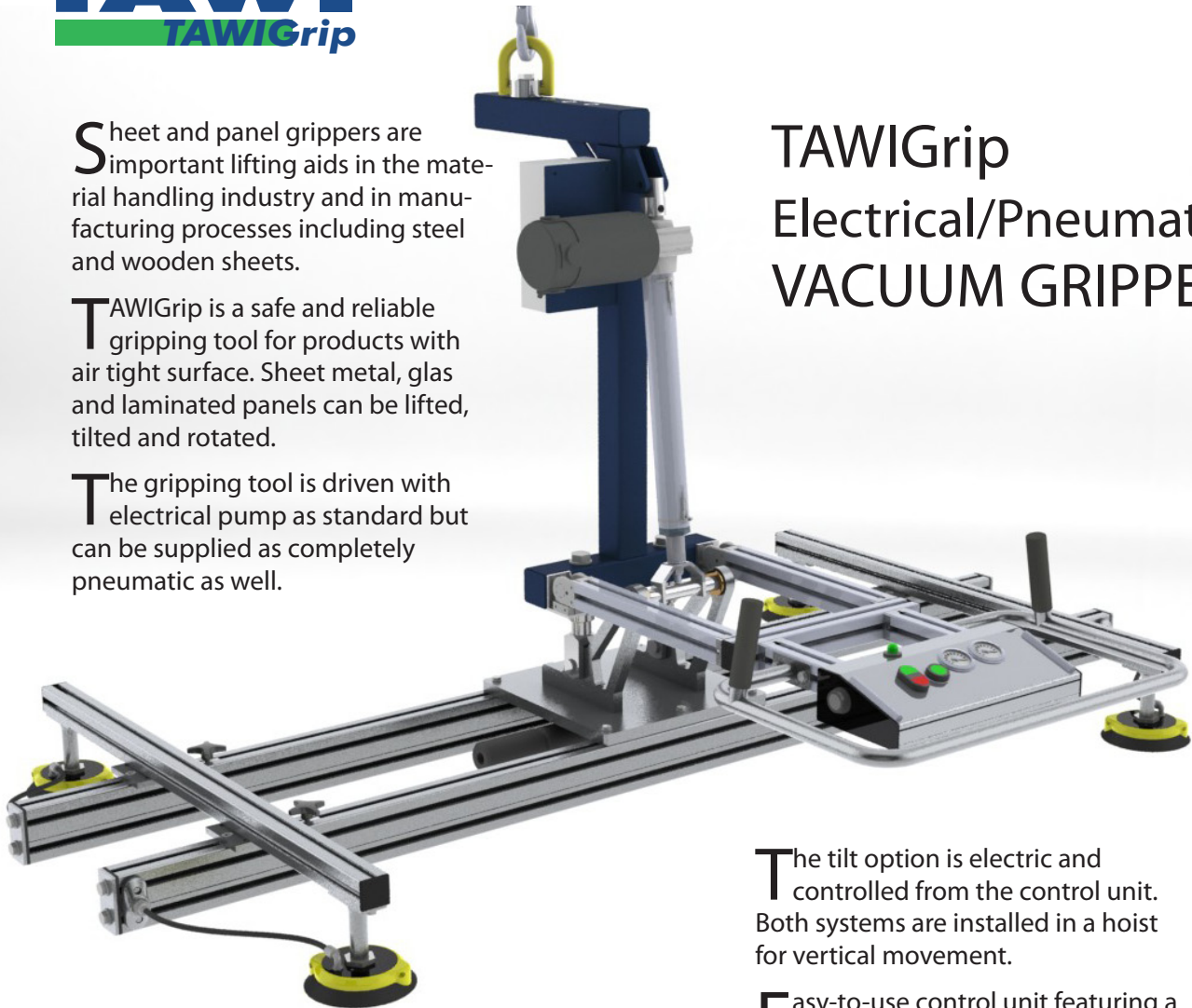


Sheet and panel grippers are important lifting aids in the material handling industry and in manufacturing processes including steel and wooden sheets.

TAWIGrip is a safe and reliable gripping tool for products with air tight surface. Sheet metal, glass and laminated panels can be lifted, tilted and rotated.

