

VACUUM LIFTERS

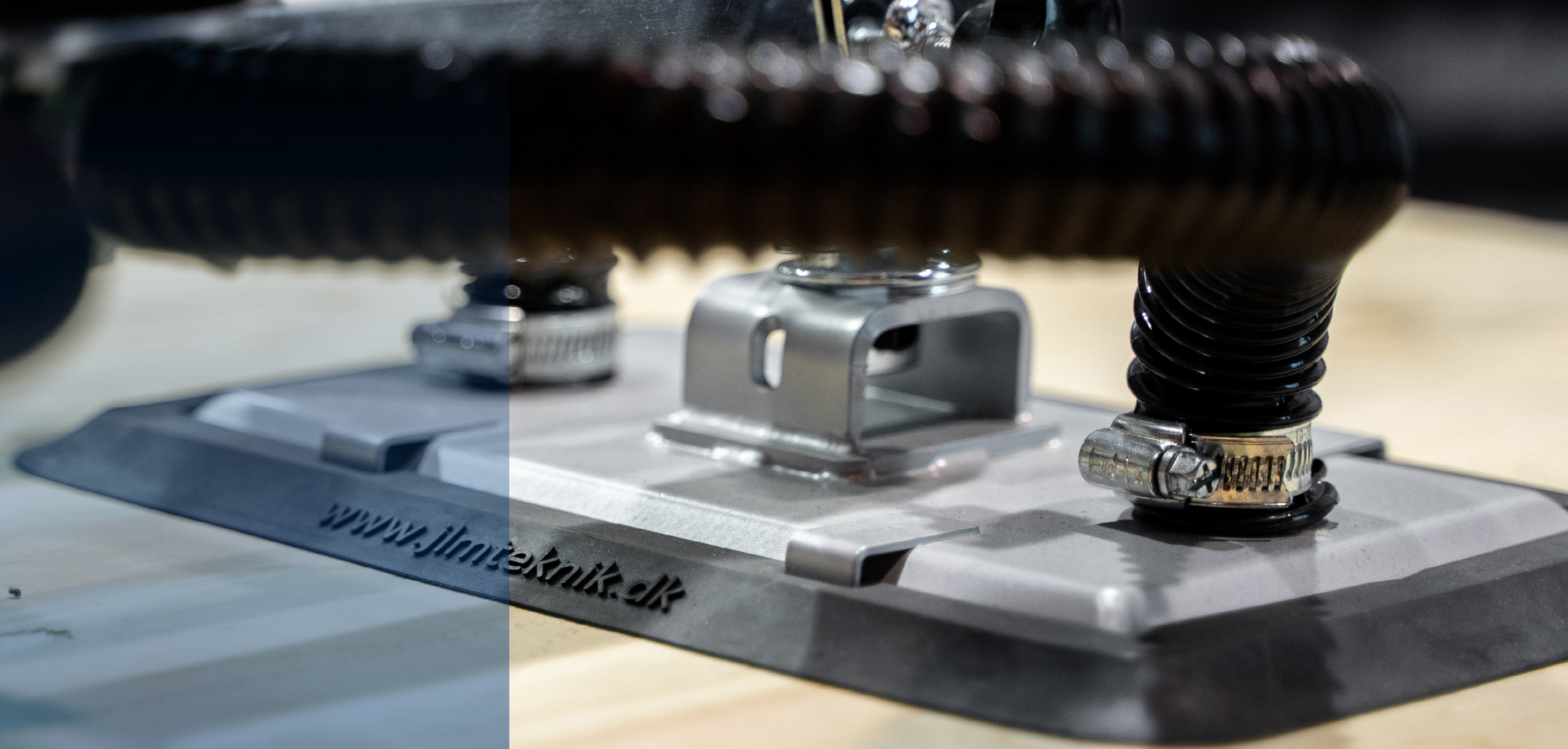
ALPHA AND MY PRODUCT RANGE



JLM vacuum lifters - lifting your production to new heights

JLM teknik has been working with vacuum lifters for more than 25 years. With the My and Alpha models, we wanted to create vacuum lifters of the highest quality in a modern and contemporary design.

We have developed the vacuum lifters based on known functionality, but using the latest technologies with a focus on creating a vacuum lifter that you want to use while making it safe, easy, and intuitive for your employees to work within everyday life.



JLM teknik and the healthy working environment!

There is no doubt that aids have great importance to the working environment of companies. At JLM teknik, we have a great focus on ergonomics and want to be an asset for a healthier working environment and prevent overload injuries. We know that one of the keywords is to acquire lifting equipment that users enjoy in their daily workflows. The fact that our lifting equipment also contributes with higher efficiency in most contexts, is quite another matter.

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JLM teknik is a well-consolidated, privately owned company that for more than 25 years has worked intensively with solutions within lifting equipment and handling.

Today we are a company that is a total supplier of lifting equipment, much of which is in-house production. In Denmark, we sell directly to end-users - this means that we know what customers are looking for. We also have Development and production in the same house, and can quickly adapt our products to customers' wishes and needs.

In-house production:

- Aluminum traverse system up to 1500kg
- Slewing cranes up to 1000kg
- The standard range of lifts: Plate lifting yokes, glass lifting yokes, foil roll lifting yokes
- Vacuum lifters/hose lifters
- Customized lifting yokes

What is a vacuum lifter?

The vacuum lifter has its roots back in the 1980s, and if you need to roughly describe what a vacuum lifter is, it will certainly not be completely wrong to say “a large vacuum cleaner”.

The vacuum lifter consists roughly of a vacuum pump, a lifting hose, an operating handle, and a suction foot. The vacuum pump is the only energy source, and is available in many different variants with different vacuum depths, mbar, and flow m³/h.

The vacuum pump makes negative pressure. By regulating the negative pressure, you can decide whether the vacuum hose should contract or stretch out. Thus, by regulating the negative pressure, the vacuum hose can be raised or lowered.

The negative pressure is regulated in the control lever, where the operator can continuously let “false” air into the system, and thus determine whether the hose should rise or be lowered. The negative pressure in the vacuum hose is the same negative pressure the suction cup uses to hold the workpiece.

Many will ask themselves if the suction cup does not release the burden when letting “fake” air into the system? And the answer is no. The vacuum lifter is designed in such a way that it continues to hold the load even if “false” air is let in. However, it is important to emphasize that the ratio of the area in the lifting hose and suction cup must have the correct and indicated proportions.

Solutions for a healthy and safe working environment!

When looking at lifting solutions, many factors must come into play. It is first and foremost ergonomics, but also the actual process of lifting and handling, which is very important to have analyzed. We are always very thorough in this analysis and know from experience that it is very important that the equipment provided is something the operator wants to use again and again.

With a JLM vacuum lifter mounted in one of JLM’s easy-running aluminum overhead cranes, you get the best and most tested solution on the market. Using a JLM vacuum lifter is quite simple. It does not require much training, and within just a few hours the operator will be familiar with the use of the vacuum lifter. Simply because it

is the operator that decides. The operator will experience how safe it is to lift, and how fast the vacuum lifter works with soft, stepless, and very smooth handling. Everything is controlled by the movements of the operator. It is not long before the operator gets the feeling of total freedom with a “weightless” burden, without losing in any way the manual speed of handling.

JLM has an extensive range of accessories and equipment that allows you to change or expand existing solutions, and in this way continuously adapt your future needs and requirements.

JLM vacuum lifter can be used for any type of products

With the right composition, JLM vacuum lifters can be used for efficient, safe, and gentle handling of a wide variety of items. These materials can be used. ex. be cardboard, wood, glass, metal, paper, plastic, stone, and styrofoam. A vacuum lifter can also be used for many different types of surfaces: smooth, round, oval, uneven, leaky, and door plates.



Safety

JLM’s vacuum lifter is driven by a vacuum pump. Thanks to a return valve at the top of the lifting hose, the vacuum can be maintained even if the vacuum pump stops. This means that under controlled conditions the lifting hose will “stretch” and the suction foot will NOT release the load until contact is made with the floor or other solid surface. Moreover, when the lifting hose “stretches” during the lowering movement, an inherent vacuum is created, which further slows down the lowering movement itself.

If the load is too heavy or the air flow in the workpiece is too large, there will not be enough negative pressure to lift the load. JLM vacuum lifter never lifts heavier loads than it can handle, with the right sizing of solution.

How much may you lift?

The starting point for the assessment of the lift is the weight of the load and its distance from the back during the lift (row distance). The distance (R) multiplied by the weight of the load gives an expression of the external load on the back.

Red zone: Lifts in the red zone are considered harmful. Measures must be taken immediately to counter the risk.

Yellow zone: Lifting in the yellow zone means that the other factors (see later) must be assessed to determine whether they aggravate the load so that the lifting must be considered harmful.

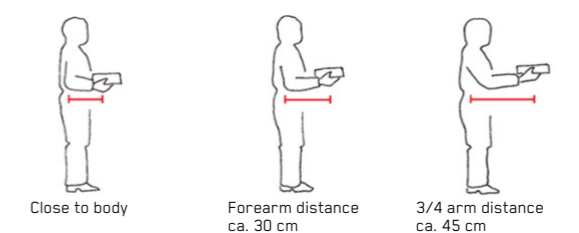
In the upper part of the yellow area, lifting is only acceptable if performed under optimal conditions. This means that the entire lift is in front of the body, between mid-thigh and elbow height, the load is designed for handling, there are at least two minutes between lifts, no carrying is carried out, the footing is stable and the climate is suitable.

