

GREEN LIGHT FOR YOUR CARGO

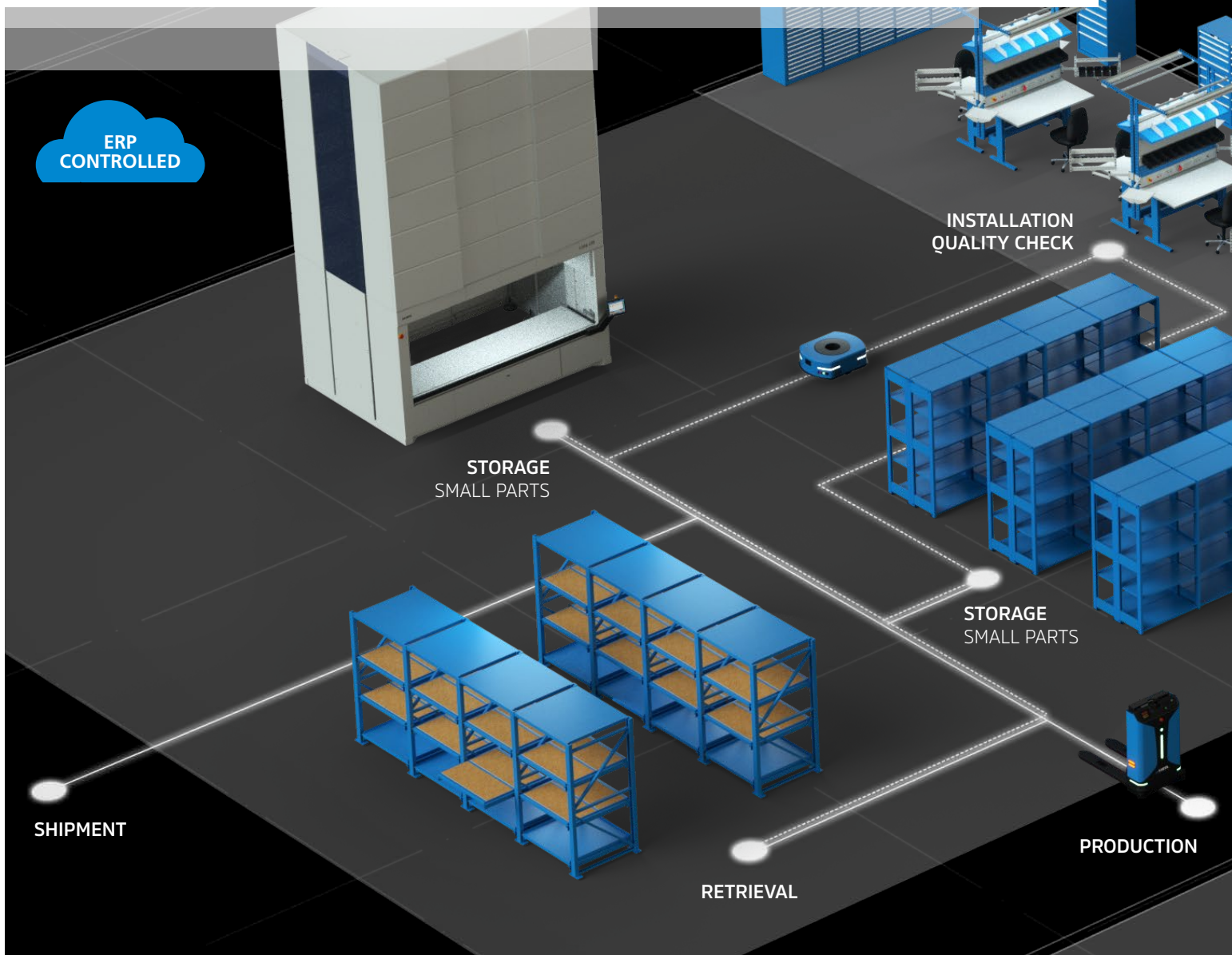
AUTOMATED GUIDED VEHICLE SYSTEMS FROM LISTA



MATERIAL FLOW 4.0

Autonomous driving is a megatrend. Automated guided vehicle systems with automatically controlled vehicles are also increasingly prevalent in intralogistics. The advantages are obvious: automated material flows increase efficiency, reduce the error rate and thereby help to save time and costs.

