



# JIB CRANES

MOBICHAIN | MECHLINE PRO CRANE | EASYCRANE | MOBIARM | MECHCRANE

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 **movomech**®

# Jib cranes for all lifting needs

Movomech is a complete supplier of products and total solutions for professional lifting technology. And has been since 1986.

Our employees consist of people who are characterised by the typical Swedish qualities of inventiveness, pride and a belief that cooperation is the key to success. This way of thinking is reflected in our products.

Movomech's range of ergonomic jib cranes comprises a complete series of wall and pillar-mounted jib cranes, as well as complete lifting units with integrated lifting devices - balance lifters, chain hoists or vacuum lifters.

Several of the jib cranes can be supplied with a mobile platform, for easy repositioning to different workstations.



*...IS ECONOMICAL*

*” In the same way that the ergonomic problem means financial losses, great ergonomic work conditions can be reckoned in terms of profit and savings ”*

Annki Falck, ergonom, Volvo Cars



## The right material handling solution lifts your work environment!

Movomech's ergonomic material handling solutions contribute to healthier workplaces in industrial environments. By preventing musculoskeletal disorders, the chances for employees to thrive and for an efficient production increase.



## Ergonomics is economical

Several international studies show that investing in ergonomic lifting equipment results in a more efficient production process, fewer work injuries, improved quality and happier staff.

## Mobile solution with frequency-controlled lifting unit

### MOBICHAIN™

Mobichain is a unique product that combines the mobile articulated jib crane smoothness with fast, precise and stepless lifting movements via an integrated Mechchain Pro.

Height-adjustable floor pillar, mobile or fixed mounting, reach of up to 4 meters and a lifting capacity up to 125 kg is Mobichain an exceptional product for ergonomic and sustainable handling.

Mobichain combines function and ergonomics in a modern product design suited for the future demands and needs.



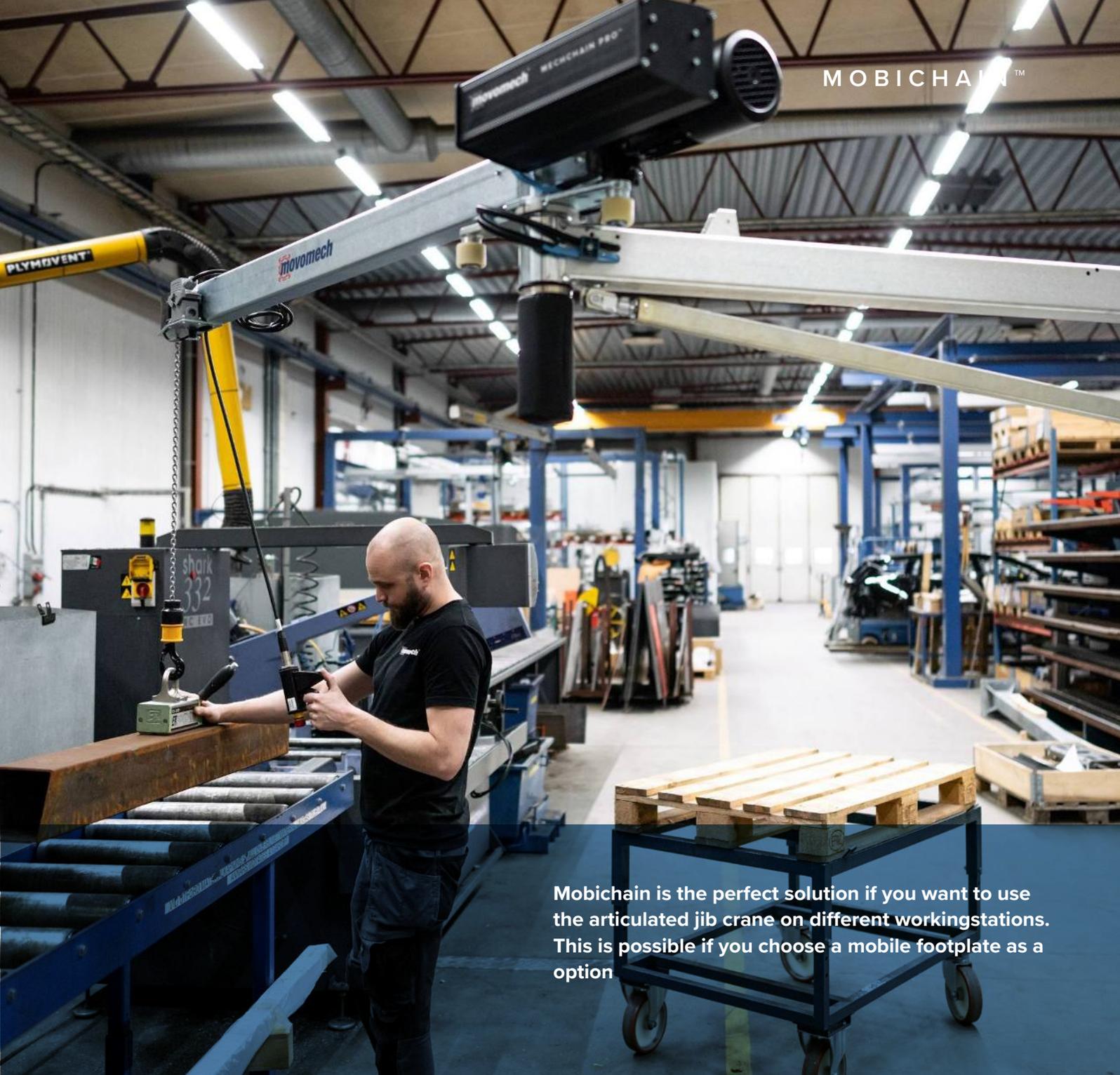
#### TECHNICAL DATA

Max. load	[kg]	55 - 125
Max. jib arm range	[mm]	2 000 - 4 000
Max. pillar length	[mm]	1 768 - 3 228
Stroke	[mm]	3 300
Voltage	[V]	1 x 230 V, N, PE
Fuse	AT	10



