

STRUCTURAL POWER FOR HEAVY-DUTY LIFTING



POWERLIFT Y-280 is the HPA-Faip electro-hydraulic lift designed for the lifting of industrial vehicles, buses and high-capacity commercial fleets.

This lift has been engineered to combine high load-bearing capacity, electronic motion control and structural stability even under demanding operating conditions.

The platform integrates construction solutions aimed at mechanical robustness and continuous operation in heavy-duty workshops.

Its reinforced load-bearing structure ensures uniform stress distribution and controlled dynamic behavior throughout the entire lifting cycle.

NEW



“Y” Frame Structural Configuration

Optimized Force Distribution

The “Y” configuration provides **improved load distribution** across the lifting legs, reducing stress concentrations and **increasing overall system stability**.

The mechanical architecture is engineered to deliver **torsional rigidity and precise motion control** even with loads approaching maximum capacity.

Electrohydraulic Vertical-Lift System

Constant Alignment Control

The electronically managed electro-hydraulic circuit synchronizes the upward and downward travel of the platforms, maintaining **constant alignment** throughout the entire stroke.

Electronic adjustment enables **controlled movement** and ensures **stability** in every phase of operation.

The system is designed to guarantee **smooth operation** and reduced structural stress.

Load Compensation System

Automatic Load Stability

An integrated **elastic stabilizing element** between the platform and the supporting leg absorbs misalignments caused by uneven weight distribution.

The structure maintains an isostatic configuration, ensuring **dynamic balance and safety** when lifting vehicles with variable load conditions.

Optimized Mechanical Structure

Low-Wear Components

The joints are built using high-strength pins and self-lubricating bushings, with a **reduced number of sliding components**.

This construction choice helps **limit long-term wear**, ensures precise movement and **reduces maintenance requirements** over the life of the equipment.



Modular Platforms Wide Range of Lengths

Configuration adaptable to operational needs



The platforms are available in standard versions with multiple lengths, starting at **8,000 mm** and extendable through 1-meter modules up to **11,800 mm**. **Customized configurations** are also possible depending on workshop needs, ensuring application versatility and optimal integration into the workspace.

Integrated High-Level Safety Systems

Constant Operational Monitoring

MAGNUM 280 integrates advanced safety devices, including:

- **Mechanical safety racks**
- **Parachute valve**
- **Maximum pressure valves**
- Photocell-based **alignment control system**
- **Limit switches** with acoustic signalling
- **Hold-to-run control logic**

These features ensure **continuous monitoring** and **operator protection** throughout all working phases.



Full Accessibility to Functional Groups

Simplified Maintenance

Removable side covers provide direct access to electro-hydraulic components and the control unit.

The internal layout is designed to simplify inspection and routine maintenance, **reducing system downtime**.

Configurable Installation

Floor-Mounted or Recessed

The lift can be installed either **floor-mounted** or **recessed**, depending on workshop layout and operational needs.

The structural integration is engineered to ensure stability and accessibility in both configurations.

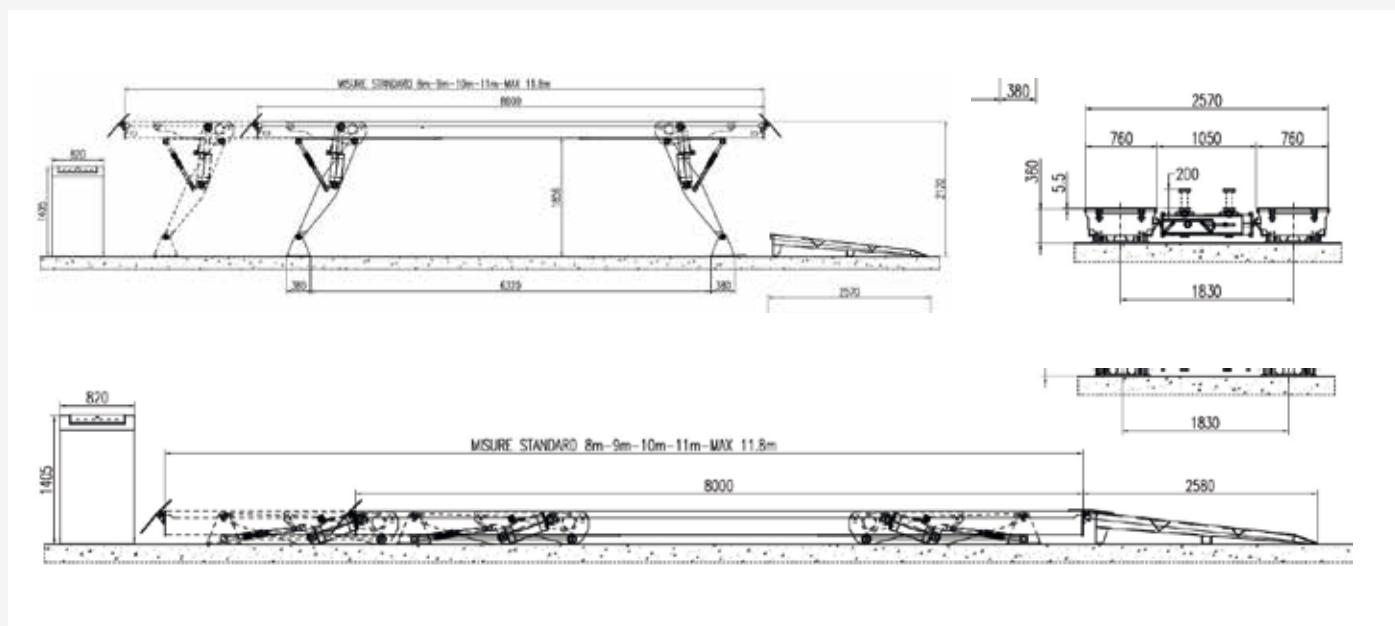


Key advantages

- High load capacity: **18,000 kg** according to EN1493, up to **28,000 kg** with symmetrical load distribution
- Compact design: minimum height **360 mm**
- Large lifting stroke: up to **2,120 mm**
- Maximum under-runway workspace, with **no ground-level base frame**
- **Electronic load-balancing** system ensuring perfectly even lifting
- Runways equipped with integrated rails for sliding cross-beam lifts
- Available in **floor-mounted** or **recessed** configurations for seamless integration into the working environment

Accessories

- Lifting cross beams
- Light kit
- Automatic pit-cover platforms
- Alignment kit
- Air kit
- Hot-dip galvanising
- Anti-skid treatment



POWER LIFT Y-280	Capacity	Maximum capacity	Power supply		Oil pressure	Oil quantity	Weight	Lifting/ lowering time
			Electric	Pneumatic				
			Electronic balancing					
18,000 kg	28,000 kg (symmetrical load distribution)	400V / 3PH / 50Hz	8 Bar (filtered and lubricated air)	300 Bar	60 l	6,000 kg	70s/80s	