With LISTA automated guided vehicle systems, you can make the most of these advantages. You receive a fully integrated system solution to automate your internal material flow: safe, flexible and optimally matched to our storage and workspace equipment. Benefit from performance and expertise from a single source. LISTA is the only manufacturer that can offer you a complete package for storage and automated transport of goods.





+ Intelligent system solution

- Central control from the customer's ERP/WMS
- Integration of various vehicles and components
- Optimum synergy with LISTA storage and workspace equipment

+ High flexibility

- Wide range of vehicle types for a wide range of transport goods and applications
- Individual configuration and adjustment options

+ Maximum efficiency

- High payloads
- Compact dimensions
- Exact navigation
- Optimum cost control

+ Outstanding safety features

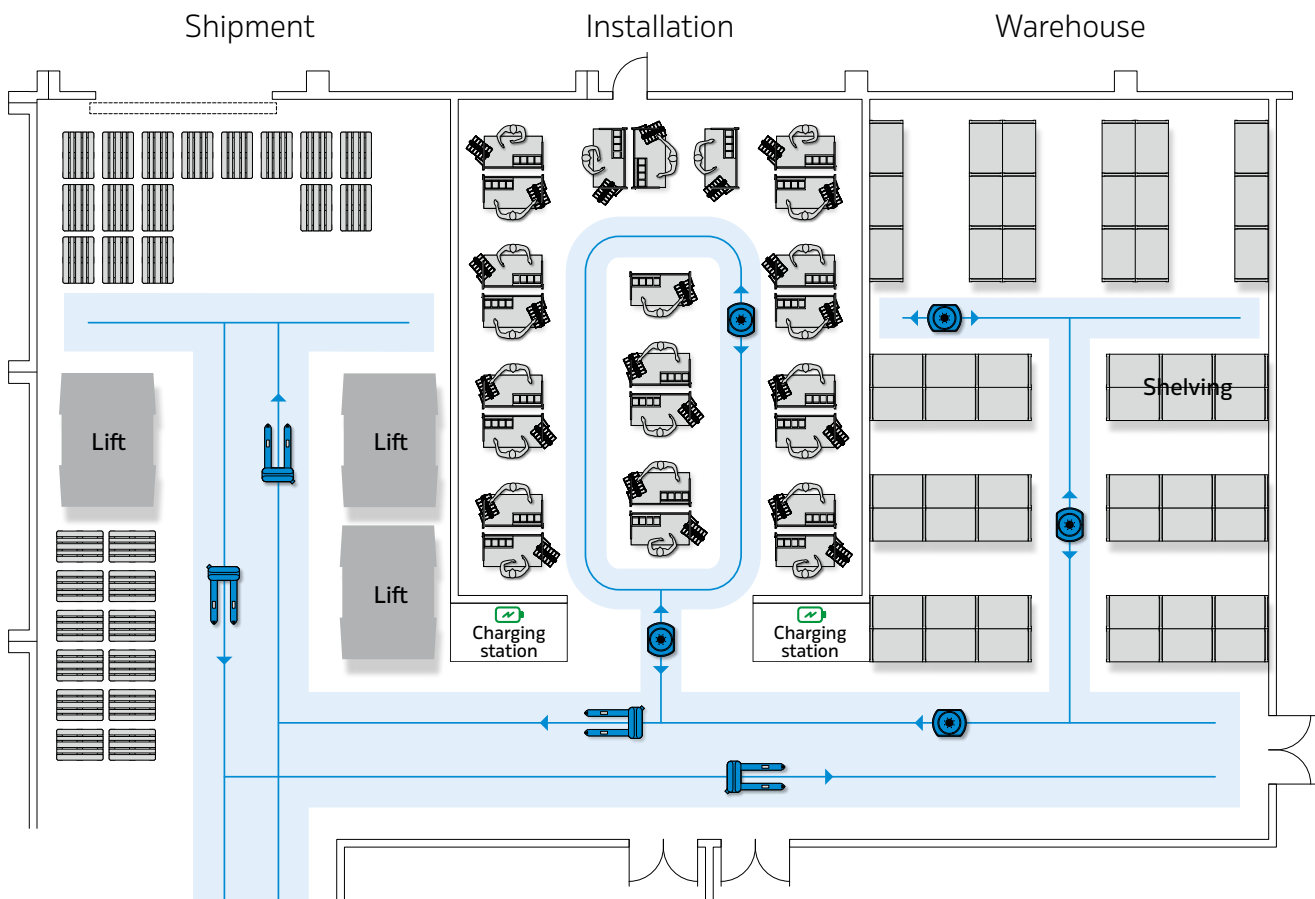
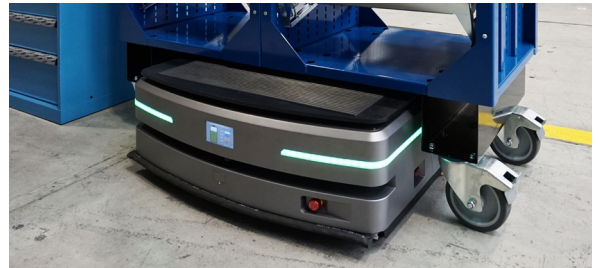
- Effective collision protection by sensors, emergency stop, etc.
- Automatic charging function

