

Lenze Material Handling and Logistics

# Solutions for Courier, Express & Parcel (CEP)

More than  
75 years  
experience in  
**Courier,  
Express &  
Parcel (CEP)**



**As one of the leading specialists in drive and automation technology, with extensive know-how and a worldwide network of experts in intralogistics, we always work with you closely to find the very best solution. We set your ideas in motion with great enthusiasm and an eye for what works. Irrespective of whether you want to improve existing equipment or develop a completely new machine.**

We cooperate with you in all phases of your projects in accordance with your individual requirements and aims. And when you devise an innovative overall concept, we are there to help you make it a concrete reality.

With our regional companies, our experts are active in over 45 countries around the world, working with you to develop the best solution for your CEP industry application. Around the globe, well-known customers from this sector are among our customers.

**Develop innovative solutions together and benefit from the industry know-how of global experts:**

- Efficient and reliable mechatronic drive packages for typical and challenging applications
- Holistic automation systems from the drive to the cloud
- Use of open standards
- Integrated engineering
- Machine transparency through consistent data usage
- Global production with uniform Lenze quality standards
- Global service network and training program



# Always the right Automation and Drive solution

Rely on our decades of domain expertise and deep understanding of motion control, machines and processes.

Lenze increases your performance with **exceptional hardware** and **intelligent software**.

From the drive shaft to the cloud, Lenze solutions are always open and integrate seamlessly with existing and future elements, ensuring comprehensive **interconnectivity** – within our strong ecosystem and beyond.

Throughout the machine's life cycle, Lenze **tools and services** allow you to enrich your portfolio and **push your customer's productivity** to the next level.





Lenze Engineering Suite

Sizing & Selection Tools  
Engineering Tools  
Operation Tools: App Management & Fleet Management



