

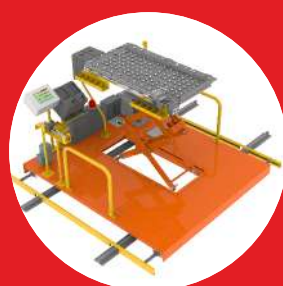


MT-MKT-SL-01, V1.0

SCISSOR LIFTER

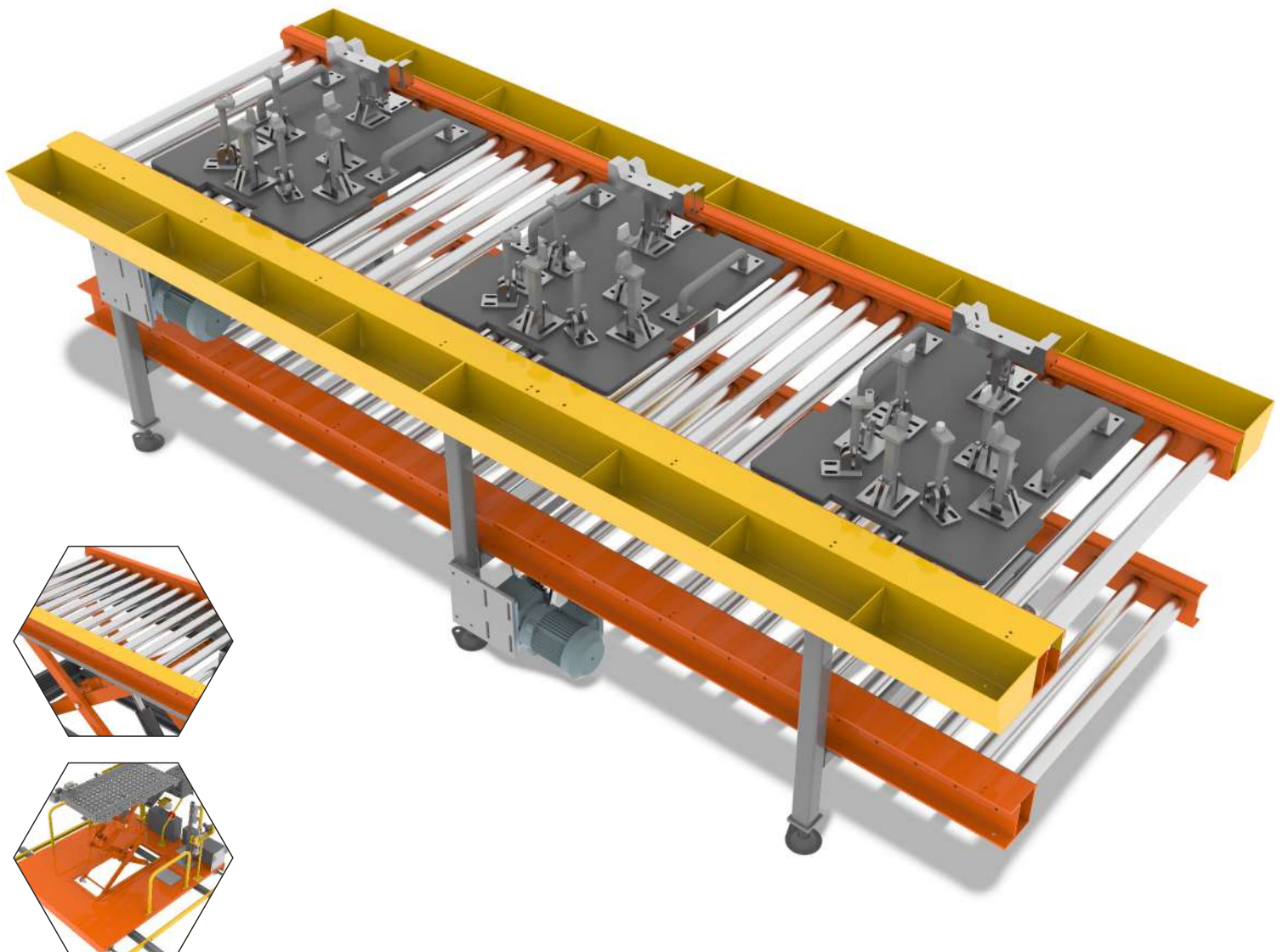
LIFTING SOLUTION

MOVE TO THE NEXT LEVEL



INTRODUCTION

A Scissor Lifter is a mechanical device designed to raise or lower heavy loads and personnel vertically with stability and precision. It operates using a series of linked, folding supports arranged in a crisscross "X" pattern, resembling scissors, which extend and retract to adjust the platform's height. Widely used across industries such as warehousing, manufacturing, construction, and maintenance, scissor lifters provide safe and efficient access to elevated areas. They come in various types including hydraulic, electric, and pneumatic models, each suited to different operational environments and load requirements. By offering smooth vertical movement and a stable platform, scissor lifters enhance productivity, improve workplace safety, and reduce manual handling risks.



KEY FEATURES



Vertical Lifting Mechanism

Uses scissor-like folding structure for smooth vertical movement.



High Load Capacity

Designed to lift heavy loads safely, depending on model size.



Compact Design

Retracts to low profile for easy storage and transport.



Power Options

Available in hydraulic, electric, and pneumatic systems for varied use.



Safety Features

Includes emergency stop, safety locks, overload protection, guardrails.



Versatile Applications

Used in material handling, maintenance, assembly lines, personnel lifting.



Stable and Secure Platform

Provides safe working area with anti-slip surface and guardrails.



Mobility Options

Some models include wheels or casters for easy movement.



Adjustable Height

Enables precise positioning at different working heights.



Low Maintenance

Strong construction ensures minimal maintenance and reliable performance.



Key Components

- ✓ **Safety Guardrails**
Surround the platform to protect personnel from falling off
- ✓ **Hydraulic Reservoir (for hydraulic lifts)**
Holds the hydraulic fluid needed to power the lifting cylinders.
- ✓ **Base Frame**