In the middle part of the yellow area, the number and degree of aggravating factors determine whether the lift can be harmful to health.

If the load of the lift is in the vicinity of the green area, several aggravating factors must normally be present before the lift is considered harmful. In some cases, a single factor, such as posture, can be so stressful that lifting at the bottom of the yellow zone can cause health damage.

Green zone: Lifting in the green area is usually not harmful due to weight and distance.

An overall assessment of the work must always be carried out before any action is taken. In a holistic assessment, all factors must be taken into account. For work involving a lot of lifting per working day, the total weight shall be taken into account in assessing whether the work may be harmful to health.



Typical applications

Lifting of sacks

Manual handling of sacks can be one of the most unpredictable things; they can be heavy, and they can be difficult to grip because of their shape, and the material inside the sack might shift.

By choosing a vacuum lifter with the right dimensions, lifting sacks can be a breeze. However, there are some precautions to consider when choosing a vacuum sack lifter.

- Is the sack made of a material that can withstand being lifted without breakage of the sack?
- Is the sack made of dense material such as plastic, or porous material such as paper? The more porous the material is, the more flow there should be in the vacuum lifter.
- If the sack is loose, i.e. the material in the sack can be displaced, a grid must be built into the suction head to prevent the sack from being sucked up into the vacuum lifter.

There may also be other conditions that apply, therefore JLM always offers to make a test lift with your particular sack. This ensures that we find a solution that is also used.



Lifting of cardboard boxes

Today, cardboard boxes are almost a science in themselves. They come in many different shapes and forms. They can be made of cardboard with relatively low permeability, what we call good cardboard boxes. But it can also be very bad cardboard with high suction. There are also very strong cardboard boxes, where you will be surprised that they can hold items weighing over 100kg.

Other things come into play when lifting cardboard boxes:

- Is the box open or is there tape around it, maybe straps tape too?
- Should it be lifted on top of the box, or maybe on the side?
- Should the boxes be stacked in height or vice versa?
- Should the cardboard box be rotated or perhaps tilted?

One thing is certain, for JLM a cardboard box is not just a cardboard box. Our years of experience tell us that we are often surprised by cardboard boxes.



Lifting of sheets

Manual lifting of sheets, depending on size, often requires two people. But with a vacuum lifter, lifting even the largest sheets is easy and not cumbersome for one person. This significantly increases efficiency. The vacuum lifter is perfect for wood panels, plasterboard, glass, metal sheets, plastic sheets, and styrofoam sheets.

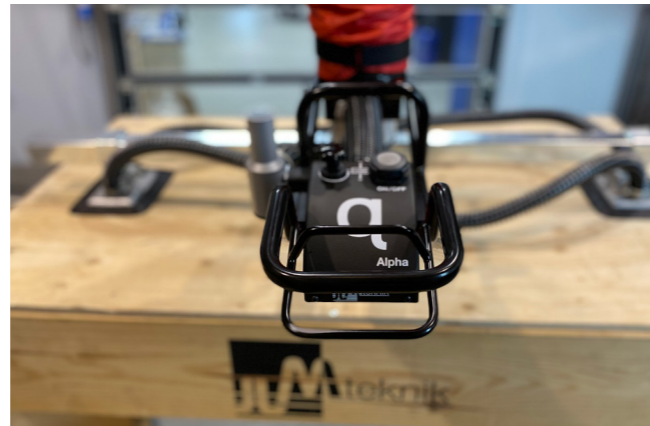
Many people use a traditional sheet lifter yoke for lifting wooden sheets, but have you thought about what happens if the power supply is interrupted? A wooden sheet is not very air tight. This means that the moment the energy supply is interrupted, the load is released almost immediately.

It is different from a vacuum lifter that is sized correctly. The moment the energy supply is interrupted, the vacuum hose will slowly extend to its full length so that the workpiece reaches the ground before the suction cup releases its grip on the plate.

There may also be other issues in the process that need to be looked at when lifting plates:

- Should the sheets be stacked in height or vice versa?
- Should the sheet be attached horizontally or vertically?
- Maybe it needs to be rotated or tilted 90°, maybe 180°
- Is the sheet so thin that it curves?
- Maybe the sheet is wrapped in foil?

JLM teknik is happy to take up the challenge of lifting your sheets. We have the necessary experience and knowledge.



A world of lifting

JLM teknik is probably the company in the world with the most experience in lifting various items with vacuum lifters. We have solved hundreds of different tasks to the great benefit of our customers.

JLM teknik considers itself to be the market leader in this field and is not afraid to share our more than 25 years of experience.

If you are in doubt about whether we can solve your task, please feel free to contact us. We will also be happy to give your item a test lift in our showroom. If you want to participate yourself, you are more than welcome.



Alpha

Alpha is the classic and powerful vacuum lifter
Alpha can be configured to lift items from 20kg up to 230kg. In special cases, it is possible to interconnect several lifting hoses to increase capacity considerably.

Alpha has a built-in adjustment knob for unloaded and loaded height positioning. This means that the vacuum lifting handle is always in the desired position when the operator is not holding the handle. One of the advantages of this is that the operator does not have to bend over for the maneuvering handle.

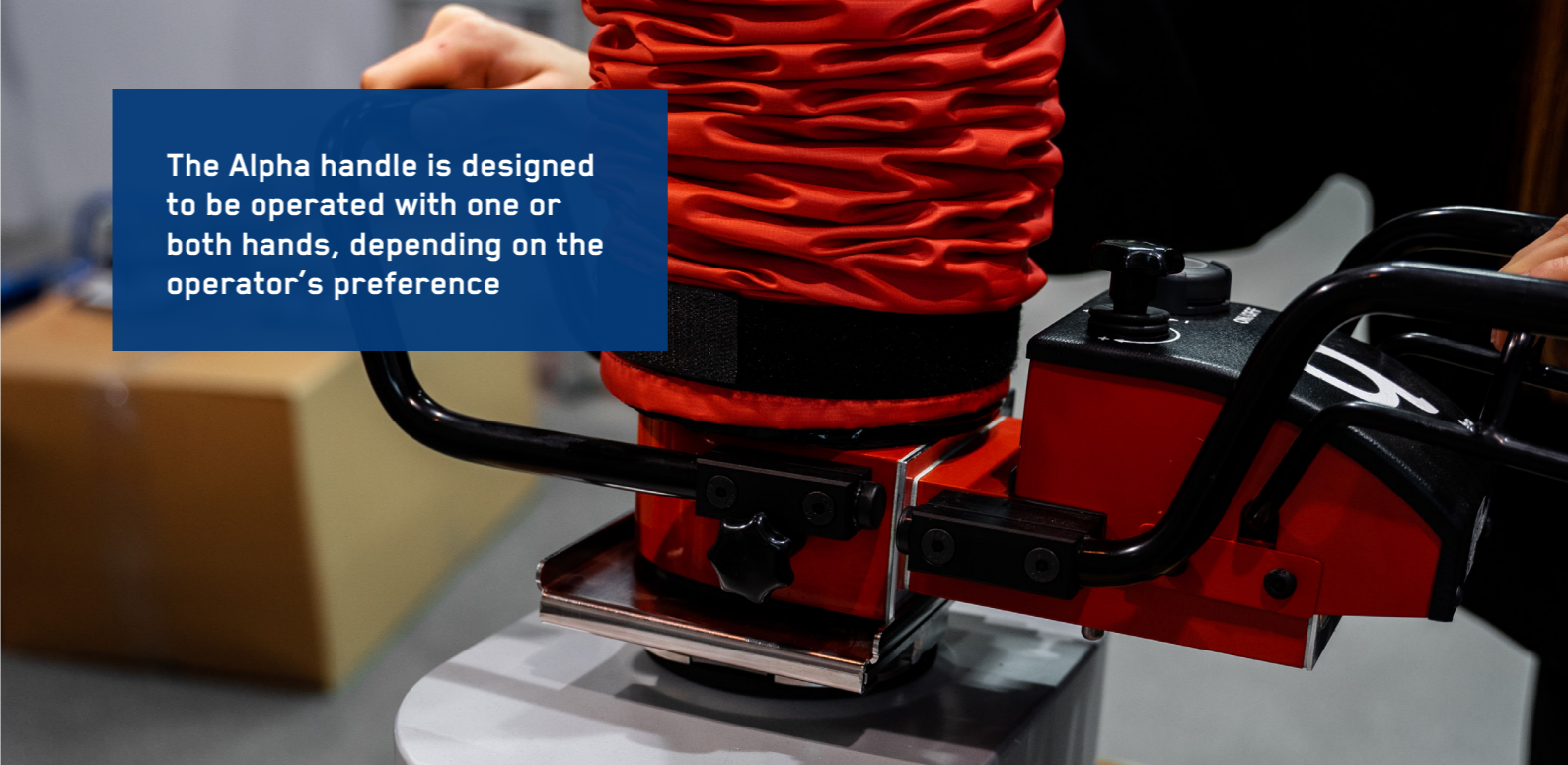
As standard, Alpha always has wireless control of the vacuum pump built-in. The On/Off button is cleverly located on the handle. Wireless start/stop makes it quick and easy for the operator to start and stop the pump, helping to lower energy consumption significantly. Just as it gives confidence to the operator to stand with the handle when starting or stopping the vacuum pump.



