

# SKY CLIMBER®

ACCESS INNOVATIONS SINCE 1955

## ALPHA



Alpha 800 with hoist mounted Sky Lock (option)



Alpha Air with Sky Grip (option)



Alpha 1000 with stirrup mounted Sky Lock (recommended) (option)

Whether you need to reach new heights or fit into tight places, or both, turn to **SKY CLIMBER**®. The **ALPHA** hoist from **SKY CLIMBER**® is part of the innovative family of specialized suspended platforms hoists.

See how the **ALPHA**'s sleek tested design allows it to fit through a manhole as small as 46 cm, to lift your heaviest loads up to 1.000 kg.

The **ALPHA** proves, and this for over 30 years, that it is still the most reliable hoist available in the industry.

### Operate in your work environment:

- Sandblasting
- Commercial restoration
- Painting
- Masonry
- Window cleaning
- General building maintenance
- Off shore oil rigs
- Boiler and digester maintenance
- Ship maintenance
- Caulking
- Windmill service access and blade maintenance
- Welding
- ...

### Put the ALPHA to use on:

- A one man work cage
- A work platform from 2 to 12 m (with end stirrup)
- A work platform from 2 to 16 m (with walk through stirrup)
- Any modular and custom made platform

### The ALPHA is:

- Engineered for safety, speed and power
- Designed for heavy duty field use
- Electric or pneumatic powered motors

Count on **SKY CLIMBER**® ... backed by more than 55 years industry experience, known for many innovative, industry first achievements.

**ALPHA** leading a safe, fast and strong way into the future!

#### ALPHA 500

Lifts: 500 kg  
 Operating Speed: 8,5m/min  
 Features SKY LOCK III 9 mm  
 Features SKY GRIP 9 mm  
 Hoist self-weight: 62 kg  
 (Air 48 kg)

#### ALPHA 800

Lifts: 800 kg  
 Operating Speed: 8,5m/min  
 Features SKY LOCK II 9 mm  
 Features SKY GRIP 9 mm  
 Hoist self-weight: 66 kg  
 (Air 52 kg)

#### ALPHA 1000

Lifts: 1000 kg  
 Operating Speed: 8,5m/min  
 Features SKY LOCK II 10,2 mm  
 Features SKY GRIP 10,2 mm  
 Hoist self-weight: 70 kg

*Double or twin speed upon request*

# TECHNICAL SPECIFICATIONS

## Hoist Dimensions & Load Capacity:

### ALPHA 500

Height: 41 cm  
Width: 40 cm  
Length: 50 cm  
Rated Load Capacity: 500 kg

### ALPHA 800

Height: 41 cm  
Width: 40 cm  
Length: 50 cm  
Rated Load Capacity: 800 kg

### ALPHA 1000

Height: 41 cm  
Width: 40 cm  
Length: 55 cm  
Rated Load Capacity: 990 kg

## Power / Electrical Requirements\*:

Motor Options ALPHA 500	Power	Line Current
220-240V/50Hz/60Hz/single phase	0,88 kW	6,8 A
380-415V/50Hz/60Hz/three phase	0,88 kW	3,3 A
Air powered hoist	0,96 kW	1,9m <sup>3</sup> /min @ 6 Bar

Motor Options ALPHA 800	Power	Line Current
220-240V/50Hz/60Hz/ single phase	1,33 kW	9,4 A
380-415V/50Hz/60Hz/ three phase	1,10 kW	4,3 A
Air powered hoist	0,96 kW	1,9m <sup>3</sup> /min @ 6 Bar

Motor Options ALPHA 1000	Power	Line Current
220-240V/50Hz/60Hz/ single phase	1,66 kW	12,0 A
380-415V/50Hz/60Hz/ three phase	1,40 kW	5,40 A
Air powered hoist	1,50 kW	1,9m <sup>3</sup> /min @ 7 Bar

*\*other motor options upon request*

## Hoist Safety Features (option):

- Sky Lock overspeed secondary brake
- Sky Grip anti-tilting/slack rope device
- Mechanical over/underload detection
- Electronic overload detection
- Top limit /Ultimate Top Limit
- No power emergency controlled descent with manual brake release

## Hoist Control Options:

- Hoist mounted or pendant
- Central control box with or without 24 V control circuit (CE)

## Gearbox:

Maintenance free, high efficiency, double planetary gearbox with 97% efficiency

## Unique Patented Traction Sheave:

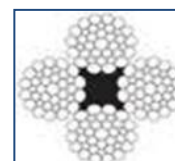
Ensures equal pressure on the steel wire rope around the circumference of the sheave and gives unlimited working height at constant speed and capacity.

## Sky Lock Independent Safety Device:

One of the import safety features of the **SKY CLIMBER** hoist is the **Sky Lock**, a dynamic safety device which senses rope speed as it passes through the mechanism. If the hoist exceeds the factory pre-set speed of 25m/min the **Sky Lock** will automatically trip and lock onto the secondary safety wire rope and support the load.

## Wire Rope Requirements:

Rope diameter (4x36WS):	<b>9mm</b>	<b>10,2mm</b>
(with polypropylene core)		
Theoretical Breaking Load:	78,5 kN	97,17 kN
Minimum Breaking Load:	66,1 kN	84,40 kN
(with steel core)		
Theoretical Breaking Load:	78,5 kN	N/A
Minimum Breaking Load:	62,3 kN	N/A



## Additional Sky Lock Applications:

Although designed to be used with **SKY CLIMBER** hoists, the **Sky Lock** has found other uses as an independent safety device. On oil drilling rigs it is used with derrick climbers as a descent control device and on special purpose elevators as a brake. Requiring no external power source, the **Sky Lock** is available for additional special applications.

To meet the unified regulations, **Sky Lock/Sky Grip** should be mounted on a secondary steel wire rope.

Options:

- Hoist mounted (Sky Lock, Sky Grip)
- End stirrup mounted (recommended) - only Sky Lock
- Walk through stirrup mounted (Sky Lock, Sky Grip)

## Sky Grip is a Slack Rope and Mechanical Anti-Tilting Safety Device:

Installed on a platform with two hoists, the **Sky Grip** covers the risk of:

- Failure of the suspension rope
- No load condition on the suspension rope
- An inclination of more than 12° of the platform

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