Capacity:	from [500 kg]	to [4,000 kg]
Lift height:	from [1,250 mm]	to [5,000 mm] as well as special designs

COLUMBUS-McKINNON multiple scissor lift platforms are used where a greater effective lift needs to be achieved with a relatively small platform area, e.g. in confined spaces. The combination of a lift platform with several, vertically arranged scissor mechanisms enables a greater effective lift to be achieved than is possible with a single scissor mechanism.

COLUMBUS McKINNON multiple scissor lift platforms are very diverse: they can both lift loads at an ergonomic working height, be used for level compensation in buildings, and be integrated into work and production processes as a work platform. The lift platforms feature a premium surface finish that enables them to be operated outdoors. The functionality of the lifting platforms can be improved for the preferred use by means of helpful add-ons, such as special controls, safety locks and handrails.

The PD and PDD series have been available for over 20 years; they bring together our product experience and represent the constant refinement of lifting platforms.

Key product data:

- Platform lengths from 1,250 to 5,000 in standard versions.
- Lift category: 2 or as per specification
- Design in accordance with the DIN EN1570-1:2011+A1 :2014, EN ISO 12100 :2010, EN ISO 13854 :2019, EN 60204-1:2018, CE mark
- Number of cycles: approximately 10/h in single-shift operation or as per specification
- Low internal dynamics of the hydraulics for suspension or removing from suspension: approx. 1% of effective lift.
- Sturdy, rigid structure made of hollow sections or solid sheets.
- Design, project planning and production: COLUMBUS McKINNON Corporation
- A wide-ranging selection of optional extras.

Standard features:

- Platform surface made of plain sheet (optional: chequer plate)
- Safety bar that runs all around the outside made of aluminium profile; safe, tested maintenance supports
- Adjustable mechanical limit switch for upper end position
- Hydr. cylinder with integrated rupture valve
- Overload valve (setting approx. 110% of nominal load capacity in the bottom position)
- Low-maintenance, high-quality bearings
- Pressure compensation for constant lowering speed, regardless of load
- Hydro-compact unit: S3, ED 10% (10min).
- Sa2 steel structure – sandblasted, powder- or 2K-PUR-coated, min. 90 µm
- Colours: Base frame and scissor structure in RAL9007 (grey), platform in RAL5015 (dark blue), platform fittings in RAL1003 (yellow)

Electrical equipment and controls:

- External control cabinet with controls on the front panel on a 5m power cable; integrated, lockable main switch
- Safety level Plc (performance level c); 3x400V, 50 Hz / RESET switch as standard
- Control voltage 24 V DC / Motor protection class IP54
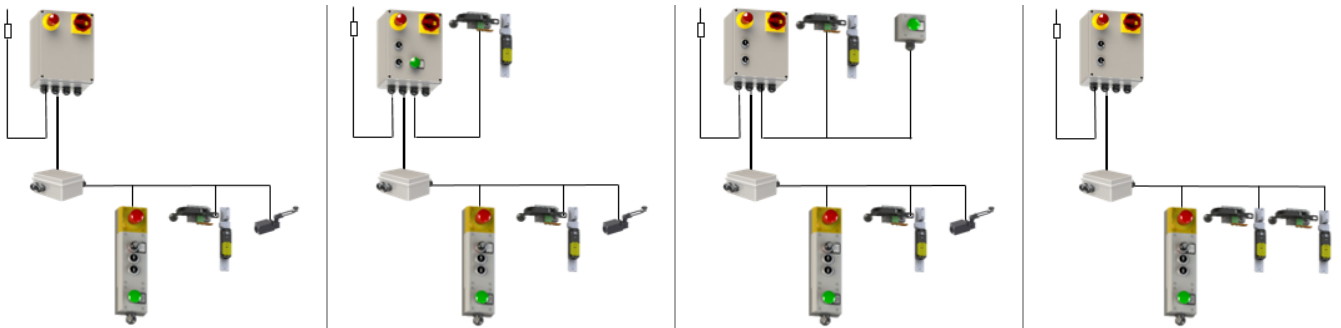
Customised models:

We also produce customised models. Simply ask our technical advisers about your preferred configuration.

Customised controls for COLUMBUS McKINNON

The installation situation for multiple scissor lift platforms often represents particular challenges for the controls. COLUMBUS McKINNON has developed a wide range of controls, specifically for double and triple scissor mechanisms, which take into account the applicable specifications and requirements stated by DIN EN1570-1:2011.

Pursuant to the applicable specifications, fall heights of >500 mm must be safeguarded with handrails, and the access points must be safeguarded with safety locks. Our MIDI modular control can be used with connections dedicated to the respective use:

- up to 2 independent control points
- up to 2 safety locks
- Bottom end switch
- Additional emergency shut-down
- Allocating priorities using the key switch
- Time function for door openers (approx. 4 seconds)
- On request, also at the safety level Pld (performance level d) for lift heights > 1600 mm.

Beispiele von Projekten mit Hubtischen aus der [PD]-Series: