

AMCH

A Mini Crane Hire Company Limited



Risk Assessment / Method Statement / Lift Plan

Lifting of doors using a compact crane with eye bolts and slings

TA Knox, 38 Mosley street, Manchester, M2 3AZ

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Prepared for :	TA Knox
Prepared by:	Connor Foster
Date of Operation:	TBC



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www.amchire.com
0844 770 6774
0844 770 6775**

The Lift, Items required to be checked by AMC Hire desk

Description	Quantity
Hoeflon C6 (no fly jib)	1
0.5m 1t round slings	2
Eye bolts	2
2t bow shackles	2

**All certification will be provided for the above equipment upon the day of delivery –
should this be needed prior to delivery please contact the AMC Hire office on the
contact options listed below**

**Personnel provided by AMCH will be fit for purpose and ready to work, with the correct
training for the equipment listed in this lift plan**

Name: A Mini Crane Hire Company trading as “AMC Hire”
Head Office: Unit 7D, Academy Business Park, Lees Road, Knowsley, Liverpool, L33 7SA
Telephone: 0844 770 6774
Email: info@amchire.com

Name	Occupation / Role	Signature	Date

Contact Details

Contract No:		Date of Risk Assessment: 08-09-2022
Appointed Person carrying Assessment Connor Foster		Time of Assessment: 11:17
Client: TA Knox		
Office Contact: Stuart Knox	Phone: 07973 108 697	Fax:
Site Contact:	Phone:	Fax:
Site Address:		
Description of lift:		

Details of Loads

Max Weight:	Door: 500kg max HB: 30kg Shackles: 2kg Eyebolts: 2kg Slings: 1kg Total load: 535kg		
Dimensions:	Various		
Position of C of G:	Centre		
Height of lift worst	4.5m to lifting position		
Date of lift:	TBC		
Time of lift:	8:00am		
Monetary value of load:	Unknown		

Details of Cranes

Make & model:	Hoefflon C6		
Radius:	5m		
Jib length:	6m		
Capacity:	930kg		
Utilization:	57%		
Outrigger spread:	3962mm x 2530mm (min)		
Outrigger load (kgf):	1708kgf		
Outrigger mats:	400mm x 400mm		
Max. ground bearing:	1.07kg/cm2		
Counterweight:	N/A		
Weight of crane:	2600kg		

Ground Conditions (Visual assessment)

Access / egress for crane & Transport:	Access in front of doors		
Lifting position:	see sketch below		

Lifting Accessories (Include Certificate details)

Vacuum lifter:	Slings (webbing) : 0.5m 1t round slings x2
Slings (chains):	Shackle: 2t bow shackles x2
Outrigger mats: 400mm x 400mm	Other Accessories: eyebolts x2

Identification of Hazards

Proximity Hazard	Present?
Overhead power lines	N
Other overhead obstacles	Y
Underground services	N
Excavations	N
Unstable / Soft ground	N
Hazardous chemicals / materials	N
Confined working area	N
Restricted access – width	N
Restricted access – height	N
Other vehicles	Y

Proximity Hazard (cont.)	Present?
Other hazards identified	Y
Suitable Lighting of area.	Y
Restricted Access and Egress	N
Load Hazard	
Slinging difficulties	N
Top heavy	N
Sharp edges	Y
Other hazards identified	N
Night Working	N