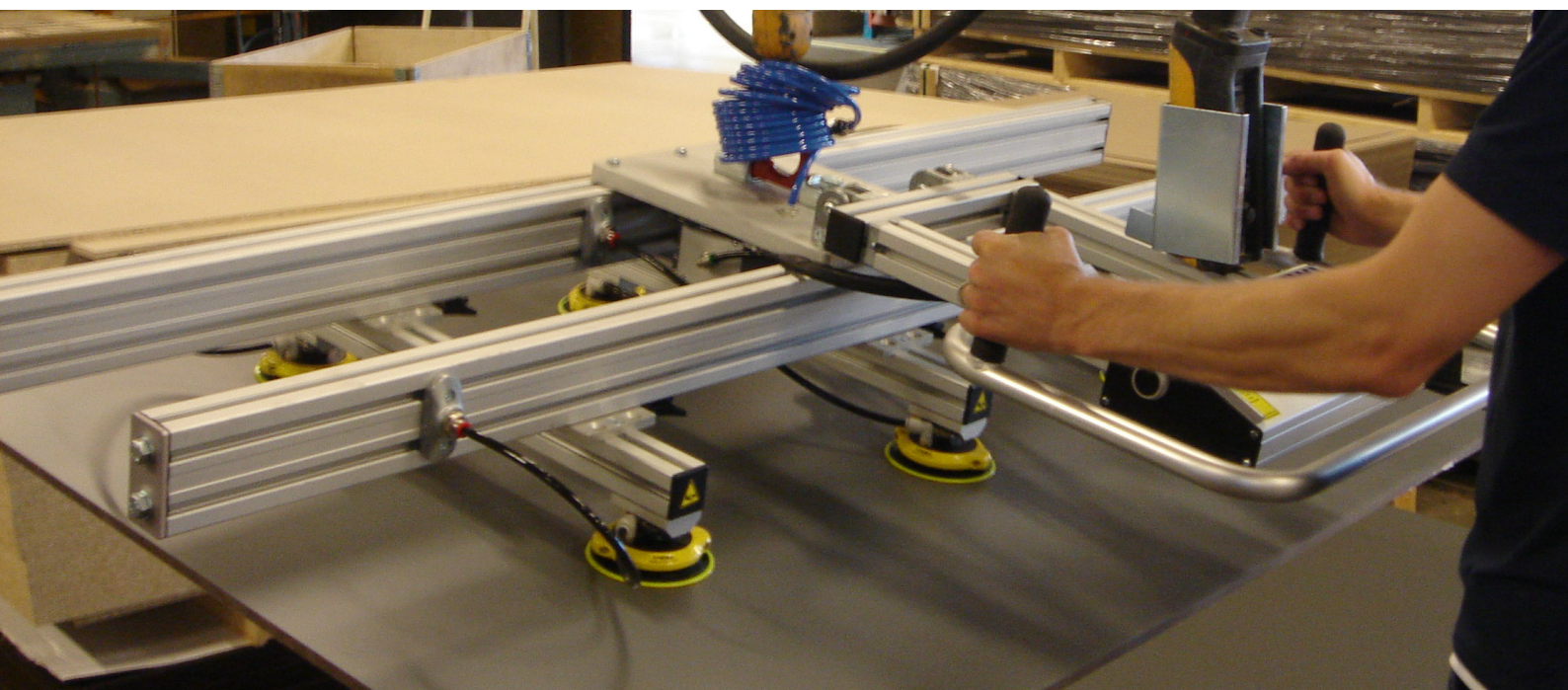
The gripping tool is driven with electrical pump as standard but can be supplied as completely pneumatic as well.

## TAWIGrip Electrical/Pneumatic VACUUM GRIPPER



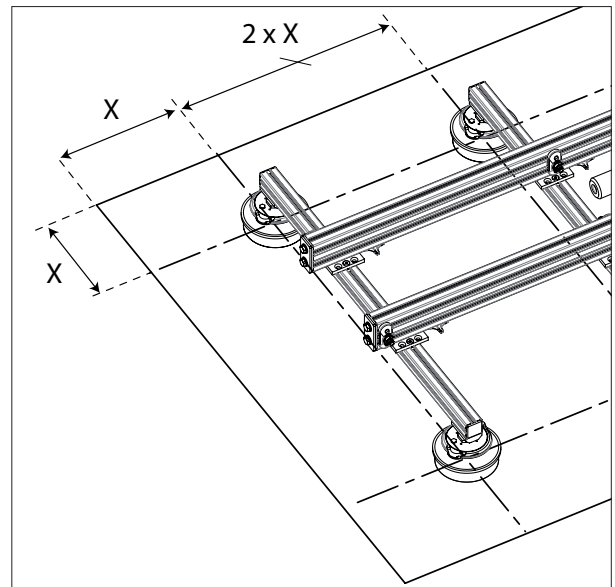
The tilt option is electric and controlled from the control unit. Both systems are installed in a hoist for vertical movement.

Easy-to-use control unit featuring a safe two-handed release function and visual control of the vacuum level. All TAWIGrips have a safety system based on a twin-chamber vacuum system with check valves.



