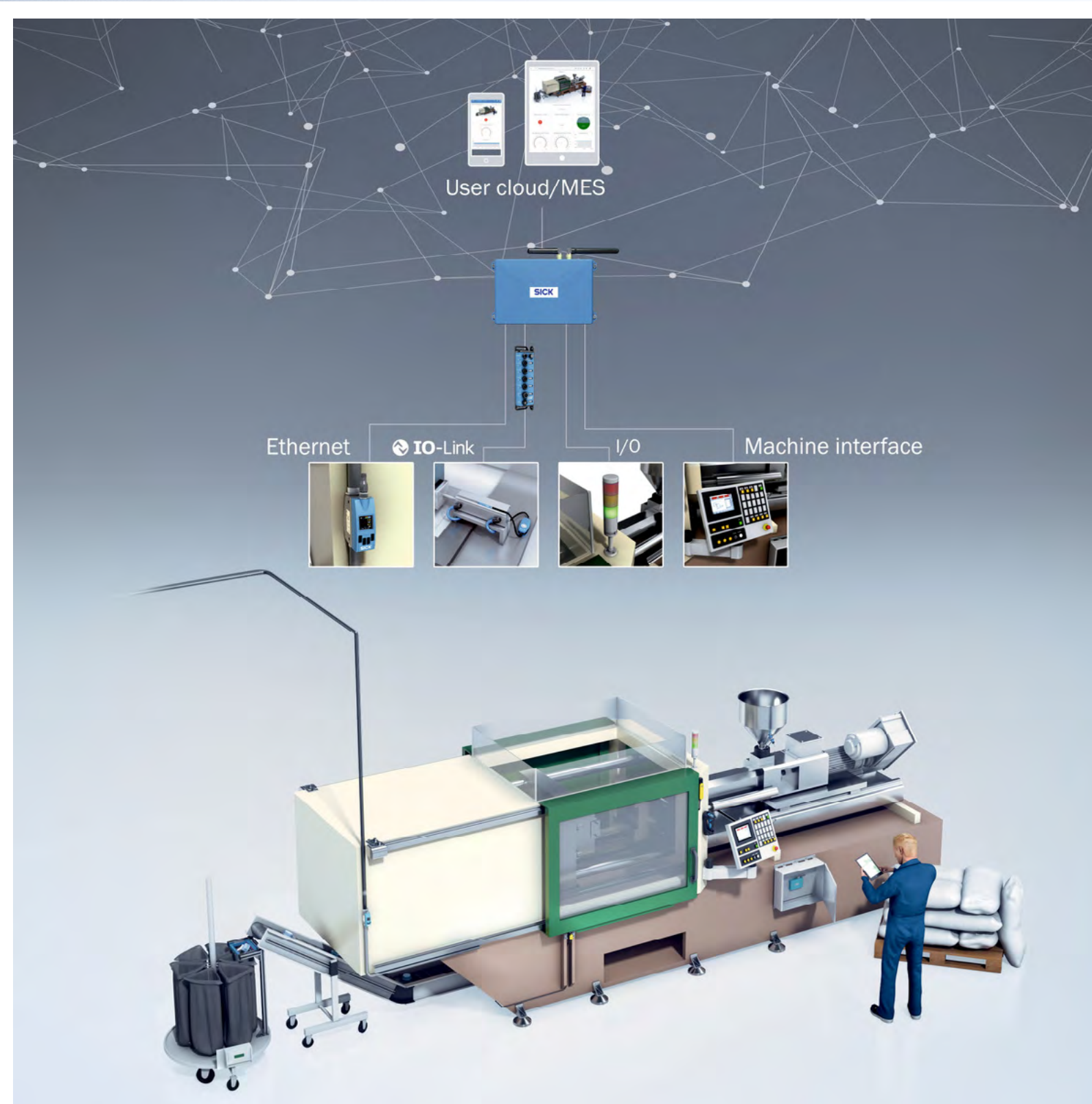
Holistic sensor solution portfolio for robotics

Our solution

- Robot Vision: 2D/3D robot guidance
- End-of-Arm Tooling: gripper monitoring solutions
- Position Feedback: Smart Motor Sensors
- Safe Robotics: robot-specific safety packages

Your benefit

- Robots enable a flexible and efficient production
- One-stop shop: SICK is a holistic sensor solution provider for Robot Vision, End-of-Arm Tooling, Position Feedback, and Safe Robotics



SICK Monitoring Box: I4.0 Retrofit solution to make “old” machines ready for the digital future

I4.0 Retrofit

SICK Monitoring Box: I4.0 Retrofit solution to make “old” machines ready for the digital future



Our solution

- Enables timely intervention by operating personnel, as it allows early detection and visualization of status changes of sensors, machines, and plants
- Software-based solution which can be adapted to specific customer requirements and implemented either at the customers premises or in the SICK cloud
- The SICK Monitoring Box consists of: responsive browser application, cloud-based data management, IIoT gateway, monitoring apps

Your benefit

- Service life of the machine can be extended with low investment costs, since existing machines are made ready for the digital future
- Machine level data is made available for IT level to gain transparency and to enable condition monitoring and predictive maintenance solutions



FTMg: Energy monitoring for cost reduction with detection of over-consumption and optimized maintenance processes

Condition monitoring and predictive maintenance



FTMg: Energy monitoring for cost reduction with detection of overconsumption and optimized maintenance processes

Our solution

From intelligent sensors to the integration in your system right through to complete solutions:

1. Stand-alone FTMg multifunctional flow sensor including web server
2. One or more FTMg devices with an IIoT gateway, e.g., the TDC-E from SICK for data pre-processing and integration into customer-specific MES, cloud, or energy management systems
3. The SICK Monitoring Box as a complete solution for FTMg flow sensors including monitoring app, dashboard with alarm function, integration, and corresponding software and cloud services

Your benefit

- Cost savings due to detection of overconsumption and prevention of unplanned maintenance
- Efficient and optimized maintenance processes due to data transparency

Condition monitoring and predictive maintenance

PRODUCTION LOGISTICS

MATERIALS MANAGEMENT



IDENTIFICATION

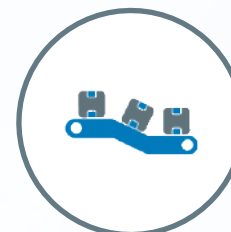


LOCALIZATION



HANDLING UNIT MANAGEMENT

MATERIAL TRANSPORT



CONVEYORS



MOBILE PLATFORMS



INDUSTRIAL TRUCKS

MATERIAL LOADING AND UNLOADING



ROBOTICS



BUFFER STORAGE



PICKING

DATA MANAGEMENT



CONNECTIVITY



MIDDLEWARE



ANALYTICS

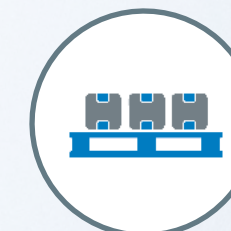
MATERIAL STORAGE



AUTOMATED STORAGE

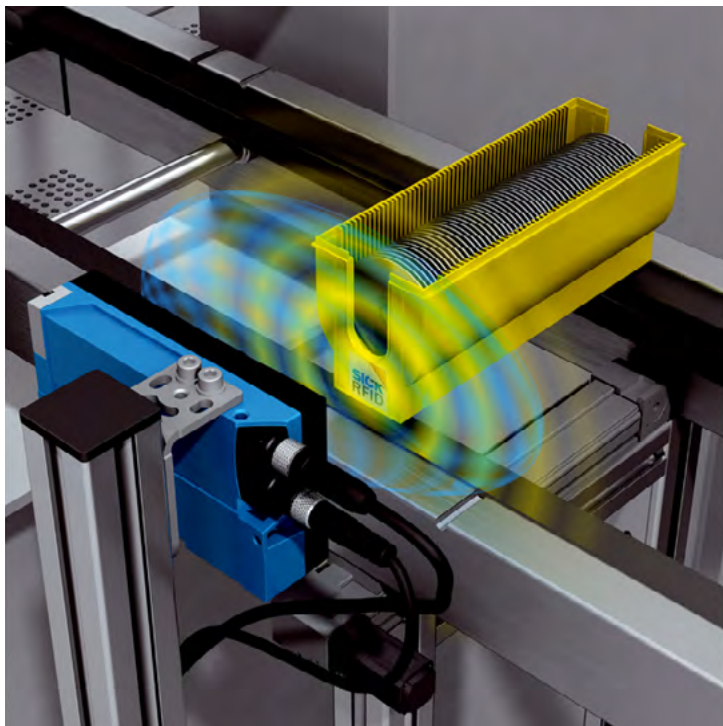
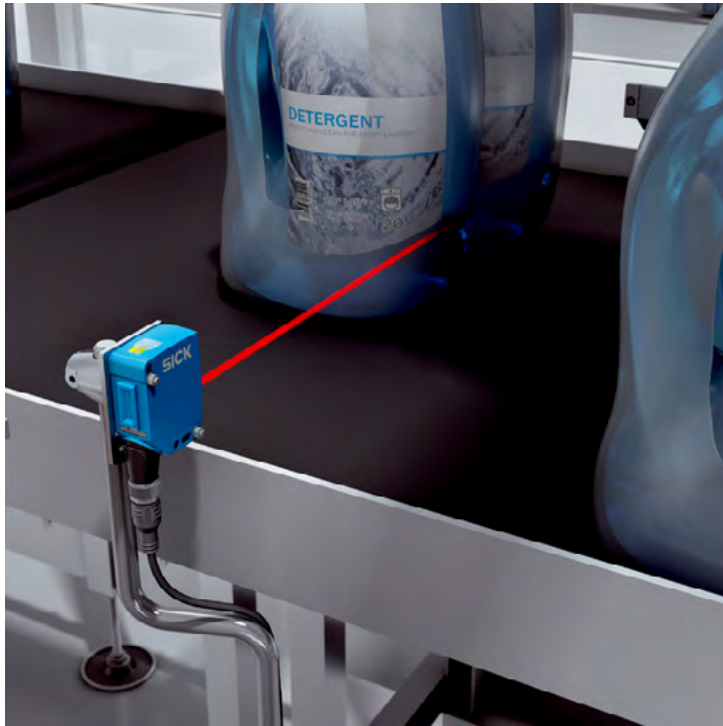


SMART SHELF



OPEN-SPACE STORAGE

Identification



Flexible and efficient automated identification of materials, bins, or workpiece carriers