Assessment of Risk

Hazard Present	Risk	Persons at Risk	Action to Avoid or Reduce Risk
Load to fall	Serious injury Death Damage to property	Site personnel	The load will be attached to the crane slings in a basket configuration, to shackles and eyebolts. Client to confirm load stability prior to lifting
Other overhead obstacles	Serious injury Death Damage to property	Site personnel	Door set back 1.6m. All crane movements will be under direction from a CPCS A40 slinger signaller.
Tracking routes	Damage to property	N/A	Crane tracking operations to be conducted by a qualified operator. All crane movements to be controlled by the lift supervisor. All tracking routes to be protected as required using tracking mats. Crane supervisor to ensure compliance.
Failure of lifting equipment	Serious injury Death Damage to property	Site personnel	Lifting equipment is to be certificated and inspected regularly as per LOLER Regulations and BS7121. Slinger signaller will carry out a visual inspection prior to use. At NO point will any person stand under a suspended load.
Plant and machinery	Serious injury Death Damage to property	Site personnel and General Public	Plant and machinery to be inspected and serviced regularly as per PUWER and LOLER regulations and BS7121
General Public/other site personnel	Serious injury Death Damage to property	General public	General public/other site personnel excluded from the lift area exclusion zone in place, load or any part of crane will not over-sail the site boundary
MEWP in use	Serious injury Death Damage to property	Site personnel	The crane operator and supervisor to monitor MEWP movements and make MEWP operator aware of crane movements to avoid collision
Site traffic	Serious injury Death Damage to property	Site personnel	The lifting operations will take place in an exclusion zone
Struck by load	Serious injury death Damage to property	Site personnel and General Public	Full Exclusion zone around the lifting area. No personnel under suspended load. Crane movements guided by atrained signaller
Slips Trips & Falls	Personal Injuries	Site personnel	All work areas to be kept clear of obstructions, and waste materials disposed of properly.
Collision with moving vehicle	Serious injury death Damage to property	Site personnel	Crane operator to be banked at all times. Exclusion zone around crane
Sharp Edges	Cuts and grazes	Site personnel	Gloves to be worn when handling load.
Mobile Phone Use	Distraction From the lifting operation	Site personnel	Mini Crane personnel will have mobile phones switch off. Site mobile phone policy will be followed at all times.
Load visibility from the crane	Serious injury death Damage to property	Site personnel	Verbal signals will be used the load will be in view of the crane operator at all times. If this cant be achieved then 2 way radios must be used in accordance to BS7121. 3 to 5 second rule applied.
Weather/Wind/Lightning	Load may become unstable and fall Serious injury death Damage to property	Site personnel	The crane operator /Lift supervisor to liaise with site supervisor if the conditions are deemed to be severe, the crane operator/lift supervisor will stop all lifting operations until deemed safe. Max wind speed for lifting with vacuum is 8m/s. Max wind speed for the crane is 10m/s. Lift supervisor to monitor weather conditions, wind speed to be measured on a hand held anemometer, manufacturers guidelines must be followed regarding weather conditions
Excavation	Crane overturn, excavation bank collapse, Serious injury Death Damage to property	Site personnel and general public	Crane must be set up a minimum of 2m away from edge of excavation. Crane must not drive near excavation.
Underground services	Crane overturn, excavation bank collapse, Serious injury Death Damage to property	Site personnel and general public	Crane will not set up outriggers on any services present. Lift plan to be checked against drainage plan and approved by main contractor before lifting takes place. Crane must not set up with outriggers on drain covers

Ground bearing pressures	Crane overturn, excavation bank collapse, Serious injury Death Damage to property	Site personnel and general public	Ground bearing pressures are supplied in this lift plan. These pressures to be confirmed acceptable by the main contractor prior to the crane rigging according to the berthing study
Crane breakdown	Serious injury death Damage to property	Site personnel	Engineers will be on standby in case of breakdown these can be contacted on 0844 770 6774
Vacuum lifter breakdown	Serious injury death Damage to property	Site personnel	Engineers will be on standby in case of breakdown these can be contacted on 0844 770 6774
Suspended load (crane failure)	Serious injury death Damage to property	Site personnel and general public	After Engineers have been contacted all personnel will vacate the lifting / Exclusion zone. The area will be monitored by Lift supervisor to prevent unauthorised access. Access will only be granted once the crane has been fixed and deemed safe by the crane engineers
Glass to fall from stillage	Serious injury death Damage to property	Site personnel	Vacuum lifters must not be left attached on glass units without being attached to the crane. Installation teams (client) are responsible for stillage movement, location (even ground), glass security and prepping prior to and during lifting operations.
Lifting from a stack. Load dislodgement	Serious injury death Damage to property	Site personnel	AMCH recommendation that all glass units are individually banded to prevent load displacement. When lifting from a stack the lift supervisor to instruct all personnel to stand away from the stack in case of adjacent materials or objects being displaced, as recommended by BS7121 13.3.2 Check to be made by the lift supervisor as to whether the point of attachment to the load is vertically above its centre of gravity. Hoist ropes hang vertically Vacuum fitted to glass unit before the install team cut / remove banding as recommended by AMCH directors
Site collisions	Serious injury death Damage to property	Site personnel	During pauses in the lifting operation or on completion of the lifting operation, the crane and its components should be positioned to ensure that collisions can not take place
Crane crush zones	Serious injury death Damage to property	Site personnel	The crane path and position to have a clearance of no less than 600mm between any moving parts of the crane.. Where it is not reasonably practicable to achieve this clearance, precautions should be taken to prevent access. Barriers to be in place, lift supervisor to ensure compliance
Hook loaded incorrectly / Overcrowding / Hook strained	Serious injury death Damage to property Load to fall	Site personnel	Slings to be encage in the seat of the hook. Sufficient size shackles to be used or master link
Hydraulic And Fuel Leaks	Risk to environment pollution of water ways Impact on wildlife	N/A	Fully provisioned spill kit to be kept with all equipment. – minimise working quantities
Operational Requirements:	Exclusion zone around the lifting area Area to be clear prior to cranes arrival for rigging Crane team will be identifiable by orange PPE (Hi-vis, hat etc) Operators to arrive to site fit and ready to work with sufficient rest and correct PPE Load to be made free and ready to be lifted		