### Ergonomics in focus

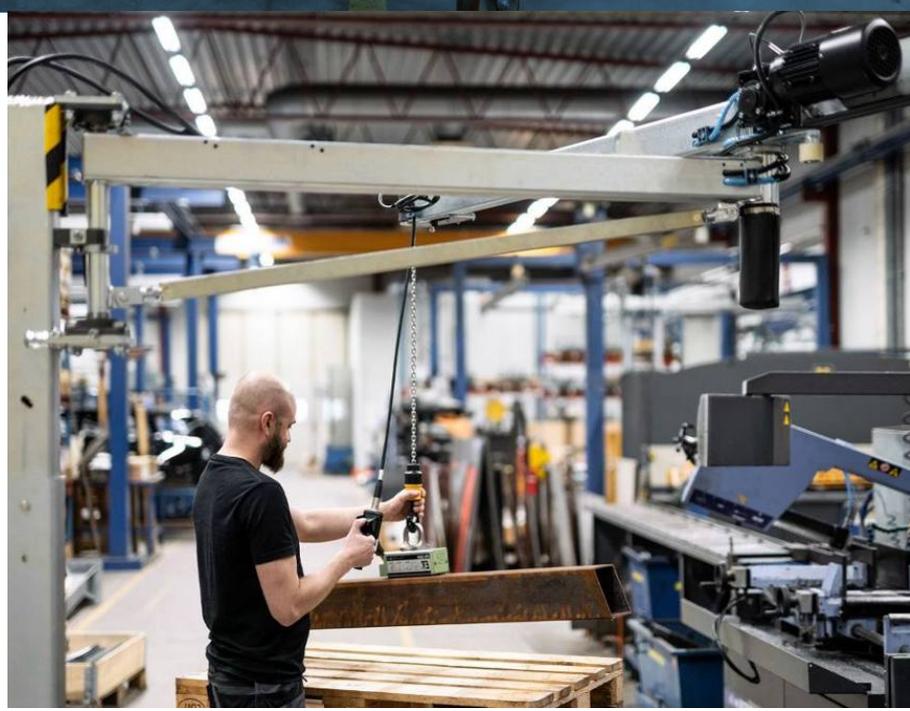
*The lifting and lowering movements are controlled via a joystick that can be free-hanging or integrated in a gripper.*



Mobichain is the perfect solution if you want to use the articulated jib crane on different workingstations. This is possible if you choose a mobile footplate as a option

## PRODUCT FEATURES

- Mobile solution with frequency-controlled lifting unit for smooth stepless lift- and lower movements
- High precision in combination with high lifting speed
- Control via joystick
- Compact, low construction height and silent working
- Easy to move with manual pallet truck
- Connect to 230 voltage



## Mobile articulated jib crane with balancer

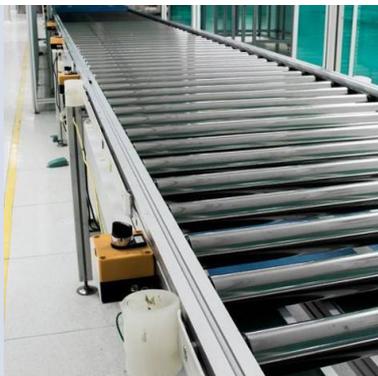
### MECHLINE PRO CRANE™

By combining the smoothness of the Mechline Pro™ balance lifter with the versatility of an articulated jib crane, we have created Mechline Pro Crane™ – a flexible lifting solution for many different industries.

Mechline Pro Crane™ is an articulated jib crane with an integrated pneumatic balancer that offers a generous reach of up to 4 meters and a height-adjustable floor pillar.

Add a mobile platform and you can easily move Mechline Pro Crane™ between different workstations – with a simple manual pallet truck!

Typical applications include light-weight lifting at assembly stations in the assembly and manufacturing industries. Mechline Pro Crane™ is also a flexible solution for material handling at transport and conveyor lines.



#### TECHNICAL DATA

Max. load	[kg]	50
Lifting stroke	[mm]	800 - 3200
Reach	[mm]	2000 - 4000
Pillar height	[mm]	1768 - 3228
Operating pressure	[bar]	5

#### Mechline Pro Crane™ has many beneficial features:

- Intuitive lifting of loads up to 50 kg
- Integrated air supply to pneumatic gripper tool
- Anodized and maintenance-free surface
- Durable lifting wire for use during up to 300 000 work cycles
- An adjustable safety function "anti-jump" locks the lifting motion in the event of uncontrolled lifting, for example, if the load is accidentally dropped
- Several different pneumatic configurations: 2-weight, 3-weight, direct control with speed handle
- Adjustable lowering speed (option)
- Load relief signal to the gripper tool, can be used to avoid an accidental drop of the load (option)
- Load limiting function for direct control (option)

**Mechline Pro Crane™ is the solution for an extremely smooth and intuitive load handling.**

# MECHLINE PRO CRANE™

Objects can be handled completely balanced, which means that when the operator releases the object, it stays at the same height.

