

# KNAP ON CRANE FOLDABLE

Varenr. 4100 | 4110 | 4200 | 4250



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## **1. Introduction**

### **1.1. Purpose**

The purpose of this operating manual is to ensure correct installation, use, handling, and maintenance of the Knap On Crane.

The crane is equipped with an electric hoist and is designed for lifting machinery and tools. The Knap On Crane can be installed in vans, flatbed trucks, trailers, and many other types of vehicles and platforms.

This operating manual covers products with item numbers 4100, 4110, 4200, and 4250.

### **1.2. Availability**

The operating manual must be stored together with the crane and be easily accessible to operators and maintenance personnel.

### **1.3. Knowledge**

It is the responsibility of the employer (the crane owner) to ensure that all personnel who operate, service, maintain, or repair the equipment have read the operating manual; as a minimum, the sections relevant to their work.

Furthermore, all personnel who operate, service, maintain, or repair the equipment are obliged to independently seek information in the operating manual.

### **1.4. Version**

This user manual is a translation of the original Danish operating manual, version 02.01.

### **1.5. Manufacturer**

ASP Produktudvikling A/S is the manufacturer and producer of the Knap On Crane.

#### **ASP Produktudvikling A/S**

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## **2. Overview and Application**

### **2.1. General Description**

Never attempt to modify or adapt the product for any purpose other than that described in this operating manual.

In the event of modification or change of intended use, all warranties and manufacturer liability shall be void.

### **2.2. Machine Purpose and Intended Use**

The Knap On Crane is designed for lifting materials and tools in and out of vans, flatbed trucks, and trailers.

It may also be used for lifting in other locations, provided that a suitable mounting solution supplied by ASP Produktudvikling A/S is used.

#### **2.2.1. Prohibited Use**

The Knap On Crane must NOT be used for lifting persons.

## **3. Safety and Residual Risks**

This crane is manufactured in accordance with national and international standards and safety requirements.

Therefore, repairs may only be carried out by an authorized service technician, and only original spare parts must be used. Failure to do so may result in repairs that pose a danger to the user.

### **3.1. Safety Measures to Be Taken by the User**

No persons may be present within the working area of the equipment during lifting operations.

Always use the required personal protective equipment when handling the Knap On Crane. When operating the Knap On Crane, safety footwear is recommended.

### **3.2. Intended Use and Warnings of Hazardous Situations**

The Knap On Crane must only be used with original accessories and spare parts and only when correctly installed.

Never use the product with components other than those supplied with the product or specifically designed for the purpose by ASP Produktudvikling A/S.

Never attempt to modify or adapt the product for any purpose other than that described in this operating manual.

In the event of modification or change of intended use, all warranties and manufacturer liability shall be void.

During operation, the operator must remain attentive to any changes in functionality and ensure that any damage is repaired before the Knap On Crane is used again.

When lifting loads that exceed the crane's lifting capacity, the crane will automatically



stop. The hook can then only be lowered to relieve the load.

The crane must not be used for lifting persons.

No persons may be present within the crane's operating range during lifting.

### **3.3. Risk of Motor Damage**

The product must NEVER be connected to 110 V or 220 V AC.

Doing so poses a risk of serious motor damage.

## **4. Before Use**

It is the responsibility of the user to check that the Knap On Crane, including the electric hoist and wire rope, is not damaged before use. Ensure that the wire is correctly wound onto the drum.

The ball bearings on the base shaft must be inspected for cracks and excessive play.

If the operating manual specifies additional inspection points, it is likewise the responsibility of the user to carry out these checks.

The user must ensure that the crane is used correctly and not loaded beyond its specified capacity. If loads are lifted, they must be correctly secured and balanced.

If, during operation, the user becomes uncertain or feels unsafe about the situation, the Knap On Crane must be stopped

immediately by disconnecting the power supply or stopping operation.

The function of the control unit must be checked. When activating the control lever, the crane must respond correctly.

## **5. Operation**

1. The vehicle on which the crane is mounted must be positioned as level as possible, as inclination may affect the swing radius of the crane jib.
2. Place the crane into the mounted base plate and lock it securely.
3. Connect the crane to the vehicle's 12 V battery.
4. Raise the jib arm to a vertical position and then lower it to the horizontal position. Ensure that the electrical cable is not pinched.
5. When lowering the lifting hook, pull lightly on the hook to ensure correct unwinding of the wire rope and to check the crane's movement.
6. Once the load has been lifted into position, raise the lifting hook fully. Pull lightly on the hook during winding to ensure correct wire rope guiding.
7. After completing the work, retract the jib arm and fold the crane.
8. Secure the crane using the designated rubber strap.



