PRE-INSTALLATION CHECKLIST

ED-S20 5025-6T Dock Up Scissor Lift

Ferro Tiger / Ferro Foundries

Please confirm all pit, electrical, and utility requirements listed below before the arrival of the Caple service engineer. Incomplete preparation will delay installation and may attract additional service charges.

Machine Specifications

Parameter	Value
Model	**ED-S20 5025-6T (Ferro Tiger)**
Max Capacity	**6000 Kgs**
Top Platform Size	**5000 mm × 2500 mm**
Max Height (Raised)	**2800 mm from base frame**
Closed Height	**800 mm**
Stroke / Travel	**2000 mm**
Motor	**7.5 HP, 3-Phase, 415V AC, 50Hz**
Control Voltage	**24V DC (Push Button)**
Movement / Location	**Stationary – Pit Mounted**
Pit Dimensions*	**~5080 × 2580 × 875 mm (L×W×D)**
Machine Weight*	**~3500 - 4000 kg (packed)**

**Pit dimensions and machine weight are indicative for this platform/capacity class; Caple will confirm exact figures against Ferro Foundries' civil drawing and packing list before excavation/dispatch.*

1 · Electrical Supply & Wiring

3-Phase Power Supply

☐ Dedicated 3-phase, 415V AC + Neutral, 50Hz supply available at the pit location for the 7.5 HP hydraulic power pack motor.

Cable Specification

☐ 4-core cable (3 phase + neutral + earth), minimum 4 mm² cross-section sized for the 7.5 HP motor, run from the MCC/DB panel to the power pack.

MCB / MCCB Rating

☐ 16 A MCCB with earth leakage protection (ELCB) installed at the sub-panel feeding the hydraulic power pack.

Earthing & Bonding

☐ Dedicated earth pit with resistance ≤ 5 Ω. Power pack enclosure and platform frame earthing points ready and connected.

Push-Button Control Wiring

- [ ] 24V DC control circuit wiring from the power pack to the guard-rail-mounted push button station confirmed and tested.

2 · Compressed Air

Compressed Air Not Required

- [ ] The ED-S20 5025-6T is a fully hydraulic dock scissor lift — no compressed air or pneumatic supply is required for normal machine operation.

Note for Optional Accessories

- [ ] If additional pneumatic dock accessories (e.g. air-operated dock shelters or vehicle restraints) are ordered separately, their air supply requirements will be specified independently.

3 · Space & Civil Readiness

Pit Excavation & Dimensions

- [ ] Reinforced concrete pit excavated to approx. 5080 × 2580 × 875 mm (L×W×D) — exact dimensions to be confirmed from Ferro Foundries' civil/foundation drawing before excavation.

Concrete Grade & Reinforcement

- [ ] Minimum M25 / C25-30 grade concrete with a reinforced base slab (≥300 mm thick, double-layer rebar grid) suitable for the 6,000 kg static and dynamic load.

Pit Drainage & Waterproofing

- [ ] Floor drain provided at the lowest point of the pit, connected to site drainage, with waterproof coating applied to internal pit surfaces to protect the hydraulic cylinders.

Curb Angle & Anchor Points

- [ ] Steel curb angle (75 × 75 × 6 mm) embedded around the pit perimeter with anchor points at the intervals specified in the civil drawing.

Approach Ramp / Dock Alignment

- [ ] Loading dock or ramp levelled and aligned so the platform sits flush with the finished dock floor when raised to working height.

Maintenance Access Clearance

- [ ] Minimum 600 mm clear working space on all accessible sides of the pit for maintenance access to the scissor arms and hydraulic cylinders.

4 · Material Handling & Unloading

Crane / Forklift Capacity

☐ Overhead crane or forklift of minimum 5-ton capacity available on delivery day (platform, frame, and power pack weigh approx. 3,500 - 4,000 kg packed).

Rigging Points & Equipment

☐ Four lifting hooks on the base frame identified; slings and shackles rated for the packed weight arranged before offloading.

Unloading Access

☐ Clear path and hard standing from the truck offloading point to the pit location for a low-bed trailer carrying the 5 m platform.

Pallet / Crate Removal

☐ Tools and personnel arranged to remove export packing around the platform, hydraulic power pack, and guard rails.

5 · Machine & Process Pre-Checks

Hydraulic Power Pack

☐ Motor, gear pump, and hydraulic valves inspected for shipping damage; oil level gauge and suction filter checked before first start-up.

Hydraulic Cylinders & Hoses

☐ Cylinders, self-aligning spherical bearings, and the 350-bar double-wire-braided hose assemblies inspected for leaks or transit damage.

Scissor Arms & Pivot Pins

☐ Torsion tubes and EN8 pivot pins with bronze bushes checked for correct synchronization, parallelism, and free movement before first lift.

Safety Valve Function Test

☐ Overload protection valve, hose burst valve, non-return valve, and manually operated lowering valve tested for correct function.

Guard Rail & Toe Guard Assembly

☐ 1,100 mm guard rails, 100 mm toe guards, and toe-trap prevention devices fitted and securely bolted on both sides of the platform.

6 · Resource & Personnel Readiness

Installation Team
☐ One electrician and one hydraulic/mechanical technician available for the full installation, commissioning, and operator training period.

Operator Training Attendance
☐ Designated machine operator(s) available on-site to receive push-button control and safety training from the Caple service engineer.

Site Safety Briefing
☐ Facility safety officer briefed on EN1570-compliant operating procedures, including exclusion-zone markings around the pit while the lift is in motion.

Test Load Ready
☐ A representative test load (up to 6,000 kg) available on-site for load testing and commissioning trials.

7 · Recommended Spares & Accessories

Hydraulic Oil (spare)
☐ Adequate stock of the specified hydraulic oil grade available for the first oil change and routine top-ups.

Hydraulic Seal Kit
☐ A spare seal kit for the hydraulic cylinders kept on-site as a running spare.

Suction Oil Filter (spare)
☐ One spare suction oil filter element for the hydraulic power pack.

Solenoid & Flow Control Valve (spare)
☐ A spare direction-control solenoid valve and flow control valve recommended for critical spares stock.

High-Pressure Hose Assembly (spare)
☐ One spare 350-bar rated hose assembly kept on-site to minimise downtime in case of hose failure.

Important Notice

If the listed requirements are not met and installation is delayed, a service charge of Rs 5,000 per day will apply. Lodging and boarding costs for the Caple service engineer during additional days must be borne by the customer.

CUSTOMER SIGNATURE & SEAL	DATE	AUTHORIZED BY
		Service Head Caple Industrial Solutions

Kindly sign, stamp, and return this checklist by email to sales@caple.in before the installation date.