



ATS/ATF130 Large area vacuum gripping system

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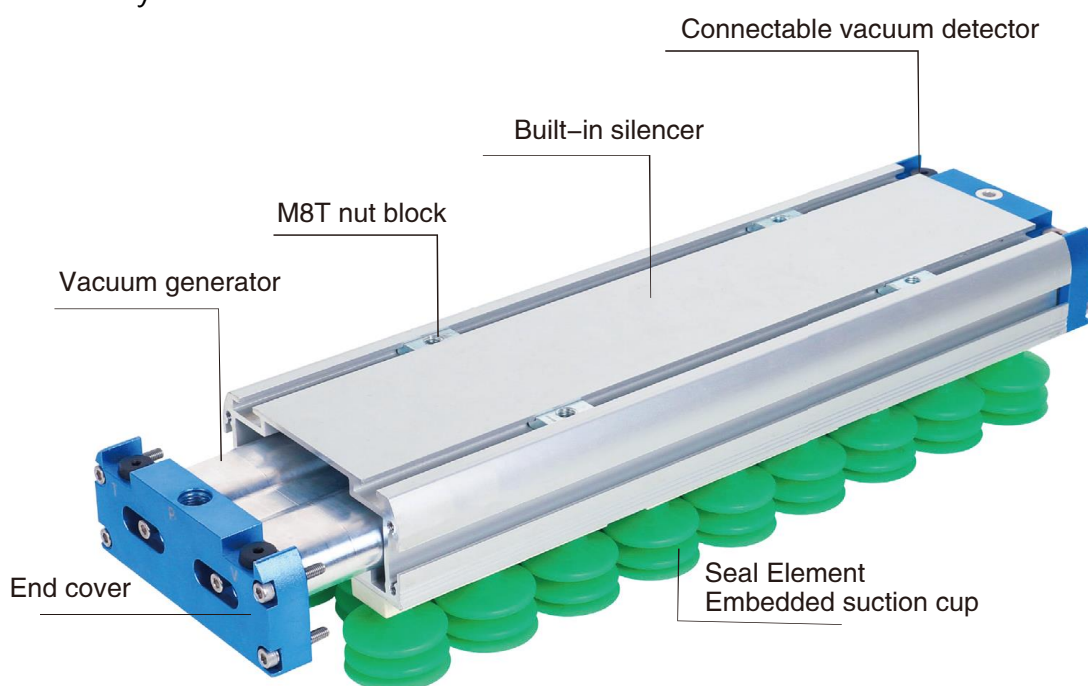


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Rubber Grippers

The ATV Rubber Grippers - an integrated plug-and-play vacuum generation device that can be individually configured and quickly detached according to operational requirements. This system utilizes a modular design for easy maintenance. It includes interfaces for attaching additional functional components directly to the suction cup to optimize processes and promote environmental conservation and energy efficiency.