Lifting Plan Method Statement

Responsibilities

A Mini Crane Hire Company will undertake the responsibilities of this lifting operation as defined in CPA Standard Terms and Conditions. In accordance with:

- BS 7121 Safe Use of Cranes & Lifting.
- HSAW etc Act 1974.
- Lifting Operations & Lifting Equipment Regulations 1998 (LOLER).
- The Provisions & Use of Work Equipment Regulations 1998, (PUWER)
-

The responsibilities of the **Customer** are: to provide Safe access and egress for crane, support vehicles and staff. A comprehensive and accurate schedule of weights and dimensions of all items to be lifted working area is cordoned off.

Personnel

A Mini Crane Hire Company will provide the following personnel, complete with relevant personal protective equipment. The duties of these people will be as defined in British Standard 7121:

Title	Name
Appointed Person	C Foster
Crane Supervisor	Tbc by AMCH Hire desk
Crane Operator	Tbc by AMCH Hire desk

Title	Name
Slinger(s) Signaller	Tbc by AMCH Hire desk

Note: *The appointed person may decide that one person, can carry out more than one duty.*

Lifting Accessories

The lifting accessories, as detailed previously, will be provided by the A Mini Crane Hire Company, complete with all statutory documentation and certification.

Weather Conditions

The Appointed Person or, in his absence, The Crane Supervisor, will ensure that the lifting operation only takes place if the weather conditions are within the limits recommended by the crane manufacturer.

Lightning

Should lightning be present or imminent, works are to cease immediately making sure the crane is in a safe lowered position. Once the lightning has passed the appointed person or crane supervisor must establish when it is safe to continue crane operations.

Ground Conditions

Point loads and ground bearing pressures have been provided

TITLE	NAME	RESPONSIBILITY
Appointed Person	C Foster	Responsible for planning a safe system of work for the lifting operation and ensuring its implementation and the continued adherence of all personnel involved in the operation. The A.P may delegate the duty but not the responsibility
Lift Supervisor		Ensure that lifting operations is carried out in accordance with the lifting plan and method statement developed by the A.P ensure tracking route and set up ground conditions are acceptable.
Crane Operator		To set up and operate in accordance with manufactures instructions and work to the lift plan
Slinger /Signaller		Responsible for directing the crane using agreed communication method. Responsible the load on the hook and attaching and detaching load and guild ropes.
Installation operatives		Clients operatives will be under the command /control of the lift supervisor during lifting operations.
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Method / Sequence of Operations

1.	All Personnel to arrive on site at specified time to receive site induction or will have been inducted
2.	Lift supervisor / crane operator to brief (toolbox talk) all personnel on lifting plan and carry out walk through all documentation will be presented to the site management (or will have already been presented)
3.	All personnel to have all relevant PPE
4.	All test certificates (inc. lifting tackle or Accessories) to be checked by Crane supervisor/Operator
5.	Crane to be rigged as shown on the berthing sketch below and exclusion zone erected
6.	Crane to be rigged as manufacturer's instructions, the daily check of the crane will be carried out (this will be recorded and issues to be reported)
7.	Lift supervisor /crane operator to check crane has been rigged correctly and load is suitable for lifting / visual check of lifting equipment will be carried out (daily check will take place)
8.	Signals will be verbal due to proximity
9.	Crane operator to extend boom to required height and radius to perform a dry run of operations
10.	The crane will elevate and manoeuvre the hook into position at the load to be lifted
11.	Eyebolts will be fitted to the doors in the section that will be removed.
12.	Shackles will be fitted to the eyebolts
13.	The slings attached to the shackles using a basket hitch
14.	The crane operator / Lift supervisor will check the load and will take the weight. Lift supervisor to check weather and load stability Load will be made free from its aperture by the client.
15.	The door will be lifted while a trolley is positioned beneath the door
16.	The load will be lowered slowly on to the trolley. The crane will then lower the load so the door moves from a vertical position to a horizontal position
17.	When the load is secure the installation operative will remove the slings
18.	The crane will de-rig and relocate to the next lifting position

