



Good Receipt Concept

Automated Storage

System Control & Traceability

smartProLog

The professional logistics solution



Winner of the
productronica
innovation award 2023

WE ARE YOUR PARTNER FOR SYSTEMS & TOTAL LINE SOLUTIONS

Automation

Dispensing
&
Coating

Storage
&
Logistics

SMT
&
THT

Soldering
Technology

Test
&
Inspection

Soldering
Materials

PCB

***smart*Tec** 
smart technology products and solutions

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smartInScan



Picture of the goods receipt table
by CompControl

- Various levels of automation: from semi-automatic table to high-volume cell
- AI autofocus camera & height sensor
- Automatic scanning of barcode & plain text
- Measurement of reel thickness
- ERP integration & stock management
- Complete documentation & analysis
- Flexible in placement and integration

Intelligent goods receipt solutions for every requirement

smartInScan is the modular solution for automated component reel registration during goods receipt – scalable, intelligent, and fully adaptable to your processes. Whether as a compact table-top receiving station (from our partner CompControl), with conveyor feed to the smartSCab storage cabinet, or as a fully integrated high-volume cell with smartSLoad – smartTec offers maximum flexibility.

In the **table-top version**, the reel is placed on the station and positioned beneath the camera. The high-resolution AI autofocus camera with a wide field of view reliably captures even the smallest barcodes and plain text. This is complemented by a height sensor that precisely measures the reel thickness. All information is automatically documented and transferred directly to the ERP system.

In the **fully automated smartInScan cell**, the entire goods receipt process is carried out fully automatically: reels are loaded via the smartSLoad, then scanned, optionally counted using X-ray technology, marked with a unique ID, recorded in the ERP system, and finally loaded onto Pike trolleys in an optimised position. This cell is fully integrated into the smartProLog environment – from goods receipt and storage in the smartSCab to connection with dry storage cabinets and production.



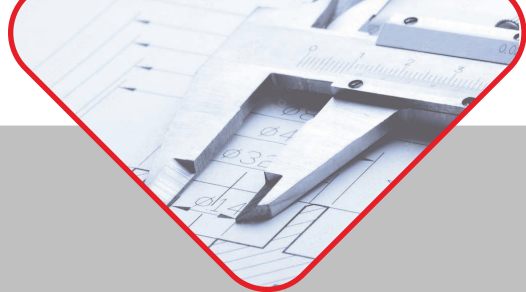
Large field of view



Height sensor and
AI software



Automation
made easy



Specification smartInScan

General data

smartInScan Cell

Dimensions	
Length	71.6 cm
Width	56.5 cm
Height	194.0 cm

Camera - exo342MGE (GigE Vision)

Sensor resolution	6464 x 4852 pixels, monochrome
Sensor size	22.36 mm x 16.77 mm active area
	27.9 mm (APS-C) CMOS
Pixel size	3.45 μm x 3.45 μm
Frame rate	max. 3.8 fps (at full resolution)
Color depth	8 bit, 12 bit
Power supply	10 – 25 V DC (power supply not included)
Object connection	M42
Dimensions	46.2 mm x 58 mm x 58 mm (LxWxH, excl. tube and connector)
Compatibility	GeniCam compatible
Further informationen	www.svs-vistek.com

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smartSLoad

- Simultaneous loading and unloading of up to 120 reels
- Usable as both inload and unload station
- Flexible handling – pike trolley detachable and tiltable vertically with foot grid
- Separate opening for quick single reel addition
- Screen and barcode scanner for operation and tracking
- Vacuum gripper for gentle reel transfer

smartSLoad – efficient reel logistics with system

The smartSLoad is the ideal solution for structured, safe, and efficient handling of reel material. In combination with the specially developed pike trolleys, up to 120 reels can be loaded or unloaded simultaneously – as inload or unload, depending on your needs.

The pike trolleys are manually loaded and then pushed into the system either by hand or automatically via an AGV system. Thanks to an integrated guide, they self-centre automatically, allowing for easy and precise insertion. For maximum security, the doors behind which the pike trolleys are located are automatically locked after insertion.

A special highlight is the separate opening in the middle of the system. Here, single reels can be manually placed directly onto the conveyor – ideal for spontaneous storage or when only a few reels need to be moved.

Reels are transferred using a vacuum gripper, which ensures gentle and safe handling. The integrated software control with touchscreen and barcode scanner enables intuitive operation as well as full traceability of stock movements.