Lenze FAST Application Software

Logic | Motion | IoT Applications



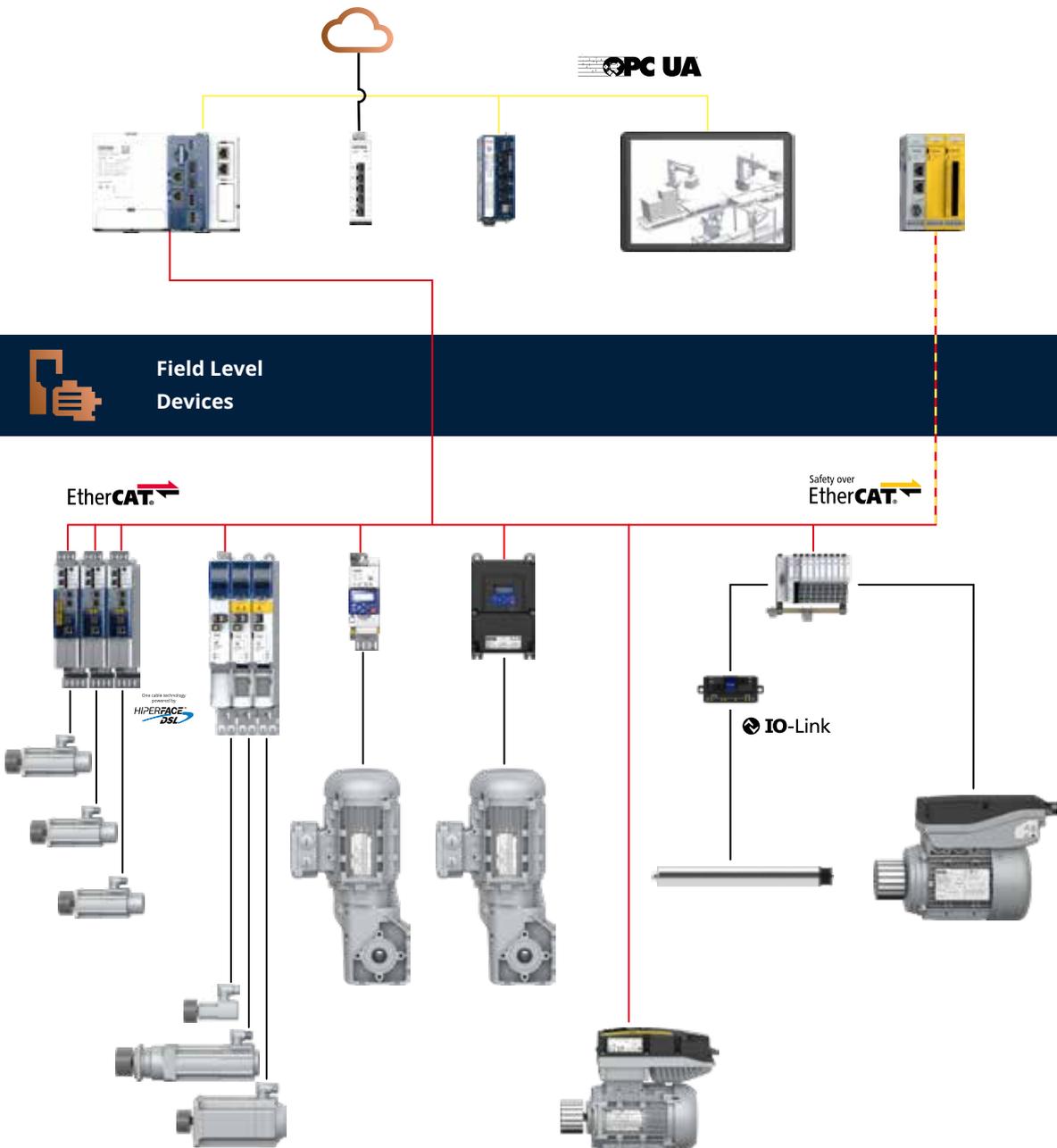
Controller & HMI



3<sup>rd</sup>-party Tools, Apps, Hardware & Services



Safety & Security Features

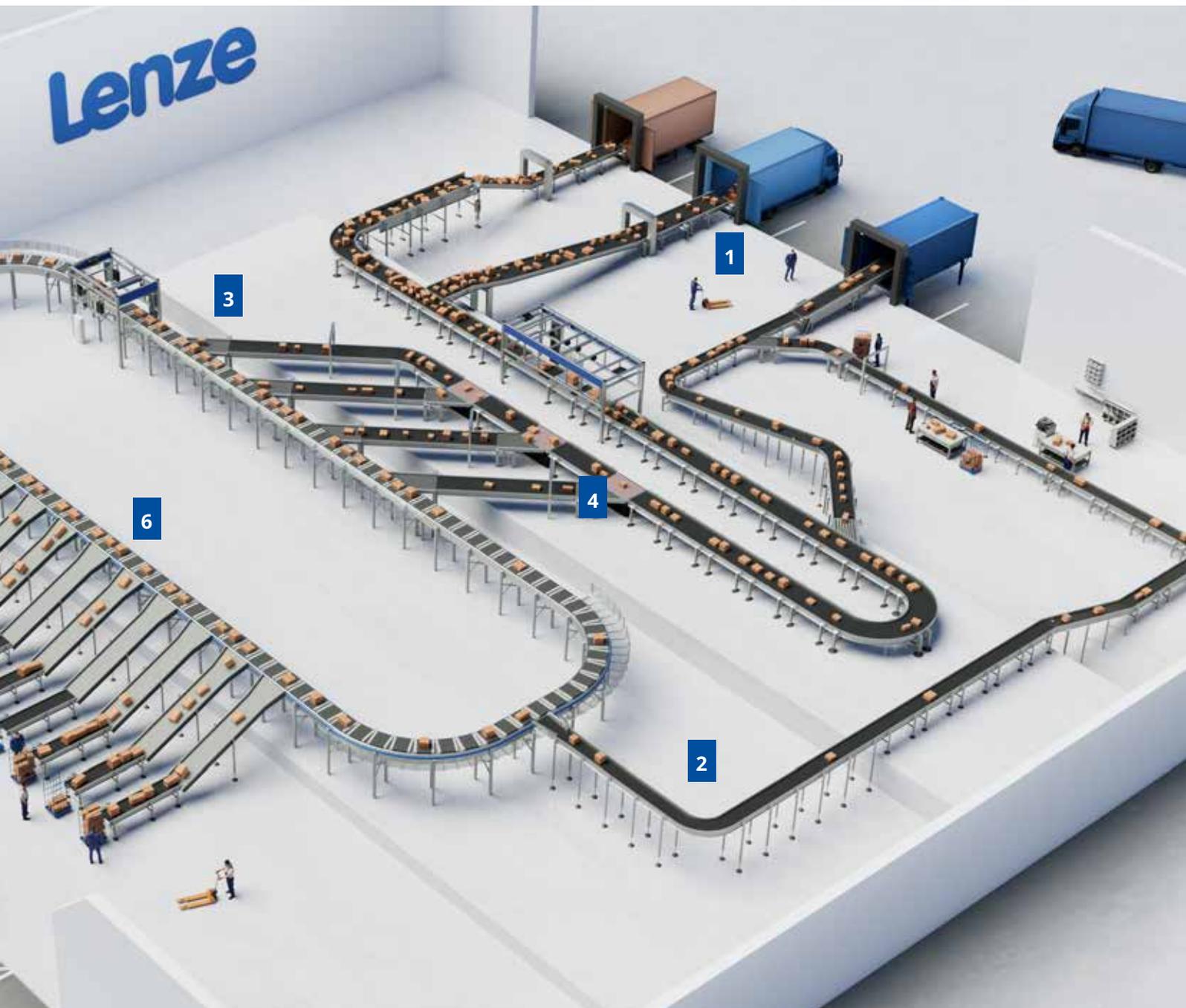


# Automation and suitable drive solutions for **Courier, Express & Package (CEP)**

**The requirements for fast, automated parcel handling are becoming more diverse and complex. From air bubble shipments to polybags and large cartons - the conveyor technology, sorting and separation must be perfectly coordinated.**

