

# HOIST & MAST CLIMBING WORK PLATFORMS

*Access anytime, anywhere*



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
- Reliable
- Comfortable
- Productive
- Safe
- 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 bunded 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

\* 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
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

\*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

\* Increased lifting height on request.

# Technical Details

## TPL 500 & 300

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

\* Increased lifting height on request



# Client Testimonials



“ 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



“ I recently had the opportunity to use the BYRNE Single Hoist, and I must say, I am thoroughly impressed. This hoist not only met but exceeded my expectations in terms of performance and functionality. One of the standout features of this hoist is its ease of use. The controls are intuitive and user-friendly, allowing me to operate the hoist smoothly, even without prior experience. The adjustable lifting speed was also a great feature, enabling me to match the hoist's performance to the specific requirements of each task. Safety was a top concern for me, and the BYRNE Single Hoist didn't disappoint. It comes with a range of safety features, including emergency stop buttons and overload protection. This made me feel confident in using the hoist for a variety of lifting jobs, knowing that both my safety and the integrity of the hoist were being well taken care of. ”

In conclusion, I can wholeheartedly recommend the BYRNE Single Hoist.

**Construction Manager**  
McLaren Construction



“ 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



“ We have been thoroughly impressed by the speed by which the entire Byrne team were able to materialize our project expectations into the installation on-site of the requested mast climbers. On-site this best quality equipment has been performing to our requirements backed up by extremely skilled supervisors & technicians who operates with the highest levels of safety & integrity. Looking forward to working with Byrne for more projects in the future. ”

**QA/QC Manager**  
Gulf Asia Contracting.

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