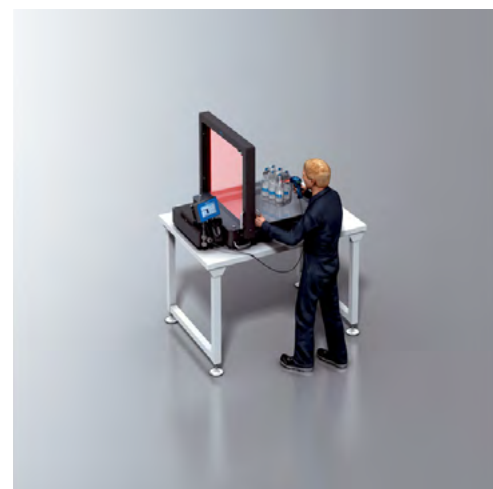
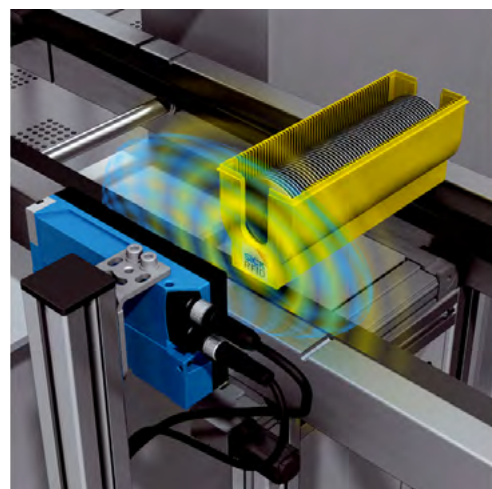
Flexible and efficient automated identification of materials, bins, or workpiece carriers

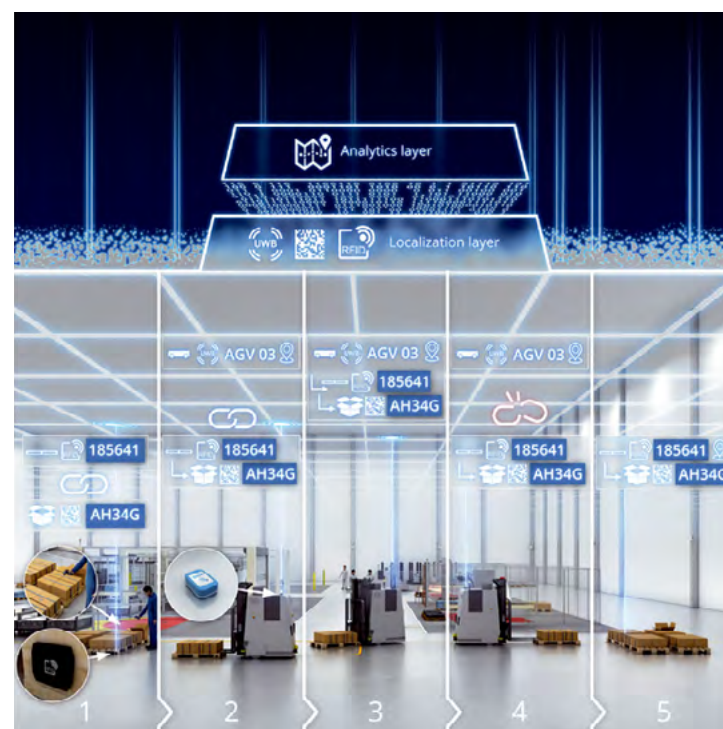
Our solution

- Bar codes
- 2D codes
- RFID tags
- Master Data Analyzer

Your benefit

- One-stop shop: SICK is a holistic sensor solution provider for all material identification tasks
- Free choice between diverse technologies to fit your application





Saving time by transparent material management with the help of localization solutions

Localization



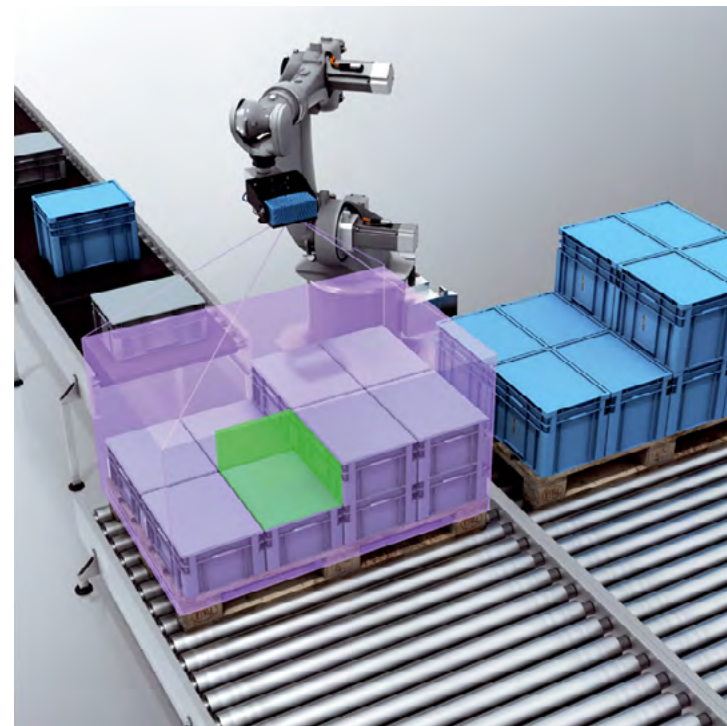
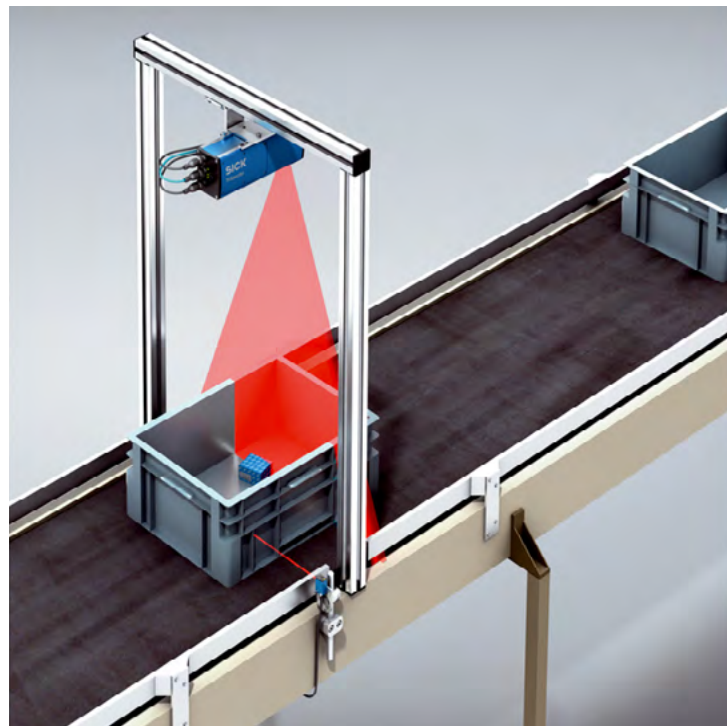
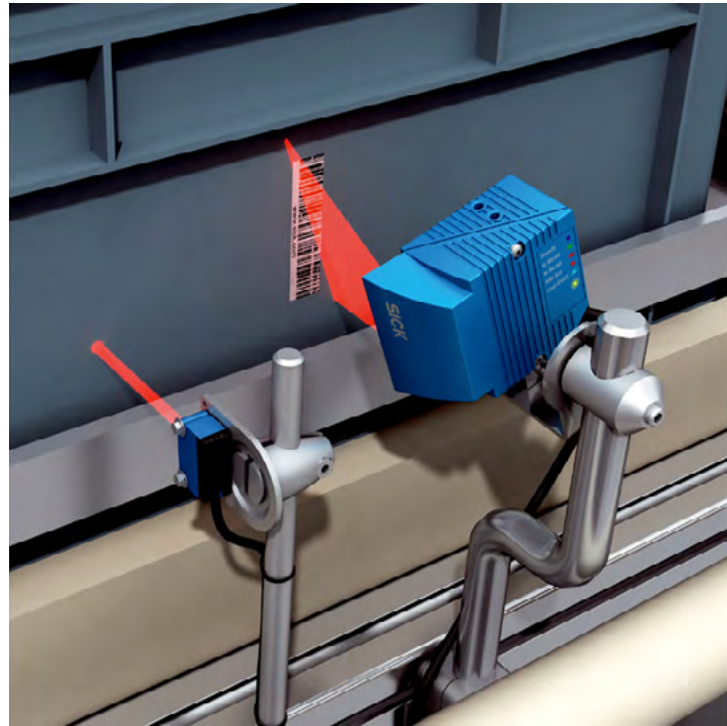
Saving time by transparent material management with the help of localization solutions

Our solution

- localization of objects
- Indirect localization of objects
- Booking automation by localization
- Tag-based

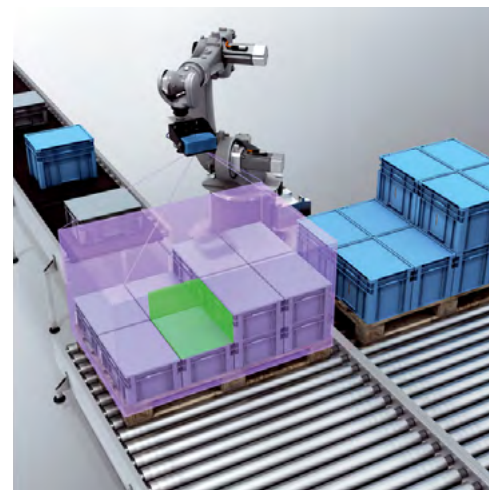
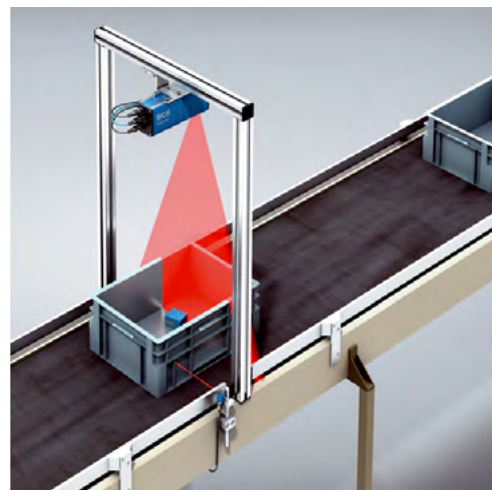
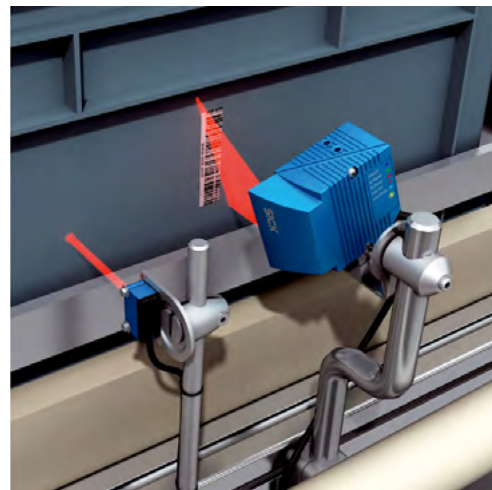
Your benefit