### Calculate amount and positioning of suction cups

OVERHANG (X mm) steel/aluminium:		OVERHANG (X mm) glass:	
Thickness	Max overhang	Thickness	Max overhang
0,5	350	4	508
1	550	5	635
1,5	650	7	736
2	750	8	812
3	950	10	889
4	1100	13	1041
5	1200	16	1168
8	1500	20	1270
10	1650	23	1371
12	1950	26	1473
15	2150		
20	2350		
25	2700		



Specification overhang

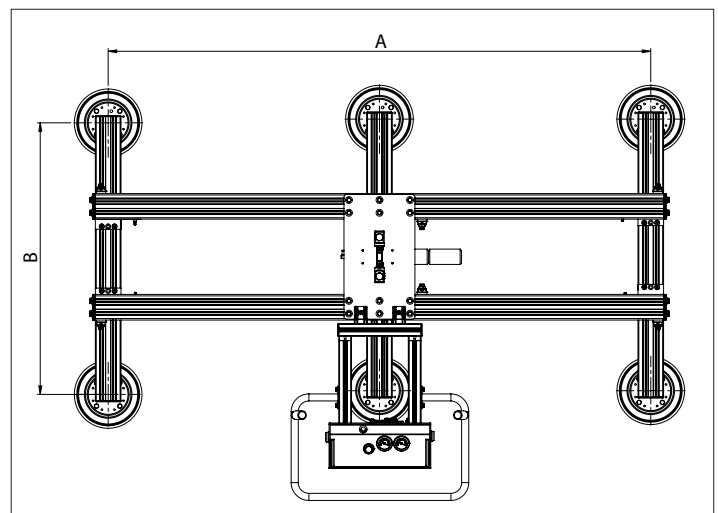
Choose  
horizontal  
or tilt

Find  
Max cap. =  
load weight

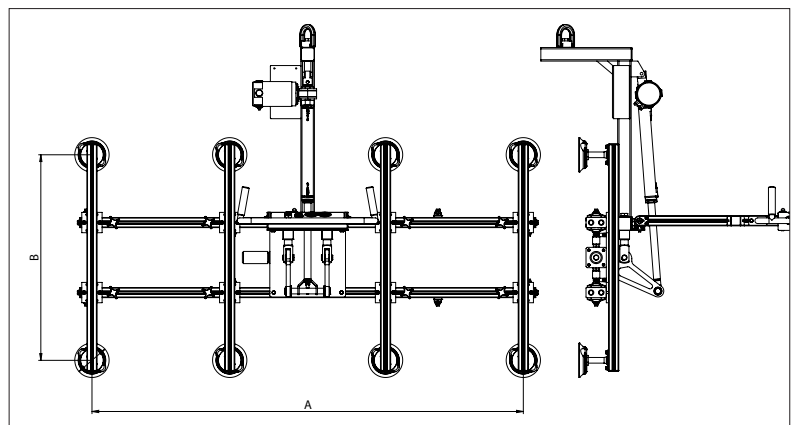
Amount of  
suction cups

TAWIGrip vacuum yoke						
TYPE	Max cap	Art nr	No of cups	Size of cups	A (mm) max	B (mm) max
Horizontal	170 kg	759040	4	Ø150	1500	1000
	255 kg	759060	6	Ø150		
	340 kg	759080	8	Ø150		
	375 kg	759045	4	Ø200		
	500 kg	759065	6	Ø200		
	500 kg	759085	8	Ø200	3000	2000
	170 kg	759240	4	Ø150		
	255 kg	759260	6	Ø150		
	340 kg	759280	8	Ø150		
	375 kg	759245	4	Ø200		
90° Tilt	500 kg	759265	6	Ø200	1500	1000
	500 kg	759285	8	Ø200		
	120 kg	758040	4	Ø150		
	180 kg	758060	6	Ø150	3000	2000
	240 kg	758080	8	Ø150		
	120 kg	758240	4	Ø150		
	180 kg	758260	6	Ø150		
	240 kg	758280	8	Ø150		

\*Other combinations and type of suction cups on request.



EXAMPLE 1: TAWIGrip (759060) max 255kg, with 6 pcs of Ø150mm suction cups



EXAMPLE 2: TAWIGrip with tilt (758280) max 240 kg, with 8 pcs of Ø150mm suction cups

TAWI AB

Box 10205 434 23 KUNGSBACKA SWEDEN

Tel +46 (0)300 18500

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## TAWIGRIP HANDLING ANALYSIS

COMPANY:.....NAME:.....

REFERENCE:.....DATE:.....

### Goods to be handled:

Short description of the handling:

Type of material (wood, metal, plastic etc):

Surface for suction area (oily, wet, rough):

Is the goods air tight? (yes, no):

Frequency of handling (per day):

Max and min length of goods (Operator side):

Max and min width of goods:

Min thickness of goods:

Weight of goods:

Minimum lifting height (position of where goods are picked up):

Maximum lifting height (position of where goods are dropped, emptied etc):

Type of handling (horizontal, vertical, tilt):

Type of accessories (height compensator, on/off valves etc):

Other important info:

Please add photos, drawings and or sketches for application

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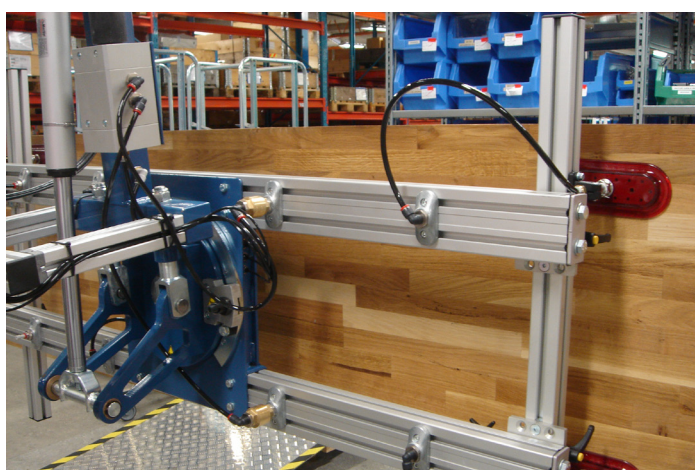
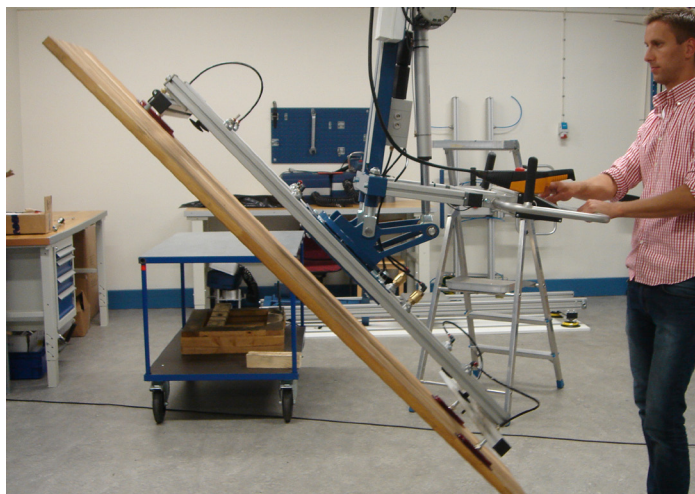
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## OPTIONS:

- 90° VERTICAL TILT
- 90° HORIZONTAL ROTATION



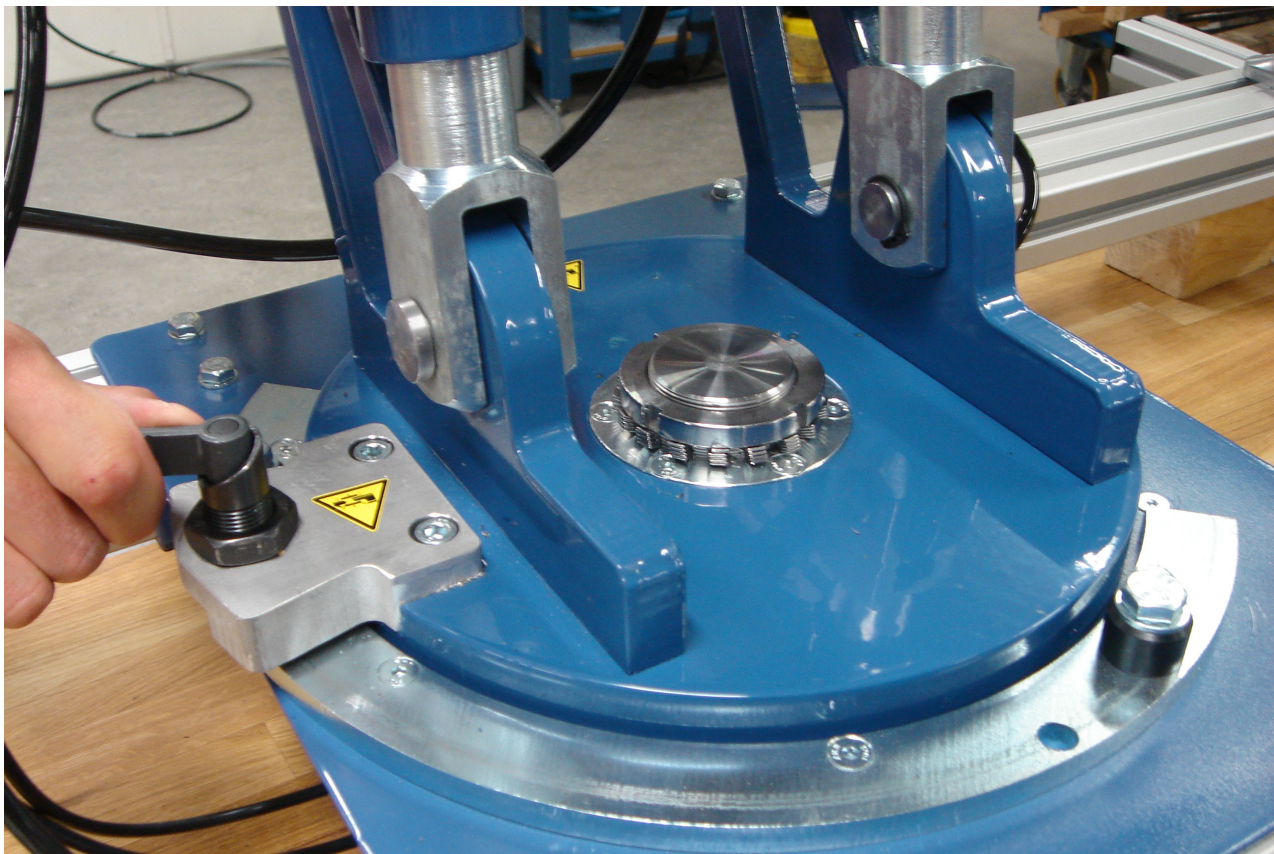
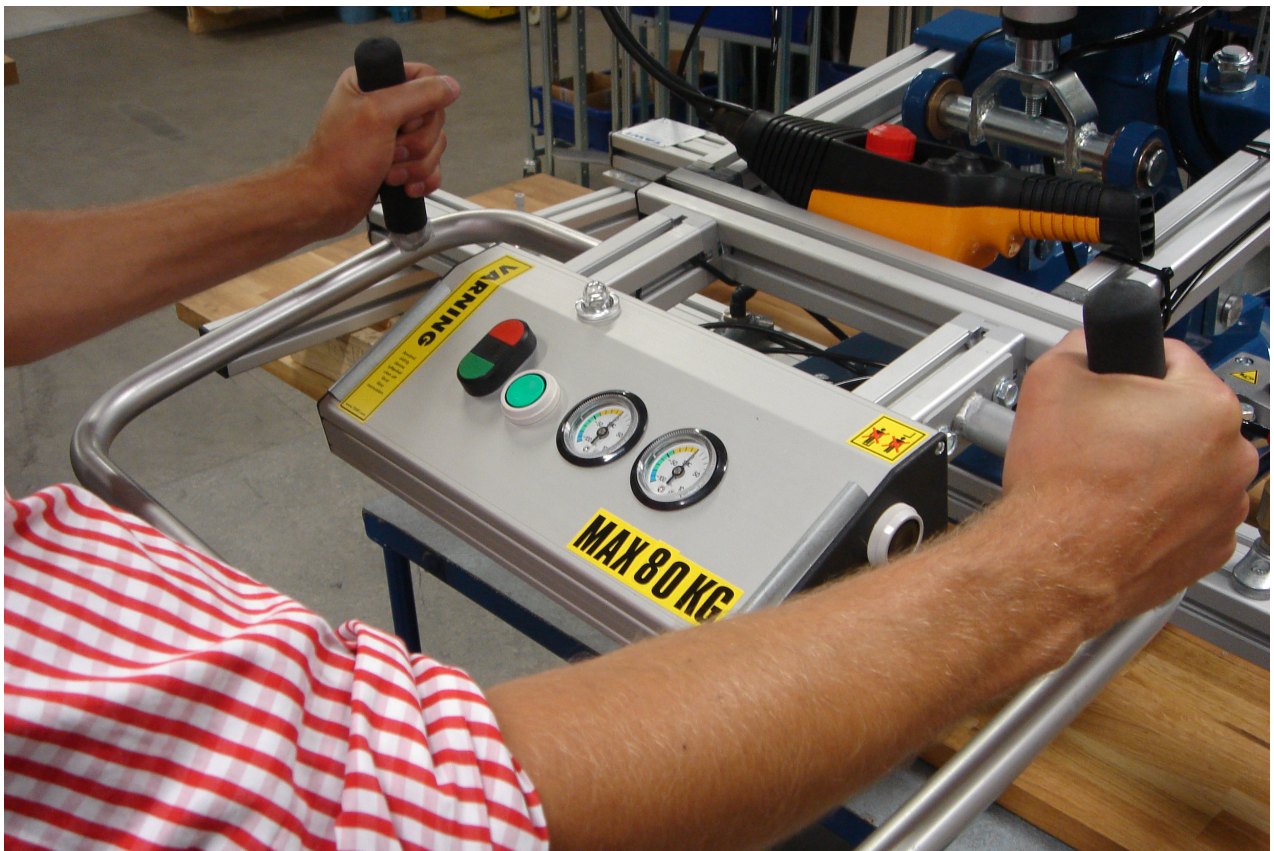
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## TAWIGrip vacuum grippers for sheet/panel up to 500 kg

### TAWIGRIP DOOR LIFTER

These doors weigh 80 kg.  
Before the investment in a  
TAWIGrip vacuum gripper,  
the doors were lifted manually.

The TAWIGrip is a 4-foot yoke, max  
capacity 80 kg, with two crossbars  
on a main yoke.  
Vacuum source is pneumatic.

The door is gripped and picked  
up from a vertical position and  
tilted 90 degrees into a horizontal  
position.

It is rotated 90 degrees in the  
horizontal plane and then tilted to  
be placed in a vertical position in  
the rack.

Even though the working area is  
small and ceiling height low, it is  
possible to install this lifting aid.  
The TAWIGrip is suspended in a  
Lyftman SPECIAL PROJECT under-  
braced jib arm UVM, in LR170 steel  
profile, max 150 kg.