19.	Operations 5 to 19 will be carried out until all the loads have been installed
20.	On completion of each days lifting operations the lift supervisor will debrief all personnel involved in the lifting operations

Daily Lift Plan and Team Briefing Attendance Sheet (Toolbox talk)

Briefing Content	
Briefer / Lift Supervisor Name:	
Briefer / Lift Supervisor Signature:	
Date of Briefing:	

I confirm that I have attended and understood the content of the briefing given, including the outcomes and consequences of the related risk and environment

I also confirm that, where required I have received a copy of the relevant Safety and Environmental Responsibility Statement.

I also confirm that questions I have raised during the briefing have been answered to my satisfaction.

[illegible]

Lift supervisor pre-start checklist			
	Check	Yes	No
1	Has Lift Plan Been Approved by AMC Hire?		
2	Has lift plan been passed by main contractor?		
3	Has the lift supervisor walked the access /egress route with operator and client to ensure suitability?		
4	Has lift supervisor visually assessed and accepted ground conditions are suitable for crane set up and operations?		
5	Is the lifting area suitable for continued lifting operation?		
6	Has lifting equipment and accessories been inspect prior to use for legislation and fitness for use?		
7	Client accept responsibility for stillage movement, location (even ground), glass security and prepping prior to and during lifting operations. I.E. Once glass has been lifted from stillage by AMCH, it is the install teams responsibility to ensure glass is secured appropriately.		
8	Are all control measures in required by the lift plan in place?		

*please tick the appropriate box relating to the question.

Name of lift Supervisor monitoring Lift Plan	
Signature of Lift supervisor	
Date of Signature	

Lift Supervisor to Complete Closeout Report Below and Provide Feedback on Lifting Operation

Appointed Person's Acceptance of Responsibilities

I confirm that the lifts have been planned and will be carried out in accordance with current legislation and British Standard 7121 and that I accept responsibility for the preparation of this Risk Assessment and Method Statement.

Signed:



Date: 08/09/2022

Lift Supervisor's Acceptance of Duties

I confirm that I have been fully briefed on the contents of this Risk Assessment and Method Statement and that I accept the duty of ensuring that the lift(s) will be carried out in accordance with the method and procedures set out in this document.

Signed:

Date:

I confirm I have read and fully understood the above Risk Assessment / Method Statement.

Name	Occupation / Role	Sign	Date

By signing the above table you confirm that you have read and fully understood the above Risk Assessment / Method Statement.

Additional Information

PERFORM CALCULATION

Machine:

C6

Load:

550 kg

Main boom angle:

35°

Jib present:

No

Jib angle:

35°

Jib extended:

Extended

Ballast position:

Extended

Working radius (turntable to load):

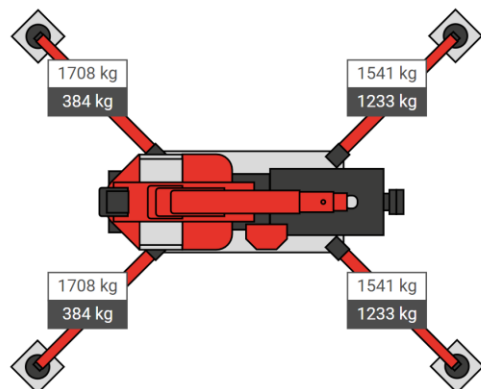
5 m

Slewing angle:

0°

Outrigger position:

Retracted



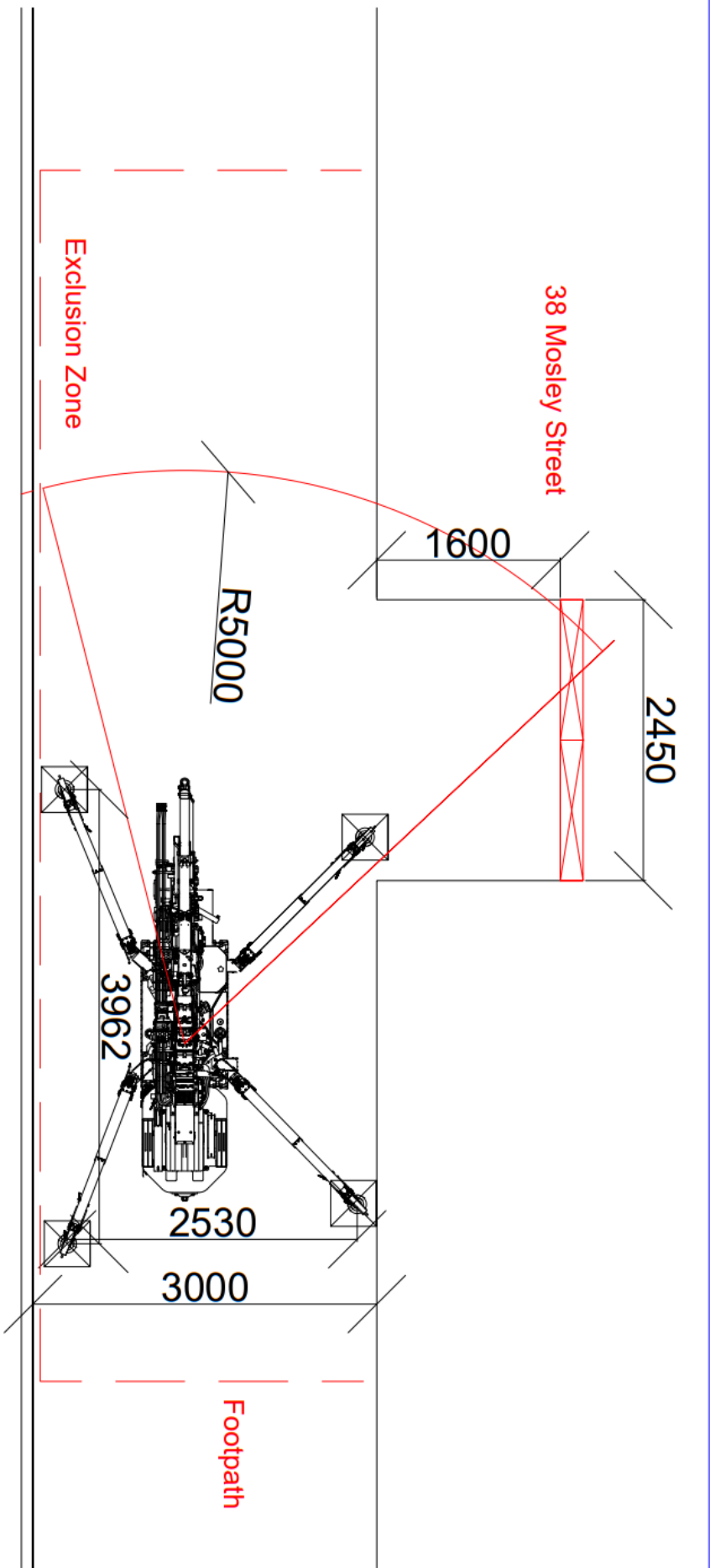
PRINT

RECALCULATE

Legend: Max. value Calculated value