- Shortened waiting times, reduced empty runs, and optimized transport routes
- Greater process transparency for audits, regulatory authorities, and just-in-time production by visualizing asset position data and sensor data in real time



Increased flexibility and efficiency in handling unit management

Handling unit management



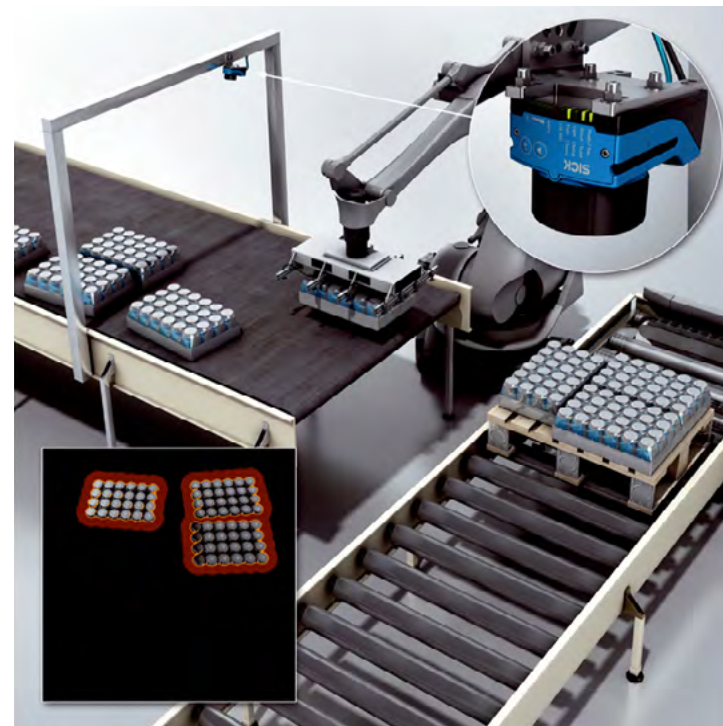
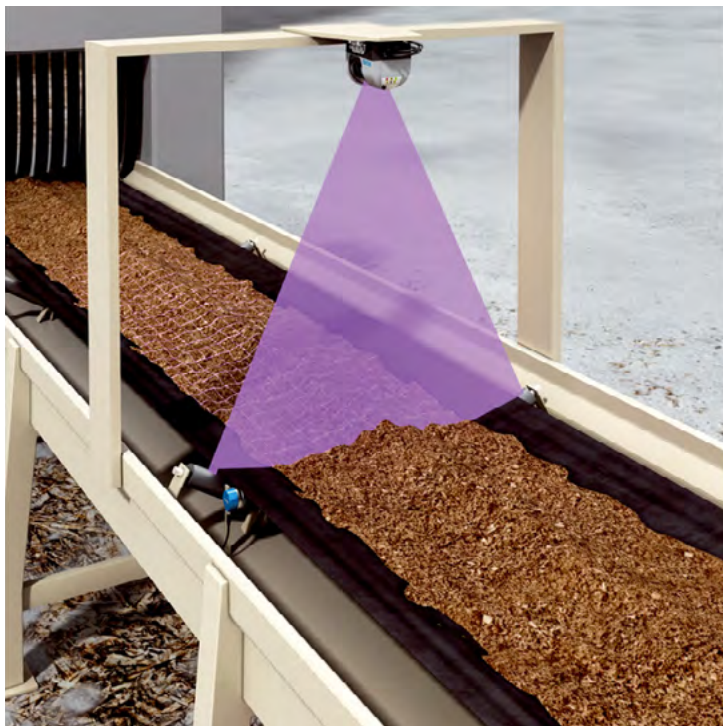
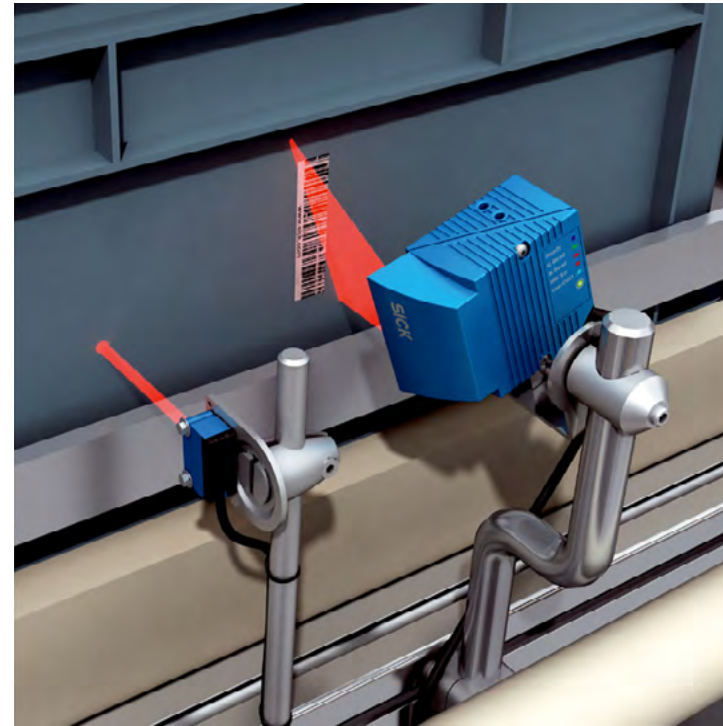
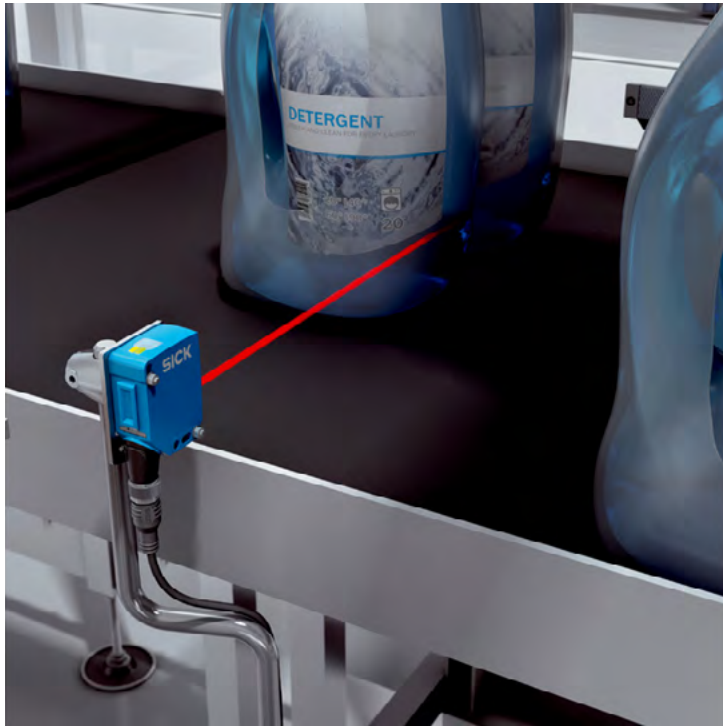
Increased flexibility and efficiency in handling unit management

Our solution

- Handling unit identification
- Bin inspection / empty tote detection
- Container handling robot guidance solutions

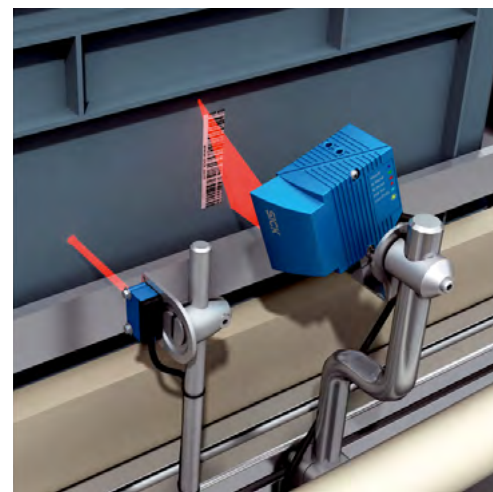
Your benefit

- One-stop shop: SICK is a holistic sensor solution provider for all handling unit management tasks
- Free choice between diverse technologies to fit your application



Automated material transport on belt conveyors, workpiece carriers, or overhead conveyors

Conveyors



Automated material transport on belt conveyors, workpiece carriers, or overhead conveyors

Our solution for

- Position detection
- Material/carrier identification
- Volume measurement on conveyor belts
- Robot guidance

Your benefit

- One-stop shop: SICK is a holistic sensor solution provider for all tasks on conveyor-based material transport
- Free choice between diverse technologies to fit your application

Conveyors



Holistic sensor solution portfolio for mobile platforms (AGVs/AGCs)



Holistic sensor solution portfolio for mobile platforms (AGVs/AGCs)