An alternative is direct control via a control handle. The load can then instead be raised and lowered by means of the button controls, either in a free hanging handle or integrated in a gripper tool.

An optimal handling solution is often achieved by integrating the control handle into a tailor-made pneumatic gripper tool.



## Mobile jib crane with vacuum lifter

### EASYCRANE™

Easycrane™ is an intuitive and easy-to-use lifting device for quick and easy lifting. Easycrane™ consists of a flexible articulated jib crane with a vacuum lifter integrated in the outer jib arm.

With the aid of a variety of suction feet, it can lift loads of different sizes, shapes and weights.

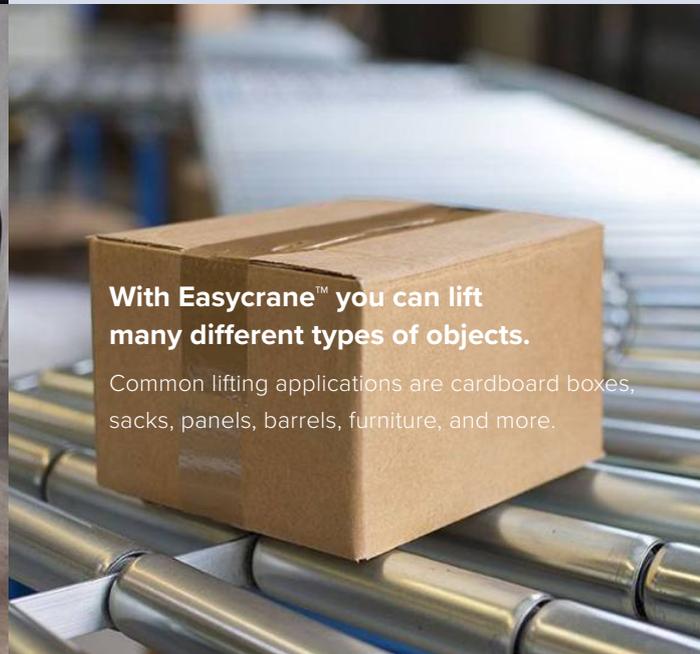
With a generous range and a height-adjustable floor pillar, it can be adapted to most workplaces. Add a mobile platform and you can easily move Easycrane™ between different workstations with a simple manual pallet truck.



#### TECHNICAL DATA

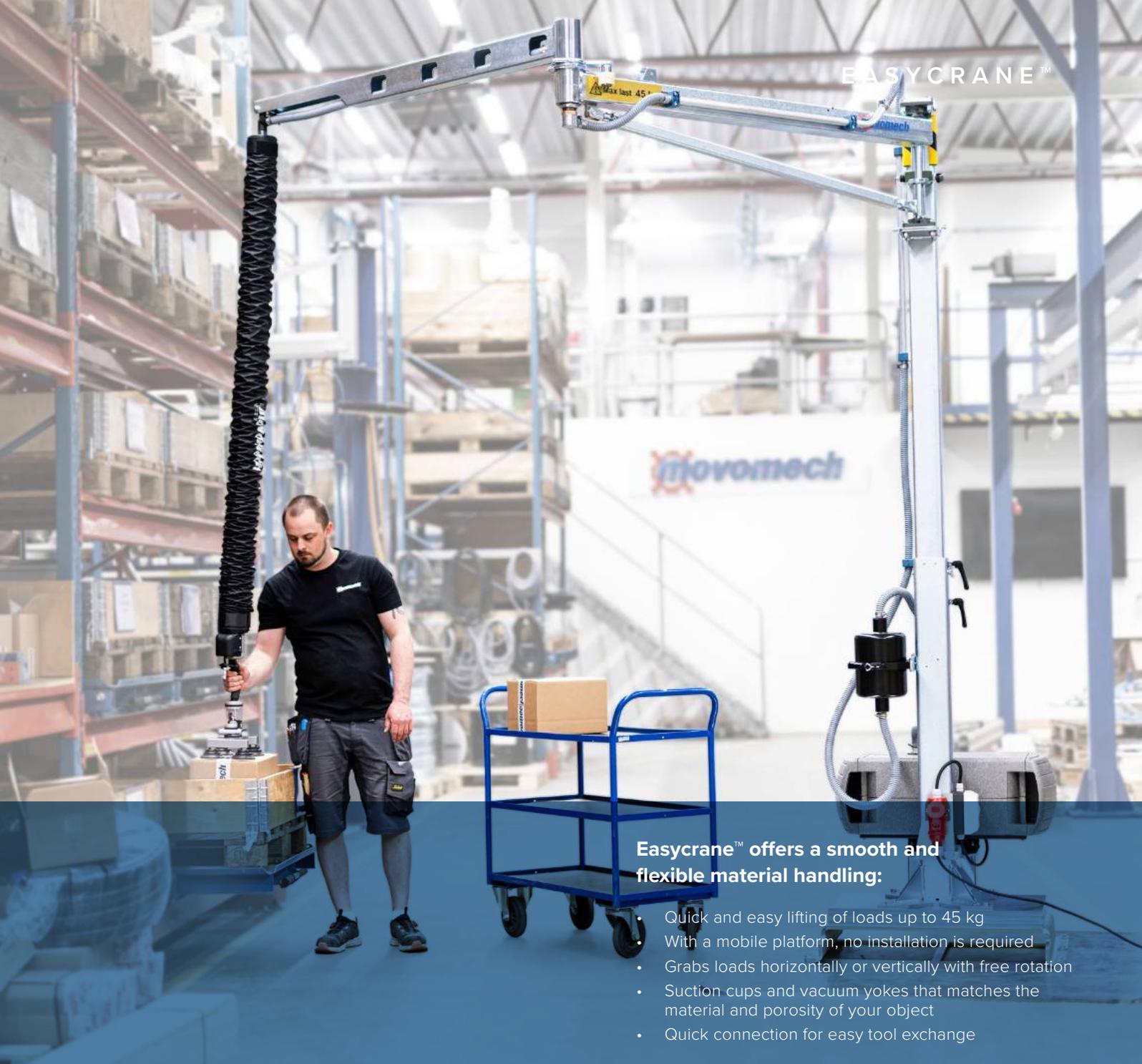
Max. load crane	[kg]	125
Max. load vacuum lifter	[kg]	5-80 <sup>1</sup>
Reach	[mm]	2000 - 4000
Pillar height	[mm]	1768 - 3228

