X45 – SMALL PRODUCT HANDLING

FLEXLINK®

a **coesia** company

COMPACT, ADAPTABLE AND PROVEN

The X45 offer includes a wide range of compact conveyor modules for handling of small products both directly on chain as well as in standard pucks.

The platform includes the standard X45C system, the high capacity X45H conveyor system and the X45e system complete with puck handling functions such as diverters, mergers and transfers.

The X45 is compact and easy to integrate. It handles the products gently and has a long service life. The comprehensive platform includes a wide range of drive units, slide rails and bends.

Altogether, the X45 conveyor platform provides you with a variety of solutions for handling small products.
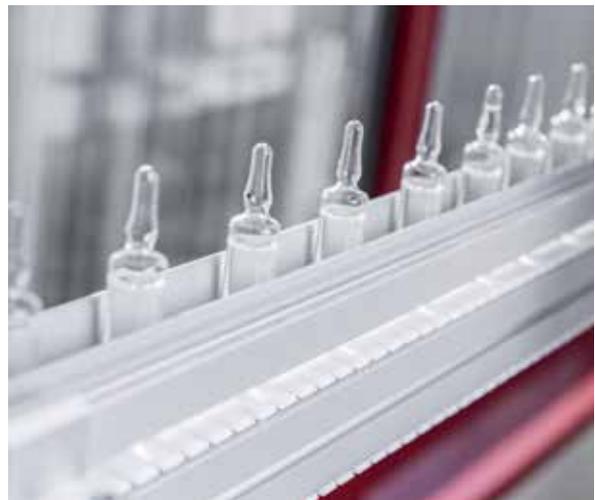
THE VERSATILE PRODUCT PLATFORM

The characteristics of the X45 make it suitable for a wide range of products and industries; such as batteries, vials, ampules, smaller bearings and electronics.

X45 is easily adaptable, providing a number of modules for customizations depending on your needs.

The narrow width of the X45 conveyor chain together with high precision guide rails provides a stable and safe production flow.

In addition, fragile products can benefit from the X45e puck handling system.

The pucks have a standardized base but customized top, giving you a transportation container that is optimized for your specific product.

The X45 platform is equipped with smart motors including embedded controls and production softwares. Applications for RFID, predictive maintenance and OEE are also available.

BENEFITS

- Reduced maintenance needs - Long service life and low wear

- Compact and easy to integrate

- Suitable for small products

- Low total cost of ownership and reduced need for PLC

- Smart, with embedded controls

- RFID-ready and fully digitalized

OVERVIEW

The modular X45 platform simplifies the creation of your layout, permitting easy engineering and flexible line configuration. With a range of standard components and our easy-to-use Design Tool, we help you to design an optimized flow.

CHAIN

The X45 conveyor chain is designed for a smooth and stable production flow, with minimum wear and noise level. You can chose from a number of different chains for both horizontal and vertical conveying.

GUIDE RAILS

By using guide rails, even the smallest and lightest products can be transported in a stable and secure manner, preventing the products from turning or falling down.

MOTORS

The X45 platform includes both regular three phase AC motors with fixed speed and 24V DC motors with embedded controllers and speed regulation, the latter is also used for the X45e functions, enabling smart puck handling.

PUCK HANDLING FUNCTIONS

The X45e includes a wide array of functions for controlling and handling the flow. The use of diverters, mergers, stops and locating units enables gentle routing for individual products without disturbing the main flow.

MOTORS WITH EMBEDDED INTELLIGENCE

The intelligent network interface for X45 with an embedded controller allows communication between drives as well as function units. It has a large number of network possibilities and enables the embedded controllers to make local decisions by two-way communication between the different motors and function units.

BENEFITS

- Easy to add to existing X45C and X45e installations

- Increasing the line autonomy by enabling local decisions - reducing the need of PLC