- TAWIGrip vacuum gripper can lift, tilt and rotate sheet metal, glass and laminated panels.
- Choose between: TAWIGrip with Pneumatic Vacuum Source or Electric Vacuum Source.
- Horizontal: Up to 500 kg or more on request. Vertical: Up to 250 kg.
- Choose between: Horizontal-Horizontal, Horizontal-Vertical, Vertical-Vertical
- Safe, two-handed release function
- Visual control of the vacuum level
- Easy-to-use control board
- Twin chamber vacuum system
- Light weight design



# TAWI



## TAWIGrip vacuum grippers for sheet/panel up to 500 kg

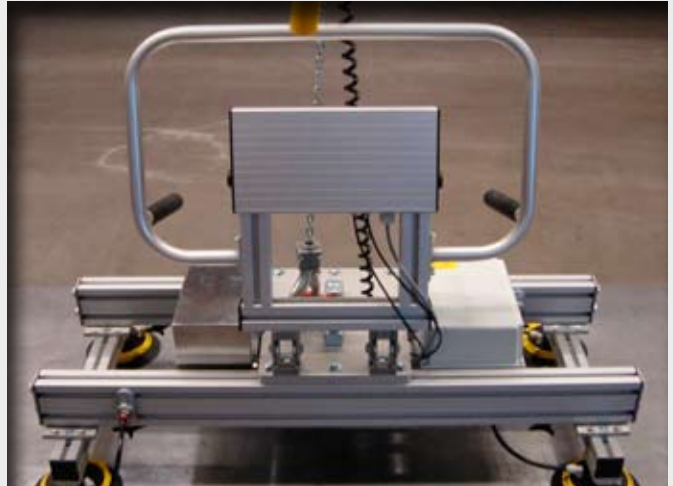
### TAWIGRIP SHEET METAL LIFTER

This is an electric vacuum yoke with two crossbars and four suction cups, Ø150 mm.

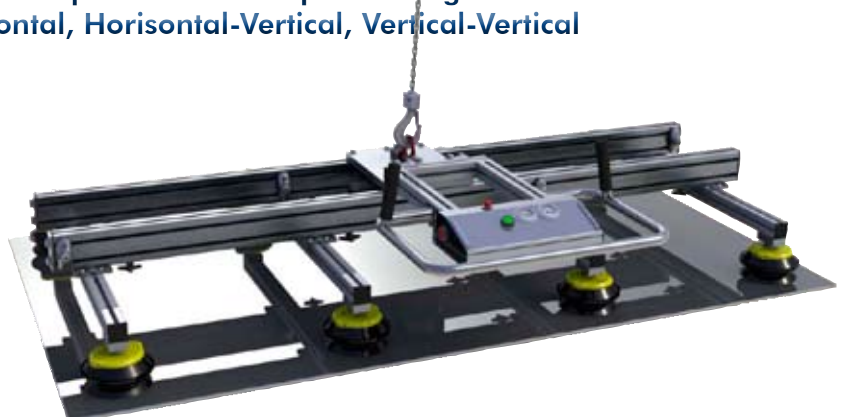
Max lifting capacity is 170 kg.

The handle is foldable, 90° upwards, to save space when not in operation.

The vacuum is generated electrically on this gripper, no compressed air necessary. An electric pump creates the correct level of vacuum in the yoke system and then shuts down. If the under pressure sinks below 60%, the pump automatically restarts to reach correct level.



- TAWIGrip vacuum gripper can lift, tilt and rotate sheet metal, glass and laminated panels.
- Choose between: TAWIGrip with Pneumatic Vacuum Source or Electric Vacuum Source.
- Horizontal: Up to 500 kg or more on request. Vertical: Up to 250 kg.
- Choose between: Horizontal-Horizontal, Horizontal-Vertical, Vertical-Vertical
- Safe, two-handed release function
- Visual control of the vacuum level
- Easy-to-use control board
- Twin chamber vacuum system
- Light weight design



# TAWI

## TAWIGrip vacuum grippers for sheet/panel up to 500 kg

### TAWIGRIP PANEL TURNER 180°

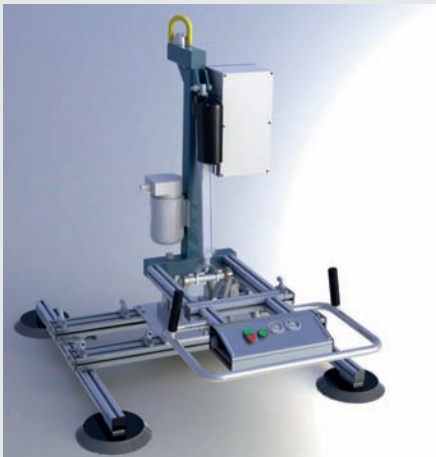
#### Project nr 17519

TAWIGrip vacuum gripper lifts and turns these wood panels 180 degrees. The panels were previously lifted, turned and placed in the machine by two persons. With TAWIGrip the panels can be moved into the machine by one person.

Our client manufactures custom made kitchen desk tops. Dimensions between 3-5 m x 0,7-1,3 m, max weight 120 kg. This TAWIGrip is equipped with all-electric functions operated from the control box.