<sup>1</sup> Depends on combination material + suction foot



**With Easycrane™ you can lift many different types of objects.**

Common lifting applications are cardboard boxes, sacks, panels, barrels, furniture, and more.



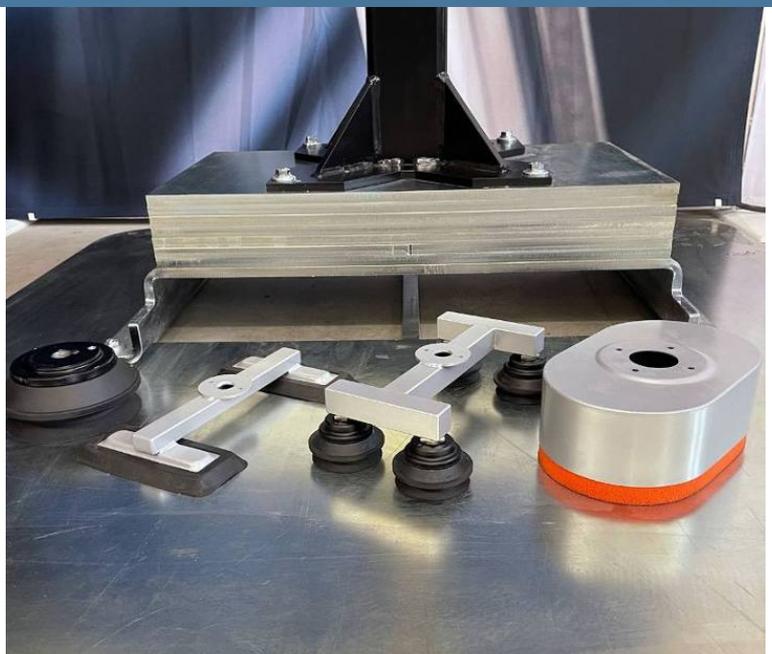
### EasyCrane™ offers a smooth and flexible material handling:

- Quick and easy lifting of loads up to 45 kg
- With a mobile platform, no installation is required
- Grabs loads horizontally or vertically with free rotation
- Suction cups and vacuum yokes that matches the material and porosity of your object
- Quick connection for easy tool exchange

### A large selection of accessories and suction feet

EasyCrane™ has a wide selection of different suction cups and vacuum yokes.

With a quick connection, the suction foot can be changed quickly and easily between work cycles.



## Flexible mobile articulated jib crane

### MOBIARM™

MobiArm™ is an ergonomic articulated jib crane that can be adapted to each individual workplace, with a reach of up to 4 meters, and a height-adjustable floor pillar.

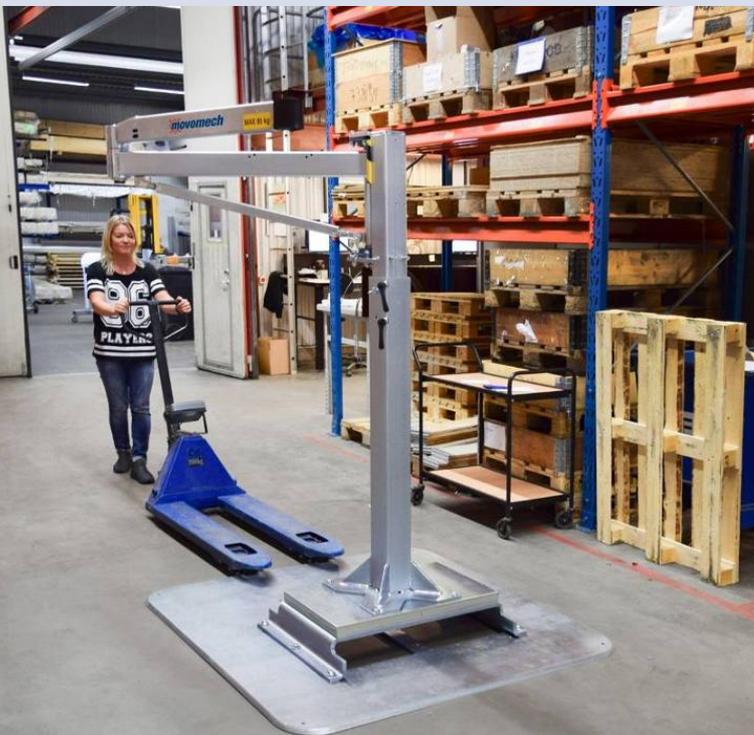
The flexible design of MobiArm™ is combined with the lifting device of your choice.