Alpha has a very extensive range of accessories and JLM is constantly looking to develop and optimize our vacuum lifters.

Alpha is also available in stainless steel and we can deliver it to ATEX zone II.

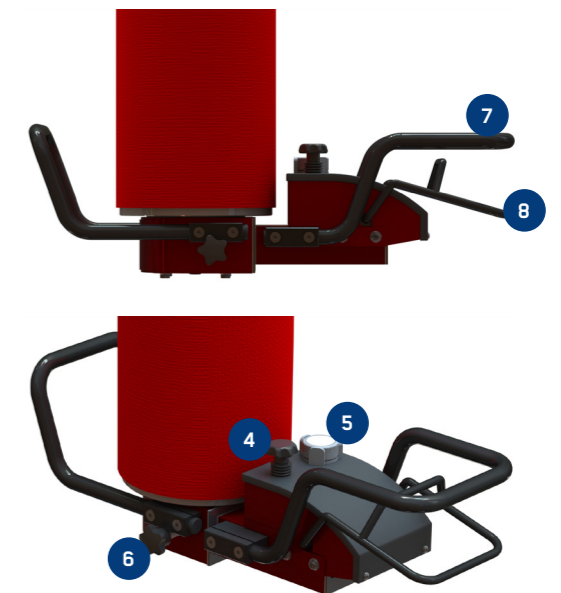
The Alpha handle is designed to be operated with one or both hands, depending on the operator's preference



- Robust vacuum lifter for the big and heavy-duty jobs
- Wide range of accessories/equipment
- An intuitive operation that follows the operator's movements
- Height positioning with and without load

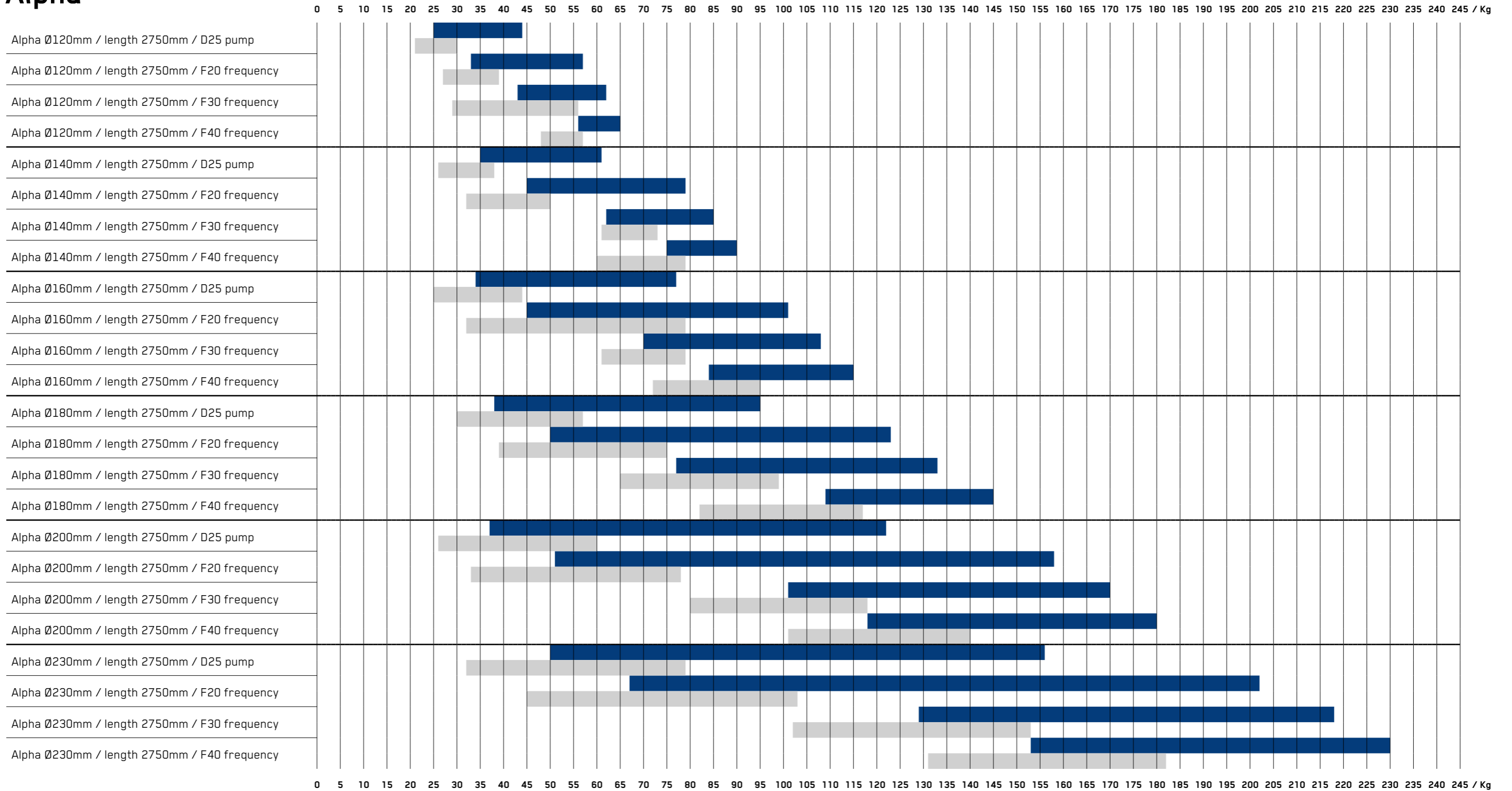


LIFTING UNIT		120	140	160	180	200	230	PUMP		D25	F20	F30	F40
Lifting hose pad	[mm]	120	140	160	180	200	230	Power	[kW]	3.0	3.0	4.6	7.2
Max. capacity	[kg]	65	90	115	145	180	230	Max. flow	[m³/h]	180	120	160	240
Hose Length L	[mm]	2750/3000/4000						Vacuum depth	[%]	50	70	70	74
								Noise level (without sound box)	[dB(A)]	70	78	78	80
								Noise level (with sound box)	[dB(A)]	66	60	61	62



- FUNCTIONALITY**
1. Suspension eye with swivel
 2. Lifting hose
 3. Protective webbing
 4. Height positioning with load
 5. Wireless on/off of vacuum pump
 6. Height positioning without load
 7. Control handle
 8. Control handle for raising/lowering function

Alpha



This diagram shows the recommended "weight range" in kg. for lifting the item with the combination of the actual lifting hose and vacuum pump.

The diagram is for guidance only and should be taken with reservations since many factors influence the promise. Try to choose a lifting hose with as large a diameter as possible. It provides a "softer" and more light movement in the lift.

The complete Alpha lifting system consists of



Lifting hose w/handle



Webbing



Pump



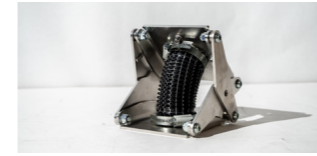
Filter housing



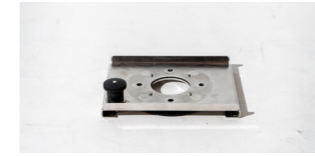
Wireless start/stop

COMPLETE ALPHA LIFTING SYSTEM			
PART NO.			
111102520			F20 frequency with wireless start
111102525	Ø100mm.	2.75m.	D25 pump with wireless start
111102530			F30 frequency with wireless start
111102540			F40 frequency with wireless start
111122520			F20 frequency with wireless start
111122525	Ø120mm.	2.75m.	D25 pump with wireless start
111122530			F30 frequency with wireless start
111122540			F40 frequency with wireless start
111142520			F20 frequency with wireless start
111142525	Ø140mm.	2.75m.	D25 pump with wireless start
111142530			F30 frequency with wireless start
111142540			F40 frequency with wireless start
111162520			F20 frequency with wireless start
111162525	Ø160mm.	2.75m.	D25 pump with wireless start
111162530			F30 frequency with wireless start
111162540			F40 frequency with wireless start
111182520			F20 frequency with wireless start
111182525	Ø180mm.	2.75m.	D25 pump with wireless start
111182530			F30 frequency with wireless start
111182540			F40 frequency with wireless start
111202520			F20 frequency with wireless start
111202525	Ø200mm.	2.75m.	D25 pump with wireless start
111202530			F30 frequency with wireless start
111202540			F40 frequency with wireless start
111232520			F20 frequency with wireless start
111232525	Ø230mm.	2.75m.	D25 pump with wireless start
111232530			F30 frequency with wireless start
111232540			F40 frequency with wireless start