9. Lock the crane to prevent rotation.
10. During transport, the crane must be secured in accordance with applicable legislation.

## 6. Training

### 6.1. Operators

Only operators or personnel who have read this operating manual are permitted to operate the crane.

## 7. Technical Data

### 7.1. Technical Specifications

The Knap On Crane, Foldable is available with different control options: either via a rocker switch on the electrical box, a wired remote control with flexible cable, or a wireless remote control.

#### 7.1.1. Rocker Switch



The rocker switch is moved to the right or left to lower or raise the hook.

The rocker switch is supplied as standard and is mounted on the Knap On Crane.



### 7.1.2. Wired Remote Control

See the labels on the remote control for operating instructions.

The remote control is equipped with a 5-meter flexible cable.



### 7.1.3. Wireless Remote Control

1. Wire in
2. Wire out
3. Power On / Off (press and hold the button for 5 seconds)



## 7.2. Machine Designation

The full designation of the machine is Knap On Crane Foldable.

## 7.3. Nameplate

The nameplate is located on the electrical box.

## 7.4. Noise

The equipment emits noise levels below 70 dB(A).

## 7.5. Service Life

> 10 years.

Regular service and maintenance extend the service life of the equipment. In addition, the legally required 12-month inspection must be observed and carried out by ASP Produktudvikling A/S or by an official service partner.

# 8. Handling, Transport, and Installation

## 8.1. Transport

During transport, the equipment must always be folded as much as possible.

The crane must always be locked securely into the base plate to prevent rotation.

During transport, the crane must be secured in accordance with applicable legislation.

## 8.2. Assembly and Installation

### Mounting Requirements:

- The base plate must be bolted securely using a minimum of 4 × Ø12 mm bolts, grade 8.8.
- The base plate must be mounted to the vehicle's or trailer's load-bearing frame so that forces are correctly distributed into the chassis.
- On vehicles with a weak floor structure, it is necessary to reinforce the area around the base plate.
- It is the responsibility of the installer to test the fastening and any possible deflection of the platform/floor under full crane load.

### Two Types of Base Plates Depending on Mounting Method:

- Downward fastening: Used where fastening through the floor is possible, e.g. wooden floors in trailers or flatbed trucks.
- Upward fastening: Used where penetrating the floor is not permitted, e.g. steel floors in vans or pick-ups.

### Important:

- No later than one month after commissioning, all fastening bolts must be re-tightened.
- If the power supply cable is extended, the positive conductor (red) must be a



minimum of 10 mm<sup>2</sup> to avoid voltage drop and reduced crane performance.

- The red (positive) and black (negative) cables must never be reversed, as this may disable the crane's safety functions.

### 8.3. Maintenance

Disassembly and repair of the crane may only be carried out by a technically qualified and properly trained person.

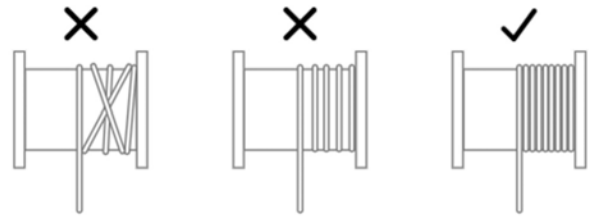
The electric hoist is largely maintenance-free. For long and trouble-free operation, it is recommended that the following tasks are carried out at least every 6 months:

- Retighten wheel and bolt connections.
- Inspect the crane, cables, hook, and wire rope for damage and wear.

#### 8.3.1. Wire

- The wire must be inspected regularly for breakage and wear and, as a general rule, replaced once per year or more frequently if required.
- Always use original a wire.
- To extend service life, it is recommended to lubricate the wire regularly with wire oil.
- No more than 7 meters of wire may be wound onto the drum.

- Always ensure that a minimum of 3 full wire turns remain on the drum during operation.
- Protect the equipment from frost and low temperatures, which may affect function and safety.
- Before each use, check that the wire is correctly wound, that the hoist is properly mounted, and that the control unit functions flawlessly.



#### 8.3.2. Base Shaft and Ball Bearings

- The ball bearings on the base shaft must be inspected regularly for cracks and play.
- To ensure optimal operation and service life, it is recommended to lubricate the bearings with ball bearing grease as required.