Our international team of experts will support you in meeting the many challenges of designing your systems to be particularly efficient and fully automated, while also keeping an eye on energy efficiency and a high level of system networking.





### Horizontal conveyor technology

- 1** Automatic loading and unloading system
- 2** Belt or roller conveyor

### Automated sorting

- 3** Induction
- 4** Divider
- 5** Sorter
- 6** Discharge



## Preferred products for **horizontal conveyor technology**

Lenze Smart Motor	g500-H + m300 helical geared motors	g500-S + m300 shaft-mounted helical geared motors	g500-B + m300 bevel geared motors	o450 motor driven roller
Motor driven roller				
				
Power range	0.47 ... 1.36 kW	0.47 ... 1.36 kW	0.47 ... 1.36 kW	57/115 Watt (24/48 V)
Torque	4 ... 1500 Nm	6 ... 2050 Nm	6 ... 1200 Nm	max. 4 Nm
Energy efficiency	IES2*	IES2*	IES2*	comparable with IE7

\*Available in higher energy efficiency classes from 2025

Drives	<b>i-series i550 cabinet frequency drive</b>	<b>i-series i550 motec frequency drive</b>	<b>i-series i550 motec frequency drive Option: Extension box</b>	<b>i-series i550 protec frequency drive Option: Extension box</b>
				
Design/Mounting	Cabinet	Wall or motor	Wall or motor	Wall
Degree of protection	IP20	IP66	IP54	IP66
Mains connection/ Power range	0.25 ... 132 kW	0.37 ... 45 kW	0.37 ... 11 kW	0.37 ... 75 kW
Market approvals	CE, UKCA, UL, DOE, KC, CCC	CE, UKCA, UL, DOE, CCC	CE, UKCA, UL, DOE, CCC	CE, UKCA, UL, DOE, KC, CCC
Digital input/output	5/1	4/0 2/2 Standard I/O	4/0 2/2 Standard I/O	5/1
Analog input/output		In planning	In planning	
Communication	CANopen EtherCAT EtherNet/IP IO-Link-Slave Modbus RTU Modbus TCP POWERLINK PROFIBUS PROFINET	EtherCAT EtherNet/IP Modbus TCP PROFINET IO-Link-Master	EtherCAT EtherNet/IP Modbus TCP PROFINET IO-Link-Master	CANopen EtherCAT EtherNet/IP IO-Link-Slave Modbus RTU Modbus TCP PROFINET
Functional safety	Stop functions: STO, SS1	Stop functions: STO, SS1	Stop functions: STO, SS1	Stop functions: STO, SS1

Geared motors	<b>g500-H helical geared motors</b>	<b>g500-S shaft-mounted helical geared motors</b>	<b>g500-B bevel geared motors</b>
			
Power range	0.12 ... 55 kW	0.12 ... 55 kW	0.12 ... 55 kW
Torque	3 ... 14000 Nm	6 ... 19000 Nm	6 ... 20000 Nm
Energy efficiency	IE2/IE3*	IE2/IE3*	IE2/IE3*

\*Available in higher energy efficiency classes from 2025



## Preferred products for automated sorting

Motors	MF three-phase AC motors	MCS synchronous servo motors
		
Power range	0.55 ... 22 kW	0.25 ... 15.8 kW
Torque	1 ... 60 Nm	0,5 ... 86 Nm
Protection class EN 60529	IP55	IP54/65
Market approvals	CE, UKCA, UL, DOE, CCC	CE, UKCA, UL, DOE, CCC
Speed range	1:24 donorless	

<b>Drives</b>	<b>i-series i950 cabinet servo drive</b>	<b>i-series i550 motec frequency drive</b>	<b>i-series i550 motec frequency drive Option: Extension box</b>
			