Accessories for Alpha



Tilting joint
Part no. 151300 standard
Part no. 151301 with lock



Upper quick coupling max. 175kg
Part no. 151100



Lower quick coupling max. 175kg
Part no. 151200

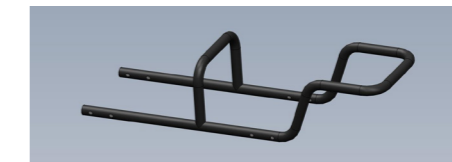


Release valve
Part no. 151600 standard
Part no. 151700 extended



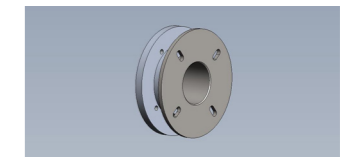
PART NO. FLEX EXTENSION-HANDLE

1412151	210*510 Complete
1412161	210*610 Complete
1412171	210*710 Complete
1412181	210*810 Complete
1412191	210*910 Complete
14121125	210*1210 Complete
1413151	310*510 Complete
1413161	310*610 Complete
1413171	310*710 Complete
1413181	310*810 Complete
1413191	310*910 Complete
14131121	310*1210 Complete
1414151	410*510 Complete
1414161	410*610 Complete
1414171	410*710 Complete
1414181	410*810 Complete
1414191	410*910 Complete
14141121	410*1210 Complete
1415151	510*510 Complete
1415161	510*610 Complete
1415171	510*710 Complete
1415181	510*810 Complete
1415191	510*910 Complete
14151121	510*1210 Complete
1417151	710*510 Complete
1417161	710*610 Complete
1417171	710*710 Complete
1417181	710*810 Complete
1417191	710*910 Complete
14171121	710*1210 Complete



PART NO. FIXED EXTENSION-HANDLE

14151	510 mm Complete
14161	610 mm Complete
14171	710 mm Complete
14181	810 mm Complete
14191	910 mm Complete
141121	1210 mm. Complete



Swivel endless rotation
Part no. 151500 Endless rotation
Part no. 151501 Endless rotation 4-position

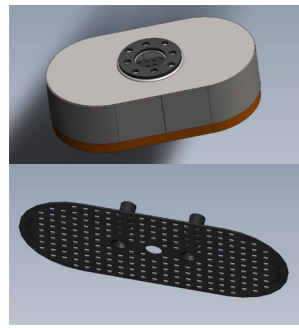


PART NO. ALPHA LIFTER

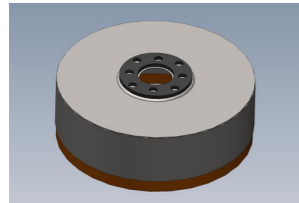
1211025	Ø100 L = 2750 wo/pump
1211225	Ø120 L = 2750 wo/pump
1211425	Ø140 L = 2750 wo/pump
1211625	Ø160 L = 2750 wo/pump
1211825	Ø180 L = 2750 wo/pump
1212025	Ø200 L = 2750 wo/pump
1212325	Ø230 L = 2750 wo/pump

Alpha suction feet

Safety factors for horizontal lifting



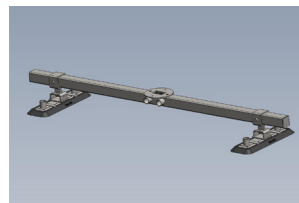
PART NO.	OVAL	HOSE DIAMETER MM.						
		100	120	140	160	180	200	230
161175275	Sack suction cup 175*275	3.9	2.7					
161205370	Sack suction cup 205*370	6.7	4.7	3.4	2.6			
161260455	Sack suction cup 260*455	11.0	7.6	5.6	4.3	3.4	2.8	
161175275G	Grid 175*275							
161205370G	Grid 205*370							
161260455G	Grid 260*455							



PART NO.	ROUND	HOSE DIAMETER MM.						
		100	120	140	160	180	200	230
161250	Round suction cup Ø250	6.3	4.3	3.2				
161300	Round suction cup Ø300	9.0	6.3	5.2	3.5	2.8		
1161320	Round suction cup Ø320	10.2	7.1	5.5	4.0	3.2	2.6	
161360	Round suction cup Ø360	13.0	9.0	6.6	5.1	4.0	3.2	

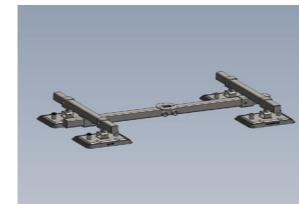


PART NO.	SUCTION CUP	HOSE DIAMETER MM.						
		100	120	140	160	180	200	230
161150210	Suction cup 150*210	4.0	2.8					
161120315	Suction cup 120*315	4.8	3.3	2.5				
161200290	Suction cup 200*290	7.4	5.1	3.8	2.9			
161200315	Suction cup 200*315	8.0	5.6	4.1	3.1	2.5		
161100430	Suction cup 100*430	5.5	3.8	2.8				

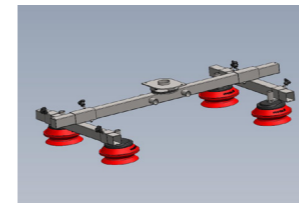


PART NO.	SUCTION BEAM 2-ADJUSTABLE	HOSE DIAMETER MM.						
		100	120	140	160	180	200	230
16121002005	100*200mm Beam 500mm							
16121002008	100*200mm Beam 800mm							
161210020012	100*200mm Beam 1200mm	5.1	3.5	2.6				
161210020018	100*200mm Beam 1800mm							
16121203155	120*315mm Beam 500mm							
16121203158	120*315mm Beam 800mm							
161212031514	120*315mm Beam 1200mm	9.6	6.7	4.9	3.8	3.0		
161212031518	120*315mm Beam 1800mm							
16121502105	150*210mm Beam 500mm							
16121502108	150*210mm Beam 800mm							
161215021012	150*210mm Beam 1200mm	8.0	5.6	4.1	3.1	2.5		
161215021018	150*210mm Beam 1800mm							
16122002905	200*290mm Beam 500mm							
16122002908	200*290mm Beam 800mm							
161220029012	200*290mm Beam 1200mm	14.8	10.3	7.5	5.8	4.6	3.7	2.8
161220029018	200*290mm Beam 1800mm							
16122003155	200*315mm Beam 500mm							
16122003158	200*315mm Beam 800mm							
161220031512	200*315mm Beam 1200mm	16.1	11.1	8.2	6.3	5.0	4.0	3.0
161220031518	200*315mm Beam 1800mm							

Safety factors for horizontal lifting



PART NO.	SUCTION CUP 4-CUP ADJUSTABLE	HOSE DIAMETER MM.						
		100	120	140	160	180	200	230
161410020086	100*200mm Beam 800mm Arms 600mm	10.2	7.1	5.2	4.0	3.1	2.5	
161412031586	120*315mm Beam 800mm Arms 600mm	19.3	13.4	9.8	7.5	5.9	4.8	3.6
161415021086	150*210mm Beam 800mm Arms 600mm	16.1	11.1	8.2	6.3	5.0	4.0	3.0
161420029086	200*290mm Beam 800mm Arms 600mm	29.6	20.5	15.1	11.5	9.1	7.4	5.6
161420031586	200*315mm Beam 800mm Arms 600mm	32.1	22.3	16.4	12.5	9.9	8.0	6.1
1614100200126	100*200mm Beam 1200mm Arms 600mm	10.2	7.1	5.2	4.0	3.1	2.5	
1614120315126	120*315mm Beam 1200mm Arms 600mm	19.3	13.4	9.8	7.5	5.9	4.8	3.6
1614150210126	150*210mm Beam 1200mm Arms 600mm	16.1	11.1	8.2	6.3	5.0	4.0	3.0
1614200290126	200*290mm Beam 1200mm Arms 600mm	29.6	20.5	15.1	11.5	9.1	7.4	5.6
1614200315126	200*315mm Beam 1200mm Arms 600mm	32.1	22.3	16.4	12.5	9.9	8.0	6.1
1614100200186	100*200mm Beam 1800mm Arms 600mm	10.2	7.1	5.2	4.0	3.1	2.5	
1614120315186	120*315mm Beam 1800mm Arms 600mm	19.3	13.4	9.8	7.5	5.9	4.8	3.6
1614150210186	150*210mm Beam 1800mm Arms 600mm	16.1	11.1	8.2	6.3	5.0	4.0	3.0
1614200290186	200*290mm Beam 1800mm Arms 600mm	29.6	20.5	15.1	11.5	9.1	7.4	5.6
1614200315186	200*315mm Beam 1800mm Arms 600mm	32.1	22.3	16.4	12.5	9.9	8.0	6.1



PART NO.	SUCTION CUP 4-CUP ADJUSTABLE	HOSE DIAMETER MM.						
		100	120	140	160	180	200	230
161411086	Ø110mm Beam 800mm Arms 600mm	4.8	3.4	2.5				
161415086	Ø150mm Beam 800mm Arms 600mm	9.0	6.3	4.6	3.5	2.8		
1614110126	Ø110mm Beam 1200mm Arms 600mm	4.8	3.4	2.5				
1614150126	Ø150mm Beam 1200mm Arms 600mm	9.0	6.3	4.6	3.5	2.8		



Customised solutions are developed and manufactured in our factory - this means that we are always close to the process

Spare Parts For Alpha



PART NO. LIFTING HOSE COMPLETE

172610252	Ø100*2750 w/ Top & Bottom
172610302	Ø100*3000 w/ Top & Bottom
172610402	Ø100*4000 w/ Top & Bottom
172612252	Ø120*2750 w/ Top & Bottom
172612302	Ø120*3000 w/ Top & Bottom
172612402	Ø120*4000 w/ Top & Bottom
172614252	Ø140*2750 w/ Top & Bottom
172614302	Ø140*3000 w/ Top & Bottom
172614402	Ø140*4000 w/ Top & Bottom
172616252	Ø160*2750 w/ Top & Bottom
172616302	Ø160*3000 w/ Top & Bottom
172616402	Ø160*4000 w/ Top & Bottom
172618252	Ø180*2750 w/ Top & Bottom
172618302	Ø180*3000 w/ Top & Bottom
172618402	Ø180*4000 w/ Top & Bottom
172620252	Ø200*2750 w/ Top & Bottom
172620302	Ø200*3000 w/ Top & Bottom
172620402	Ø200*4000 w/ Top & Bottom
172623252	Ø230*2750 w/ Top & Bottom
172623302	Ø230*3000 w/ Top & Bottom
172623402	Ø230*4000 w/ Top & Bottom