#### 8.3.3. Cleaning

Clean using water with mild soap and a well-wrung cloth. Avoid cleaning with running water. Do not use solvents or cleaning agents containing abrasive particles.

Maintenance primarily consists of regular inspection of the wire, ensuring that bolt



connections are tight, and checking individual components for damage and wear. Worn or damaged parts must be replaced before the crane is put back into operation.

#### **8.3.4. Storage**

If the Knap On Crane is not to be used for an extended period, it should be folded and covered, preferably using the dedicated protective cover.

The crane must be stored in a dry environment at room temperature to ensure optimal function and prolong its service life.

### **9. End of Use**

#### **9.1. Disposal and Environmental Considerations**

Oil residues are the only part of the Knap On Crane considered environmentally hazardous and must be disposed of in accordance with applicable regulations set by local environmental authorities.

All other components may be disposed of as metal and electronic waste.

#### **9.2. Environment and Responsible Recycling**

At ASP Produktudvikling, we take responsibility for the environment. Therefore, we offer to take back our products free of charge when a customer no longer has use for them.

Cranes and equipment that are still functional are inspected, serviced, and refurbished to extend their service life. In this way, we conserve resources and reduce waste while enabling the products to remain in use for additional years.

We believe that quality and sustainability can go hand in hand.

### **10. Service**

Service, spare parts, and the legally required annual inspection are carried out at the following address:

#### **ASP Produktudvikling A/S**

Tolstrup Byvej 7

9600 Aars

Or

By an official service partner

We carry out the legally required 12-month service inspection on all our cranes and lifting equipment. With a service inspection, you ensure that the equipment is safe, operational, and compliant with applicable regulations.

### **11. Contact Information**

ASP Produktudvikling A/S

Tolstrup Byvej 7

9600 Aars

Phone: 98 66 92 69

E-mail: [asp@asp-produkt.dk](mailto:asp@asp-produkt.dk)

[www.asp-produkt.dk](http://www.asp-produkt.dk)



## **12. Disclaimer of Liability**

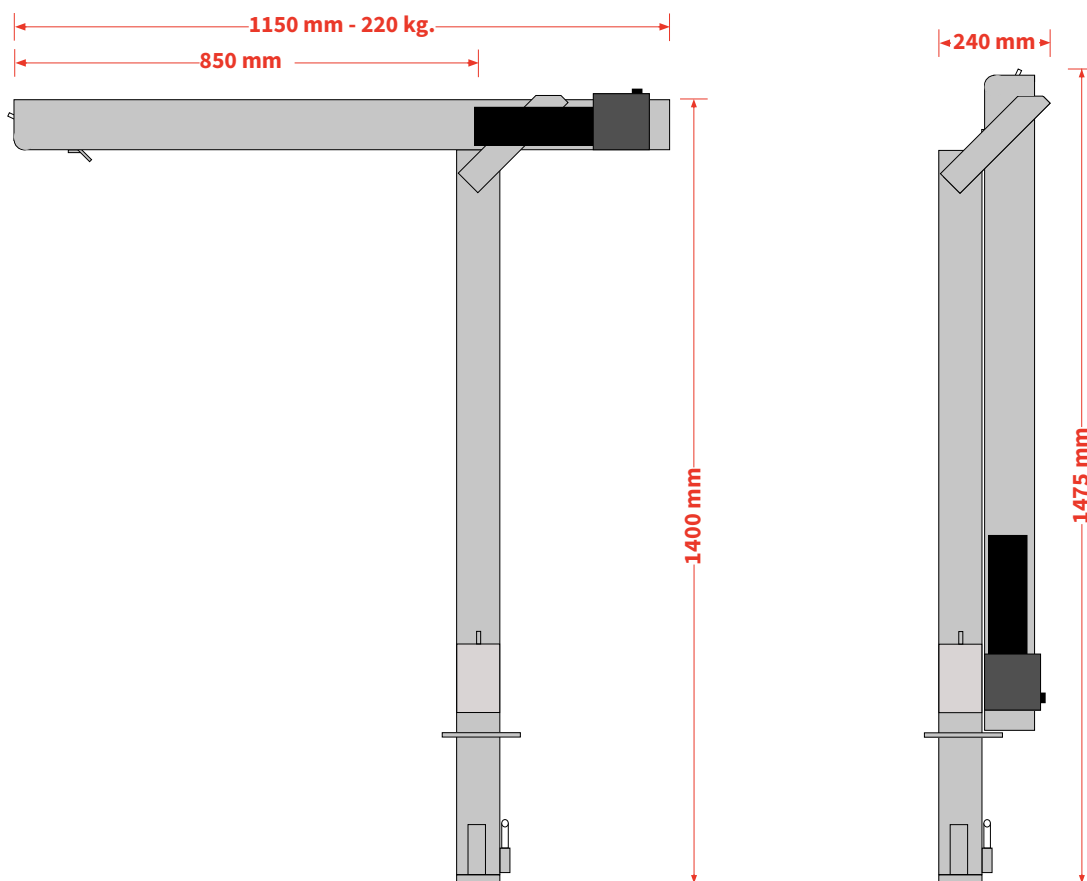
The user of the object on which the crane is mounted is responsible for ensuring that the object has sufficient strength to withstand daily loads as well as the additional load impact of 100 kg during a load test.