- Reduced energy consumption - 24 V motors and no unnecessary running time

- Flexible and modular - extensive connection possibilities

- Less programming needed - easy parameter setting in intuitive software

ENGINEERING TOOLS

PARAMETER SETTING TOOL

The FlexLink parameter setting software for the smart motors with embedded controllers, significantly reduces the amount of programming and instead lets you configure the needed changes quickly and easily in the program. The tool enables you to adjust motor parameters in order to change the behavior of the units as well as perform diagnose actions.
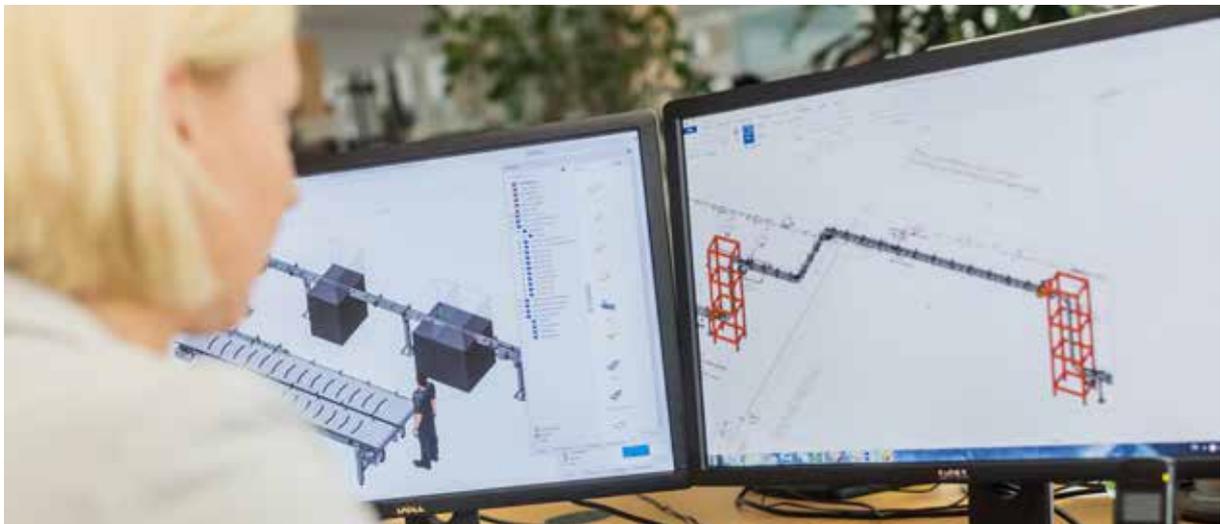
DESIGN TOOL

With FlexLink Design Tool you can easily design a single conveyor or a complete line with enclosures and safety guarding. The design tool has drag-and-drop functionality and each individual component has its own intelligence which eliminates the risk of design errors considerably. Ordering is fast and straightforward with a built-in connection to FlexLink Online Store. Intuitive assembly drawings can be prepared for a fast and trouble free installation.

• Complete library with FlexLink components and modules

• Generic library with machines, robots and operators

• Advanced production flow simulations

• Generation of CAD and STEP/SAT files

• Option to export 3D PDF:s, including animations

TECHNICAL SPECIFICATIONS

The modular X45C conveyor system enables the possibility to easily create the line configuration of your choice, for basic as well as more advanced layouts. There is a range of different conveyor modules - from straight horizontal conveyors and horizontal conveyors with one or two bends, to vertical solutions that take your products from one level to another.

The efficient line layouts give you the opportunity to optimize your production flow, with either standard conveyor modules or functions for puck handling. The X45 platform further includes the high capacity X45H conveyor, which is appropriate to combine with X45C. The X45H allows you to run longer conveyors with more bends and at higher speeds than the X45C alone.

X45e
The X45e system compliments the other two systems with a wide range of functions, which can easily be integrated, to customize the production for your needs. This makes it easy and fast to create layouts for routing, balancing, buffering and positioning of pucks. The RFID identification in the pucks enables one piece track-and-trace and logistic control for the production line.

System	X45C	X45H
Beam width	45 mm	45 mm
Chain width	43 mm	43 mm
Chain pitch	12,7 mm	25,4 mm
Drive unit capacity	100-200 N	900 N
Chain tension limit	200 N (100 N Conductive)	900 N
Item width	10-100mm	10-100 mm
Maximum conveyor length	6 m (4 m Conductive)	25 m
Maximum weight on conveyor	30 kg	125 kg
Maximum single item weight, horizontal transport	800 g	8000 g
Conveyor speed	Variable speed 5-20 m/min	Fixed speeds of 5, 10, 15, 20, 30, 40, 50, 60 m/min
Horizontal plain bends:	30°/45°/90°/180°	30°/45°/90°