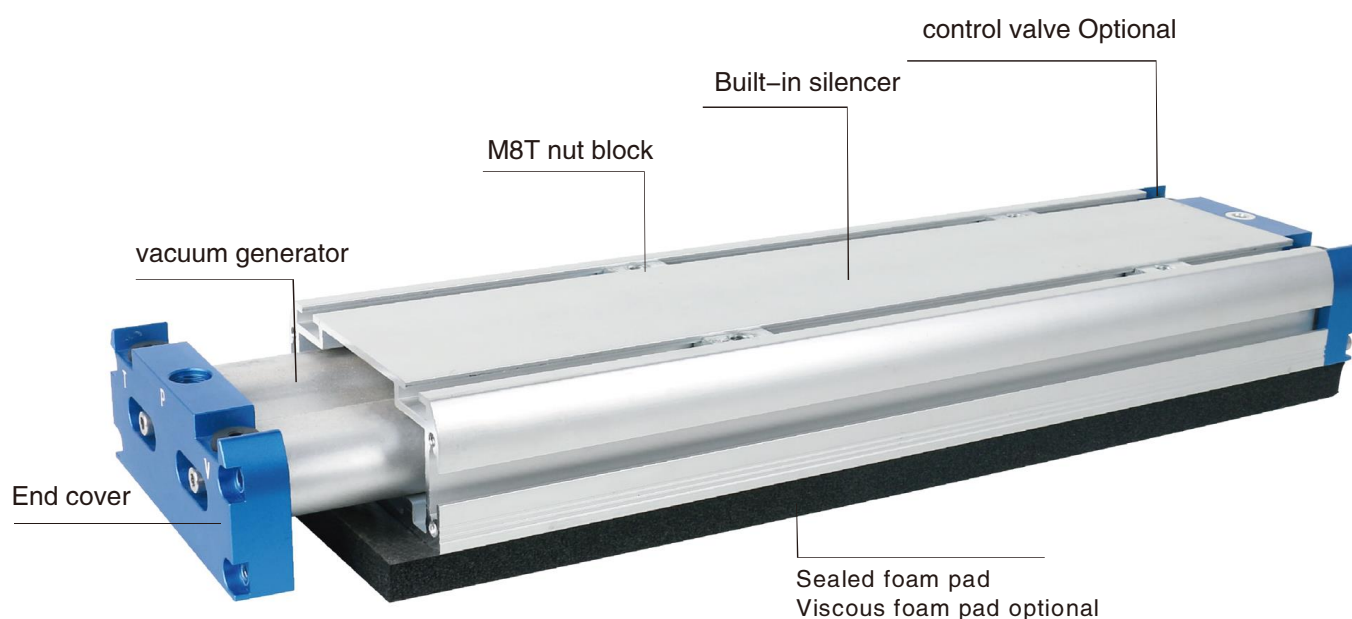
■ Plug-in vacuum generator

- Performance enhancement: Lower air consumption for generating a higher vacuum flow, resulting in greater suction power.
- The silencer on the vacuum generation device can keep the noise level below 70 dB(A).



Foam Grippers

ATS Foam Gripper System - Integrated Plug-in Vacuum Generation Device, can be individually configured and quickly disassembled according to operational changes. This system adopts a modular design for easy maintenance. Reserved interfaces allow additional functional components to be directly attached to the gripper, optimizing processes and promoting environmental sustainability and energy efficiency.



■ Built-in plug-in vacuum generator

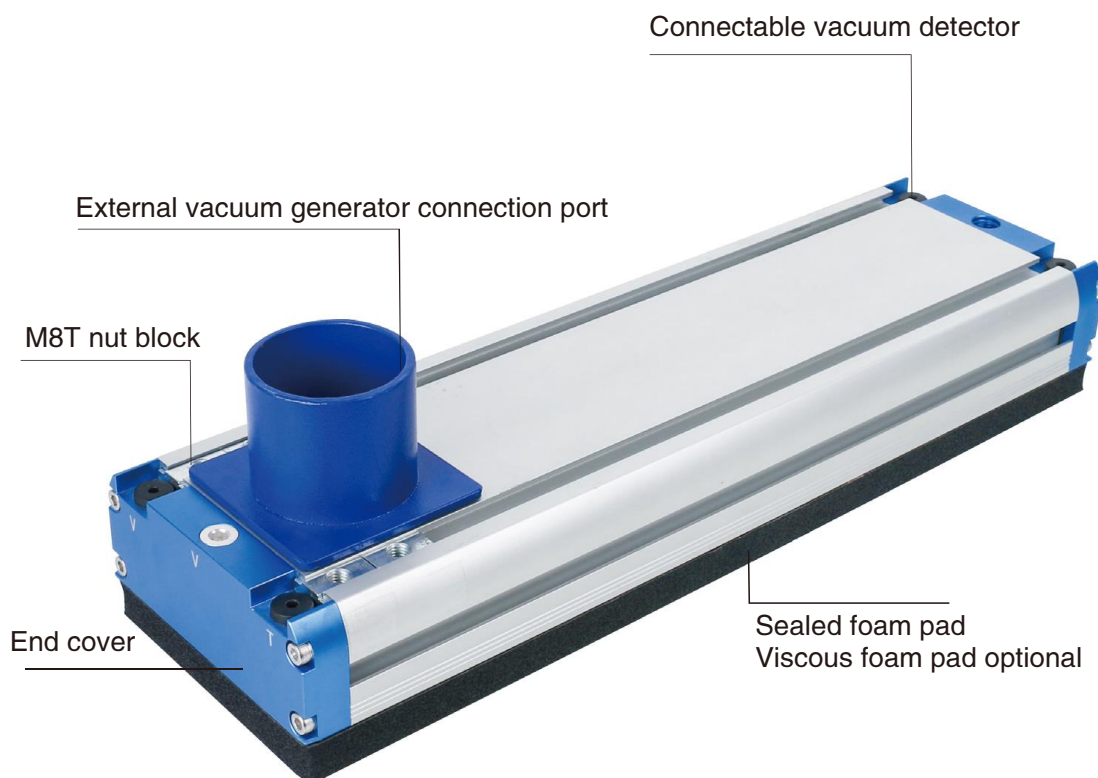
- Performance optimization: Lower air consumption, generating a higher vacuum flow to enhance greater suction force.
- The silencer of the vacuum generation device can control the noise level within 70dB(A).



external vacuum generators

ATSF: suitable for external vacuum generators.

The Foam Grippers ATSF features the same modular design as ATS and provides external ports for connecting a vacuum generation device. It is particularly suitable for configuring vacuum pumps and blowers.

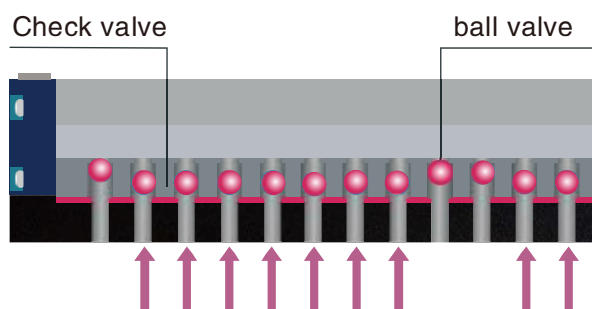


■ External vacuum generator connection port

- It can be used in conjunction with electrically driven vacuum generation devices such as blowers or vacuum pumps.

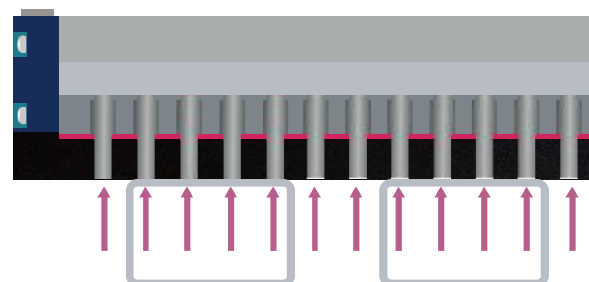


Valve body technical description



Check valve V

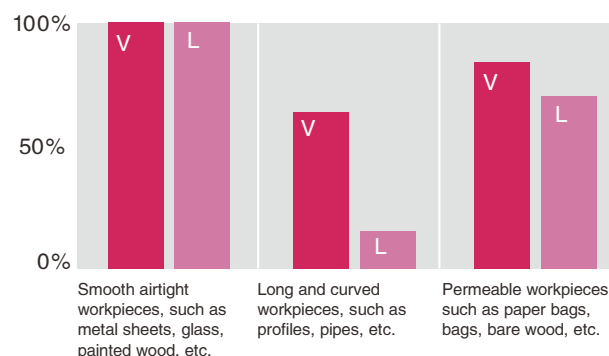
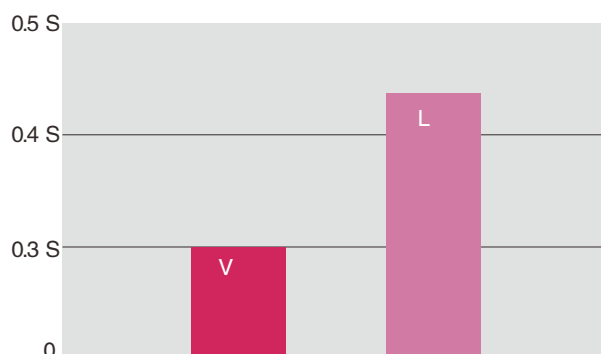
- The suction cup is equipped with an integrated mechanical check valve. When the sponge holes do not completely cover the workpiece, the check valve automatically closes, reducing vacuum leakage and maintaining the proper adhesion of the workpiece.
- The check valve body, with an increased diameter, allows for a greater flow rate, making it suitable for situations that require high-speed grasping and releasing of workpieces, even those with uneven surfaces.



Flow control valve L

- The built-in flow control valve minimizes vacuum leakage when the suction cup is not in contact with the workpiece.
- Suitable for flipping and high-speed handling.
- The size of the flow control valve can be chosen according to the requirements.

Selection Guide



Application characteristics	V	L
Smooth and airtight workpiece surfaces (e.g., metal sheets, glass, painted wood).	✓	✓
Permeable workpieces (e.g., cardboard, bags, bare wood).	✓	
Uneven workpiece surfaces.	✓	✓
Workpieces with a small suction area and low suction hole coverage (e.g., pipes, profiles).	✓	
Minimizing cycle times (accelerated air release).	✓	
Optimizing energy efficiency.	✓	
Operating at angles of more than 45° , including full rotation.		✓



Selection considerations

You will need to prepare several OEM workpieces for testing at our testing center so that we can design the best application solution for you.

Order Code

ATS	130	1234	V	3F	20	A
Vacuum gripper	Width[mm]	length[mm]	Valve technical	Type of suction holes	Sealing gasket thickness type [mm]	Vacuum source
	60 130 200	190 262 316 352 442 550 640 712 838 910 1000 1234 1432	V:Check valve L:Flow control valve S:High-speed valve	3F (3 rows elliptical holes) 5F (5 rows elliptical holes) 4F (5 rows circular holes)	5 10 20 30 40 10F10:With filter 15F15:With filter	A:Built-in vacuum generator E:External vacuum source
				3 (3 rows embedded modules)	S40 Suction cup 40	
				5 (5 rows embedded modules)	S20 Suction cup 20	

Selection Guide

Application features	V	L
Minimize interference caused by mismatches between pipe diameter and external vacuum generation devices (highly integrated).	✓	
Easy to install and quick to connect.	✓	
Minimize system costs (initial costs include the vacuum generation unit, hoses, and controller).	✓	
Minimize operating costs (especially when using multiple suction cups) by opting for electric vacuum generation devices.	✓	
Handling highly permeable workpieces.	✓	✓

Application characteristics	Sponge	Suction cup
Rigid workpieces such as sheets, metal sheets, profiles, and pallets.	✓	✓
Flexible workpieces such as cardboard boxes, bags, packages, and pallets.	✓	✓
Long and narrow workpieces and sheets.	✓	
Workpiece surfaces that are rough or have textured patterns.	✓	
Handling entire layers of small items, such as cans (open/closed) and beverage cans.	✓	

ATS130 Foam Grippers(Built-in vacuum generator)



Features

- The ATS130 vacuum suction cup is suitable for product handling with different industry characteristics, accommodating various product specifications. It can be flexibly selected for standard suction cup types based on actual application conditions or custom-designed suction cups. Different-sized suction cups can be freely combined for coordinated use.
- Optional check valve technology can address issues related to significant vacuum leakage, uneven surfaces, and irregularly shaped workpieces.
- The built-in plug-and-play vacuum generator results in lower air consumption, a larger vacuum flow, and shorter vacuum build-up times.
- The integrated plug-and-play vacuum generation device allows for individual configuration and quick disassembly as per changing operational conditions.
- It is designed with a modular approach for ease of maintenance. Interfaces are reserved to directly attach functional components to optimize processes and promote environmental conservation and energy efficiency.
- The suction cup body is made from materials such as aluminum alloy, engineering plastics, and carbon fiber composites, offering high strength and lightweight properties.
- Suction cup installation is straightforward, with built-in T-shaped removable installation sliders for securing the suction cup and installing sensors as needed.
- Rubber sealing gasket components can be quickly replaced.

Order Code

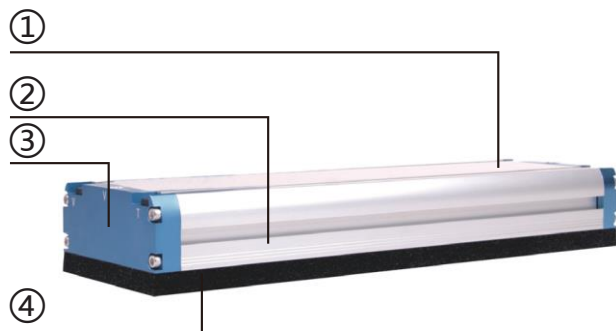
ATS FN 130-1234 V-3F 20-A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①Model	②Controller	③ width[mm]	④Length[mm]	⑤Valve technology
ATS	Null - Nocontrol valve	130	190 640	V:Check valve
	FN - Withcontrol valve, NPN switch		262 712	L:Flow control valve
	FP - Withcontrol valve, PNP switch		316 838	S:High-speed valve
			352 910	
			442 1000	
			550 1234	
			1432	

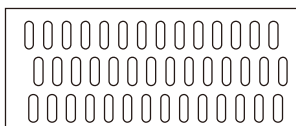


⑥Type of suction holes	⑦Sealing gasket thickness type[mm]	⑧Vacuum source
3F (3 rows elliptical holes)	10	A:Built-in vacuum generator
5F (5 rows elliptical holes)	15	
4F (5 rows circular holes)	20	
1F (1 rows elliptical holes)	30	
	10F10:With filter 15F15:With filter M:without trace	