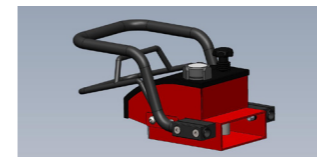
PART NO. LIFTING HOSE LOOSE

17261025	Ø100*2750
17261030	Ø100*3000
17261040	Ø100*4000
17261225	Ø120*2750
17261230	Ø120*3000
17261240	Ø120*4000
17261425	Ø140*2750
17261430	Ø140*3000
17261440	Ø140*4000
17261625	Ø160*2750
17261630	Ø160*3000
17261640	Ø160*4000
17261825	Ø180*2750
17261830	Ø180*3000
17261840	Ø180*4000
17262025	Ø200*2750
17262030	Ø200*3000
17262040	Ø200*4000
17262325	Ø230*2750
17262330	Ø230*3000
17262340	Ø230*4000

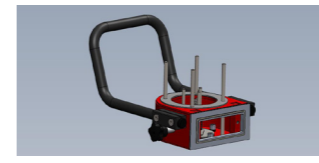


PART NO. PROTECTIVE WEBBING

172610251	Ø100*2750
172610301	Ø100*3000
172610401	Ø100*4000
172612251	Ø120*2750
172612301	Ø120*3000
172612401	Ø120*4000
172614251	Ø140*2750
172614301	Ø140*3000
172614401	Ø140*4000
172616251	Ø160*2750
172616301	Ø160*3000
172616401	Ø160*4000
172618251	Ø180*2750
172618301	Ø180*3000
172618401	Ø180*4000
172620251	Ø200*2750
172620301	Ø200*3000
172620401	Ø200*4000
172623251	Ø230*2750
172623301	Ø230*3000
172623401	Ø230*4000



Manoeuvring box Alpha
Part no. 182502



Vacuum house Alpha
Part no. 182501



Handle
Part no. 182500 Ø100 til Ø180
Part no. 182550 Ø200 til Ø230



Filter element
Part no. 132511



Complete filter housing
Part no. 132510 standard
Part no. 132510S stainless steel



Bottom valve complete
Part no. 182504



PART NO. ADAPTER TOP COMPLETE

1725104	Ø100
1725124	Ø120
1725144	Ø140
1725164	Ø160
1725184	Ø180
1725204	Ø200
1725234	Ø230



PART NO. SACK SUCTION LIPS

1628175275	175*275 f. 161175275
1628205370	205*370 f. 161205370
1628260455	260*455 f. 161260455
1628250	Ø250
1628300	Ø300
1628320	Ø320
1628360	Ø360



PART NO. SUCTION LIPS

1628100200	100*200 Black
1628100200W	100*200 Grey
1628120315	120*315 Black
1628150210	150*210 Black
1628150210W	150*210 Grey
1628200290	200*290 Black
1628200290W	200*290 Grey
1628200315	200*315 Black
1628200315W	200*315 Grey
162895430	95*430 Black



Alpha with Totem extension handle and release valve for stacking at the height

My

My is the little classic vacuum lifter

Our vacuum lifter model My is the small classic vacuum lifter for lifting items to 65kg. The vacuum lifter is perfect for lifting smaller items such as cardboard boxes, wooden plates, glass, etc., and can be configured in many ways.

My has a built-in adjustment knob for height positioning without load and with the load. This means that the vacuum lifting handle is always in the desired position when the operator is not holding the handle. One of the advantages of this is that the operator does not have to bend over for the maneuvering handle.

As standard, My always has wireless control of the vacuum pump built-in. The On/Off button is cleverly located on the handle. Wireless start/stop makes it quick and easy for the operator to start and stop the pump, helping to significantly reduce energy consumption. Just as it provides safety for the operator to stand with the handle when starting or stopping the vacuum pump.



My has a very extensive range of accessories and JLM is constantly looking to develop and optimize our vacuum lifters. My is also available as stainless steel and we can deliver to ATEX zone II.

My vacuum lifter, perfect for a smaller hand. Easily and safely operated with one hand. In short: Ergonomics in a class of its own

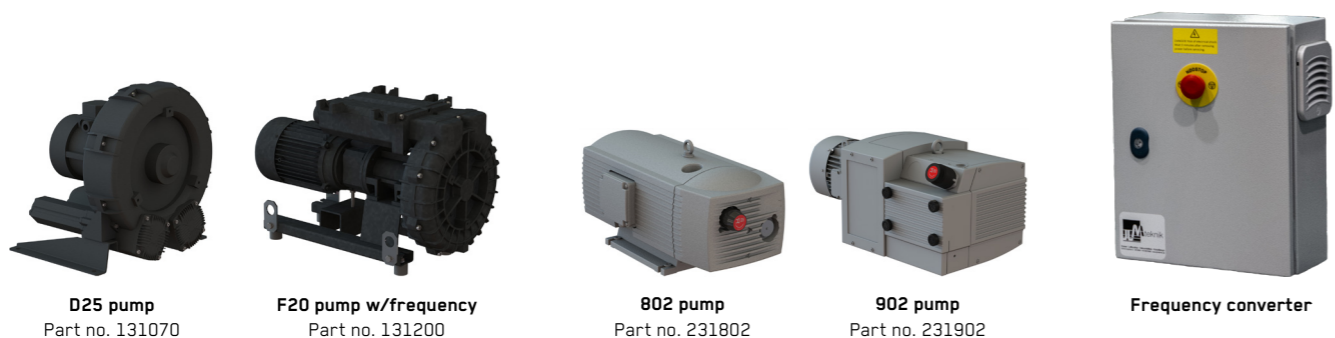


- Manoeuvring handle with ergonomics in a class of its own
- Wide range of accessories / equipment
- Intuitive operation that follows the operator's movements
- Height positioning with and without load



LIFTING UNIT		80	100	120	140
Lifting hose pad	[mm]	80	100	120	140
Max. capacity	[kg]	30	47	63	80
Lifting hose L	[mm]	2750/3000/4000			

PUMP		802	902	F20
Power	[kW]	1.3	2.4	3.0
Max. flow	[m³/h]	40	90	120
Vacuum depth	[%]	80	80	70
Noise level (without sound box)	[dB(A)]	74	77	75
Noise level (with sound box)	[dB(A)]	64	65	60