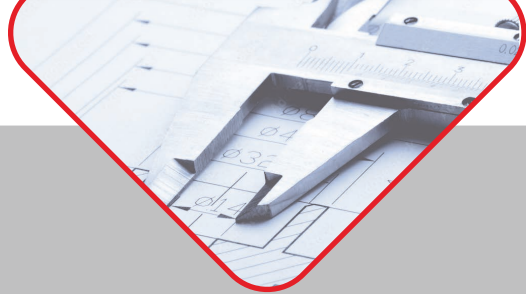
120 Rollen
Be- und Entladen



Flexible
Handhabung



Maximale
Sicherheit



Specification

smartSLoad

General data

Dimensions	
Length	70 cm
Width	190 cm
Height	194 cm

Pike trolleys – up to 60 reels with 88 mm components

Dimensions	
Length	59.0 cm
Width	48.5 cm
Height	120.0 cm
AGV-compatible	Yes
locking mechanism	Yes
Tiltable	Yes (ergonomic version)

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smartCCount

- Maximum flexibility – from manual counting to fully automated inline integration
- Over 99.9% accuracy achieved through X-ray technology and Nordson software
- Monitoring and control remotely via a remote control station
- Speed – high throughput rates and fast counting, including prioritisation

smartCCount – precise component counting for efficient inventory control

The smartCCount is an innovative component counting module and part of the comprehensive smartProLog logistics system. Equipped with advanced X-ray technology and the award-winning Nordson software, smartCCount offers over 99.9% accurate counting, even for small and complex components. Integrated into the “cabinet,” it ensures continuous, error-free inventory control and enables permanent stocktaking.

The system offers maximum flexibility, ranging from manual counting to fully automated inline integration. This ensures continuous and precise inventory management, keeping stock levels consistently up to date and error-free. A separate inventory count is therefore no longer necessary.

The seamless connection to the smartProLog system optimises the entire logistics process, minimises downtime, and enhances production efficiency. Full integration into smartProLog also guarantees complete traceability. In this way, smartCCount contributes to optimised inventory management, reduced sources of error, and improved productivity.



99.9%
counting accuracy



Seamless integration
and automation



Remote monitoring
and control

Specification

smartCCount

Performance

Maximum reel diameter	43 cm / 17"
Maximum reel height	10 cm / 4"
Processing time:	Single reel ca. 10 s (any size or quantity) Quad count < 15 Sekunden (4 x 7" reels)
Accuracy	> 99,9 %
Minimum component size	01005

System

Dimensions (W x D x H)	890 mm x 890 mm x 2250 mm
Weight	650 kg
Power	~ 110...230 V, 16 A, 50/60 Hz
Maximum power consumption	800 W
Grounding	0.75 mm ² (via main power supply)
Noise emission	< 60 dB
Operating temperature/humidity	15 °C to 28 °C / 30 -70% non condensing
ESD	DIN EN 61340-5-1

Software

Operating system	Microsoft Windows 10 Pro
Application software	Nordson ASSURE.Shell

Flat Panel Detector

Pixel area / Active area	42 x 42 cm (17" x 17")
Power consumption	42 W
Resolution	139 µm (3.6 lp / mm)

X-Ray Module

Power	240 W
Vantage	60 kV
Current	4 mA

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smartSCab

- Storage of reels, trays, bars, snippets, PCBs, and more
- Modular construction - expandable at any time
- Made for 24/7
- Small footprint - high throughput
- Large storage capacity
- Seamless integration into existing structures
- Automatable for the best ROI

smartSCab – the efficient storage system from smartProLog

Maximum efficiency with minimal space requirements – smartSCab is the innovative storage solution for electronics manufacturing, combining flexibility, automation, and transparency. As a central component of the smartProLog platform, smartSCab enables the secure and efficient storage of all relevant components for electronics production.

Modular, scalable and expandable at any time

The modular concept enables a "customised standard" and adapts flexibly to your requirements, thereby ensuring maximum future-proofing.

Automation as needed

Depending on your requirements, the smartSCab can be easily expanded with modular automation cells. This provides high flexibility and guarantees a "tailor-made" professional logistics solution (smartProLog) with the best ROI for every electronics manufacturing operation.



High flexibility



Large capacity,
compact, fast, safe



Modular, automatable,
scalable

Specification smartSCab

General data

Dimensions – several variants

Length	Up to 11.4 m per storage lane – individually customisable
Width	1.64 m per storage lane
Height	3 variants: 3.4 m / 4.2 m / 5 m
Net weight	350 kg per sqm per storage lane (variant with 4.2 m height)
Weight of stored goods	Max. 5 kg per storage compartment
Maintenance	Low-maintenance system, entirely free of pneumatics
Drives	XYZ axis with servo motors
	Patented deliverer (gripper) with proven stepper motors
Speed	Design-dependent – very high pick rates