In the event of damage to the vehicle or trailer floor, suspension components, or similar parts during the load test or during use of the Knap On Crane, ASP Produktudvikling A/S disclaim all liability.



# SPECIALISTS IN LIFTING AND HANDLING EQUIPMENT

Everything in Small Cranes and Vacuum Lifters



## Knap On Crane Foldable

Compact and versatile solution for vans, flatbed trucks, and trailers. The crane is mounted tool-free in our universal base plate system and can be easily transferred between different vehicles or job sites. Equipped with a fixed boom that can be easily folded out for operation.

### Specifications

|                     |                    |
|---------------------|--------------------|
| Item No.            | 4100               |
| Lift                | Electric wirehoist |
| Extension           | Fixed              |
| Voltage/Consumption | 12V, max 29A       |
| Weight (kg)         | 22                 |



Lifting capacity: 220 kg



Portable without the use of tools



Galvanised for extended life.

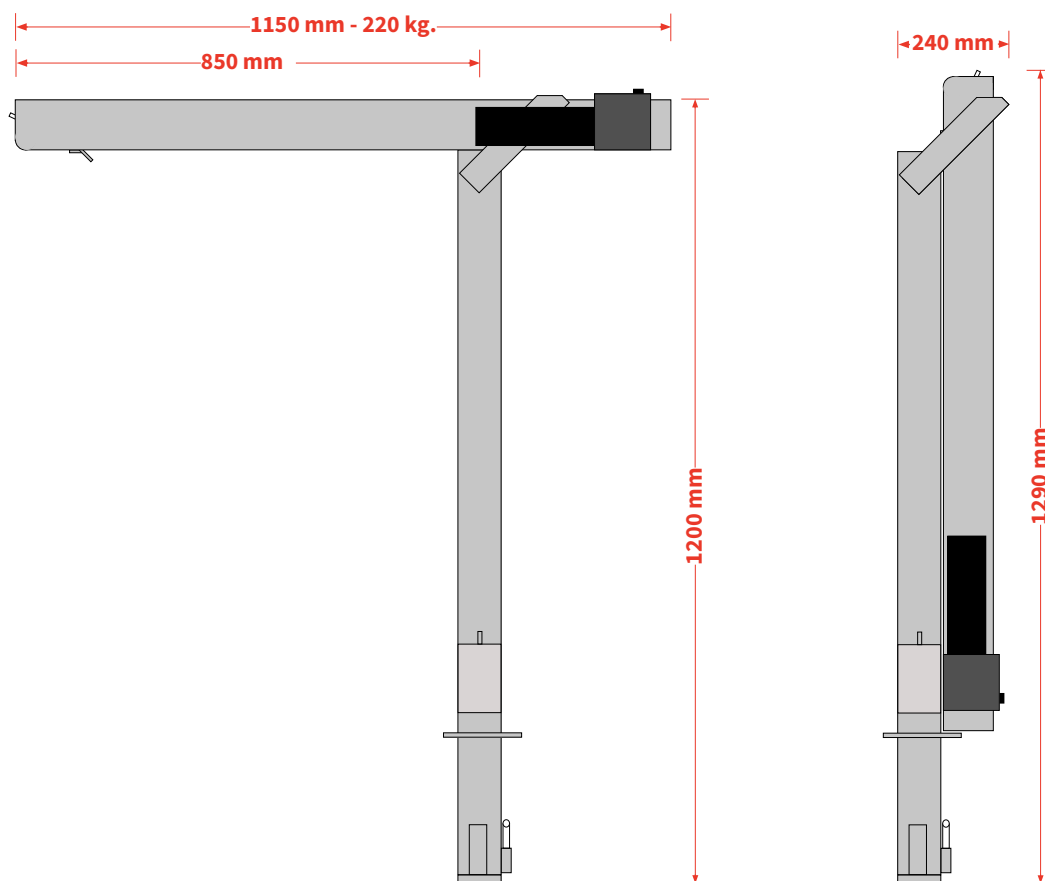


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# SPECIALISTS IN LIFTING AND HANDLING EQUIPMENT