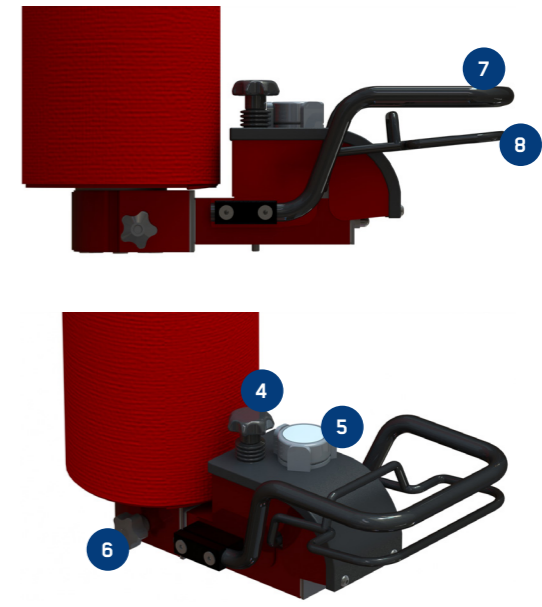
D25 pump
Part no. 131070

F20 pump w/frequency
Part no. 131200

802 pump
Part no. 231802

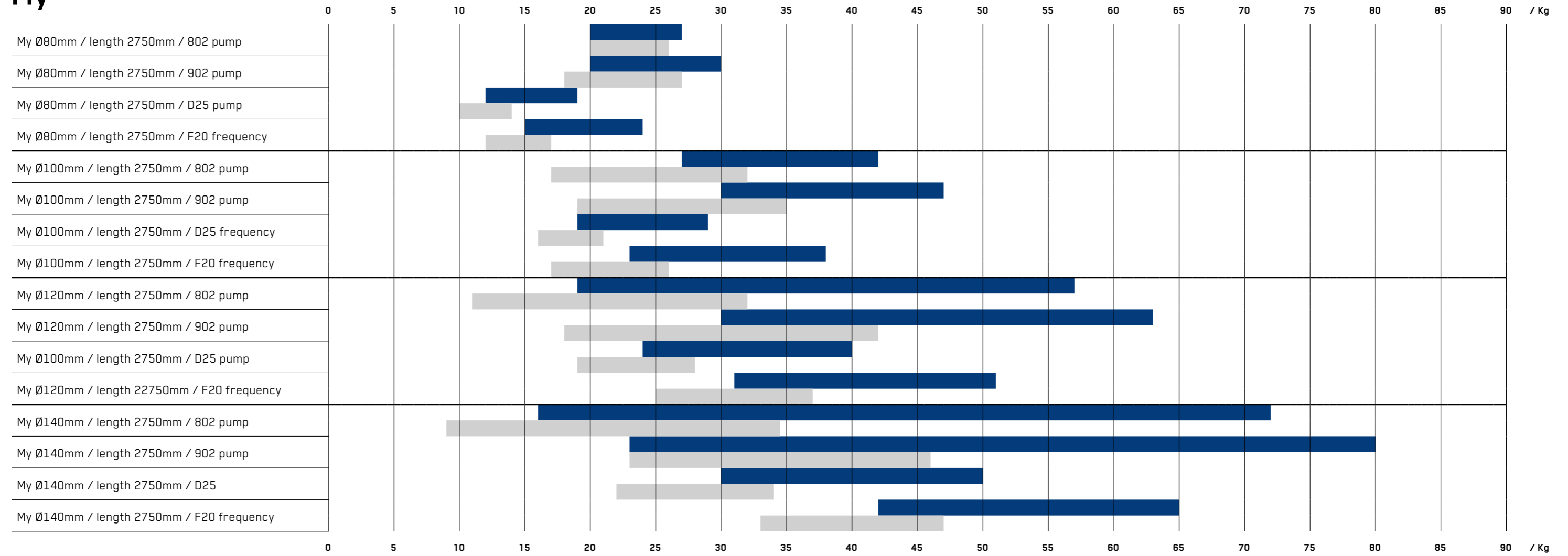
902 pump
Part no. 231902

Frequency converter



- FUNCTIONALITY**
1. Suspension eye with swivel
 2. Lifting hose
 3. Protective webbing
 4. Height positioning with load
 5. Wireless on/off of vacuum pump
 6. Height positioning without load
 7. Control handle
 8. Control handle for raising/lowering function

My



This diagram shows the recommended "weight range" in kg. for lifting the item concerning the combination of the actual lifting hose and vacuum pump.

The diagram is for guidance only and should be taken with reservations since many factors influence the promise. Try to choose a lifting hose with as large a diameter as possible. It provides a "softer" and more light movement in the lift.

Complete My lifting system consists of



Lifting hose w/handle



Webbing



Pump



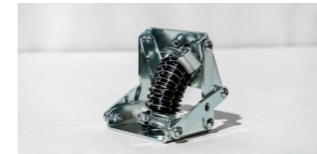
Filter housing



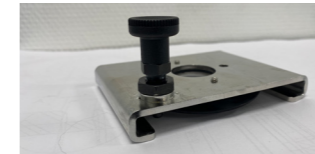
Wireless start/stop

COMPLETE MY LIFTING SYSTEM			
PART NO.			
211082520			F20 w/wireless start
211082525			D25 w/wireless start
211082530	Ø80mm.	2.75m.	F30 w/wireless start
2110825802			P802 w/wireless start
2110825902			P902 w/wireless start
211102520			F20 w/wireless start
211102525			D25 w/wireless start
211102530	Ø100mm.	2.75m.	F30 w/wireless start
2111025802			P802 w/wireless start
2111025902			P902 w/wireless start
211122520			F20 w/wireless start
211122525			D25 w/wireless start
211122530	Ø120mm.	2.75m.	F30 w/wireless start
2111225802			P802 w/wireless start
2111225902			P902 w/wireless start
211142520			F20 w/wireless start
211142525			D25 w/wireless start
211142530	Ø140mm.	2.75m.	F30 w/wireless start
2111425802			P802 w/wireless start
2111425902			P902 w/wireless start

Accessories for My



Tilting joint
Part. no. 251300 standard
Part. no. 251301 with lock



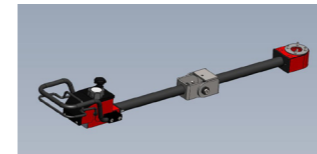
Quick coupling upper
Part. no. 251100



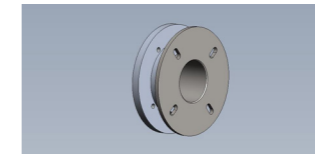
Quick coupling lower
Part. no. 251200



Release valve
Part. no. 251600
Part. no. 251601 Extended



Flex. extension handle
Part. no. 2412151 210*510mm
Part. no. 2413131 310*310mm

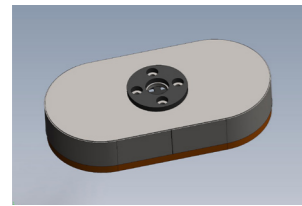


Swivel endless rotation
Part. no. 251500 Endless rotation
Part. no. 251501 Endless rotation
4-position



PART NO.	MY LIFTER
2210825	Ø80 L=2750 wo/pump
2211025	Ø100 L=2750 wo/pump
2212825	Ø120 L=2750 wo/pump
2214825	Ø140 L=2750 wo/pump

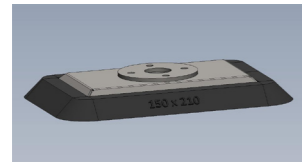
My suction cups



PART NO.	OVAL	Safety factors for horizontal lifting			
		HOSE DIAMETER MM.			
		80	100	120	140
261100315	Sack suction cup 100*315	3.8	2.4		
261125245	Sack suction cup 125*245	3.7	2.4		
261150290	Sack suction cup 150*290	5.6	3.6	2.5	
261100315G	Grid for sack suction cup 100*315				
261125245G	Grid for sack suction cup 125*245				
261150290G	Grid for sack suction cup 150*290				



PART NO.		HOSE DIAMETER MM.			
		80	100	120	140
261000	Tikan 4*Ø110 C=140	7.6	4.8		
261001	Tokan 2*Ø110 C=140	3.8	2.4		
261005	Postal yoke 2*Ø150 C=240 w/hook	7.0	4.5	3.1	2.3



PART NO.		HOSE DIAMETER MM.			
		80	100	120	140
261100200	Suction cup 100*200	4.0	2.5		
261150210	Suction cup 150*210	6.3	4.0	2.8	



PART NO.	SUCTION BEAM 2-CUP ADJUSTABLE	HOSE DIAMETER MM.			
		80	100	120	140
26121002005	100*200mm Beam 500mm	8.0	5.1	3.5	2.6
26121002008	100*200mm Beam 800mm				
26121203155	120*315mm Beam 500mm	15.0	9.6	6.7	4.9
26121203158	120*315mm Beam 800mm				
26121502105	150*210mm Beam 500mm	12.5	8.0	5.6	4.1
26121502108	150*210mm Beam 800mm				
26122002905	200*290mm Beam 500mm	23.1	14.8	10.3	7.5
26122002908	200*290mm Beam 800mm				
26122003155	200*315mm Beam 500mm	25.1	16.1	11.1	8.2
26122003158	200*315mm Beam 800mm				



Postal yoke 2*Ø150 C=240 w/hook
Part no. 261005



Tokan 2*Ø110 C=140
Part no. 261001



Tikan 4*Ø110 C=140
Part no. 261000



Fikan 4*Ø110 C=140
Part no. 261004



Alpha for concrete tiles

Spare parts for My



PART NO. LIFTING HOSE COMPLETE

272608252	Ø80*2750 w/ Top & Bottom
272608302	Ø80*3000 w/ Top & Bottom
272608402	Ø80*4000 w/ Top & Bottom
272610252	Ø100*2750 w/ Top & Bottom
272610302	Ø100*3000 w/ Top & Bottom
272610402	Ø100*4000 w/ Top & Bottom
272612252	Ø120*2750 w/ Top & Bottom
272612302	Ø120*3000 w/ Top & Bottom
272612402	Ø120*4000 w/ Top & Bottom
272614252	Ø140*2750 w/ Top & Bottom
272614302	Ø140*3000 w/ Top & Bottom
272614402	Ø140*4000 w/ Top & Bottom

PART NO. LIFTING HOSE LOOSE

1726825	Ø80*2750
1726830	Ø80*3000
1726840	Ø80*4000
17261025	Ø100*2750
17261030	Ø100*3000
17261040	Ø100*4000
17261225	Ø120*2750
17261230	Ø120*3000
17261240	Ø120*4000
17261425	Ø140*2750
17261430	Ø140*3000
17261440	Ø140*4000



PART NO. PROTECTIVE WEBBING

17268251	Ø80*2750
17268301	Ø80*3000
17268401	Ø80*4000
172610251	Ø100*2750
172610301	Ø100*3000
172610401	Ø100*4000
172612251	Ø120*2750
172612301	Ø120*3000
172612401	Ø120*4000
172614251	Ø140*2750
172614301	Ø140*3000
172614401	Ø140*4000



PART NO. SUCTION LIPS

1628100200	100*200 Black
1628100200W	100*200 Grey
1628120315	120*315 Black
1628150210	150*210 Black
1628150210W	150*210 Grey
1628200290	200*290 Black
1628200290W	200*290 Grey
1628200315	200*315 Black
1628200315W	200*315 Grey
162895430	95*430 Black



PART NO. SACK SUCTION LIPS

2628100315	100*315 f. 261100315
2628125245	125*245 f. 261125245
2628150290	150*290 f. 261150290



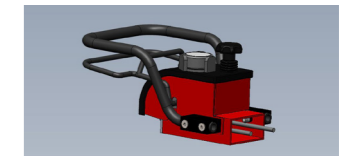
Complete filter housing
Part no. 132510 standard
Part no. 132510S stainless steel



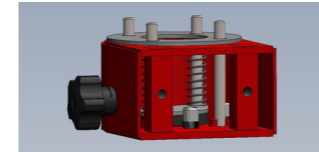
Manoeuvring handle My
Part no. 282500 Ø80 til Ø120
Part no. 282599 Ø140



Filter element
Part no. 132511



Manoeuvring box My
Part no. 282502



Vacuum house My
Part no. 282501



My with flexible extender-handle and release valve

Guidelines for configuration

Choice of lifting hose

When choosing a vacuum lifter, there are some simple ground rules to keep in mind:

- What does the load weigh?
- How is the item designed and the size/dimensions?
- What is the porosity of the workpiece?

