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## Construction hoist **Falcon H48**

The Scanclimber Falcon H48 is a mid-range hoist for passengers and materials. It offers reliability, flexibility, safety and low cost of ownership, making it the sensible choice for both construction and rental companies. Since its launch in 2007, the Scanclimber Falcon H48 has been at work on several sites around the world. Falcon allows single or twin cage configurations. Its design is truly modular and offers cage lengths of 2.4 m or 3.2 m and a multiple choice of doors and ramps.



**SCANCLIMBER®**

# Falcon H48

## Introduction

**THE H48 PERSONNEL AND MATERIAL HOIST** family offers a mid-range, flexible and upgradable transport system for materials and people, with a spacious hoist cage up to a lifting height of 300 m. The robust H48 mast stands on a safe ground station and is easily assembled with crane assistance or by hand with an optional mast assembly crane.

**FALCON'S STRUCTURE IS MODULAR** and provides reliability and low cost of ownership, making it a profitable investment for construction and rental companies. With a load capacity up to 2000 kg and a lifting speed of 36 m/min, Falcon has already proved itself as a productive machine in various building sites around the world.

**SPECIAL CONDITIONS** on construction sites and different fields of application require flexible and applicable height access technology. In order to be one step in front of the developments on world-wide markets, Scanclimber is constantly working to improve and modify its machines.

## Falcon Configurations

**FALCON'S MODULAR SYSTEM** allows you to choose the required configuration with special features and characteristics. Later on the selected configuration can be adapted to different applications using relatively few modules and components. The hoist family offers different cage sizes, speed options and payload capacities. Additionally, there is a wide variety of landing gates, doors and mast anchoring systems. Falcon can also be equipped with a frequency controller (FC). It provides for smooth starting and stopping with a low starting current and less wear and tear.

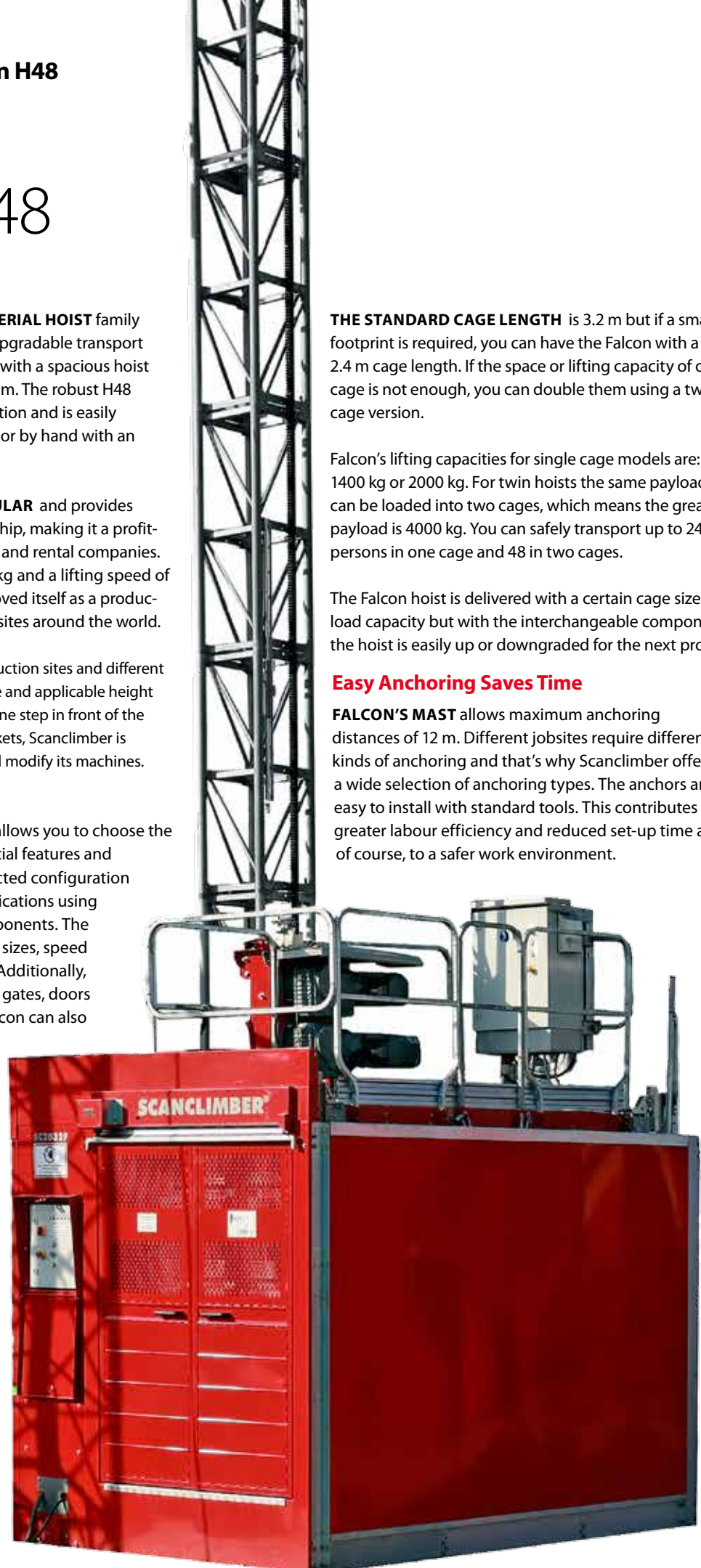
**THE STANDARD CAGE LENGTH** is 3.2 m but if a smaller footprint is required, you can have the Falcon with a 2.4 m cage length. If the space or lifting capacity of one cage is not enough, you can double them using a twin cage version.