LISTA AGVS: THE ALL-IN-ONE SOLUTION FOR YOUR INTRALOGISTICS

The automation of intralogistics makes a valuable contribution here to further process optimisation. For this reason, LISTA offers a range of automated guided vehicle systems (AGVS) that are optimally matched to the different applications.

LISTA AGV solutions move through all areas on freely programmable routes and transport a wide range of types of transport goods quickly, safely and cost-effectively – whether from warehouse to production, from assembly to shipping, whether individual parts, pallets or boxes. Our range includes vehicles of different sizes for automated goods transport and other tasks such as warehouse management or picking. Different vehicles can be combined in one system. Charging stations and other additional equipment are integrated as required.

Automated transport is controlled via a corresponding tool that can be easily integrated into your existing ERP/WMS and brings together a variety of relevant functions from task management to statistics.

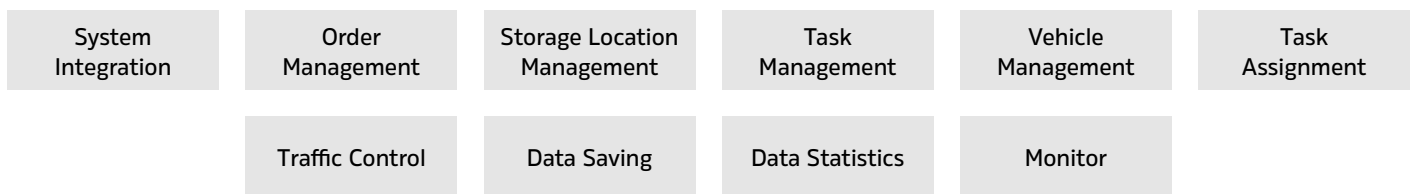


FLEXIBLE CONTROL

You can control your LISTA AGVS flexibly and modularly, either via the integrated GRACE vehicle software via PDA (personal digital assistant, e.g. tablet) or with the higher-level ERP/WMS. The system is modular and can therefore be optimally adapted to your individual requirements. LISTA AGV solutions enable step-by-step functionality from autonomous operation of individual vehicles via tablet PC to complete integration into your existing ERP or warehouse management system. This allows large fleets and complex material flows to be organised safely and efficiently at all times.