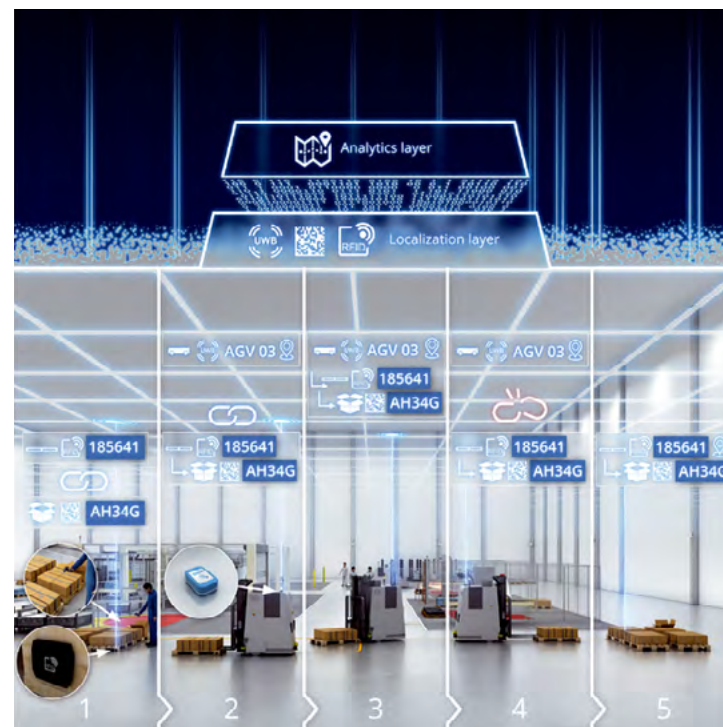
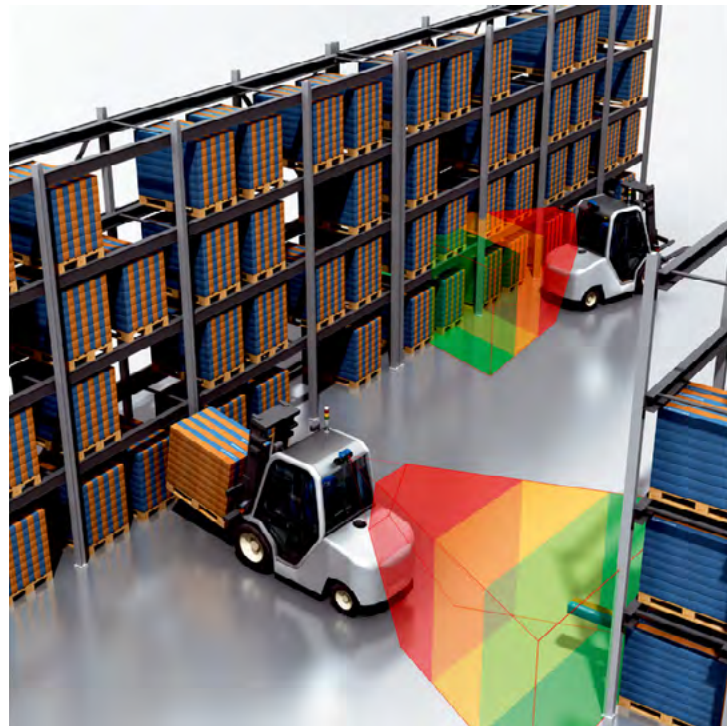
Our solution

- Navigation and positioning: localization, motion control, line guidance
- Load handling: load detection, load positioning, identification and tracking
- Environmental perception and safety: collision avoidance, personnel safety, safe control

Your benefit

- Mobile platforms (AGVs/AGCs) enable flexible production and logistics, e.g., to realize an efficient small-batch-size production
- One-stop shop: SICK is a holistic sensor solution provider for navigation and positioning, load handling and safety

Mobile platforms



Industrial trucks

More efficient and safer operation of industrial trucks in production environments



More efficient and safer operation of industrial trucks in production environments

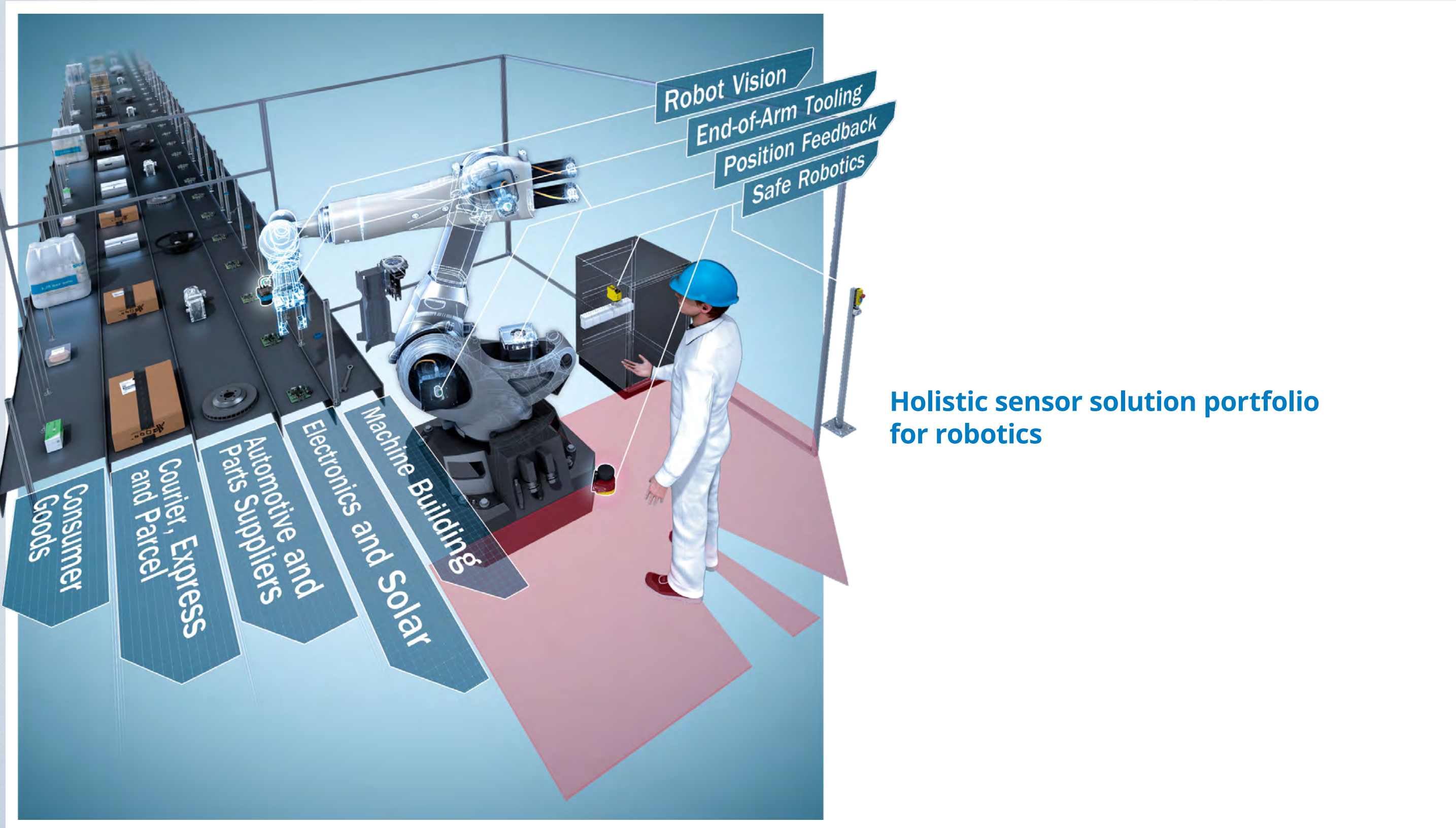
Our solution

- Driver assistance systems
- Automatic access control
- Identification of transported goods
- Localization of trucks

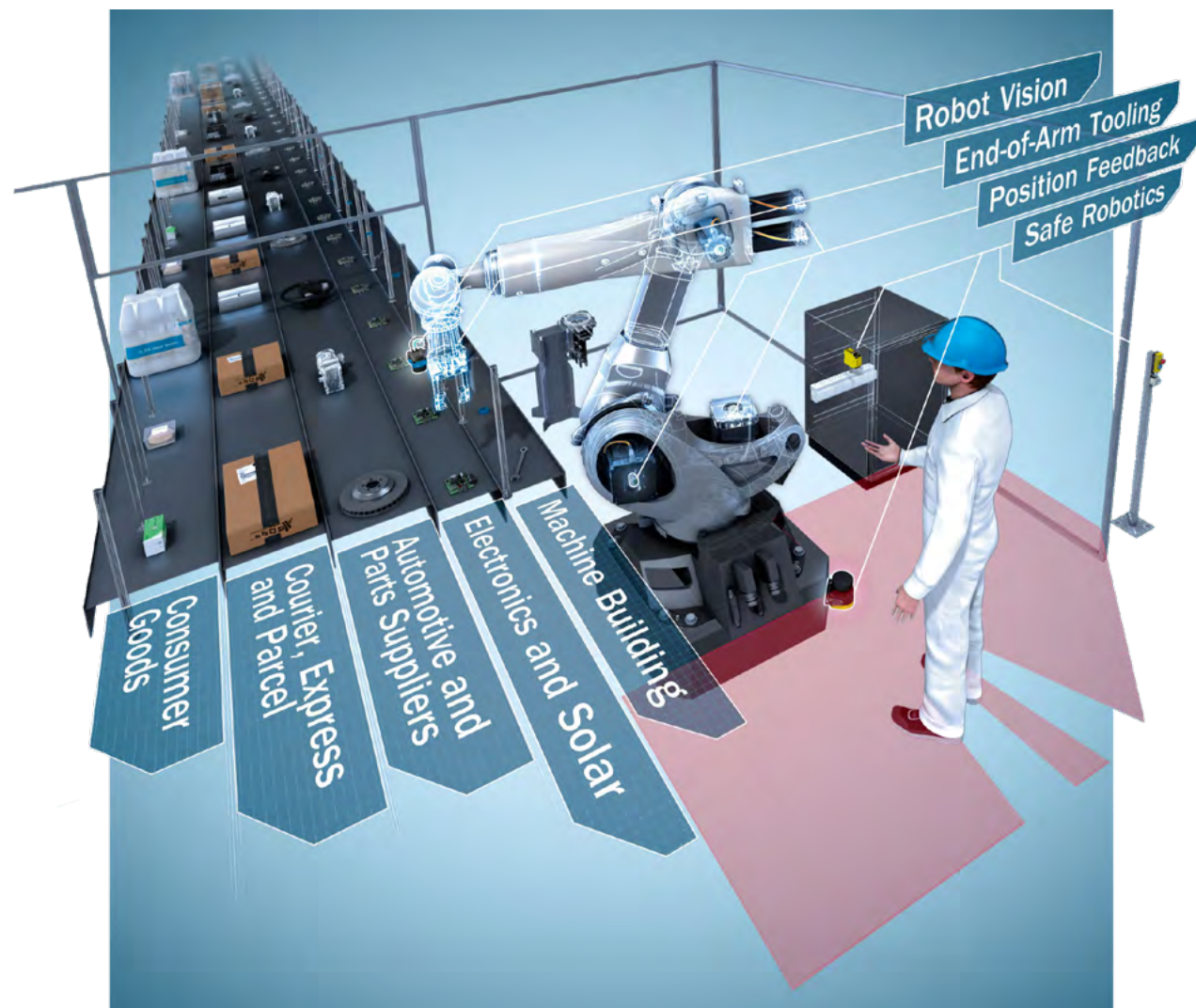
Your benefit

- One-stop shop: SICK is a holistic sensor solution provider for all tasks on industrial truck-based material transport
- Free choice between diverse technologies to fit your application