COESIA GROUP IN THE WORLD

CERULEAN
Milton Keynes, UK

HAPA
Zurich, CH

MOLINS
Princes Risborough, UK

FLEXLINK
Göteborg, SW

NORDEN
Kalmar, SW

SACMO
Paris, FR

MGS
Minneapolis, MN

CITUS KALIX
Paris, FR

R.A JONES
Covington, KY

VOLPAK
Barcelona, SP

GDM
Offanengo, IT

GF
Parma, IT

EMMECI
Florence, IT

IPI
Perugia, IT

coesia
Bologna, IT

ACMA
Bologna, IT

G.D
Bologna, IT

SASIB
Bologna, IT

CIMA
Bologna, IT
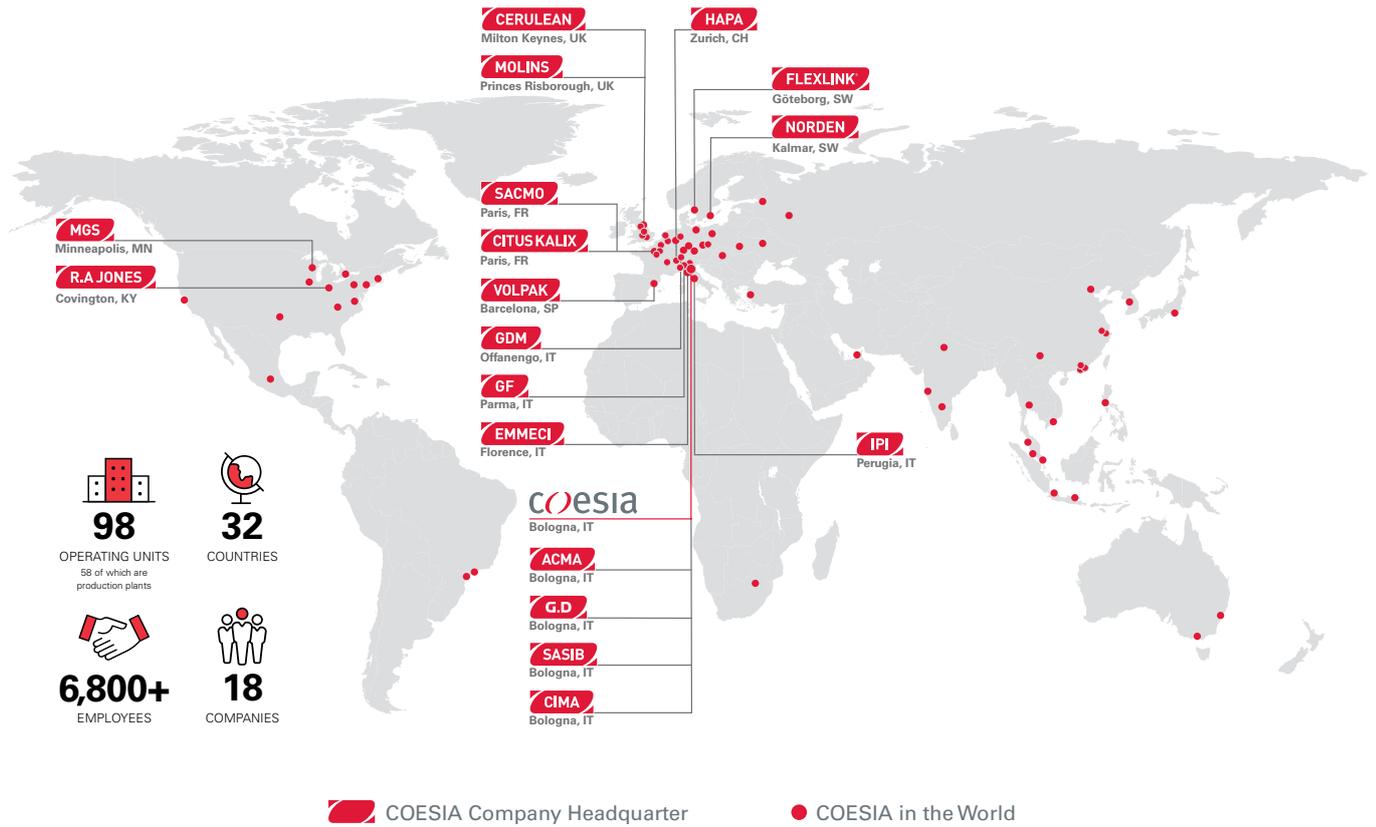
98
OPERATING UNITS
58 of which are
production plants

32
COUNTRIES

6,800+
EMPLOYEES

18
COMPANIES

◼ COESIA Company Headquarter
● COESIA in the World

---

coesia

Coesia is a group of innovation-based industrial and packaging solutions companies operating globally, headquartered in Bologna Italy, owned by Isabella Seràgnoli.

Coesia companies are leaders in the sectors of:
• Advanced automated machinery and packaging materials
• Industrial process solutions
• Precision gears

Coesia customers are leading players in a broad range of industries, including Aerospace, Consumer Goods, Electronics, Healthcare, Luxury Goods, Pharmaceutical, Racing & Automotive and Tobacco.

coesia.com

FLEXLINK®
a **coesia** company

info@flexlink.com
flexlink.com