

SLFCR-90 - Ferro Tiger, Scissor Lift with Floating Conveyor Rollers

TECHNICAL SPECIFICATIONS	
Number of Scissors Arms	One
Max Capacity of lift table	1000 Kgs
Load to Raise/Lower	1000 Kgs
Top Platform size	2200 mm x 800 mm
Max height from base frame	900 mm
Closed height	300 mm (With Conveyor Rollers)
Stroke / Travelling lift	600 mm
Motor	1.5 HP - 3 Phase 415 V AC 50 Hz.
Power Source	3 PH, 415V + Neutral
Control Voltage	220 V AC
Control type	Foot Operated Pedal Switch
Top Platform base sheet	5 mm thick MS Sheet
Power Pack Position	Inside of Scissor Lift
Movement / Location	Stationary – Floor Mounted
Equipment Color	RAL 7035 White

OPERATIONAL SPECIFICATIONS	
Lifting time / Speed	15 sec approximate @ 40 mm/sec
Lowering time / Speed	15 sec approximate @ 40 mm/sec
Cycle Time	Customer to specify
Frequency of Operations per hour	Customer to specify
Duty Cycle – No. of Shifts	Customer to specify
Motor Running Type	Non-Continuous
Circuit Type – for raising and lowering	Inching
Stopping Accuracy	+/- 10 mm
Site temperature Max & Min	N/A
Humidity	N/A

ROLLER CONVEYOR SPECIFICATIONS	
Roller Conveyor Diameter	Ø 50 mm
Roller Pitch & Length	As per our design
Conveyor Roller Make	Reputed Make
Conveyor Type	Gravity Rollers
Note: Rollers will project on top when Slim Lift is in Closed condition.	

Optional Accessories

Auto Sensor (For Auto Raising & Auto Lowering)

TECHNICAL DESCRIPTION

Base Frame & Top Frame:

- The base frame is a robust construction made from C-channels, angles and rectangular tubes.
- The heavy-duty top platform remains distortion free even with a non-uniform load.
- Top platform will be covered with 5 mm thick MS Sheet.

Scissor Arms:

- The heavy section scissor arms are connected by torsion tubes, a prerequisite for best possible synchronization and exact parallelism.
- Scissor arm pivot pins are made from EN 8 Material and are hardened and have large bronze bushes for proper load distribution.

Hydraulic Cylinders:

- Hydraulic cylinders have been designed and tested for long life and are fitted with self-aligning maintenance free spherical bearing for perfect alignment.
- Pistons are made from EN 8 rod with hard chrome plating to ensure a long life.
- Cylinders are fitted between moving ends of scissor arm giving greater structural rigidity & ability to withstand offset load.

Hydraulic Power Pack:

- The hydraulic power packs consist of a motor, gear pump and hydraulic valves from reputed brands & manufacturers, giving many years of trouble free & maintenance free operation.
- Power pack Motor runs on 440V 3Ph 50 Hz + neutral power supply.
- Direction control Solenoid valve will be used for lowering the Scissor Lift.
- Flow control valve has been provided to control speed of decent.
- Hydraulic suction oil filter, oil level gauges are standard in all power packs.
- **Note:** Puppet cartridge valve will be used to ensure minimum leakage in hydraulic system. (Lift may come down by 50mm to 75mm over 24Hr period from full raised position as inherently a hydraulic system cannot be 100% zero leakage)

Safety:

The **FERRO TIGER** scissor lifts comply with **EN1570** requirements & is high on safety features equipped with overload protection valve, hose burst valve, mechanical locks for maintenance. High visibility safety decals are applied on the equipment.

Standard Safety Features:

- Non-Return Valve will freeze the top Platform instantaneously in case of electric power supply failure.
- Pressure relief / overload sensing valve will not allow overloading of the equipment beyond its rated capacity while lifting only.
- High Pressure flexible hose assembly is double wire braided and rated for 350 Bar.
- Manually operated lowering valve arrangements will be provided on bottom hydraulic command for lowering down of top platform in case of power failure.
- Mechanical locks will be provided for maintenance.
- Four lifting hooks will be provided on the base frame.

Finish:

- The scissor lift structure cleaned, de-greased & primed with two coats of primer.
- Main structure is painted RAL 7035 (White) and top platform is painted with golden yellow and black stripes for protection against the elements.

Acceptance Criteria & Delivery Tests:

- The Scissor Lift is tested with 10% overload. We check measurement accuracy and operating features in accordance with a detailed schedule and issue an individual test certificate.
- One copy of Instruction & Maintenance manual will be supplied along with the equipment.