The stable foundation that supports the entire lifting mechanism.
- ✓ **Platform**
The flat surface where loads or personnel are placed during lifting.
- ✓ **Control System**
Buttons, switches, or remote controls that operate the lift's movement.
- ✓ **Safety Features**
Includes emergency stop, safety locks, overload sensors, and guardrails.
- ✓ **Wheels/Casters (Optional)**
For mobile scissor lifts, these allow easy movement around the workspace.
- ✓ **Power Source**
Hydraulic pump, electric motor, or compressed air supply, depending on the type.
- ✓ **Scissor Arms (Linkage)**
The crisscrossing metal supports that extend or retract to raise or lower the platform.
- ✓ **Lifting Mechanism**
Usually hydraulic cylinders, electric actuators, or pneumatic systems that power the scissor arms.

Challenges

- ✓ **Space Requirements**
Scissor lifts require enough floor space for deployment and safe operation.
- ✓ **Regulatory Compliance**
Must meet local safety standards and regulations, which can vary by region.
- ✓ **Weight and Size Constraints**
Larger models can be heavy and bulky, limiting portability and manoeuvrability.
- ✓ **Safety Risks**
Potential for tipping or mechanical failure if not operated correctly or used on uneven surfaces.
- ✓ **Maintenance Requirements**
Regular maintenance needed for hydraulic systems, actuators, and safety features to ensure reliability.
- ✓ **Cost**
Initial purchase and maintenance costs can be significant, especially for specialized or heavy-duty models.
- ✓ **Operator Training**
Requires trained operators to safely use and maintain the equipment, which can be a barrier in some workplaces.
- ✓ **Limited Application Scope**
Not suitable for all lifting tasks, especially those needing extended horizontal reach or very high elevations.
- ✓ **Power Source Limitations**
Hydraulic and electric models depend on power availability; pneumatic systems require compressed air infrastructure.
- ✓ **Limited Vertical Reach**
Scissor lifters generally offer vertical lifting but limited horizontal reach, restricting access in some environments.





