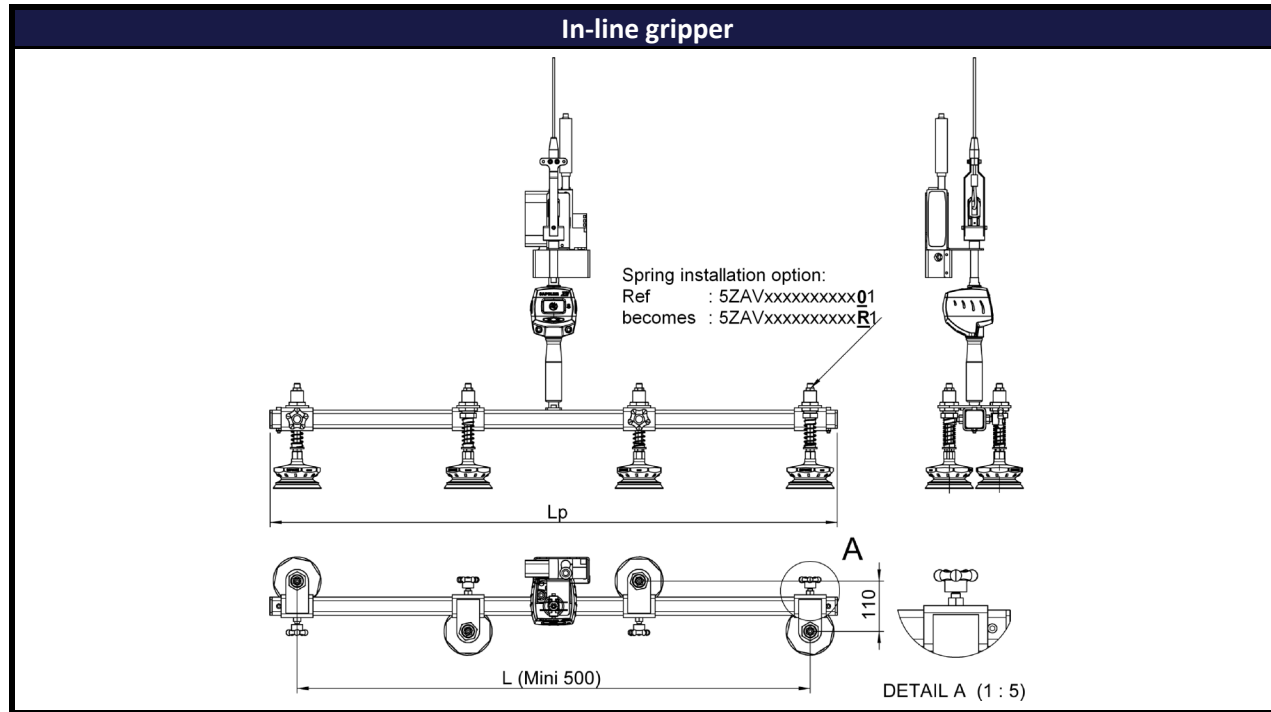


Description:

- 2 or 4 suction cups in line
- Anti-slip suction cups 1.5 bellow
- Saving vacuum generator

Options:

- Spring installation to compensate the height differences
- Quick tool changing
- Tool recognition to adapt the manipulator's WLL to that of the tool



Max size	Suction cups		Max WLL Kg	Centre distance L maxi mm	LP	Weight kg	Reference without spring installation
	Qty	∅					
600x300	2	105	33	300	420	10	5ZAV4L0330751101
	4	105	66	450	570	11	5ZAV6L0660451101
1,000x300	2	105	33	500	620	11	5ZAV4L0330501101
	4	105	66	750	870	12	5ZAV6L0660751101
1,500x300	2	105	33	750	870	12	5ZAV4L0330751101
	4	105	66	1,125	1,245	14	5ZAV6L0661241101
2,000x300	2	105	33	1,000	1,120	14	5ZAV4L0331001101
	4	105	66	1,500	1,620	16	5ZAV6L0661501101

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	SAPELEM is studying other gripping solutions: <ul style="list-style-type: none"> • Hooks • Clamps • Magnets 	
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ZE' SOLUTION ERGONOMIC MANIPULATOR

Technologies:

- Aluminium arm with low-inertia double articulation
- Electronic lifting assistance to intuitively lift loads up to 200kg with only a 20g effort

Advantages:

- Versatility: handling many products
- Precision: sensitive Zii handle
- Rapidity: optimal working pace
- Ergonomics: RSI removal
- Intuitiveness: naturally following hand movement without button
- Safety: secured grip-release, alarms, hand detection

Customized:

- Wide work zones: possible to install under rail, framework, or under a supporting structure
- Heavy loads: steel arm enabling the handling of loads up to 300kg
- Services: installation and ergonomics expertise
- Special: manipulator conception and manufacturing for specific applications



SAPELEM has created a wide range of standard manipulators answering the most common applications.

ZE' SOLUTION SUCTION CUPS

Function:

Gripping flat and air-tight products

Advantages:

- Productivity: high handling pace
- Simplicity: gripping by only one side
- Ease: effortless handling, preserves the back
- Versatility: large range of sizes

Description:

- High performance light steel structure
- Suction cups adjustable in width and in length
- Ergonomic control handle, long off-centred version in option

Minimal required configuration:

- ZE'Solution Advanced



In line with European Standard EN 14238

Description:

- Suction cup with double-lip gasket and stop
- V2i air-saving type vacuum generator
- Keeping vacuum in case of power shut-down

Advantages:

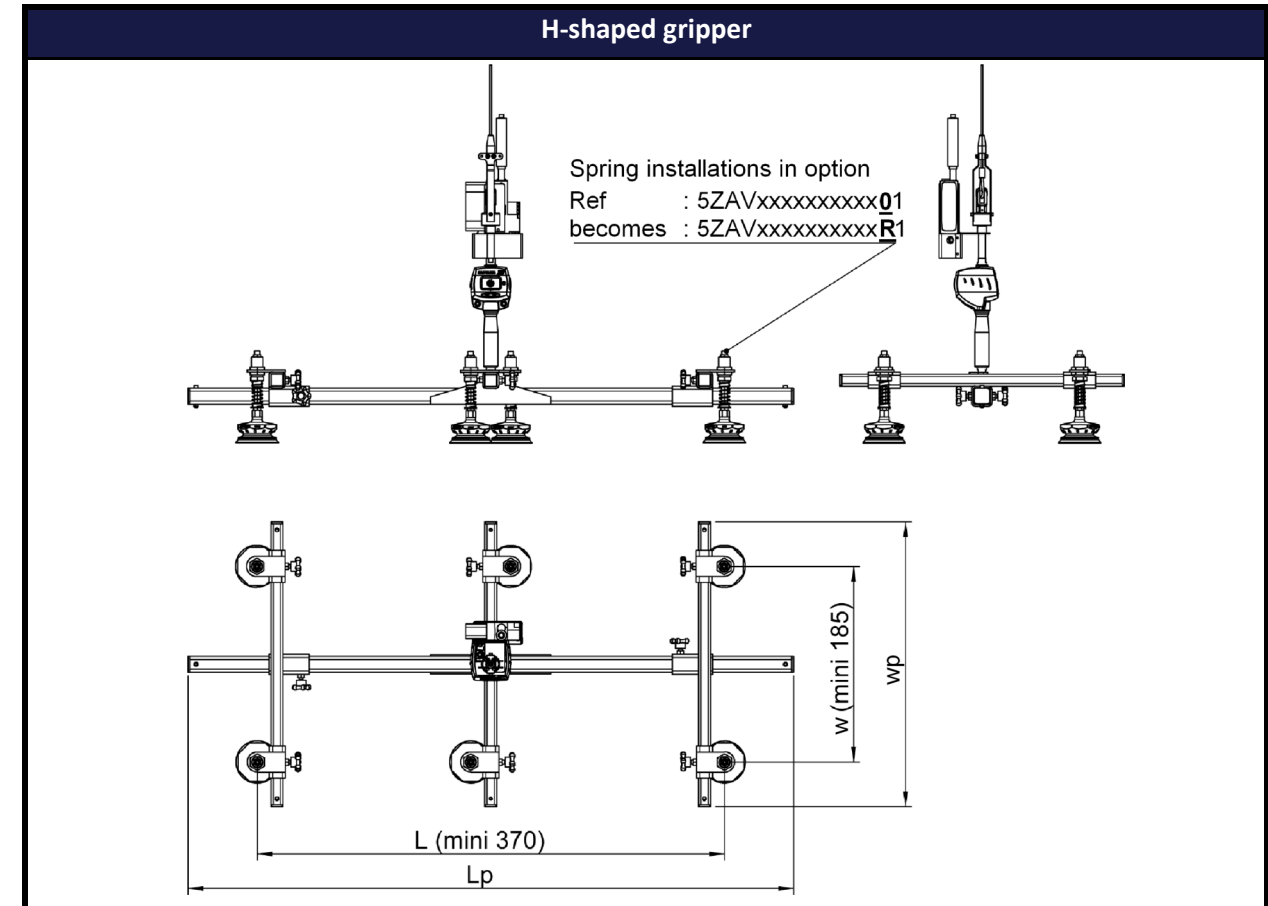
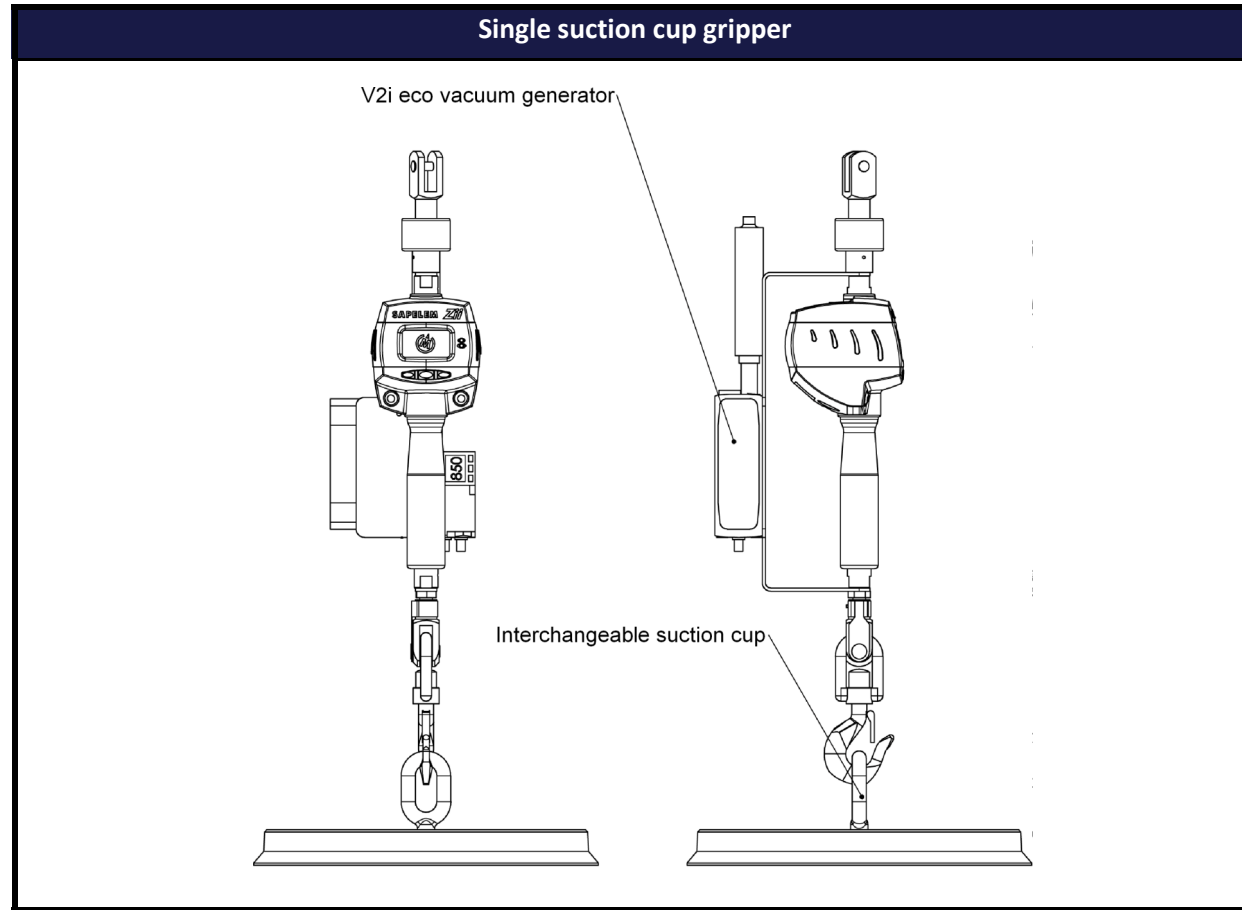
- Easy to use
- Safe gripping
- Removable suction cup under hook enabling a quick changing

Description:

- Modular structure in H-shape with 4 or 6 suction cups
- Easy setting of the centre distance of the suction cups in width and in length
- Anti-slip suction cups 1.5 below to compensate the level differences

Options:

- Spring installation to compensate the height differences
- Quick tool changing
- Tool recognition to adapt the manipulator WLL to that of the tool



Reference of the kit to adapt a suction cup under the ZE'Solution Suction cups handle: 5ZAV1M

Choose the suction cup separately thanks to the "Handling suction cups" documentation

- Series 15: Double-lip round with double-lip moulded gasket
- Series 10: Round with foam gasket
- Series 11: Rectangular with foam gasket
- Series 14: Oblong with foam gasket

Working load limit: **200kg**

*Option: Quick connector for suction cup change

Max size	Suction cups		WLL*	Max centre distance		Lp mm	wp mm	Weight kg	Reference without spring installation
	Qty	Ø mm		L mm	w mm				
600x300	4	105	65	300	150	291	280	15	5ZAV4H0650301501
	6	105	100	400	150	391	280	16	5ZAV6H1000401501
1,000x500	4	105	65	500	250	491	380	17	5ZAV4H0650502501
	6	105	100	667	250	658	380	18	5ZAV6H1000662501
1,500x1,000	4	105	65	750	500	741	630	20	5ZAV4H0650755001
	6	105	100	1,000	500	991	630	21	5ZAV6H1001005001
2,000x1,000	4	105	65	1,000	500	991	630	21	5ZAV4H0651005001
	6	105	100	1,333	500	1,324	630	23	5ZAV6H1001335001

*WLL of the suction cup for horizontal gripping at 600mbar with safety coefficient 2