Add a mobile platform and you can easily move MobiArm™ between different workstations – a simple manual pallet truck will suffice!

MobiArm™ is equipped with an articulated jib arm with lengths between 2 and 4 metres. The arm rotation uses low-friction bearings making it very smooth and easy to use. The adjustable tower can easily be adjusted to the desired height, which is an advantage at workstations where the equipment needs to be adapted to different handling operations.



TECHNICAL DATA		50	65	80	90	125
Max. load	[kg]	50	65	80	90	125
Max. reach	[mm]	4000	3500	3000	2500	2000



### MobiArm™ offers practical and flexible material handling:

- Flexible and adaptable articulated jib crane
- Mobile handling solutions – no installation required!
- Can be used with mechanical, pneumatic or electric lifting device of your choice
- Standard configurations for integrated air or power supply
- Extremely easy to rotate and reaches a large working area – crane arm length of up to 4 meters



## Choose lifting device based on handling

Combine MobiArm™ with the Mechchain Pro II™ frequency-controlled chain hoist for high-precision lifting with excellent motion control.

Alternatively, MobiArm™ can be equipped with a 2-speed chain hoist for simpler types of lifting such as material stacking.

## Various design options

MobiArm™ is available in a variety of designs and can be installed in several ways.



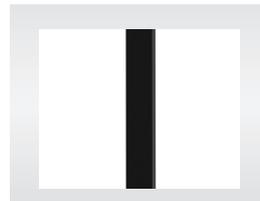
Wall-mounted



Floor-mounted



On a mobile platform



With a fixed pillar



With an adjustable pillar

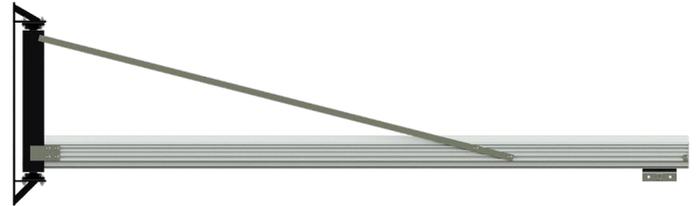
## Wall-mounted jib crane

# MECHCRANE™ LVS AVS

Mechcrane™ wall-mounted jib cranes LVS / AVS are the natural choice for ergonomic material handling where there is limited floor space and work is conducted continuously at the same workstation, such as during assembly work or when lifting to and from processing machinery.

Movomech's wall-mounted cranes are made of light and strong aluminium profiles from the Mechrail™ crane system range. The advantages of aluminium profiles and the high-quality bearings in the jib arms are many. The low weight and low friction provide smooth handling and favourable operator ergonomics.

What's more, the crane arms can be equipped with a number of different accessory components, such as cable trolleys, attachments for accessories, and more.



The crane arm is equipped with a sturdy and extremely easy-rolling aluminium trolley, fitted with high-quality wheel bearings for ergonomic material handling that is both quiet and smooth.

TECHNICAL DATA		LVS	LVS	LVS	LVS	LVS	AVS1	AVS1	AVS2	AVS2
Max. load	[kg]	30	40	50	63	110	125	150	200	250
Max. reach	[mm]	6000	5500	4000	4500	4000	4000	5000	4000	5000
Max. rotation	[°]	240	240	240	240	240	240	240	240	240
No. braces	[pcs]	1-2	1-2	1-2	1-2	1-2	1	2	1	2



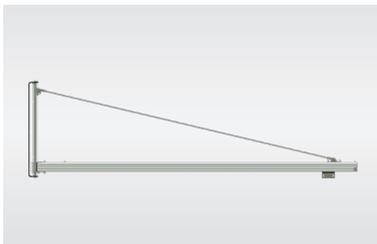
### Mechcrane™ wall-mounted jib cranes has many advantages:

- Aluminium profile in the crane arm gives a very low movement resistance
- Easy to mount on a wall or on a steel pillar
- Wall bracket in galvanized and maintenance-free design
- A silent and extremely easy-rolling load-bearing aluminium trolley is included
- A large selection of standard accessories: pneumatic hose, electric cable, cable trolleys, junction boxes, hydraulic dampers, etc

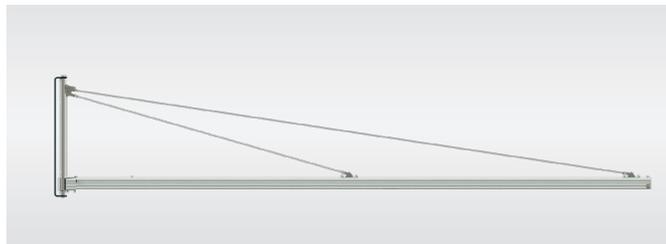


### Part of the workstation

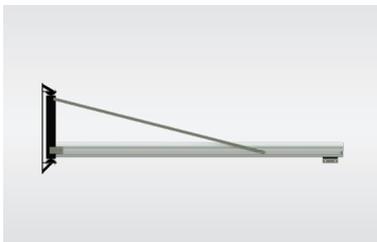
Wall-mounted jib cranes are often the natural choice where work is conducted continuously at the same workstation, such as during assembly work or when lifting to and from processing machinery.