Falcon's lifting capacities for single cage models are: 1400 kg or 2000 kg. For twin hoists the same payloads can be loaded into two cages, which means the greatest payload is 4000 kg. You can safely transport up to 24 persons in one cage and 48 in two cages.

The Falcon hoist is delivered with a certain cage size and load capacity but with the interchangeable components, the hoist is easily up or downgraded for the next project.

## Easy Anchoring Saves Time

**FALCON'S MAST** allows maximum anchoring distances of 12 m. Different jobsites require different kinds of anchoring and that's why Scanclimber offers a wide selection of anchoring types. The anchors are easy to install with standard tools. This contributes to greater labour efficiency and reduced set-up time and of course, to a safer work environment.





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## Details

### Safety brake

**1 THE SAFETY BRAKE** ensures that even in a complete breakdown of the drive unit the cage will not fall down. A mechanical, spring-loaded safety brake is a standard safety feature in every Falcon hoist. It improves the safety and reliability of the hoist in everyday use. The long-lasting safety brake is well protected from dirt and dust and is practically maintenance-free.

### Cage

**2 STANDARD CAGE LENGTH** is 3.2 m but an optional 2.4 m cage is available as well. The doors, front (A) and back (B), are slid upwards and give a 1.5 m-wide door opening. The B door, which is used for access to the landings, can be equipped with an automatic hydraulic ramp.

### Ramp

**3 LANDING LEVEL ACCESS** is normally arranged with the B door. To make the access and hoist erecting easier, the door can be equipped with a manually or hydraulically operated ramp. The length of the standard ramp is 700 mm.

### Landing Doors

**4 FALCON'S LANDING GATES** and doors are compatible and interchangeable with all H48 hoist models. The gates and doors are reliable, flexible and can be adjusted to different kinds of structural conditions. The gates are 1.1 m high and full height doors 2.0 m. Both are equipped with an interlocking system and meet the requirements of the current Machinery Directive and Personnel and Material hoist standard (EN12159).

### Ground Station

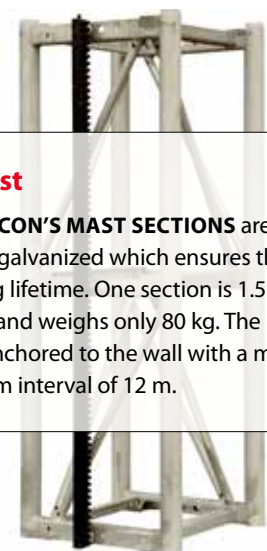
**5 FALCON'S GROUND STATION** is bolted on a concrete or similar slab. The handedness of the station can be freely chosen in the erection phase. The standard ground station is equipped with one (A) door but also the back door (B) is optionally available.

### Cable guide system

**6 A CABLE GUIDE SYSTEM** controls the power supply cable to run up and down with the hoist cage. In low mast installations the cable drum on the ground station is enough to keep the cable in order. With higher masts, the cable trolley ensures smooth movement and prevents damaging of the cable.

### Mast

**FALCON'S MAST SECTIONS** are hot-dip galvanized which ensures their long lifetime. One section is 1.5 m tall and weighs only 80 kg. The mast is anchored to the wall with a maximum interval of 12 m.



# Technical Data



	SC1432	SC2032-48
Payload <i>(number of persons according to EN12159-1)</i>	1400 kg or 17 persons *)	2000 kg or 24 persons *)
Speed	36 m/min	36 m/min
Single or twin cage version	YES	YES
Top drive, lifting motors	2 x 9.2 kW	2 x 11 kW
Power supply voltage	400 V / 50 Hz	400 V / 50 Hz
Power supply fuses	63 A / 5 p	63 A / 5 p
Max. starting current	226 A	100 A (with FC)
Power consumption	19 kW	23 kW
Cage internal size L x W x H	3200 mm x 1390 mm x 2055 mm	
Cage door opening W x H	1490 mm x 2000 mm	
Top drive lifting unit	YES	
Overspeed safety device	YES	
Max. lifting height, with anchored mast	200 m (higher mast by request)	
Max. anchoring distance	12 m (depending on anchor type)	
Max. lifting height, free-standing	6.0 m*)	
Max. free mast after topmost anchor	6.0 m*)	
Mast section: height	1.5 m	
weight, single / twin	80 kg / 91 kg	
Operation temperature	-25...+40° C	
Noise level	< 85 dBA	

\*) depending on ground station type, cage amount (single or twin), cage length and lifting capacity



Scanclimber is the world's technology leader in mast climbing equipment for both temporary and permanent installations. The company has its corporate head office in Pirkkala, Finland, and manufacturing in Gniezno, Poland.

The company employs more than 200 people in Europe and Asia. Scanclimber creates value for its customers with high quality, reliable and flexible vertical access solutions.

## SCANCLIMBER®

Scanclimber Oy, Turkkirata 26, FI-33960 Pirkkala | [www.scanclimber.com](http://www.scanclimber.com)  
Tel. +358 10 680 7000, Fax +358 10 680 7033

Authorized partner



Sales, Service and After sales  
Plettac Ltd

T +38 044 400 9697  
F +38 044 400 9698  
[info@plettac.ua](mailto:info@plettac.ua)  
[www.plettac.ua](http://www.plettac.ua)