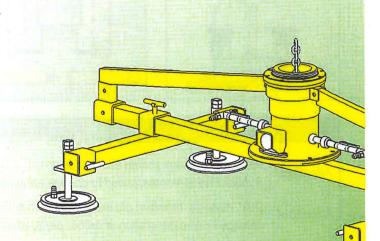


# Non-powered Vacuum Suction Lift

By Frot'z Co., Ltd.

Used in conveying steel plates.

Proof of convenience and labor savings



# Non-Powered Vacuum Suction Lift

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### Non-Powered

Electricity, Pumps and air supplies are not necessary. Simply sue cranes to lift up/down the Suction Lift. Troublesome wiring and piping are not necessary.

Convenient

Easy Handling & Efficient

Our original switching valve makes material lifting and releasing automatically. Just up-and-down process by a lifting crane is necessary

Easy

B

Safety

Safe material lifting by strong suction process by our own mechanism. Impact resistance and safety is our importance.

Safe

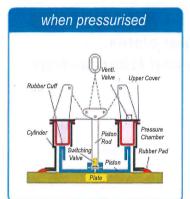
Versatile Use

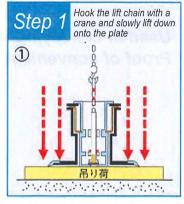
As opposed to magnetic lifting, this vacuum lift is versatile. It can be used to ferrous and nonferrous materials even stone plates with airtight flat surface without damaging material surface.

High Capability

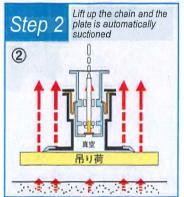
## Mechanism

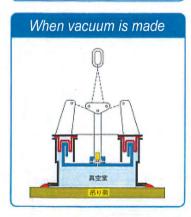
duplex structue with vacuum and pressure chambers

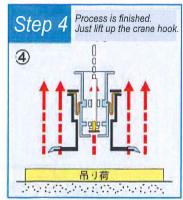


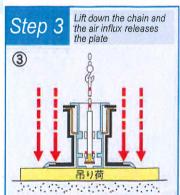












#### Maintenance

Pre-use and half-year inspection and maintenance is recommended

Attention!

Vacuuming device should avoid air leak.

Rubber Pad is recommended to change annually. The lifting chain should be changed when 10% is worn out.

Attention!

Dust, cuttings, moisture etc inside the lift body interfere the normal operation, and furthermore it leads to damages and deteriotation of rubber parts, which makes airleak.

Attention!

Pre-use Inspection and annual inspection are highly recommended to avoid serious accidents to operators and to the property. For any maintenance assistance, please don't hesitate to contact us.

#### Standard Size Plate Models, Type M, Multi-Arms with 4-6 rubber pads

Model No.	Max. Lifting Weight	Pad Dia. x Nos. of Pad	Plate Size mm	Plate Thickness mm	Lift Size mm	Weight	
M-4	- 220kg	<b>ø 210</b> × 4. Pads	900 x 1800 1200 x 2400	t =16mm t =9.0mm	H=850 L=1,800 W=900	79kg	
M300-210-4P	220kg						
M-5	220kg	φ 210× 6 Pads	900 x 1800 1200 x 2400 1500 x 3000	t =16mm t =9.0mm t =6.0mm	H=850 L=1,800 W=900	89kg	
M300-210-6P							
M-6	350kg	φ 210× 6 Pads	900 x 1800 1200 x 2400 1500 x 3000	t =25mm t =12mm t =9.0mm	H=1,000 L=1,800 W=900	125kg	2 6
M450-210-6P	Johns						
M-7	- 600kg	<b>∳ 300</b> × <b>6</b> Pads	900 x 1800 1200 x 2400 1500 x 3000	t =45mm t =25mm t =16mm	H=1,100 L=1,800 W=900	164kg	
M750-300-6P							538