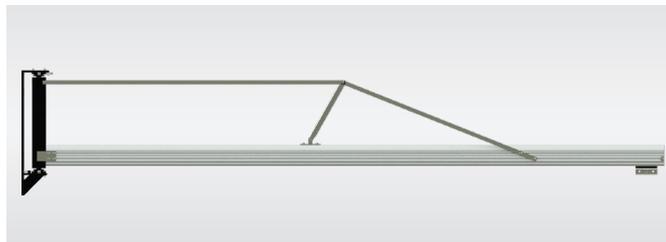
LVS  $L \leq 3$  m



LVS  $3 \text{ m} < L \leq 6$  m



AVS1/ AVS2  $L \leq 4$  m



AVS1/ AVS2  $4 \text{ m} < L \leq 5$  m

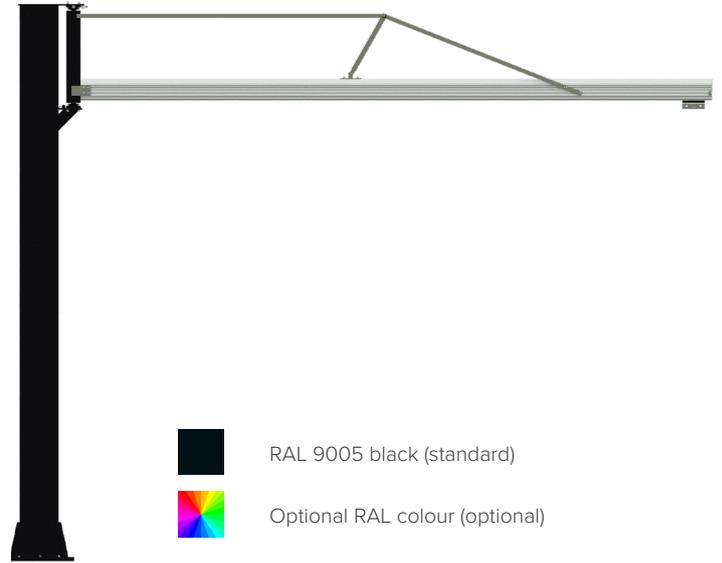
## Pillar-mounted jib crane

# MECHCRANE™ LPS APS

Mechcrane™ pillar-mounted jib cranes LPS / APS provide the opportunity to install ergonomic lifting equipment at most types of workstations.

Movomech's pillar-mounted jib cranes are equipped with rigid pillars in painted steel and jib arms made from strong and light aluminium profiles from the Mechrail™ crane system range. The crane arm is equipped with a sturdy and extremely easy-rolling aluminium trolley fitted with high-quality wheel bearings for easy mounting of your lifting device.

The crane arms can be equipped with a number of different accessory components such as cable trolleys, attachments for accessories, and more.



TECHNICAL DATA		LPS	LPS	LPS	LPS	LPS	APS1	APS1	APS2	APS2
Max. load	[kg]	30	40	50	63	110	125	150	200	250
Max. reach	[mm]	6000	5500	4000	4500	4000	4000	5000	4000	5000
Max. rotation	[°]	240	240	240	240	240	270	270	270	270
No. braces	[pcs]	1-2	1-2	1-2	1-2	1-2	1	2	1	2
Max. pillar length	[mm]	4500	4500	4500	4500	4500	4500	4500	4500	4500
Interval pillar length	[mm]	125	125	125	125	125	250	250	250	250
Base plate □ l x w	[mm]	400	400	400	400	400	500	500	600	600



### Mechcrane™ pillar-mounted jib cranes facilitate your material handling:

- Aluminium profile in the crane arm gives a very low movement resistance
- Powder-coated steel pillars in standard design or in optional RAL colour
- A silent and extremely easy-rolling load-bearing aluminium trolley is included
- Prepared for easy mounting of your lifting device
- A large selection of standard accessories: pneumatic hose, electric cable, cable trolleys, junction boxes, hydraulic dampers, etc

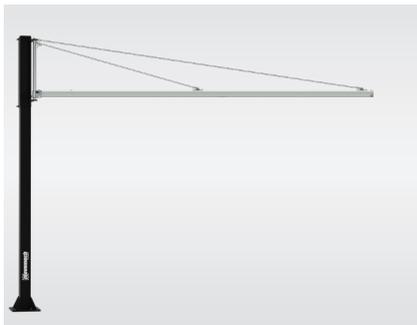


**Choose from many accessories**

Together with the lifting device of your choice, the crane arms can be equipped with a variety of accessories such as cable trolleys, pneumatic hoses, junction boxes, and more.