Everything in Small Cranes and Vacuum Lifters



## Knap On Crane Foldable

Low-profile, compact and highly versatile crane designed for vans, flatbed trucks, and trailers.

The crane is mounted tool-free in our universal base plate system and can be easily relocated between different vehicles or job sites. Suitable for small vans.

### Specifications

|                     |                    |
|---------------------|--------------------|
| Item No.            | 4110               |
| Lift                | Electric wirehoist |
| Extension           | Fixed              |
| Voltage/Consumption | 12V, max 29A       |
| Weight (kg)         | 20                 |



Lifting capacity: 220 kg



Portable without the use of tools



Galvanised for extended life.



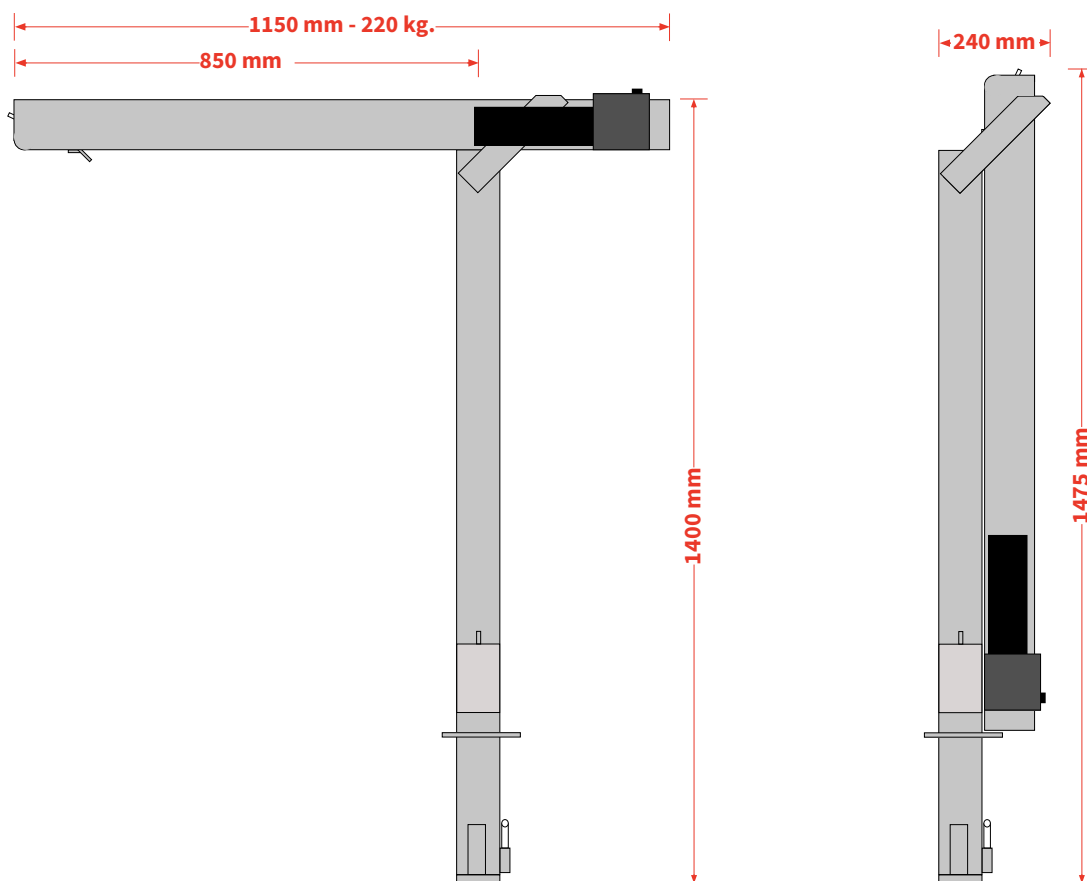
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# SPECIALISTS IN LIFTING AND HANDLING EQUIPMENT

Everything in Small Cranes and Vacuum Lifters



## Knap On Crane Foldable

Extra reinforced, compact and versatile solution for vans, flatbed trucks, and trailers. The crane is mounted tool-free in our universal base plate system and can be easily relocated between different vehicles or job sites.