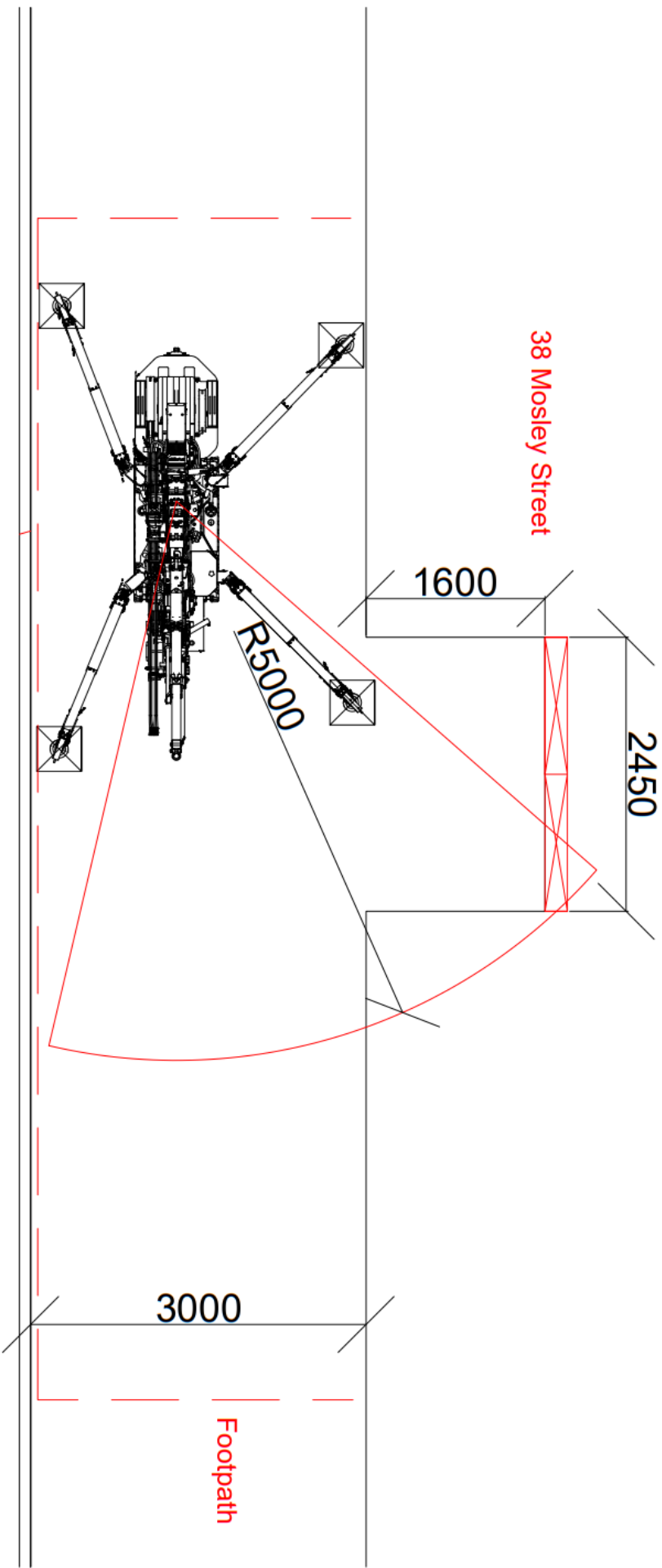
▲ This calculation is indicative, no rights can be derived from it.