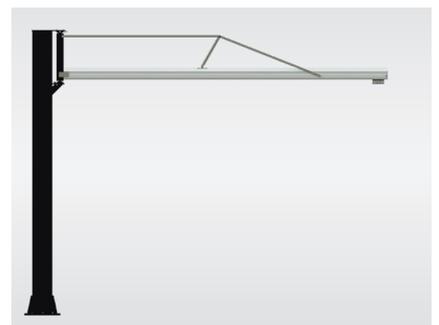
LPS  $L \leq 3\text{ m}$



LPS  $3\text{ m} < L \leq 6\text{ m}$



APS  $L \leq 4\text{ m}$



APS  $4\text{ m} < L \leq 5\text{ m}$

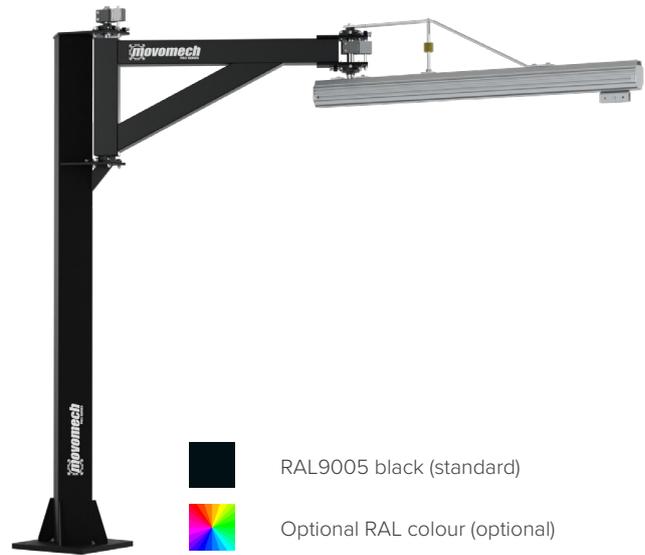
## Articulated jib crane

### MECHCRANE™ VKA

Mechcrane™ articulated jib crane VKA offer you maximum reach in your work area with minimal movement resistance. The two articulated crane arms are rotated via roller bearings of the highest quality for light and ergonomic material handling.

The outer arm is made of lightweight and strong aluminium and is equipped with an easy-rolling trolley with premium\_ quality wheel bearings. Optimal conditions for material handling operations that are smooth, ergonomic and quiet.

The inner arm and pillar are powder-coated in a stylish natural white standard colour in or any RAL colour.



RAL9005 black (standard)



Optional RAL colour (optional)

TECHNICAL DATA		VKA125	VKA200
Max. load	[kg]	125	200
Max. total reach	[mm]	4000	4000
Max. inner rotation	[°]	330	330
Max. outer rotation	[°]	270	270
Max. pillar length	[mm]	4000	4000
Interval pillar length	[mm]	250	250
Base plate □ l x w	[mm]	500	600



### Mechcrane™ articulated jib crane improve production ergonomics:

- Universal jib crane for all types of lifting
- Maximum reach with minimal resistance
- Optimal ergonomics also near the pillar
- A silent and extremely easy-rolling load-bearing aluminium trolley is included
- Prepared for easy mounting of your lifting device
- Powder-coated steel pillars in standard design or in optional RAL colour

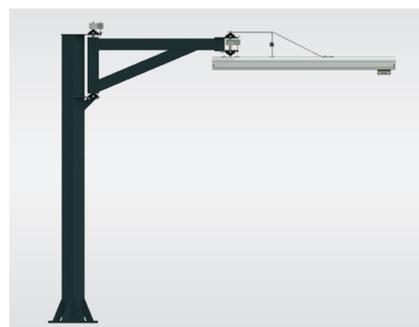


## Easy handling near the pillar

A jib crane with an articulated arm design is equally easy to manoeuvre regardless of where the operator is positioned in the work area, even in work operations performed near the crane pillar.



VKA 125



VKA 200

## Articulated jib crane with hoist

# MECHCRANE™ VKA-H

The Mechcrane™ articulated jib crane VKA-H combines the best of two worlds: an easily operated ergonomic articulated jib crane with a frequency-controlled Mechchain Pro II™ chain hoist fully integrated into the outer crane arm.

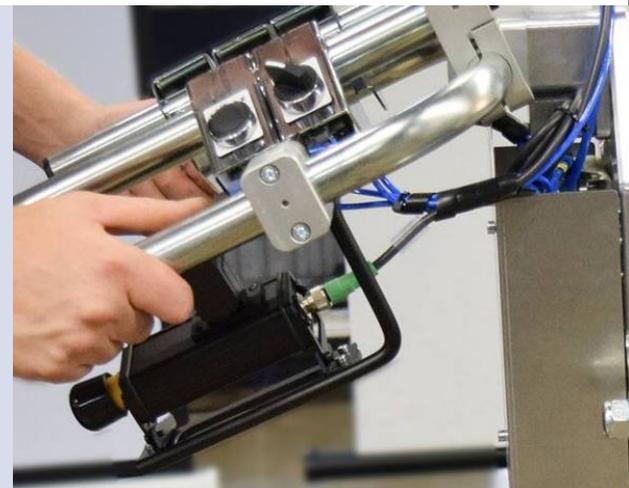
The integrated chain hoist offers a smooth and gradually accelerating lifting movement controlled with a joystick combined with an impressive lifting speed. The actuator is made from shock-resistant aluminium and can be seamlessly integrated with an attached end effector.

The chain hoist's electric cabinet and motor are mounted on the rear end of the crane arm for minimal movement resistance during handling.



-  RAL 9005 black (standard)
-  Optional RAL colour (optional)

TECHNICAL DATA		VKA125
Max. load	[kg]	125
Max. total reach	[mm]	4000
Max. inner rotation	[°]	330
Max. outer rotation	[°]	270
Max. pillar length	[mm]	4000
Interval pillar length	[mm]	250
Base plate □ l x w	[mm]	500
Lifting speed	[m/min]	0-12



### Mechcrane™ articulated jib crane with integrated hoist gives you many advantages:

- Easily operated anywhere in the work area
- Integrated frequency-controlled chain hoist
- Impressive lifting speed of up to 16 m/min
- Actuator in shock-resistant aluminium - free-hanging or seamlessly integrated in the end effector of the lifting equipment
- For ergonomic and high-precision lifting operations
- Powder-coated steel pillars in standard design or in optional RAL colour



## Air supply easily integrated

Pneumatic components can easily be integrated in the jib crane arm for air supply to pneumatic gripper tools.