Suggestion on suspension of the vacuum gripper and chain hoist, see next page.

For video, go to [www.tawi.us](http://www.tawi.us) "SEARCH".



TAWIGrip vacuum gripper can lift, tilt and rotate sheet metal, glass and laminated panels.

Pneumatic Vacuum Source or Electric Vacuum Source.

Horizontal: Up to 500 kg.  
Vertical (tilt): Up to 250 kg.  
or more on request.

- Safe, two-handed release function
- Visual control of the vacuum level
- Easy-to-use control board
- Twin chamber vacuum system
- Light weight design





### TAWIGRIP GLASS LIFTER

This TAWIGrip has an electric vacuum source and four suction cups, Ø190 mm, on two cross bars. Max capacity 170 kg.

The window is picked up from a vertical position, tilted to horizontal position where assembly work takes place. The window is then tilted to 70° and positioned in a wall module.

Both vacuum source and tilt unit is electric on this TAWIGrip, no compressed air necessary.

An electric pump creates the correct level of vacuum in the yoke system and then shuts down. If the under pressure sinks below 60%, the pump automatically restarts to reach correct level.

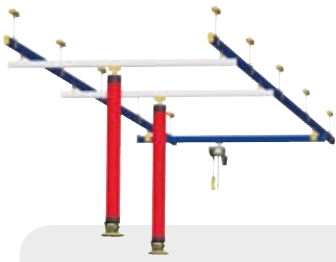


- TAWIGrip vacuum gripper can lift, tilt and rotate sheet metal, glass and laminated panels.
- Choose between: TAWIGrip with Pneumatic Vacuum Source or Electric Vacuum Source.
- Horizontal: Up to 500 kg or more on request. Vertical: Up to 250 kg.
- Choose between: Horizontal-Horizontal, Horizontal-Vertical, Vertical-Vertical
- Safe, two-handed release function
- Visual control of the vacuum level
- Easy-to-use control board
- Twin chamber vacuum system
- Light weight design

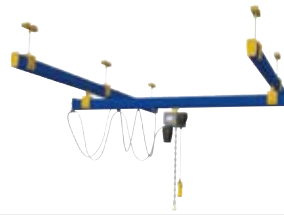


# TAWI

# Lyftman over head crane systems and jib cranes



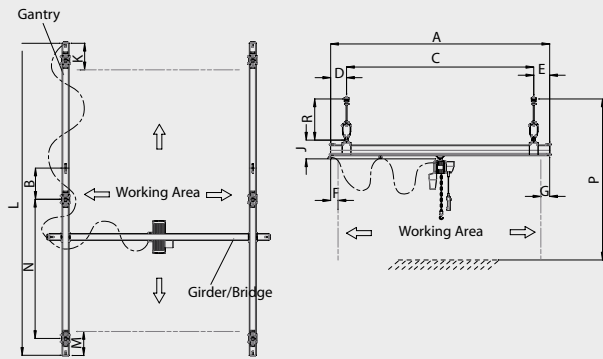
For productions lines with several working stations.  
A separate crane bridge is installed for each station. There is no limit to the length of this gantry, 50-60 metres is common.



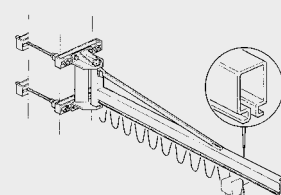
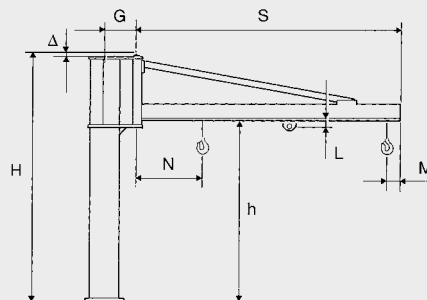
Basic overhead x-y crane system.  
Competitive pricing, fast deliveries, high quality and easy installation is the secret behind this popular solution.

## Lyftman single bridge crane systems max 1500 kg

Profile type	(mm)	40 kg	60 kg	80 kg	125 kg	250 kg	500 kg	1000 kg	1500 kg
LR86	N max	3750	3200	2900					
	M	80	80	80					
	K	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G					
	A max	4000	3400	3000					
	R	150-778	150-778	150-778					
	J	150	150	150					
	G	80	80	80					
	F	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G					
LR113	N max	6000	5200	4700	3900				
	M	110	110	110	110				
	K	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G				
	A max	6000	6000	5300	4400				
	R	200-828	200-828	200-828	200-828				
	J	190	190	190	190				
	G	110	110	110	110				
	F	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G				
LR120	N max	8000	8000	7000	6100	4700	2300		
	M	105	105	105	105	105	220		
	K	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G		
	A max	8000	8000	8000	7100	5300	3700		
	R	285-883	285-883	285-883	285-883	285-883	285-883		
	J	250	250	250	250	250	250		
	G	105	105	105	105	105	220		
	F	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G		
LR170	N max	-	-	8000	8000	8000	6300	3300	2300
	M	-	-	110	110	110	110	230	230
	K	-	-	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G
	A max	-	-	8000	8000	8000	7100	3900	2700
	R	-	-	285-883	285-883	285-883	285-883	285-883	285-883
	J	-	-	250	250	250	250	250	250
	G	-	-	110	110	110	110	230	230
	F	-	-	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G	L/1,5*70+G



## LRP/LRV jib arms up to 500 kg



Chain hoist must be ordered separately, not included in jib crane delivery.  
Fixing system for floor/wall NOT INCLUDED.

