

HOIST & MAST CLIMBING WORK PLATFORMS

Access anytime, anywhere



byrnerental.com

Byrne supplies the full range of Alimak Hek's vertical access solutions for people and materials.

Transport platforms, material hoists and mast climbers provide a versatile working environment in the construction and other industries.

Material Hoist & Transport Platform

SC 45/30, TPL 300, 500, 1800, 2000, 200D

A simple, flexible and robust design suitable for all vertical access to buildings or scaffoldings, either for new constructions or for refurbishments.

Structure: a rigid and anti-slip walking surface.

Erection platform: facilitates smooth operation when fastening the masts during erection and fastening mast ties to the wall, and can be positioned on both sides of the platform.

Drive unit: runs on a mast section via a series of guide rollers, mounted on a tandem frame to distribute the pressure consistently for smooth travel. The two-speed or single-phase gear-motor overload system and safety device system are installed in the center.

Mast sections: are fixed to each other with four eyebolts, making assembly quick and safe. The rack is screwed to the mast.



Base frame: The machine is easily positioned, even in narrow places, as the base frame is smaller than the platform. The first mast section and the cable basket are screwed on (until 100m).

Load ramp: The exit side consists of a ramp system which includes a control bar system with vertical or horizontal bar opening. The entrance side consists of a bi-foldable gate system which allows easy loading of the platform with a forklift. The exit ramps and entrance doors are available in several sizes.

Landing gates: For the TPL 1800 / 2000 / 2000D models, the landing gates have a mechanical or electric interlock and are easy to assemble on both the scaffolding and the building landing.

SC 45/30 FC - DOL

- Microprocessor lift control system reduces waiting times
- Can be equipped with a frequency control for smooth starting and stopping
- Single or dual car configurations
- Can share the mast of an MC-450
- Flexible modular design offers lengths 2-3.2m
- Low energy consumption



Mast Climber

The HEK MC 450 can lift all types of load and position them to the nearest centimeter. As a result heavy tools and materials can always be within reach.

Working on a mast climbing work platform is easy because there are no scaffold poles to get in the way, and no cables from cradles, with the added advantage of a higher operating wind load than the cradle.

It is:

- Visible
- Comfortable
- Safe
- Reliable
- Productive
- Cost saving

Logistical advantage

- The platform can be adjusted in length and width
- Can carry a load of 2,500kg with a single mast (4,500kg for a twin mast)
- Lifting height of up to 200m
- Possible to lift a whole day's production to the working level in one lift



Power Generation & Fuel Management

Our fleet of generators range in size from 12kVA to 1650kVA. Supporting this we provide bundled fuel tanks, drip trays, cables, secondary distribution and transformers.

Technical Details

Mast Climber Work Platforms

AC13000 (Mast Climbing Work Platforms)

Platform length	7.5m - 17.5m
Platform width	2m
Payload capacity	3590kg - 5040kg
Speed	7.6m/min
Max lifting height (tied)	200m
Drive system	Twin rack & pinion
Overhang	6m
Max tie distance	9m
Dimensions of mast	0.82m x 0.82m x 1.508m
Motor power	2 x 4.0kW
Power supply	3P, 400V, 50/60Hz
Motor rated current	18 Amps

* Increased lifting height on request



HEK MC 450

Platform length	Single: 4.2 m - 10.2 m Twin : 8.4 m - 30.2 m
Platform width	1.2 m - 2.2 m
Payload	Single: 1500 kg - 2500 kg Twin : 2500 kg - 4500 kg
Speed	8 m/min (50 Hz area) 9.6 m/min (60 Hz area)
Max lifting height (tied)	200 m
Max height top tie	30 m
Overhang	4.5 m
Tie distance	8 m - 10 m
Cable guide distance	6 m
Mast	450 (Mark II)
Rack module	5
Motor rating drive unit	1 x 4 kW
Power supply	400 V / 50-60 Hz



Passenger/ Material Hoist

Alimak SC 45/30

Max. payload capacity	Up to 2,000 kg
Travelling speed	0-60 m/min
Max. lifting height*	200 m
Car width, internal	1.4 m
Car length, internal	2.0-3.2 m
Car height, internal	2.13 m
Motor control	Frequency control or direct-on-line
No. of motors	1 or 2
Safety device type	GF
Power supply range	380-400 V, 50 Hz, 3 phase
Fuse ratings	20-80 A
Type of mast	450, tubular steel with integrated rack
Length mast section	1.508 m
Weight mast section with 1 rack	68 kg
Rack module	5

*Increased lifting height on request. The maximum lifting height on Alimak SC 45 with 1-motor drive is 100 m.