Configuration

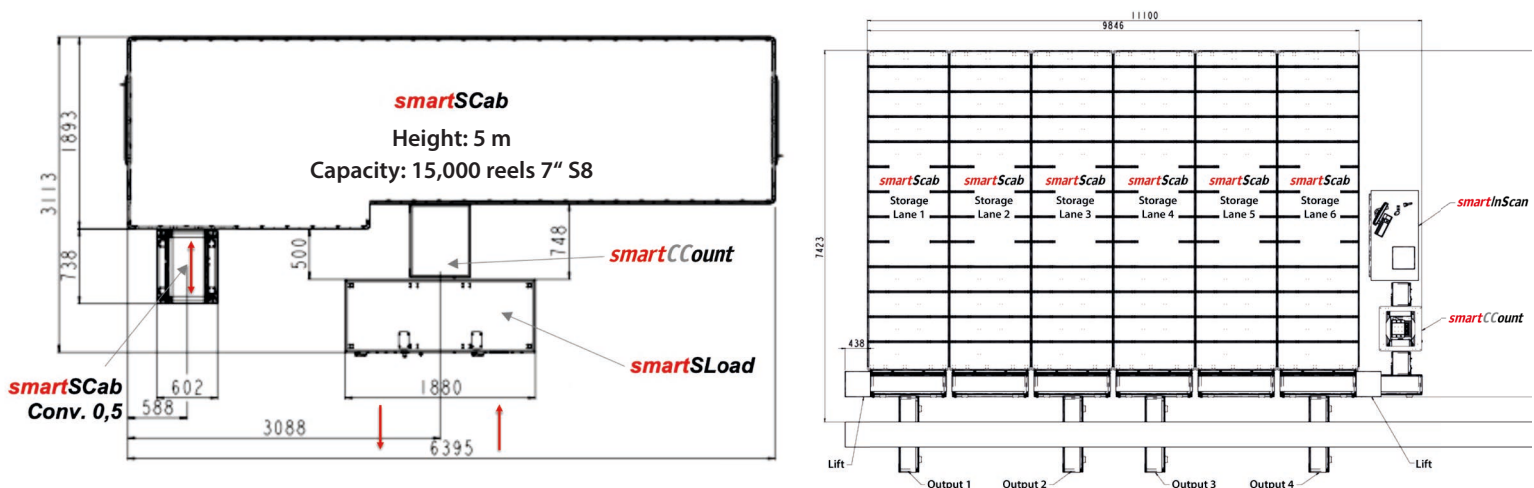
Number of storage locations	Individually selectable
Operating side	Individually selectable

Electrical data

Operating voltage	400 V 50 Hz – 3 phases
Max. power consumption	30 kVA
Pneumatic connection	No pneumatics in the system
Air consumption	No pneumatics in the system

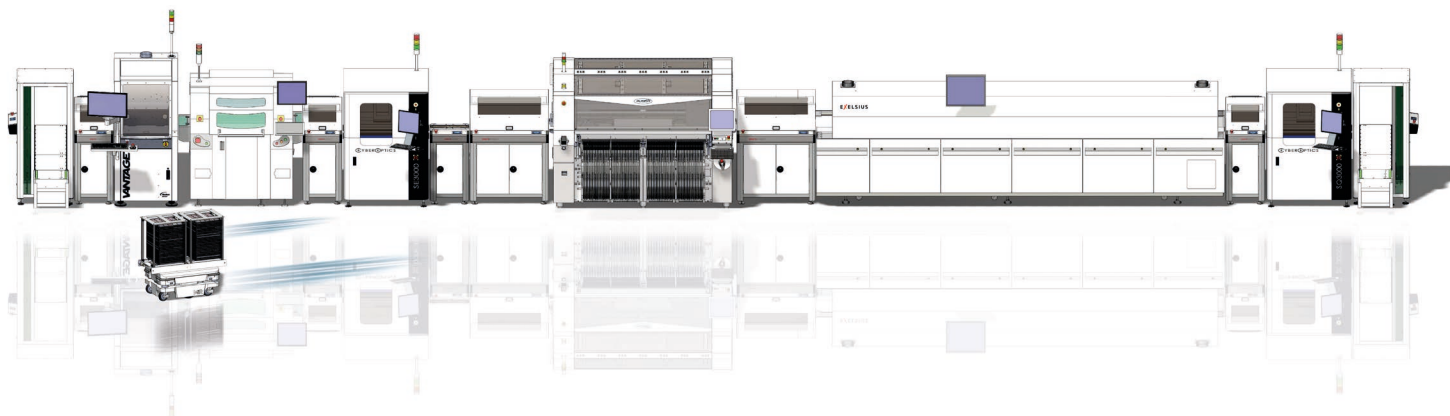
smartSCab – individually planned, flexible in design and perfectly integrable into any environment.

Concept examples:



Do you need more information?

Visit our website or get in touch with us by phone or email.



smartTec GmbH



Senefelder Straße 2
D-63110 Rodgau



+49 6106 6670 0



info@smartTec.de



smartTec Nordic A/S



Rugvænget 19 B
DK-2630 Taastrup



+45 4593 6262



info@smartTec.dk



VE25/1

+20
YEARS

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