Industrial trucks



Robotics



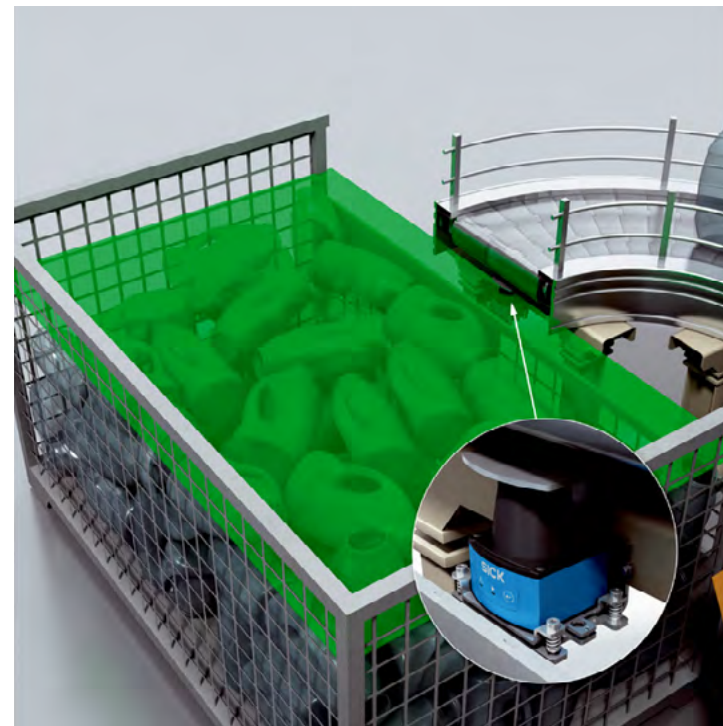
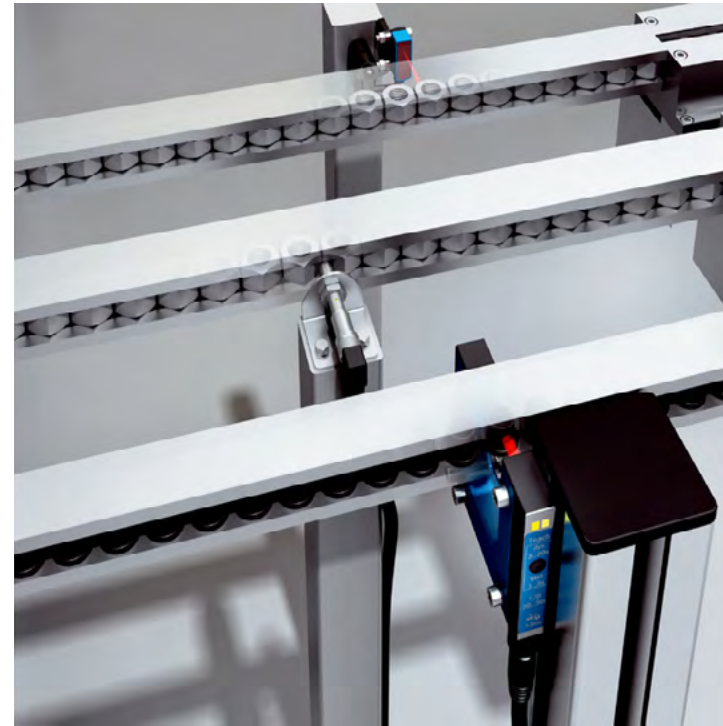
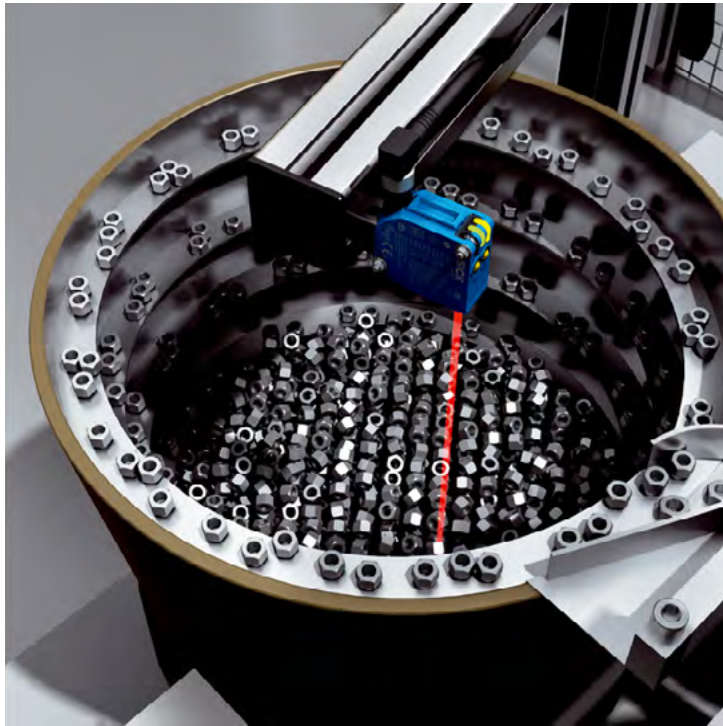
Holistic sensor solution portfolio for robotics

Our solution

- Robot Vision: 2D/3D robot guidance
- End-of-Arm Tooling: gripper monitoring solutions
- Position Feedback: Smart Motor Sensors
- Safe Robotics: robot-specific safety packages

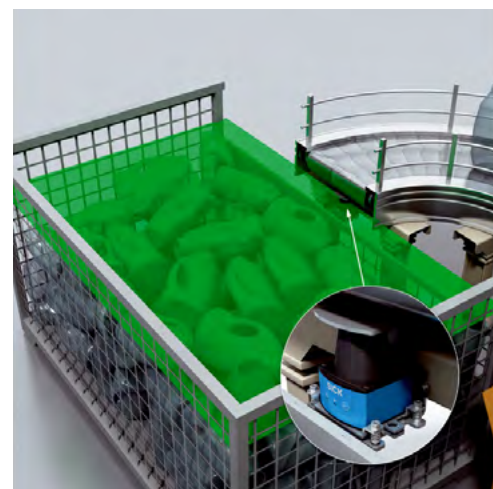
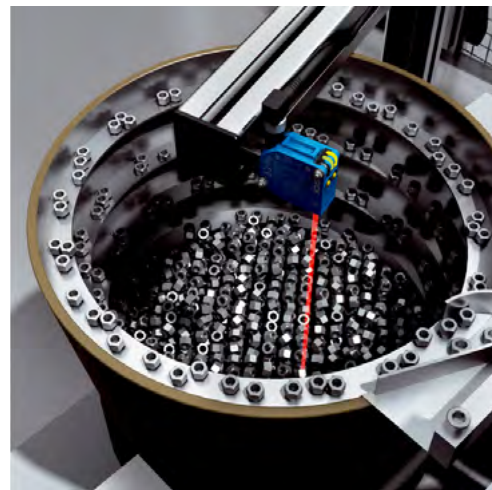
Your benefit

- Robots enable a flexible and efficient production
- One-stop shop: SICK is a holistic sensor solution provider for Robot Vision, End-of-Arm Tooling, Position Feedback, and Safe Robotics



Increased flexibility in automated buffer storage – bowl feeders, rotary magazines, and bins

Buffer storage



Increased flexibility in automated buffer storage – bowl feeders, rotary magazines, and bins

Our solution for

- Level detection
- Jam control
- Material orientation control

Your benefit

- One-stop shop: SICK is a holistic sensor solution provider for all tasks in buffer storage
- Free choice between diverse technologies to fit your application

Buffer storage



Higher efficiency and reliability in picking areas

Picking



Higher efficiency and reliability in picking areas

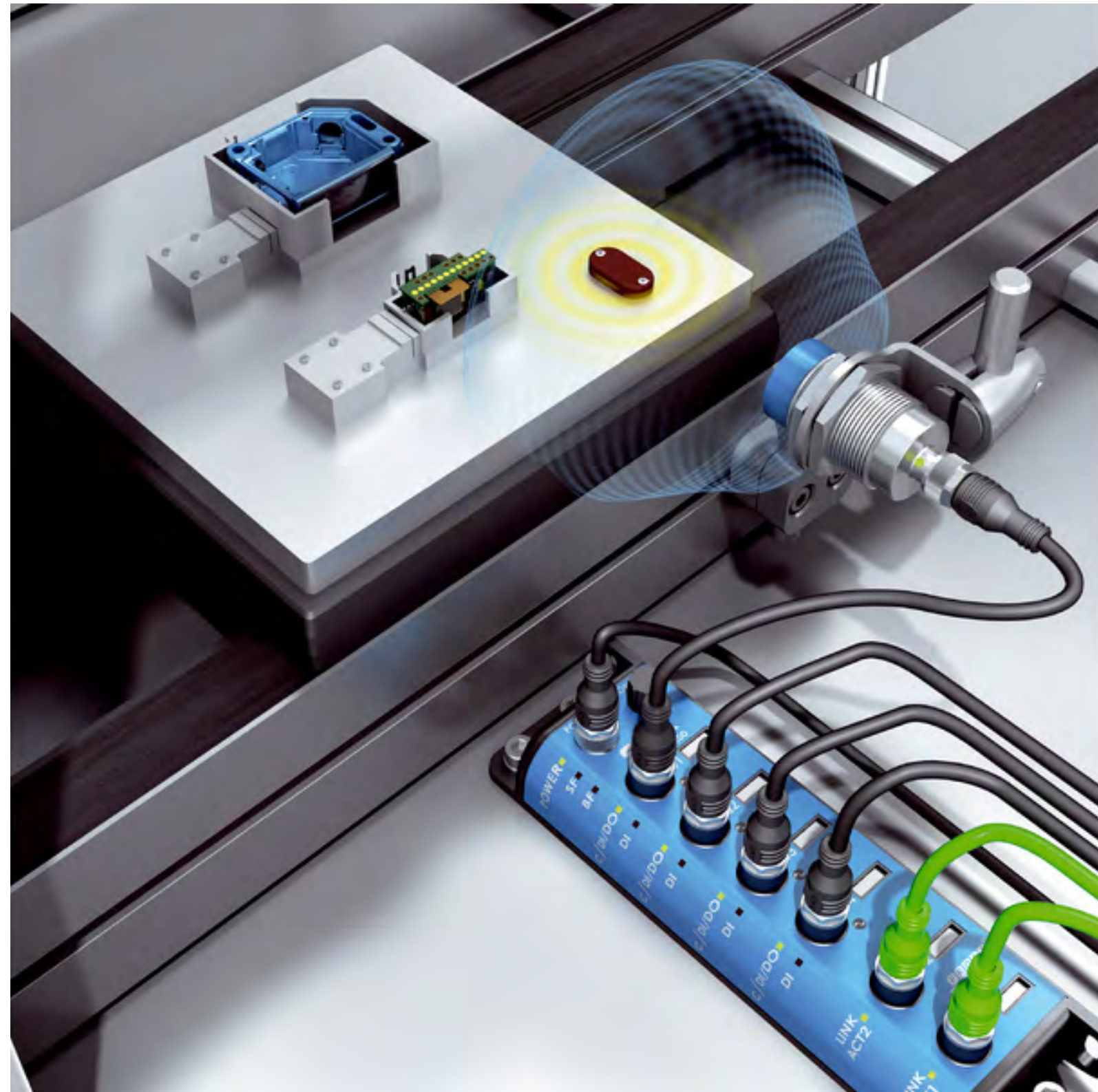
Our solution

- Mobile identification of material with handheld scanners
- Completeness check of components in open space picking areas