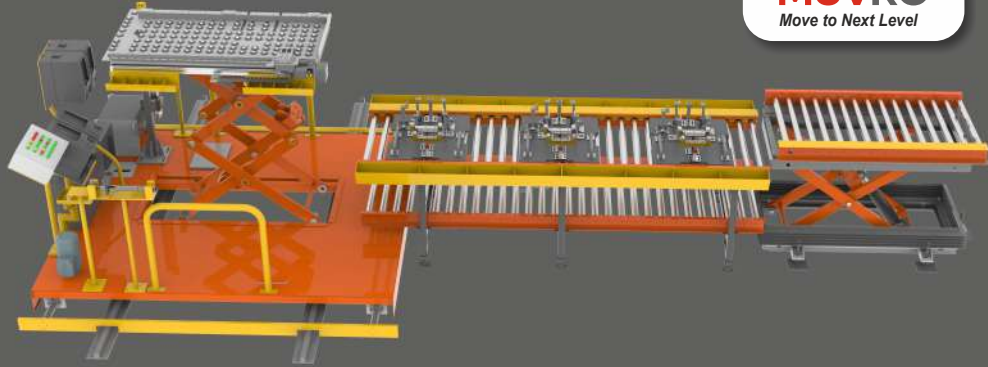
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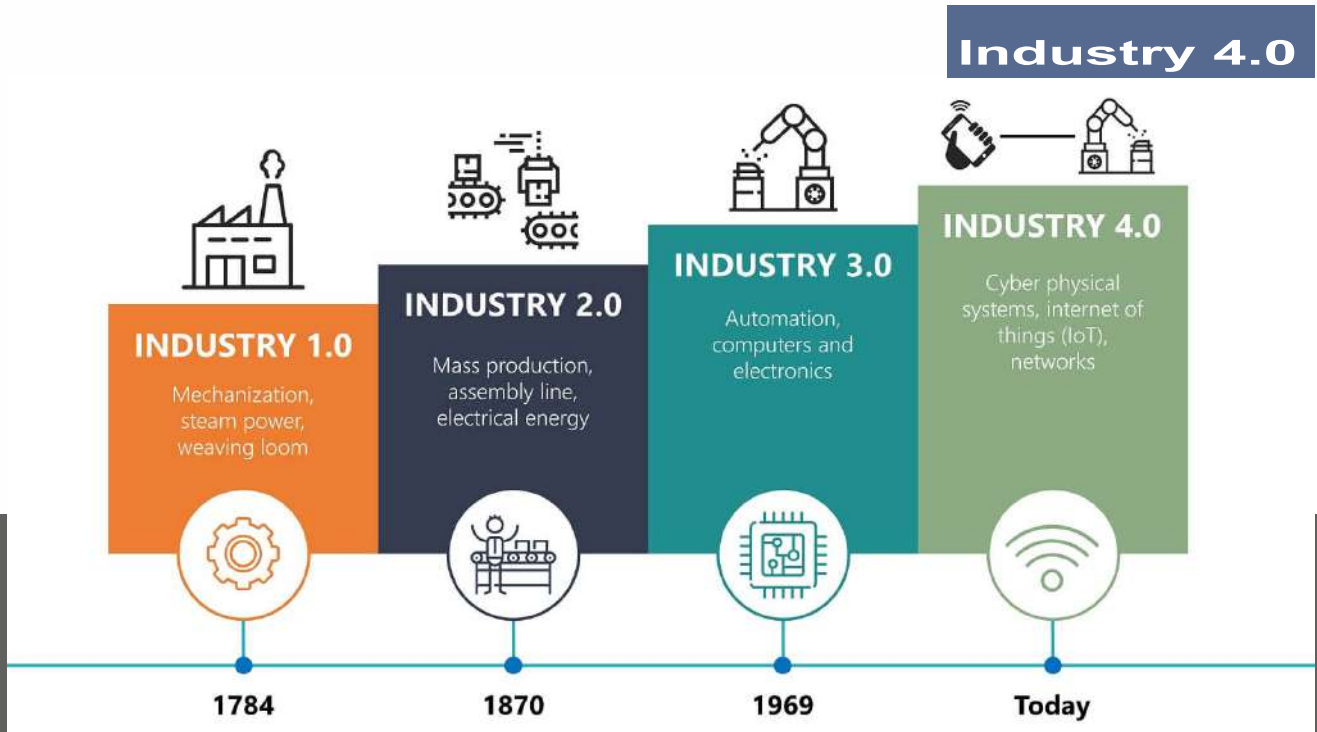
+91-7457800130

info@muvro.com

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