Lifting capacity (kg)	Arm S			Size of jib crane	LRV Wallmounted Jib Cranes Channel Profile										Weight crane (kg)
	Nominal length (m)	True length (mm)	Art. nr.		Dimensioner (mm)										
					A	B	C	D	E	F	G	H			
63	4	4056	A	LRV4/63	170	552	664	200	594	150	15	74	3		
	5	5056	A	LRV5/63	170	552	664	200	594	150	15	87	3		
	6	6056	B	LRV6/63	170	552	664	200	594	150	15	100	3		
	7	7056	B	LRV7/63	170	552	664	200	594	150	15	113	3		
	2	2056	A	LRV2/125	170	552	664	200	594	150	15	48	3		
	3	3056	A	LRV3/125	170	552	664	200	594	150	15	61	3		
125	4	4056	B	LRV4/125	170	552	664	200	594	150	15	74	3		
	5	5056	B	LRV5/125	170	552	664	200	594	150	15	87	3		
	6	6056	C	LRV6/125	210	820	930	250	870	190	22	135	3,5		
	7	7056	C	LRV7/125	210	820	930	250	870	190	22	150	3,5		
	2	2056	B	LRV2/250	170	552	664	200	594	150	15	48	3		
	3	3056	B	LRV3/250	170	552	664	200	594	150	15	61	3		
250	4	4056	C	LRV4/250	210	820	930	250	870	190	22	105	3,5		
	5	5056	C	LRV5/250	210	820	930	250	870	190	22	120	3,5		
	6	6056	D	LRV6/250	210	820	930	250	870	190	22	202	3,5		
	7	7056	D	LRV7/250	210	820	930	250	870	190	22	228	3,5		
	2	2036	C	LRV2/500	210	820	930	250	870	190	22	75	3,5		
	3	3066	C	LRV3/500	210	820	930	250	870	190	22	90	3,5		
500	4	4066	D	LRV4/500	210	820	930	250	870	190	22	113	3,5		
	5	5066	D	LRV5/500	210	820	930	250	870	190	22	129	3,5		
	6	6066	E	LRV6/500	255	1100	1240	300	1160	220	24	270	4		
	7	7066	E	LRV7/500	255	1100	1240	300	1160	220	24	300	4		
	3	3066	C	LRV3/500	210	820	930	250	870	190	22	90	3,5		
	4	4066	D	LRV4/500	210	820	930	250	870	190	22	113	3,5		
LRP Column Jib Crane, Channel profile	3	LRP4/63	2496	220	34	125	585	12	124	18					
	3	LRP5/63	2496	220	34	125	645	12	137	18					
	3	LRP6/63	2496	255	34	125	730	12	182	28					
	3	LRP7/63	2496	255	34	125	790	12	195	28					
	2	LRP2/125	2496	220	34	125	525	12	98	18					
	3	LRP3/125	2496	220	34	125	585	12	111	18					
LRP Column Jib Crane, Channel profile	3	LRP4/125	2496	255	34	125	610	12	156	28					
	3	LRP5/125	2496	255	34	125	670	12	169	28					
	3,5	LRP6/125	2738	310	34	125	800	17	253	34					
	3,5	LRP7/125	2738	310	34	125	860	17	268	34					
	3	LRP2/250	2496	255	34	125	550	12	130	28					
	3	LRP3/250	2496	255	34	125	610	12	143	28					
LRP Column Jib Crane, Channel profile	3,5	LRP4/250	2738	310	34	125	680	17	223	34					
	3,5	LRP5/250	2738	310	34	125	740	17	238	34					
	3,5	LRP6/250	2738	360	40	140	850	17	381	51					
	3,5	LRP7/250	2738	360	40	140	910	17	407	51					
	3,5	LRP2/500	2738	310	34	250	745	17	193	34					
	3,5	LRP3/500	2738	310	34	250	805	17	208	34					
LRP Column Jib Crane, Channel profile	3,5	LRP4/500	2738	360	34	250	850	17	292	51					
	3,5	LRP5/500	2738	360	34	250	910	17	308	51					
	4	LRP6/500	2980	415	40	140	860	20	576	73					
	4	LRP7/500	2980	415	40	140	920	20	606	73					
	4	LRP2/500	2980	415	40	140	860	20	576	73					
	4	LRP3/500	2980	415	40	140	920	20	606	73					

# TAWI