### Type S, Single Type with 1 rubber pad

Model No.	Max. Lifting Weight	Pad Dia	Lift Size mm	Weight	Model No.	Max. Lifting Weight	Pad Dia	Lift Size	Weight	He-Tacol(g)C
580	80kg	φ 210	H=565 W=210	12kg	S750	750kg	φ 480	H=745 W=480	75kg	if
S200	200kg	φ 300	H=595 W=300	23kg	S1250	1,250kg	φ 630	H=870 W=630	137kg	100
S300	300kg	φ 350	H=600 W=350	26kg	\$2500	2,500kg	φ 880	H=1,110 W=880	296kg	
S450	450kg	φ 400	H=約650 W=400	52kg	SM300	150kg	□130 ×400	H=625 W=400	31kg	

The second second	By-Order	Models		Long Plate Models (Adjustable Base Frame)				
Model No.	Max. Lifting Weight	Pad Dia x Nos.		Model No.	Max. Lifting Weight	Pad Dia x Nos.	Paparata series	
M200 (M300-350-2P)	200kg	φ350×2	1,800mm	M300L-210-8P	220kg	ø 210×8	- female	
M400 (M450-350-2P)	400kg	φ350×2	1,800mm	M450L-210-8P	350kg	φ210×8	Elizik.	
SM450-130×400-2P	300kg	□130×400×2	750mm	M750L-300-6P	600kg	φ300×6		
M450-300-4P	350kg	φ300×4	1,800mm	M750L-300-8P	600kg	φ300×8	3-3	
M750-300-4P	600kg	φ300×4	1,800mm	M1250L-300-8P	1,000kg	φ300×8	100,000,000	
M1250-350-6P	1,000kg	φ350×6		M2500L-350-8P	2,000kg	φ350×8	3,000mm	



特型: M2500L-350-8P



特型:M1250-300-10P(アルミフランジ)



長尺鋼板型: M750-300-3P



長尺鋼板型: M750-300-5P

#### For choosing appropriate Lift

Please check the size, thickness and weight of the materials you want to convey and choose the appropriate model. You can simply contact us giving those information, so that we recommend the lift.

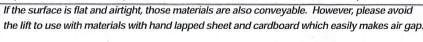
For thin and long materials, numbers of pads are recommended to have more than our standard models according to usage situation.

#### Q&A

Feel free to contact us for maintenance etc.



Is it possible to use with Steell plates with oxide surface and stainless steel with surface protective films? If the surface is flat and airtight, those materials are also conveyable. However, please avoid





Is it possible to convey variable materials with variious thickness and sizes?

We have various models and you can select suitable model for your job. Or simply please contact us with necessary information about the materials so that we can recommend appropriate model.



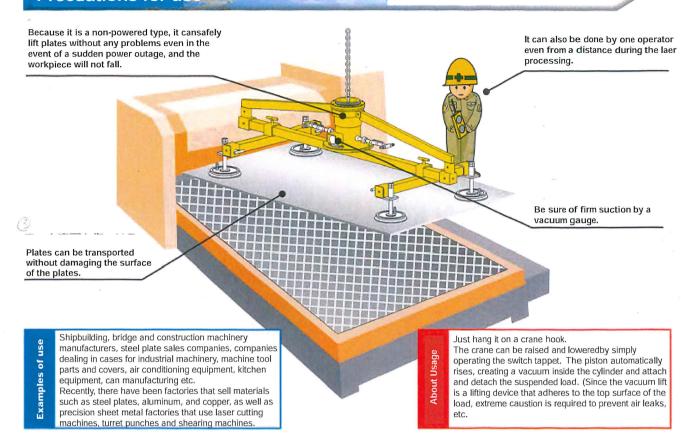


detailed inquiry.

According to the conditions, is it possible to do parallel convey, 90-degree inversion convey? We can also recommend powered vacuum lift for your need. Please contact us with



#### Precautions for use



#### **Examples**

For factories and sellers of steel plates, stainless plates, aluminum, copper etc



Precision plates factories using laser cutting, shear -ing, turret punching machines



Non-ferrous materials like aluminum plates can be safely lifted up without damaging the surface.



The photo shows a model that is ideal for transporting fixed-length steel plates to a laser processing machine or shearing machine.
M-7 type (Max 600kgs)



Factories that handle large steel plates such as shipyards and steel mills.

In recent years, laser process-ing machines have become capable of processing plates that are 20mm or thicker, and these heavy steel plates also can be transported safely.