Your benefit

- One-stop shop: SICK is a holistic sensor solution provider for all tasks in picking areas
- Free choice between diverse technologies to fit your application

Picking



Connectivity tasks solved easily with SICK integration products

Connectivity



Connectivity tasks solved easily with SICK integration products

Our solution

- SIG200: IO-Link Master integrates sensor data to the PLC system and beyond
- Field level data made available for IT level by IIoT gateway technology
- The Sensor Integration Machine is opening up new possibilities for application solutions by merging, evaluating, archiving, and transmitting data from SICK sensors and cameras

Your benefit

- The IO-Link Master technology enables seamless integration and data transparency from the sensor to the PLC systems
- Economical entry into IO-Link technology
- Intuitive parameterization and setup with access to all parameters of IO-Link devices thanks to the simple download of IODD files

Connectivity



SICK middleware solutions for easy data access

Middleware



SICK middleware solutions for easy data access

Our solution

- FieldEcho®: web-based graphical user interface for parameterization and monitoring of all IO-Link devices
- The Hermes SMEMA Connect SensorApp offers the option of retrofitting existing machines with SMEMA interface to the Hermes Standard in PCB placement lines

Your benefit

- Automated detection of connected IO-Link devices
- Simple use of OPC UA server of the PLC or the TCP/IP to connect to FieldEcho®
- Access to IO-Link Device data from the system visualization or from any Internet browser

Middleware



Make more of your sensor data with Analytics Solutions



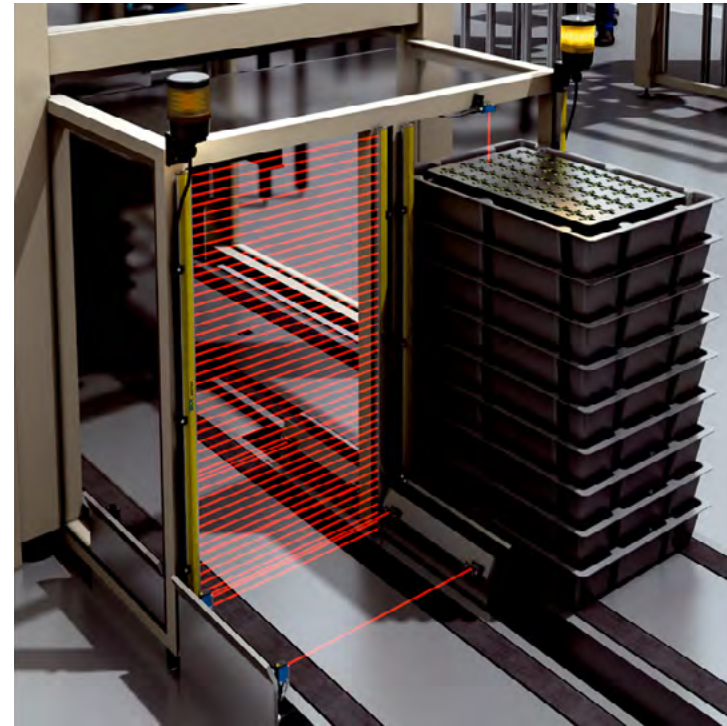
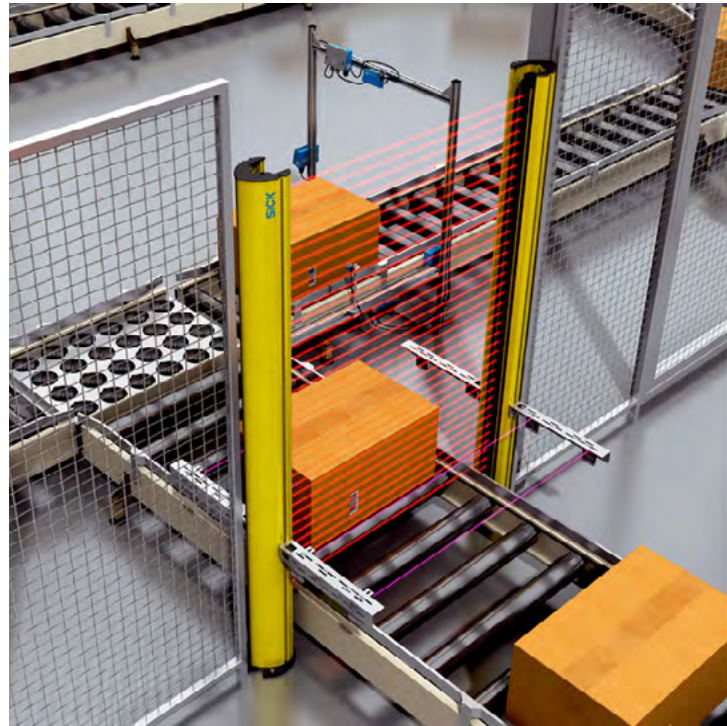
Make more of your sensor data with Analytics Solutions

Our solution

- Asset Analytics for full transparency of the material flow
- Safety Machine Analytics for real-time detection and analysis of safety systems in machines and systems
- Tire Analytics for real-time monitoring of automated identification systems in the tire industry

Your benefit

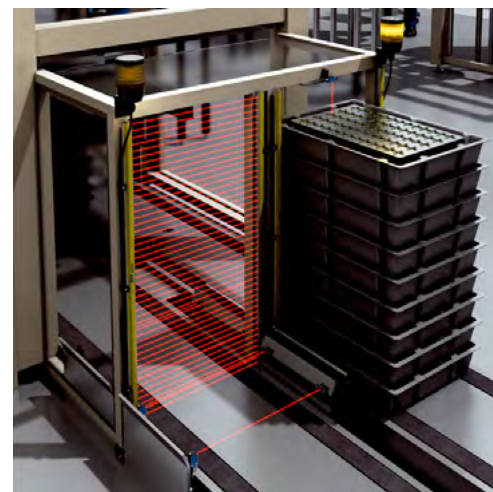
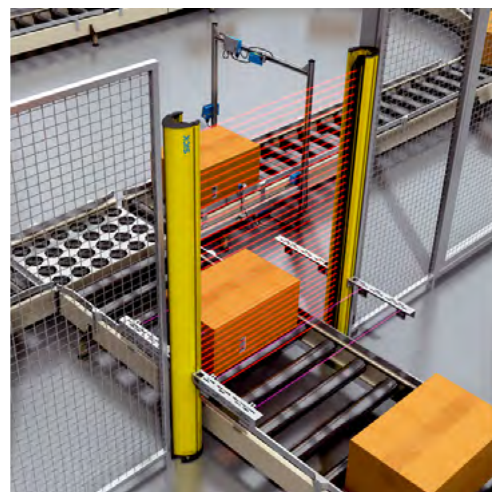
- Analytics Solutions provide full transparency enhanced with valuable information on the system status and performance



**Safe and secure automated storage
by shuttle systems, AS/RS, or vertical
storage**



Automated storage



Safe and secure automated storage by shuttle systems, AS/RS, or vertical storage

Our solution

- Access control on conveyors with person/material distinction
- Access control for automated transport with person/material distinction
- Operator identification

Your benefit

- One-stop shop: SICK is a holistic sensor solution provider for all tasks in automated storage
- Free choice between diverse technologies to fit your application

Automated storage



SICK Smart shelf solutions: Full transparency about stored materials and automation of replenishment

Smart shelf



SICK Smart shelf solutions: Full transparency about stored materials and automation of replenishment

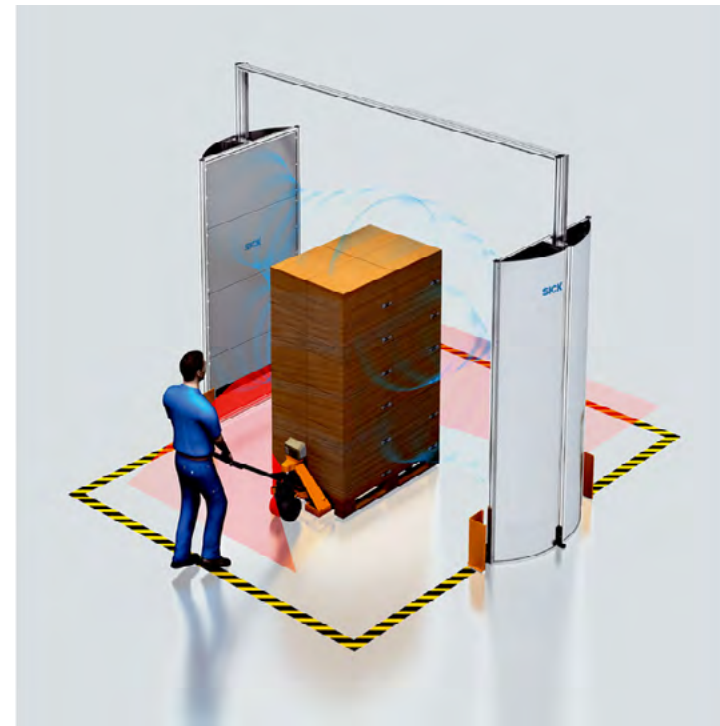
Our solution

SICK Smart shelf solutions consist of scalable identification solutions, sensors, and displays, which enable to:

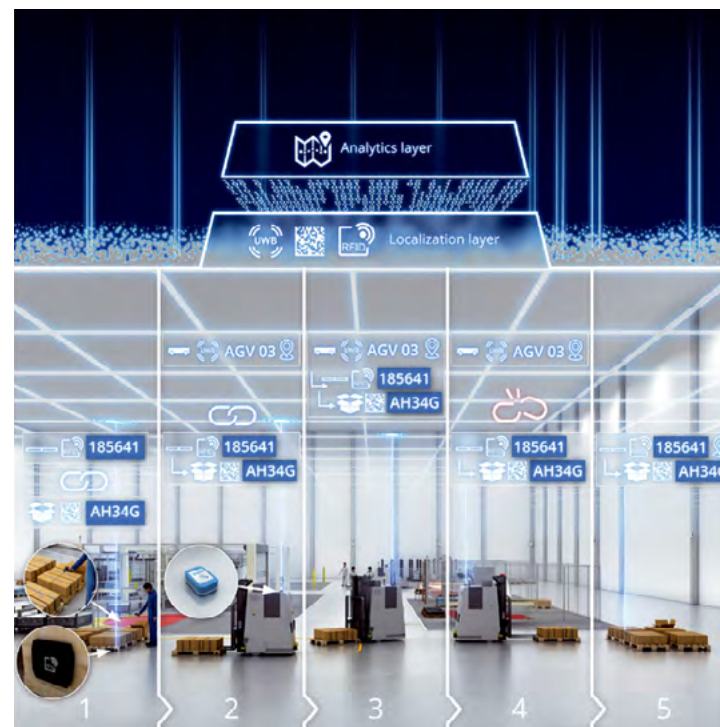
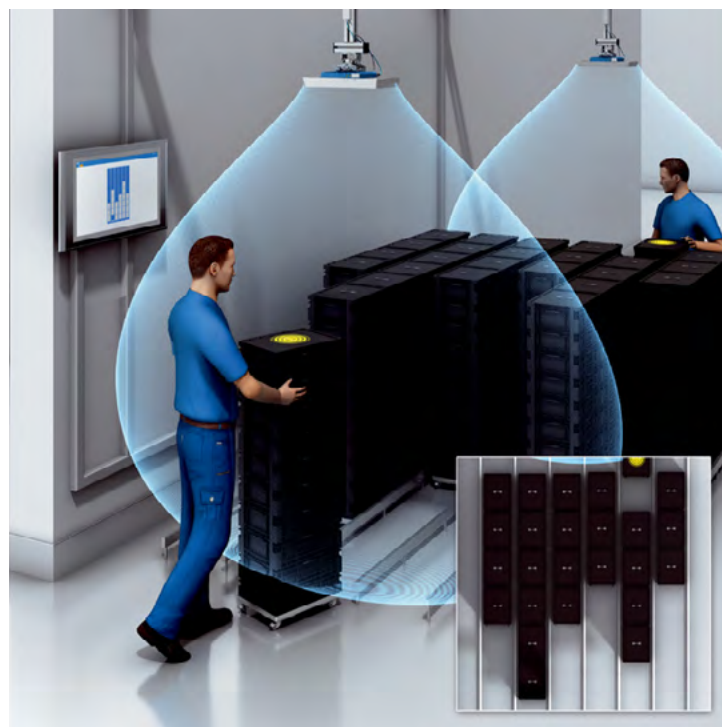
- Monitor flexibly stored material
- Automatically start replenishment processes (eKanban)
- Guide and control manual picking and placing tasks
- Remotely monitor local material inventory

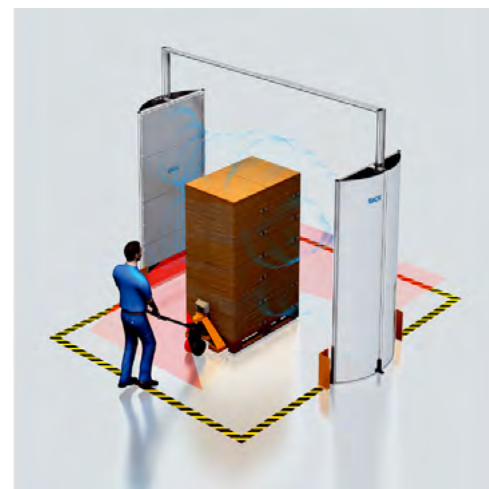
Your benefit

- Full transparency about stored material which reduces efforts, e.g., searching for material
- Increased efficiency by, e.g., automatic start of replenishment processes



Higher transparency and efficiency
in open space storage areas





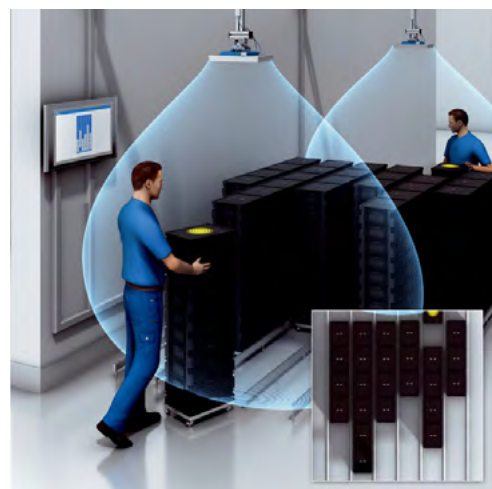
Higher transparency and efficiency in open space storage areas

Our solution

- Mobile material identification
- Automatic bin identification
- Open space localization

Your benefit

- One-stop shop: SICK is a holistic sensor solution provider for all tasks in open space storage
- Free choice between diverse technologies to fit your application



SAFETY



**MODERNIZATION
& RETROFIT**



**SAFETY &
PRODUCTIVITY**



**FULFILLMENT OF
SAFETY STANDARDS**



**SMART SERVICES
& TOOLS**

Modernization and retrofit



Modernization and retrofit: Turnkey safety solutions – hand-in-hand from planning to acceptance



Modernization and retrofit: Turnkey safety solutions – hand-in-hand from planning to acceptance

Our solution

- Joint clarification of project by doing a risk assessment or even plant walk-through, leading to a tailored safety concept by determining the appropriate performance level (PL)
- Designing of the safety-related parts of the control system including all necessary safety components and, if needed, the creation of safe control software and preparation of digitized documents
- Installation and commissioning tasks include the installation of physical guards, the configuration of safety-related components (sensors), and the designed safety-related application software
- Verifying and validating of components, function tests, inspection before initial operation

Your benefit

- Make safety calculable with only one source - for safety analysis, project definition and calculation, installation and commissioning, certified approval with test seal, and proving legal demands by documentation

Combining safety and productivity:

Presence Sensing Device Initiation (PSDI) in presses

Safe Robotics:

Easy-to-integrate solutions for human-robot interaction

Safe mobile platforms (AGVs/AGCs):

optimized autonomous material transport



Combining safety and productivity: Presence Sensing Device Initiation (PSDI) in presses

- Thanks to the PSDI function the press cycle in manual insertion presses is controlled by using a safety light curtain
- Two benefits: providing workers with ergonomic, safe workstations and ensuring higher machine utilization
- Piece of mind: SICK also offers complete retrofit services



Safe Robotics: Easy-to-integrate solutions for human-robot interaction

- To achieve a significant boost in productivity by using robots, smart safety solutions are essential to ensure successful human-robot interaction
- The close collaborative relationship with many robot manufacturers ensures custom-fit, cost-efficient safety solutions for the customer's plant
- Benefits: SICK's global experience with a broad range of robot applications and innovative, cost-efficient safety systems for customers' applications



Safe mobile platforms (AGVs/AGCs): Optimized autonomous material transport

- Today's production and logistics environments are characterized by mobile platforms, meaning more flexibility and efficiency are required
- With SICK's modular, scalable safety solutions smooth processes are ensured – both for indoor and outdoor applications
- SICK offers a wide range of solutions: from intelligent sensors for collision avoidance to complete safety solutions with integrated localization

Safety inspections:

Ensuring the safety of machines and systems related to legal obligations

Stop time measurement:

Reducing risks by inspecting and determining the minimum distance

Accident investigation:

Identification of the cause and recommendation for safety improvements



Safety inspections: Ensuring the safety of machines and systems related to legal obligations

- According to your needs: initial, periodic, or holistic inspection
- Inspection report as evidence of the fulfillment of legal obligations
- High test quality in accordance with IEC 17020 by independent bodies and sustainable global competence management



Stop time measurement: Reducing risks by inspecting and determining the minimum distance

- Calculation of the required safety distance between the hazardous point and the non-physical guard according to EN ISO 13855
- Using calibrated measuring instruments to generate a report with measurement results for the machine documentation
- High testing quality through certification and periodic inspections in accordance with IEC 17020 is carried out by independent bodies and with on-going competency management



Accident investigation: Identification of the cause and recommendation for safety improvements

- Incident or accident is checked on the machine by independent specialists
- Ensuring that the causes of the accident or incident have been fully investigated and measures have been implemented to prevent a reoccurrence
- Support if an investigation is carried out by an insurance company or regulatory body



SICK Installed Base Manager:

Digital detection of analog assets



Software for Integration:

Safety Laser Scanner field set and data visualization



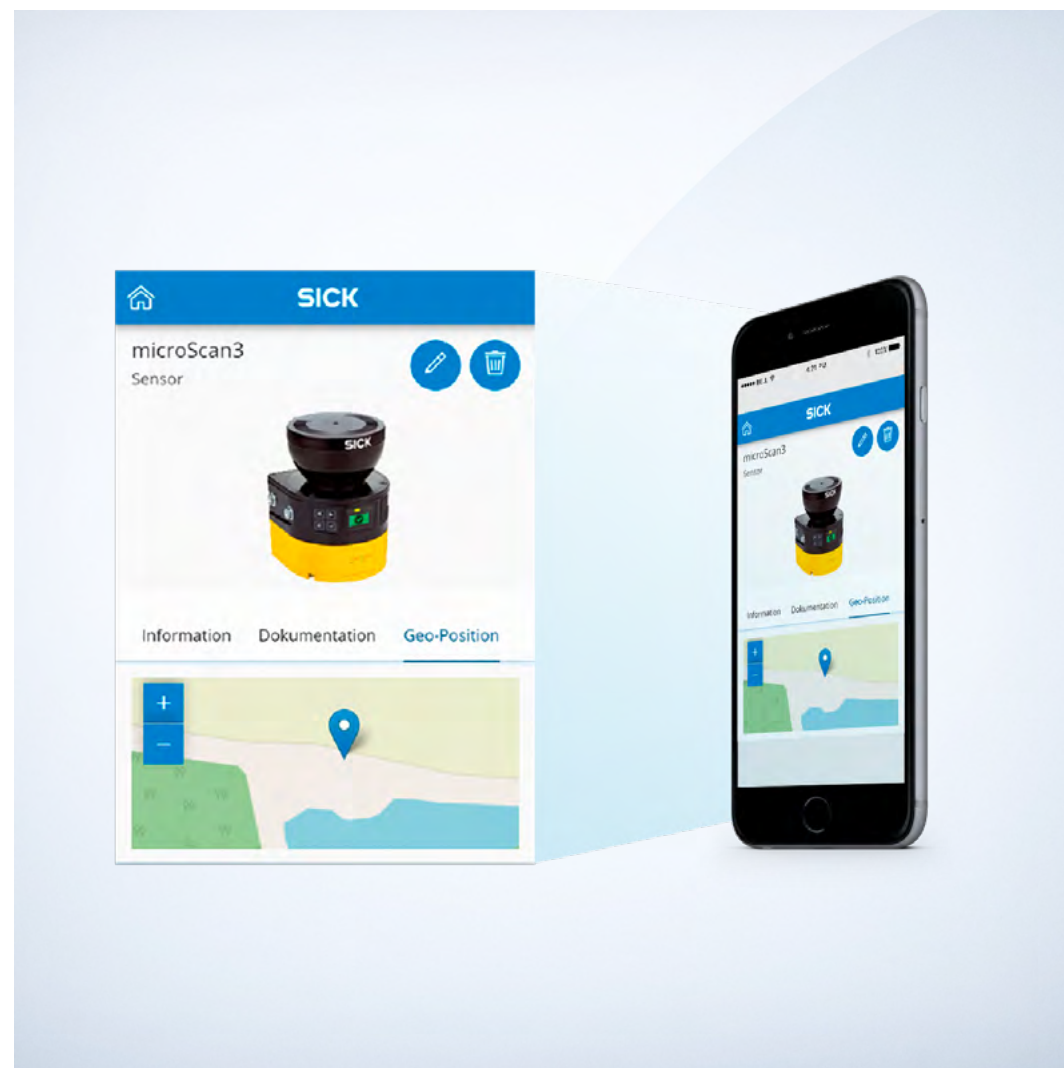
Safety Machine Analytics:

Real time detection and analysis of safety systems

Smart services & tools

SICK Installed Base Manager: Digital detection of analog assets

- The SICK Installed Base Manager makes it easy for users to record all devices used in their plants (safe and non-safe devices)
- Users can independently use and maintain this data digitally
- In addition, SICK displays relevant information such as operating instructions, safety inspection documents, or product lifecycle status matching to the products in use
- Data of the Installed Base Manager can be used on the platform **SICK AssetHub** to generate digital twins of all devices or systems within your operation



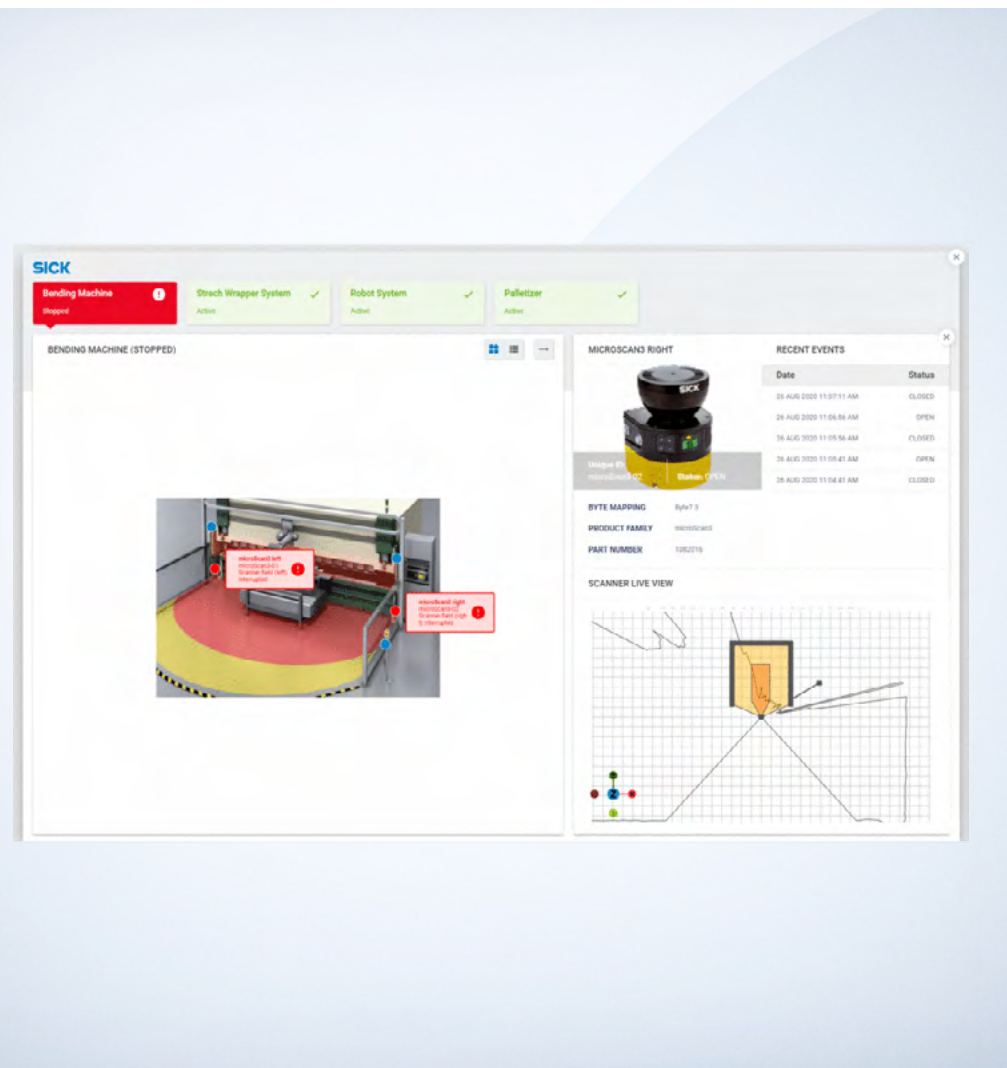


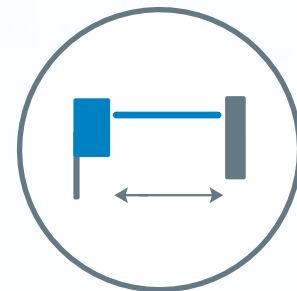
Software for Integration: Safety Laser Scanner field set and data visualization

- Easy and complete access to all safety laser scanner data and visualization of field sets – even of remotely located devices
- Increased availability of your plant thanks to fast root cause analysis and identification of fault cases

Safety Machine Analytics: Real time detection and analysis of safety systems

- Transparency for safety systems on machines by real-time reading and evaluating all system status data and visualization in a dashboard
- Safety-related events are recorded in a database and KPIs are prepared graphically
- Systematic errors and optimization potentials can be identified by the analysis of this data, which reduces machine downtime and optimizes processes





1D DISPLACEMENT
& DISTANCE



2D VISION



3D VISION



DEEP LEARNING

1D displacement & distance



**1D distance and displacement sensors:
Easy quality control from smallest to
very large distances**





1D distance and displacement sensors: Easy quality control from smallest to very large distances

Our solution

- Different technologies meeting your application demands: laser triangulation, optical time-of-flight, ultrasonic time-of-flight
- Reliable in challenging conditions (ambient light, temperature, low contrast)
- Powerful sensors with very small footprint
- Precise with up to $<0,1\text{-}\mu\text{m}$ repeatability and $1\text{-}\mu\text{m}$ linearity (OD5000)

Your benefit

- Always correctly connected – quick, simple, efficient with IO-Link, Ethernet, fieldbuses, and serial
- Reliable and versatile – from the smallest to very large distances in indoor and outdoor applications



**InspectorP6xx and Quality Inspection
SensorApp: Easy solution for quality
inspection tasks with 2D vision**



InspectorP6xx and Quality Inspection SensorApp: Easy solution for quality inspection tasks with 2D vision

Our solution

- Quality assurance applications are solved by simply configuring a selection of tools for image analysis using a graphical user interface in a web browser
- The user can easily add standard and custom SICK Nova tools
- Scalable InspectorP6xx hardware: fitted to your needs for resolution, field of view, and size

Your benefit

- Reliable detection of faulty parts which enables good part delivery
- SensorApp provides a wide toolset to efficiently solve quality inspection tasks and the solution can be quickly customized if needed by complementing the toolset with a standard or custom tool



3D vision solutions: Scalable solution for your needs – high accuracy and speed, pre-calibrated, easily configurable, and cost-efficient

3D vision



3D vision solutions: Scalable solution for your needs – high accuracy and speed, pre-calibrated, easily configurable, and cost-efficient

Our solution

- From easily configurable through pre-calibrated up to programmable products
- Ranger3: superior 3D performance (high accuracy and measurement speeds) with CMOS sensor from SICK
- Ruler3000: pre-calibrated, high-performance camera based on Ranger3
- TriSpector1000: easy commissioning and operation thanks to an intuitive user interface
- Visionary-T Mini: simplified 3D time-of-flight with excellent data quality

Your benefit

- Matching solution for your needs: from cost-efficient, configurable entry-level to high accuracy and measuring speed solutions



Deep Learning: Complex quality control tasks solved reliably without programming

Deep learning



Deep Learning: Complex quality control tasks solved reliably without programming

Our solution

- The Intelligent Inspection SensorApp with your trained neural network ensures an intuitive user interface and runs directly on the InspectorP6xx
- Via the web-based SICK service dStudio collected data is trained and evaluated with little effort
- No additional hardware and software is required thanks to the web-based training with dStudio
- Scalable InspectorP6xx hardware: Fitted to your needs for resolution, field of view and size

Your benefit

- Time and resource efficient, since complex quality or process control tasks can be solved easily and fast
- Easy-to-use user interface that makes it quick to learn without the need for a vision expert
- Low cost of total ownership as deep learning network runs directly on the camera without additional hardware

Deep learning