Amendment Page

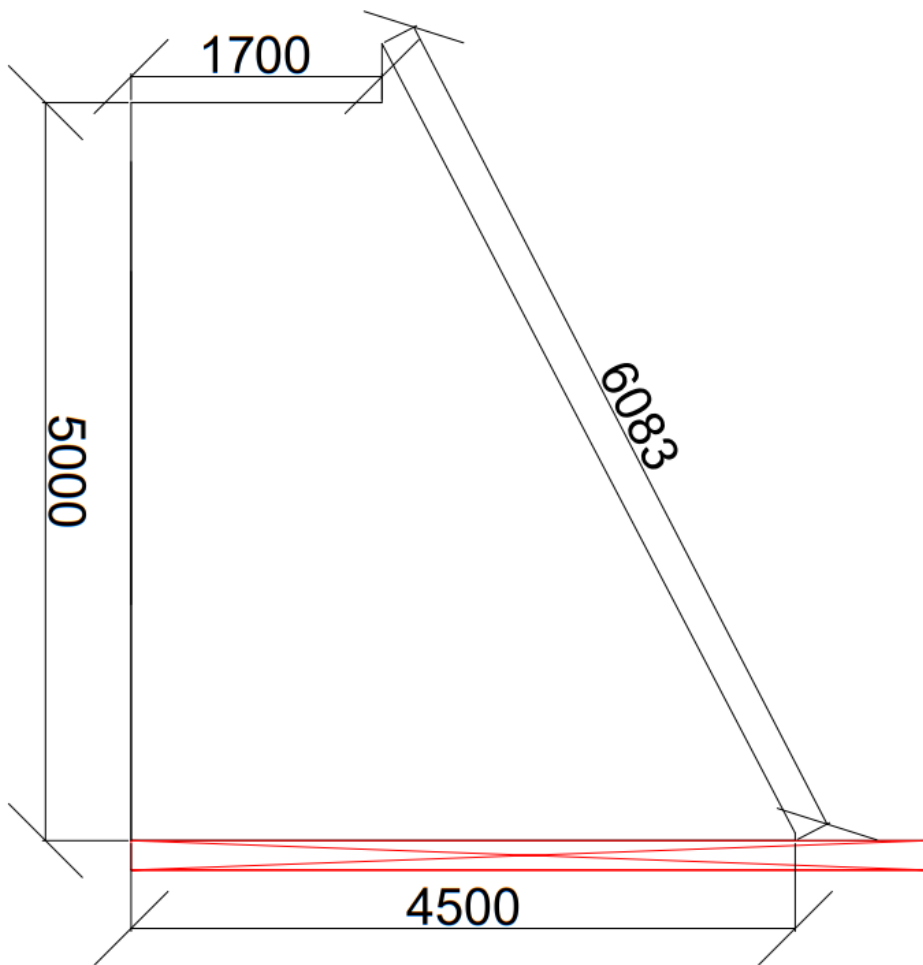


Client: JA House		Date: 08/08/2022
Site Address: 38 Mosley street, Manchester, M2 3JZ		Drawn: C. Foster
Job Description: Contract Lift		Scale: DNS
Client's Drawing Reference No: DWG-001		A SUITABLE HARD STANDING AND LEVEL AREA TO BE PROVIDED TO SUPPORT CRANE LOAD PROPOSED





CLIENT: JA Kiron		DATE: 08/09/2023
SITE ADDRESS: 38 Mosley street, Manchester, M2 3AZ		OWNER: C. Foster
JOB DESCRIPTION: Contract Lift		SCALE: DNS
CLIENTS DRAWING REFERENCE: N/A DWG-001		A SUITABLE HARD STANDING AND LEVEL AREA TO BE PROVIDED TO SUPPORT CRANE LOAD PROPOSED



CLIENT: JA Koon	DATE: 08/08/2022
SITE ADDRESS: 38 Moseley street, Manchester, M2 3AZ	DRAWN: C. Foster
JOB DESCRIPTION: Contract Lift	SCALE: DMS
CLIENT'S DRAWING REFERENCE No.: DWG.001	A SUITABLE HARD STANDING AND LEVEL AREA TO BE PROVIDED TO SUPPORT CRANE LOAD PROVIDED

HOEFLON C6

HOEFLON C6

Multifunctional, robust and very simple operation – that's the C6 compact crane in a nutshell. It's a best seller in the mini-crane category. This crane is ideal for placing glass and accurately positioning steel beams.

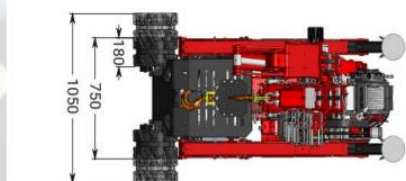
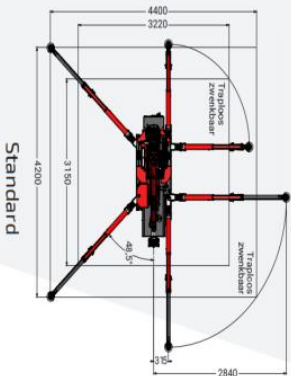
It is the only compact crane that can lift more than its own weight. This makes it possible for one crane to lower another into an underground space.

Standard configuration

Capacity	3,000 kg
Boom outreach	9.25 m, and 13.7 m with options
Hoisting height max. without jib	11.5 m, and 17 m with options
Transport dimensions LxWxH	2.9 m x 0.75 m x 1.82 m
Total weight	2,650 kg, and 2,850 kg with options
Boom angle	-5° to 83°
Boom system	cylinder and chain system
Slewing angle	360°
Driving speed	1st gear: 1.1 km/h 2nd gear: 2.2 km/h
Engine	Yanmar 3-cylinder diesel
Inclination angle, driving	20°
Outrigger pressure	2,800 kg per outrigger
Ground pressure, tracks	0.79 kg/cm²
Extendible, removable ballast	600 kg
Noise	75 dB

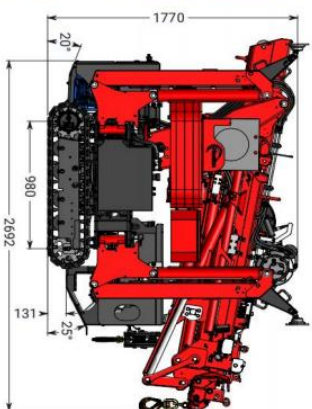
Accessories/Options

Dimensions including winch and jib	3.14 m x 0.75 m x 1.95 m
Fly jib	4.3 m
Winch	1,000 kg, 2,000 kg and 3,000 kg
Hoisting speed with winch	20.8 m/min
Winch cable	40 m long
Extension section	30° adjustable
Electric motor	230 V single phase
Outriggers	position measuring system for steplessly swivelling outriggers
Outriggers	hydraulically extending stepless bend
Slewing	unlimited
Crawler	non-marking
Crawler	pick and carry
Lighting	work light on boom and jib
Storage box	extra storage box
Speed controller	900 to 1,700 rpm