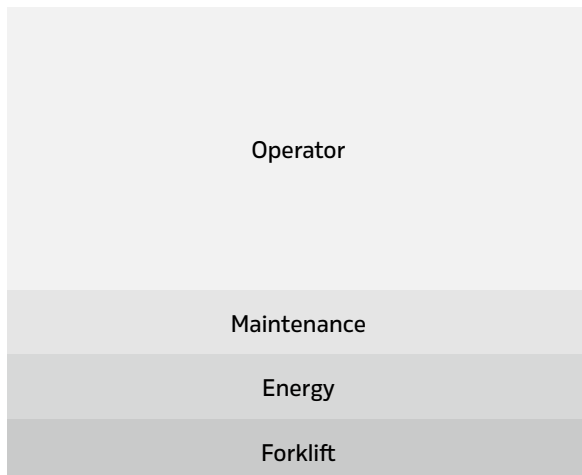
REX (Robot Execution System)



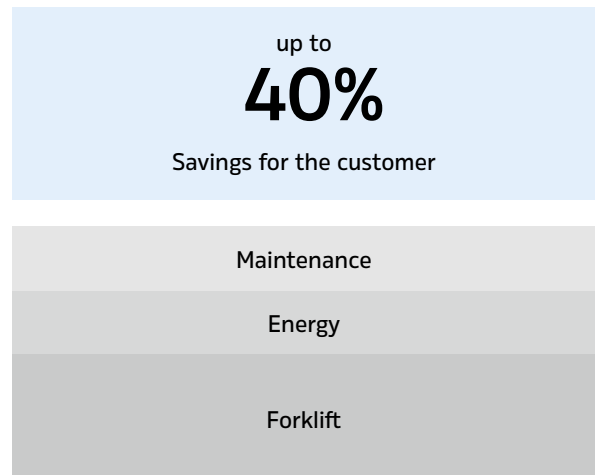
EFFECTIVE COST SAVINGS

In addition to process optimisation, LISTA's automated guided vehicle systems help to significantly reduce costs in the company. Automation enables a direct saving of 40% on average. Added to this are indirect effects, for example due to time savings and a decreasing error rate. LISTA AGVS thereby contribute to greater competitiveness and profitability in the long term.

Cost structure without AGVS



Cost structure with AGVS



LISTA SLIM

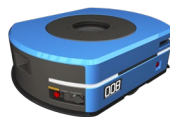
LISTA SLIM provides you with a particularly efficient solution for your intralogistics. The system offers a high loading capacity with low unladen weight. The lifting height can be adjusted up to 3 m depending on the lifting capacity. With 360° collision protection, millimetre-accurate navigation and automatic charging function, the SLIM sets standards in terms of safety and reliability. All important components come from renowned manufacturers. This puts the SLIM well ahead of the competition in terms of quality and cost-effectiveness.



Dimensions	1705 × 882 × 1522 mm (L × W × H)	Speed	1.5 m/s (max)
Pallet type	Two entry points	Lift height	0 mm – 1600 mm (up to 3000 mm)
Pallet size	max. 1200 mm × 1000/800 mm	Aisle width	1600 mm (min)
Capacity	1400 kg		

LISTA FLOW

The FLOW vehicles from LISTA impress as compact transport systems for payloads of up to 1000 kg. It achieves optimum accuracy thanks to its combined navigation with laser/QR. The automatic charging function also increases safety and efficiency. Its technical features and high functionality make the FLOW series one of the leading AGVS in the compact class.



	LISTA FLOW A6	LISTA FLOW A10
Dimensions	900 × 700 × 300 mm (L × W × H)	1100 × 870 × 315 mm (L × W × H)
Capacity	600 kg	1000 kg
Unladen weight	200 kg	300 kg
Speed	1.5 m/s (max)	1.5 m/s (max)
Charging mode	Automatic	Automatic
Position accuracy	± 10 mm	± 10 mm
Lift height	60 mm	60 mm
Security	Infrared sensor / laser	Infrared sensor / laser

LISTA PICKING

LISTA Picking is an intelligent, flexible and efficient vertical picker especially for high-bay warehouses. The system is equipped with storage spaces for five or more boxes and allows up to 250 kg to be transported at a time. Its lifting height can be adjusted up to 4 m to make optimum use of storage capacity. Control and function are configured according to your individual requirements. You receive a tailor-made solution that reduces costs and effectively increases the efficiency of your picking.