Design/Mounting	Cabinet	Wall or motor	Wall or motor
Degree of protection	IP20	IP66	IP66
Mains connection/ Power range	0.37 ... 110 kW	0.37 ... 45 kW	0.37 ... 11 kW
Market approvals	CE, UKCA, UL, DOE, CCC	CE, UKCA, UL, DOE, CCC	CE, UKCA, UL, DOE, CCC
Digital input/output	4/1	4/0 2/2 Standard I/O	4/0 2/2 Standard I/O
Analog input/output	1/0	In planning	In planning
Communication	CANopen EtherCAT Ethernet EtherNet/IP PROFINET Safety bus FSoE PROFIsafe safety bus on PROFINET Operation with safety PLC	EtherCAT EtherNet/IP Modbus TCP PROFINET IO-Link-Master	EtherCAT EtherNet/IP Modbus TCP PROFINET IO-Link-Master
Functional safety	Stop functions: STO, SS1, SS2, SSE, SOS, SBC, CAS Monitoring functions: SMS, SLS, SSM, SLI, SDI, SLP, PDSS, SCA	Stop functions: STO, SS1	Stop functions: STO, SS1
PLC functionality	Logic PLC		

<b>Geared motors</b>	<b>g500-H helical geared motors</b>	<b>g500-S shaft-mounted helical geared motors</b>	<b>g500-B bevel geared motors</b>
			
Power range	0.12 ... 55 kW	0.12 ... 55 kW	0.12 ... 55 kW
Torque	3 ... 14000 Nm	6 ... 19000 Nm	6 ... 20000 Nm
Energy efficiency	IE2/IE3*	IE2/IE3*	IE2/IE3*

\*Available in higher energy efficiency classes from 2025

We implement  
your ideas with  
**enthusiasm**  
**in motion**



**Reduced engineering costs**

Shorter innovation cycles, higher customer requirements, a growing demand for tailored products and services as well as the shortest time-to-market are challenges faced by every machine builder.

Efficient engineering is essential:

- An engineering tool chain that ensures system continuity is the basis of engineering logic, visualization, safety, security, and motion
- Predefined and tested modules that provide basic functions cut down on engineering costs and market introduction time.
- Modularization and scalability in software and hardware for flexibility and adaptation of the machine design

**Future-proof system**

For new, upcoming challenges, you require an open and highly modern system:

- Standard interfaces such as OPC UA for horizontal and vertical integration
- Simple integration of intelligent sensors
- Industry-standard interfaces for integrating third party products
- Open operating systems for the use of third-party software
- Simple and popular programming options
- Web-based visualization for use with standard browsers

**Smart factory support**

Support for connectivity, digitization and efficiency:

- Machine-to-machine communication
- Artificial intelligence with closed control loop for the machine parameters
- Access control and security mechanisms for an open yet secure solution
- Vertical integration into MES, ERP or cloud solutions
- Data collection and informative aggregation
- Big data analytics for performance assessments
- OEE improvement via error and state analysis
- Predictive maintenance and remote machine monitoring

**Safe and smart machines**

An integrated safety solution offers multiple advantages:

- Reduced space requirements for the machines when the shortest response times for ensuring constant operation are ensured
- Easy expandability and less wiring through the use of a safety bus system
- Lower system costs by reducing the space requirements and wiring complexity.
- Intelligent responses, e.g. reduced speed instead of machine shut down
- Better fault diagnostics thanks to more detailed error descriptions

**Rapid and cost-efficient diagnostics and maintenance**

Emergencies — how your customers receive rapid and efficient assistance in the event of an unplanned machine stop:

- Clear diagnostics data allowing rapid identification of the cause
- Easy access via remote login with full access to the visualization and the control system
- Automatic download of parameters and firmware when hardware is replaced
- Predictive maintenance for avoiding emergency scenarios
- Use of sensors and data analysis



## Worldwide Services

**You can rely on every aspect of our high quality standards.**

Our service is designed to ensure the reliability of your machine and to guarantee its availability.

With proactive solutions that rule out any contingencies, as far as possible and structured procedures, the fast and smooth restoration of the machines' functions in an emergency is ensured.

A large number of our services can be used online at any time. You can of course also get personal support and advice from our specialists.



24/7 Lenze expert helpline

### Online support

You can directly request support and repairs for specific Lenze products or order spare parts and call up technical data and documentation.

Simply enter the material number or scan the type plate with our integrated scan function. All support information is immediately available to you at a glance.

### Replacement requirement

Are you using Lenze equipment and need to replace a complete device or some parts? We send you a corresponding quote quickly with our online service.

### Original repairs from Lenze

In some cases, repairing a Lenze drive instead of replacing it could be a better alternative in terms of quality and cost-savings. This helps you minimize costly downtimes in cases of emergency and means that you don't have to keep large stocks of spare parts.

### Maintenance with a plan

To ensure maximum machine availability, our maintenance package includes additional services that proactively safeguard your operations. We analyze your requirements together and customize your plan based on our many years of expertise in this field.



Original repair

# Lenze

engineered to win

**Illustrations on title and pages 2, 3, 8, 10: BEUMER Group**

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