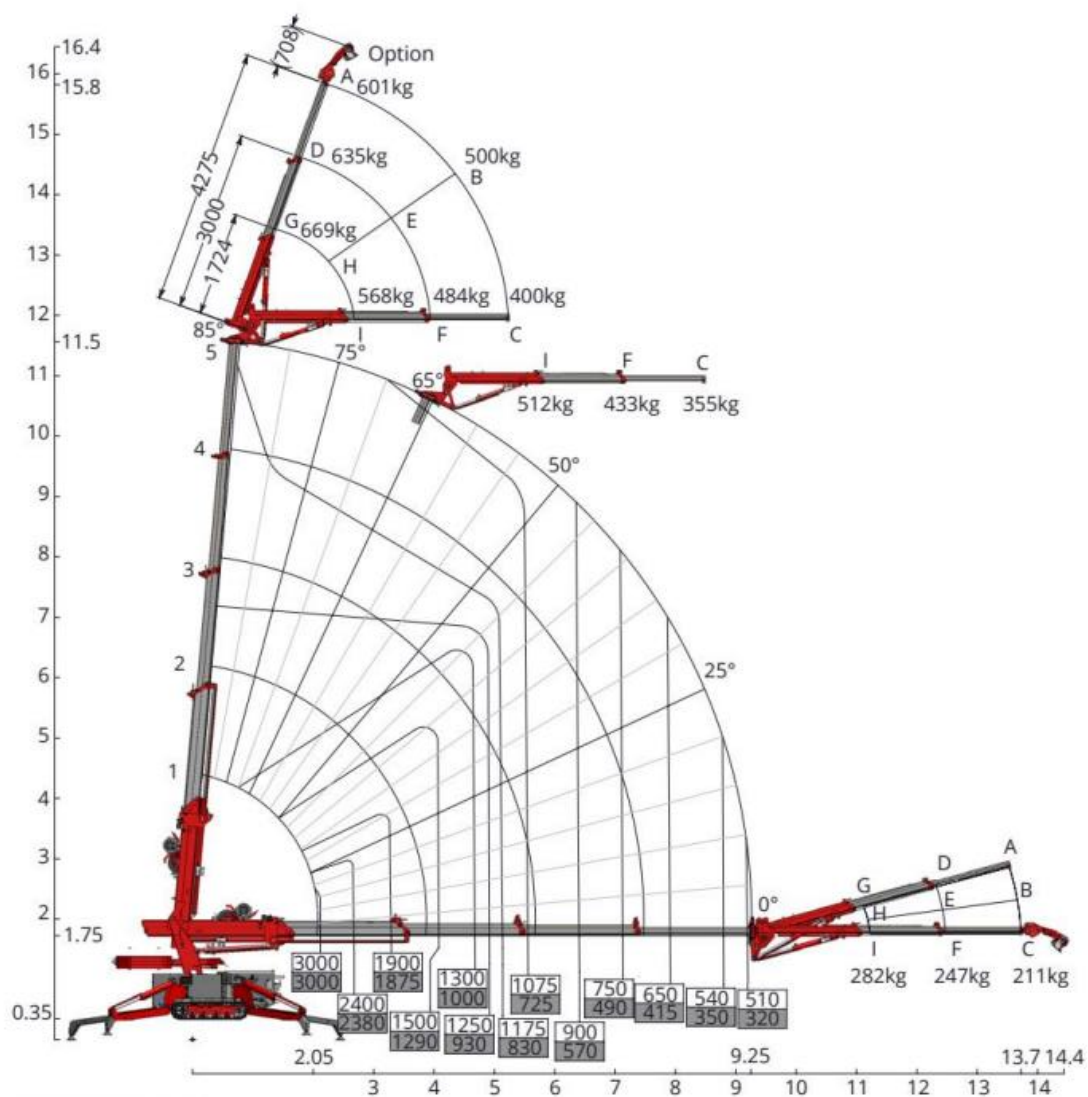


C6 SHORTLY

- › An easy to use, wirelessly remote controlled machine
- › Transport with a trailer, 3,500 kg
- › Electric motor 230 V
- › Very low machine weight with high hoisting capacity
- › The machine can be operational at 16 metres within three minutes



A Mini Crane Hire Company Limited



With fly-jib

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