### Specifications

|                     |                    |
|---------------------|--------------------|
| Item No.            | 4200               |
| Lift                | Electric wirehoist |
| Extension           | Fixed              |
| Voltage/Consumption | 12V, max 29A       |
| Weight (kg)         | 29                 |



Lifting capacity: 400 kg



Portable without the use of tools



Galvanised for extended service life.

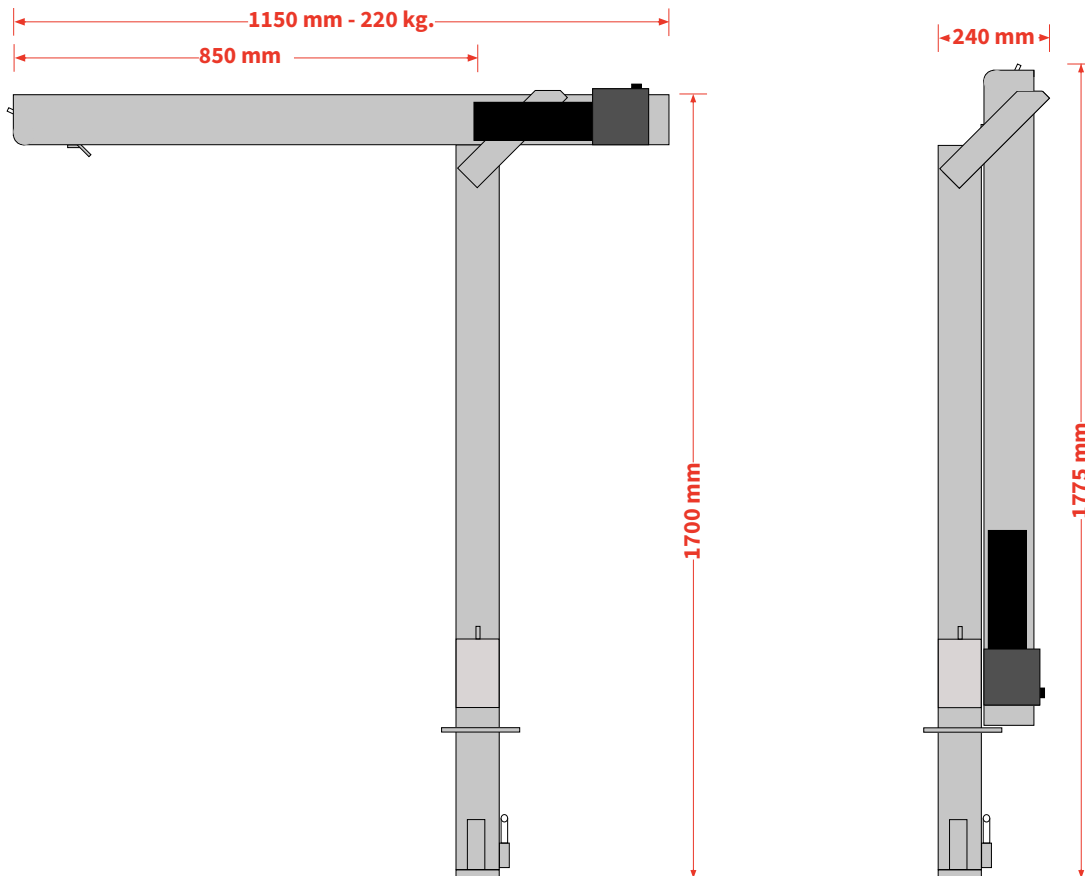


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# SPECIALISTS IN LIFTING AND HANDLING EQUIPMENT

Everything in Small Cranes and Vacuum Lifters



## Knap On Crane Foldable

High-profile, compact and versatile crane for vans, flatbed trucks, and trailers. The crane is mounted tool-free in our universal base plate system and can be easily relocated between different vehicles or job sites.

### Specifications

|                     |                    |
|---------------------|--------------------|
| Item No.            | 4250               |
| Lift                | Electric wirehoist |
| Extension           | Fixed              |
| Voltage/Consumption | 12V, max 29A       |
| Weight (kg)         | 25                 |



Lifting capacity: 80 kg



Portable without the use of tools



Galvanised for extended service life.



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