VKA-H125

## The perfect accessory

# MECHCHAIN PRO II™

Mechchain Pro II™ is a very easy-to-use and ergonomic lifting device for professional lifting that joined Movomech’s range back in 1995 and has been continually developed and refined ever since.

Its main strength is the combination of good control and high precision. In addition to this, the lifter has an impressive lifting speed of up to 16 m/min. Frequency control provides a continuously variable lifting speed controlled by the joystick.

### Low installation height – high availability

This lifting unit is suitable when well-controlled and precise movement is required. Integrated with its trolley, it has the lowest headroom requirement on the market, enabling installation even in confined workspaces.



## Optimal for assembly processes

Mechchain Pro II™ is available in a range of weight classes up to 225 kg, and its typical application areas include:

- Material handling with custom gripper tools
- High-precision assembly work
- General lifting with slings or hooks
- Lifting within general industry
- Packing onto pallets and roller conveyers

## Integrated PLC & optional remote control

Mechchain Pro II™ has an integrated PLC which simplifies the use of custom features.

## Encoder for stop positions

Mechchain Pro II™ can also be equipped with an optional encoder that reads the axle in the spindle limit switch. This enables you to set both the lower stop position and two additional stop/start positions along the stroke.

### TECHNICAL DATA

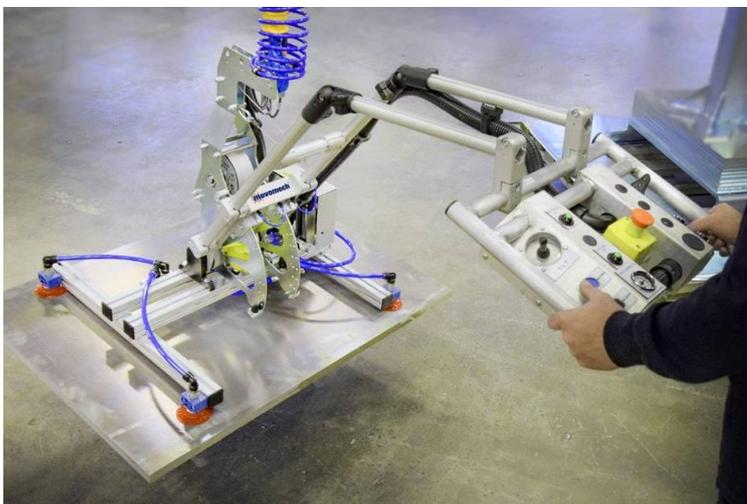
Max. load	[kg]	<b>63</b>	<b>80</b>	<b>125</b>	<b>160</b>	<b>225</b>
Stroke	[m]	5	5	5	5	3,5
Engine output	[kW]	0,37	0,37	0,37	0,37	0,37
Lifting speed	[m/min]	0 - 16	0 - 15	0 - 12	0 - 10	0 - 7

# The ergonomic lift

You can maneuver a sack handling tool together with a Mechchain Pro in a simple and flexible way.

**Easy sack** is ergonomically correct for those who need to lift, cut and empty sacks of their contents.

The smooth stepless movements and high-precision positioning make sure that the sack stays in position while being cut and emptied.



Movomech's modular panel lifting tool **Easypanel** facilitates the lifting of panels, cartons and board material in many different trades and industries.

The panel handling tool concept has a generous number of accessories and configuration options - making it perfectly adapted to each unique workstation.

In the unlocked position, the control handle is vertically balanced and maintained at the correct ergonomic level for the operator during the entire work process.

## WORLD-CLASS LIFTING SOLUTIONS

Movomech products and systems are used in many industries and in many countries. Here is a sample of customers who have chosen the Movomech companies as partners in order to improve the efficiency of their production processes.



### AUTOMOTIVE

Audi | Autoliv | BMW | DAF | DaimlerChrysler | Faurecia | Ford | General Motors | Jaguar | Johnson Controls | Lear Corporation | MAN | Mercedes Benz | Nissan | Renault | Opel | Peugeot | Porsche Scania | Tower Automotive | Volkswagen | Volvo AB | Volvo Cars

### LINE BUILDERS

ABB | Comau | Dürr | KUKA | Lear Corporation | Magna | ThyssenKrupp | TMS | VDL Steelweld

### GENERAL INDUSTRY

ABB | Airbus | Alfa Laval | Arla | Arvin Industries | Arvin Meritor | Atlas Copco Tools | Astra Zeneca | Ballingslöv | Cardo | Carglass | Carlsberg Sverige | Daloc | Danfoss | Dooria | DynaMate | Dynapac | Electrolux | European Furniture Group | Finja | Geberit | GPI Systems | Husqvarna | IFÖ | Jeldwen | Kilsgaard | Kinnarps | Orresta dörr | Outokumpu | Pilkington | Randek BauTech | Saab AB | Schenk | SKF | Statoil | Swedese | Tarkett | TESA | TMHMS | Westinghouse



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