MS-V-28/35 (Construction Hoist)

Payload capacity	2800kg
Travelling speed	60m/min
Max lifting height (tied)	600m
Car width	1.5m
Car length	3.5m
Car height	2.5m
Dimensions of mast	0.65m x 0.65m x 1.508m
Motor control	Frequency
No. of motors	3
Motor rated current	164 Amps
Motor power	3 x 15kW
Power supply	3P, 380-400V, 50Hz
Safety device type	SAJ60

* Increased lifting height on request.



Technical Details

TPL 500 & 300

		TPL500	TPL300
		3Ph version	1Ph version
Payload capacity (kg)		500	300
Number of persons max (included on payload)	TP mode	5	3
Number of persons	MH mode	0	0
Lifting speed (m/min)	TP mode	12	10
Lifting speed (m/min)	MH mode	24	10
Platform dimensions [W x L]		1.4 x 1.6	1.4 x 1.6
Max Lifting height (tied)		100* m	50* m
Max Tie distance (m)		7.5	7.5
Max Overhang (m)		4.5	4.5
Max 1 st Tie Height (m)		6	6
Power supply		400 V -50 Hz. 3Ph	230 V -50 Hz. 1Ph
Rated Power (kW)		3.7 (TP) / 4.4 (MH)	1.5
Rated current (A)		11	9
Power consumption (kVA)		7.5	2.5
Type of mast		Triangular 350, tubular steel with intergrated bolts	

* Increased lifting height on request

TPL 2000 | TPL 2000 D | TPL 1800

		TPL 2000	TPL 2000 D	TPL 1800
Payload capacity (kg)		2000	2000	1800
N. of persons max (incl. on payload)	TP mode	7	7	7
N. of persons -	MH mode	0	0	0
Lifting speed (m/min)	TP mode	12	12	12
Lifting speed (m/min)	MH mode	24	24	24
Platform dimensions [W×L]		3.2×1.5	1.5×3.2	4.4×1.5
Max Lifting height (tied)		100*m	100*m	100*m
Max Tie distance (m)		7.5	7.5	7.5
Max Overhang (m)		4.5	4.5	4.5
Max 1st Tie Height (m)		6	6	6
Power supply		400 V - 50 Hz, 3Ph	400 V - 50 Hz, 3Ph	400 V - 50 Hz, 3Ph
Rated Power (kW)		2×3.8 (TP) / 2×7.6 (MH)	2×3.8 (TP) / 2×7.6 (MH)	2×3.8 (TP) / 2×7.6 (MH)
Rated current (A)		15.4 (TP) / 30.4 (MH)	15.4 (TP) / 30.4 (MH)	15.4 (TP) / 30.4 (MH)
Power consumption (kVA)		10.8 (TP) / 21.0 (MH)	10.8 (TP) / 21.0 (MH)	10.8 (TP) / 21.0 (MH)
Type of mast		Triangular 350, tubular steel with intergrated bolts (all models)		

* Increased lifting height on request.



Hoist & Mast Climbing Working Platforms

Client Testimonials



“ I would like to thank the team at Byrne Equipment Rental for their efforts in completing the project at hand to our exact specifications and requirements. They delivered high quality equipment and we were impressed with their attention to detail, professionalism and commitment to getting the job done, safely and to our time scales. We look forward to working with them again in the future. ”

Site Manager
ALEC



“ I would like to share my thanks to the team at Byrne for their hard work and professionalism during our project, in particular for the after installation services. The team were efficient and quick to respond to any issues on site. They were approachable with great communication and always picked up contractor’s phone calls. Furthermore, the entire team were knowledgeable and had a clear understanding of the site conditions and protocols which made our lives a lot easier. We will definitely be working with Byrne again in the future. ”

Deira Waterfront Development Engineer
ALEC



“ We would like to extend a special thank you to the team at Byrne Equipment Rental for delivering a fantastic service for our project. Not only did they deliver high quality access equipment, but they went above and beyond in their efforts to execute the job at hand. It was a pleasure to work with the team who demonstrated that they are dedicated, hard-working and skilled at what they do. They strive to get the job done in a safe and timely manner and we look forward to working with them again in the future. ”

Section Head
Archidon



“ We were very impressed with Byrne’s quality of equipment, attention to detail and professionalism throughout our project. Nothing was too much trouble for the team who were proactive, thorough and ensured the project was executed to a high standard with health and safety at the forefront of their operations at all times. The outstanding point for us was the maintenance response team; whenever we had a breakdown, Byrne deployed their supervisor to site as soon as possible with the perfect solution. ”

Site Manager
ALEC-Zabeel

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