Dimensions	1480 × 880 × 3105 mm (L × W × H)	Charging mode	Automatic / User-defined
Capacity	250 kg	Position accuracy	± 10 mm
Number of boxes	5 – 7 pieces	Lift height	295 mm – 4000 mm
Weight per box	30 kg (max)	Security	Infrared sensor
Speed	1.5 m/s (max)		

OTHER AGV SOLUTIONS

LISTA's driverless transport systems are available in all sizes and designs for a wide range of applications in industry, retail or shipping. As always with LISTA, the systems can be flexibly adapted to individual processes and requirements in terms of design and function, thereby enabling the material flow in the company to be organised more efficiently, cost-effectively and competitively.

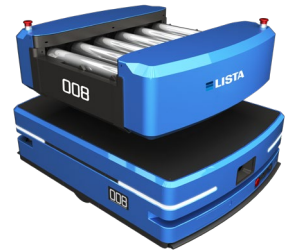
Customer-specific AGV solutions



LISTA Belt
for optimum transport on conveyor belts and more

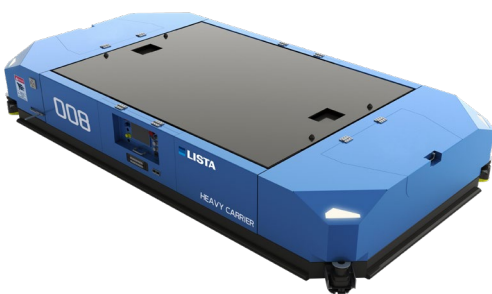


LISTA Order 1.0
for picking several orders at the same time



LISTA Roller
with a roller conveyor structure for easier loading and unloading

Heavy-duty AGV solution



LISTA Heavy Carrier
for transporting large weights from 3 t to 8 t

THE LISTA SERVICE MODEL

LISTA not only allows you to opt for first-class products: our service model also offers you comprehensive services at various service levels. True to the motto "one face to the customer", LISTA Services combines maintenance, spare parts, training, IT support and more. Our portfolio ranges from standard services to complete service packages tailored to your individual needs. Our goal is to guarantee maximum performance and operational safety.

LISTA AGV Services	Silver	Gold	Platinum
Check safety functions in accordance with service log	■	■	■
3 h free of charge with every incident	■	■	■
Preventive measures incl. cleaning the sample	■	■	■
Service report	■	■	■
Discount on wearing parts			■
Hotline during office hours	■	■	■
Hotline outside office hours		■	■
On-site guarantee in 24 h – 16/5/260	■		
On-site guarantee in 8 h – 16/5/260		■	
On-site guarantee in 8 h, 6 h or 4 h – 24/7/365			■
Software update	■	■	■

General LISTA services at a glance



Advice, planning and visualisation



Individual engineering



Installation



After sales



Spare parts



Customer service



Repairs



Training



Yearly maintenance

THERE FOR YOU ALL OVER THE WORLD

LISTA is there for you, on several continents, in many different locations. In addition to our two plants at the headquarters in Erlen (Switzerland) and in Bergneustadt (Germany), we also look after and advise our customers through our international sales branches in Europe and China. A close-knit network of retail partners tops off the service that we offer.



LISTA Group locations

Switzerland, Germany, Austria, France, Italy, England, Spain, China



Founding

1945



Headquarters

Erlen (TG), Switzerland

Production sites

Erlen (CH), Bergneustadt (DE)

ORDERING AND CONTACT

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LISTA AS A PARTNER WELCOME TO THE NO.1

LISTA offers organisation. With success, experience and a systemic approach. For more than 75 years, we have offered our customers concepts for more organised and efficient working. Because we offer more than just a high-quality product, competent advice and a wide

range of services: the LISTA system creates perfect interlocking solutions for smooth work processes. And this makes us a leading partner in the area of workspace and storage equipment worldwide.



BENEFITS AT A GLANCE

- + Comprehensive range**
from A for access control to W for workstation systems
- + Modular system**
all products can be freely combined
- + Maximum flexibility**
with a choice of colours, configuration options and more
- + Tailor-made solutions**
for customers with specific needs
- + Expert planning**
including visualisation with LISTA Draw
- + 10-year guarantee**
unique in the industry
- + Wide range of services**
such as training, assembly, marking etc.
- + Worldwide distribution and service network**
for customer service without borders
- + First-class references**
from more than 100,000 prestigious companies worldwide



Further products and system solutions can be found in our LISTA catalogue.



www.lista.com