The last is almost the most important. We are defining porosity as being either non-porous or porous.

Non-porous goes without saying. Here we are talking about a subject that is completely dense and by completely dense, we mean that you absolutely cannot suck through the subject, or that there are leaks in any way. Examples of completely dense surfaces are glass, metal, and plastic.

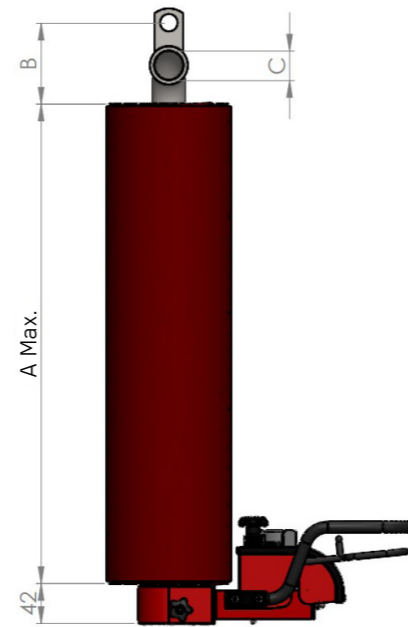
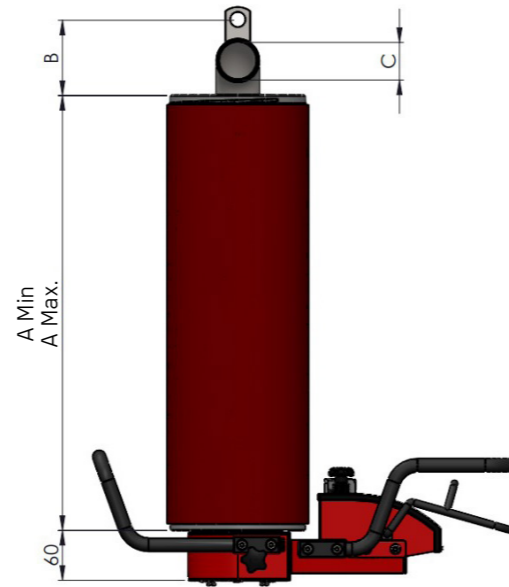
Porous parts, on the other hand, are more difficult to define, and as a starting point, it would be a good idea to carry out a test before choosing which type of vacuum lifter to use. Examples of porous items could be plasterboard, wood panels, heavy cardboard boxes, plastic film packaging, concrete, flamingo, and paper sacks.

The more porous an object is, the more flow m³ you want in the vacuum pump. If the workpiece is non-porous, high flow means a very fast upward movement in the vacuum hose. We say that the vacuum lifter becomes aggressive. But also the vacuum depth in the vacuum pump is an important factor. A high vacuum depth means that you can better "hold the workpiece" and you can also lift workpieces with higher weight. You can get "too good hold of the workpiece", making it difficult to release the workpiece again, and it may therefore be necessary to incorporate a release valve in the maneuvering handle.

On pages 12-13 and 22-23 you can see in the diagram some guiding recommendations in the choice of vacuum lifters. The choice of suction cups for the vacuum lifter is also a very important element. When lifting horizontally, there must be a safety factor of 2.5. This safety factor is found by dividing the cross-sectional area of the lifting tube into the area of the suction cup. Thus, the total area of the suction cup(s) must be 2.5 times greater than the cross-sectional area of the lifting hose. However, if you are lifting vertically with the suction cup, the safety factor must be 4. An exception with a safety factor of 2.5, is when using the vacuum lifter model Tau, where a safety factor of 2.3 is allowed.

Important

It is recommended that the suction cup is approximately 100 mm above the floor when the lifting hose is fitted. If not, the hose must be adjusted, as the suction cup must not be sucked to the floor under any circumstances when the vacuum pump is activated.



A MAX.	SUCTION HOSE A MIN.							
	Ø80	Ø100	Ø120	Ø140	Ø160	Ø180	Ø200	Ø230
2500	670	820	705	680	660	610	840	695
2750	740	890	755	730	720	690	890	775
3000	810	960	805	780	780	730	940	820
4000	1090	1240	1010	970	1040	990	1140	1140
B Alpha			80	80	90	90	90	90
B My	85	85	85	85				
C Alpha			Ø40	Ø40	Ø50	Ø50	Ø50	Ø50
C My	Ø25	Ø25	Ø25	Ø25				

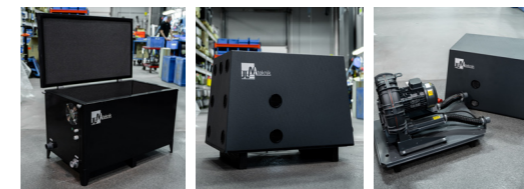
Noise

Noise in general is a major part of our working environment and exposes our hearing to a high risk of hearing damage and thus serious, incurable conditions. It is therefore very important that all noise is taken seriously and limited as far as possible.

Sound consists of sound waves. The strength of a sound is measured in decibel (dB). The lowest sound level a human can hear is 1 dB and the highest is around 140 dB. We also talk about a sound wave frequency, which means how many oscillations the sound wave has per second. A high frequency means that there are many oscillations and gives a high tone, whereas a sound with a low frequency has few oscillations and gives a low note. Humans can hear sounds with frequencies between 20 and 20,000 hertz.

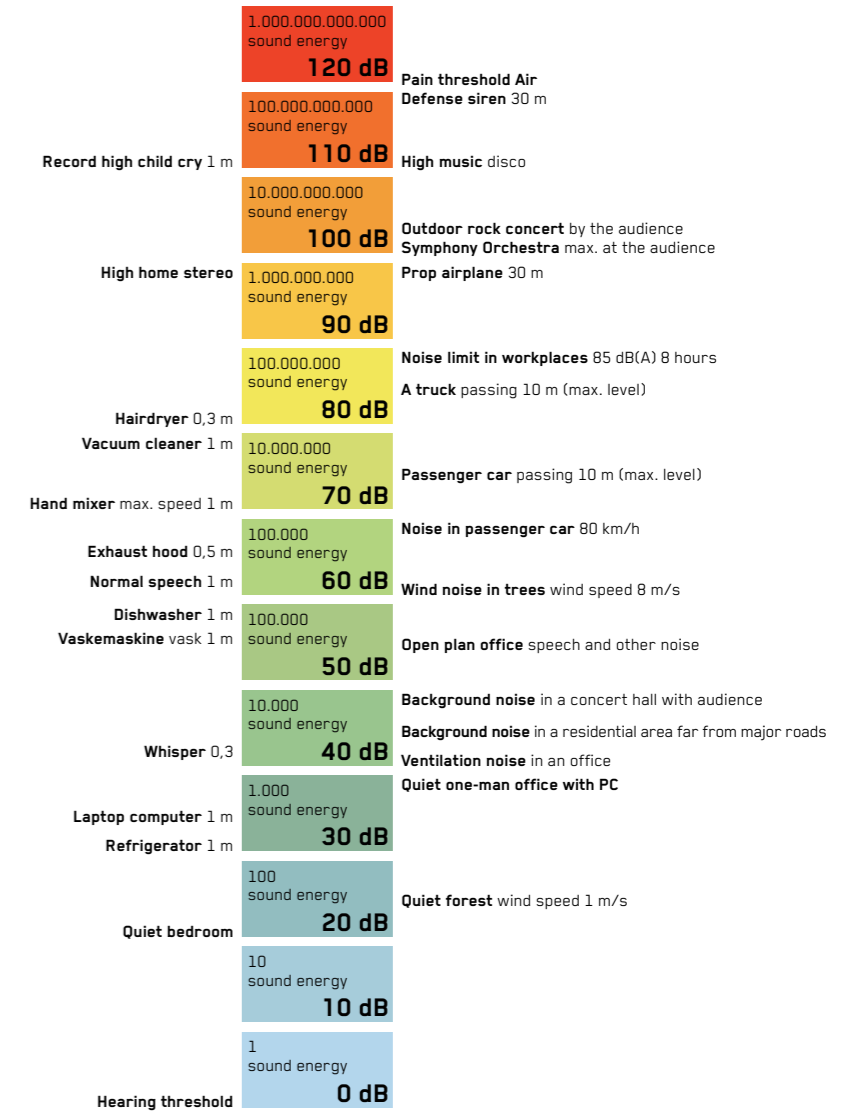
The ear perceives an incredible spectrum of sound - from a pin hitting the floor to a jet plane. To embrace this whole spectrum, the dB scale is logarithmic. 3dB up or down on the scale, therefore, means that the sound is doubled or halved. So twice 80dB is not 160dB - but 83 dB. (Source: Long, Marshall (2006): "Architectural Acoustics." Elsevier Academic Press, New York, USA.)

The maximum sound level you can tolerate in an 8-hour working day is 85dB. If you work in a noisy environment with sound levels above 85 dB, the law requires the use of hearing protectors.



Noise levels in everyday life

Sound pressure level dB (A)

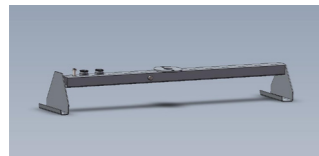


Information about noise and testing of vacuum pumps and vacuum lifters

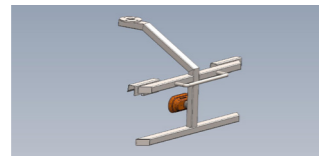
Test 1: Has been carried out with the pump placed on the floor. Here, measurements are taken at a distance of 1m and at a height of 1.5m.

TEST 1 PUMP TYPE	UNLOADED		LOADED	
	WITHOUT SOUND BOX	WITH SOUND BOX	WITHOUT SOUND BOX	WITH SOUND BOX
D25	70 dB	66 dB	82 dB	80 dB
F20	78 dB	60 dB	81 dB	58 dB
F30	78 dB	61 dB	81 dB	58 dB
F40	80 dB	62 dB	82 dB	60 dB
802	80 dB	66 dB	74 dB	64 dB
902	81 dB	67 dB	76 dB	65 dB

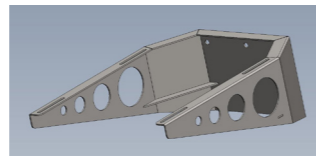
Other accessories



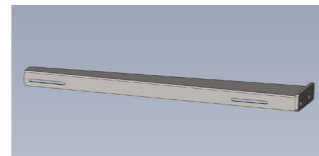
Box yoke for E2 plastic boxes
Part no. 261002



Box yoke E2 plastic boxes
Part no. 261003



Wall bracket for vacuum pump
Part no. 132700



Wall bracket for vacuum pump
Part no. 132800



Wireless radio control vacuum pump. Complete
Part no. 131111



Wireless radio control with timer
Part no. 131112



Receiver radio control
Part no. 131113



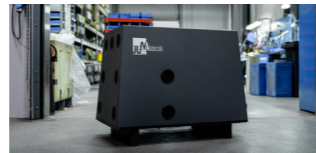
Transmitter radio control
Part no. 131114



Holder for transmitter
Part no. 131115



Soundbox w/ventilation for F pumps
Part no. 132200



Soundbox for pumps D25 -802 - 902
Part no. 231500



My mounted in easy running
alu traverse system

Tile lifter

Danish-made, a user-friendly mini crane that can be used for laying tiles. The tiles can be lifted horizontally and vertically.

- Lifting capacity up to 35 kg
- Supplied with a red vacuum hose (Ø100) and My control handle
- Pump 802, 1,3 kW 400v 50Hz
- Suction cup 150 x 210 mm
- For euro pallets on a foundation (800 x 1200 mm)
- Foundation 800 x 1500 mm
- Overall height: 2500 mm
- Transport height: 1900 mm
- Height under extension arm: min 1400 mm, max 2090 mm
- Lock-on crane arm during transport
- Maximum lifting height from footplate: 1030 mm
- Maximum lifting height from floor: 1300 mm
- Parking stand for maneuvering handle
- The Crane column is raised/lowered with a winch
- The column can be locked with a pawl every 200 mm
- ON/OFF for vacuum pump is located under a protective shield
- Vacuum pump connected to CE plug (400 v 50 Hz)
- 9-meter power cable included
- Fork pockets on the underside, the crane can be lifted and moved by truck
- Fitted with 4 wheels, 2 of which can be locked
- Net weight 640 kg
- Colour grey RAL 7011
- CE-approved



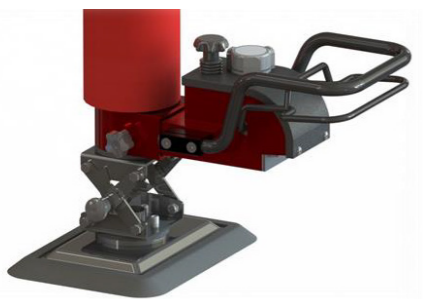
Portable vacuum crane

Danish-made, user-friendly mini crane with vacuum, which can be used where flexibility is required concerning lifting. For example, sacks, wood, cardboard boxes, etc.

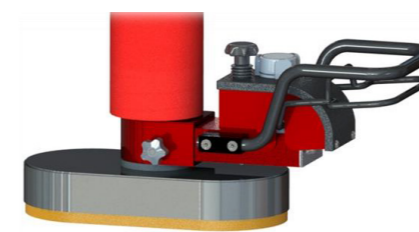
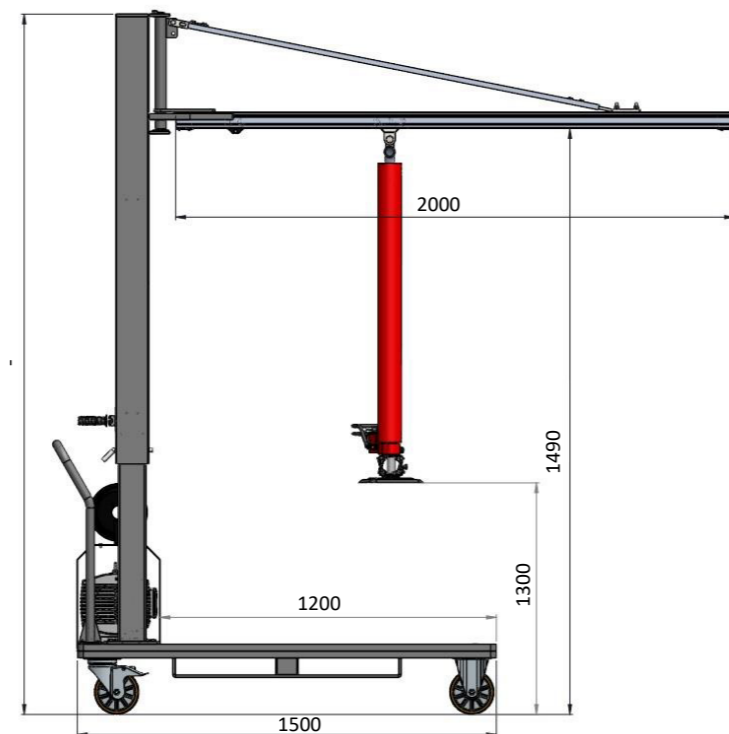
- Supplied with a red vacuum hose (Ø100) and My control handle
- Vacuum pump D25 3,0 kW 400 v 50 Hz
- A suction pad for product handling
- Crane dimensions 800 (1035) mm x 1250 (1850) mm
- Overall height max. 2800 mm
- Transport height min. 2010 mm
- Height under extension arm: min. 1650 mm, max. 2400 mm
- Lock-on crane arm during transport
- Maximum lifting height: 1650 mm
- The Crane column is raised/lowered with a winch
- The column can be locked with a pawl every 200 mm
- ON/OFF for vacuum pump is located under the protective shield
- The vacuum pump must be connected with a CE plug 400 v 50 Hz
- 9-meter power cable included
- Fitted with a tow bar and 4 wheels
- Support feet are adjustable and can be removed
- Own weight of 650 kg
- CE-approved



The Crane column is raised/lowered with a winch



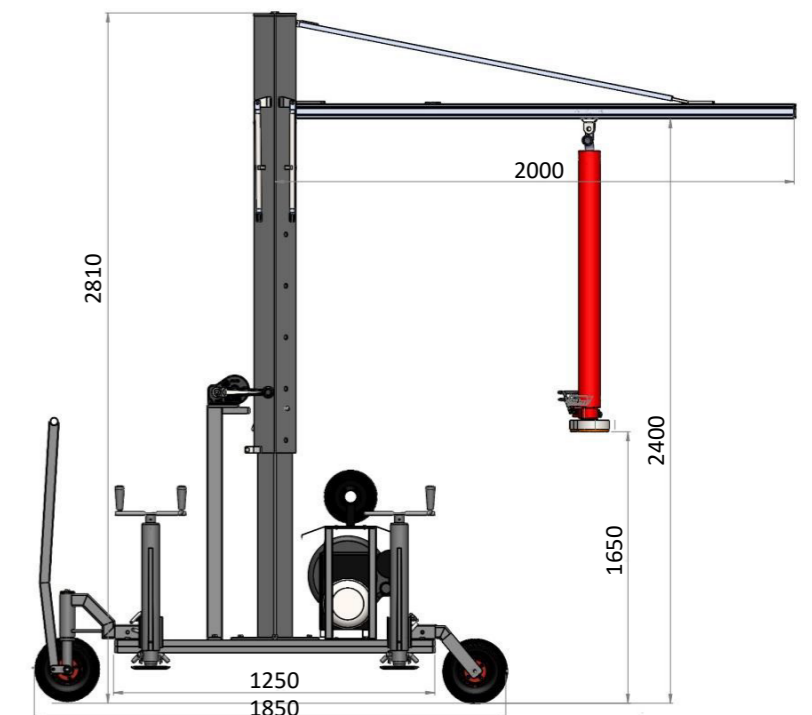
Suction cup



Suction cup



Support feet



Made in Denmark 

Subject to typographical errors.



JLM teknik ApS, Erhvervsparken 2, DK-9500 Hobro • Tel. +45 9857 6060 • info@jlmteknik.dk • www.jlmteknik.dk