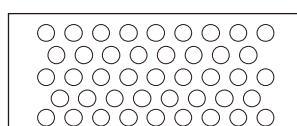


1. Suction Device Body: Material adopts reinforced aluminum alloy.
2. Optional Built-in Valve Technologies: Check valve, flow control valve, high-speed valve.
3. Built-in Vacuum Generator: Low-consumption energy-efficient multi-stage jet technology.
4. Suction Hole Types: Universal type, customized type.

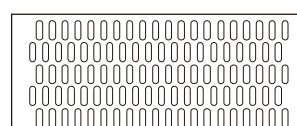
Type of suction holes



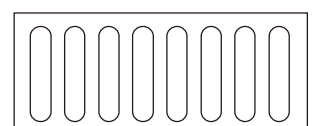
ATS130 Standard type
Type:3F
General type



ATS130 customized type
Type:4F
customized type



ATS130 customized type
Type:5F
customized type



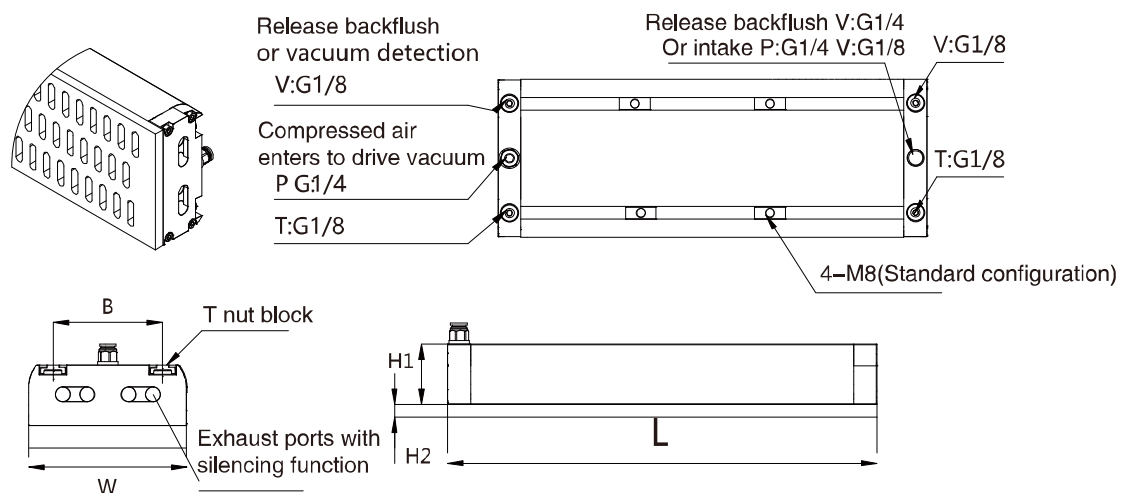
ATS130 customized type
Type:1F
customized type

Performance parameters

Model	Type of suction holes	Number of suction holes	Supply air pressure Bar	Air consumption L/min	vacuum kPa	Vacuum flow rate L/min	Suction force N(-60kPa)	Weight kg
ATS 130-190V-3F★★-A	3F	24	4~6	100	-60	350	336	2
ATS 130-262V-3F★★-A	3F	36	4~6	100	-60	350	393	2.5
ATS 130-316V-3F★★-A	3F	45	4~6	100	-60	350	491	2.7
ATS 130-352V-3F★★-A	3F	51	4~6	200	-60	700	557	2.9
ATS 130-442V-3F★★-A	3F	66	4~6	200	-60	700	721	3.3
ATS 130-550V-3F★★-A	3F	84	4~6	300	-60	1050	917	3.7
ATS 130-640V-3F★★-A	3F	99	4~6	300	-60	1050	1081	4.1
ATS 130-712V-3F★★-A	3F	111	4~6	300	-60	1050	1212	4.5
ATS 130-838V-3F★★-A	3F	132	4~6	300	-60	1050	1441	5.1
ATS 130-910V-3F★★-A	3F	144	4~6	400	-60	1400	1572	5.4
ATS 130-1000V-3F★★-A	3F	159	4~6	400	-60	1400	1736	5.7
ATS 130-1234V-3F★★-A	3F	198	4~6	600	-60	2100	2162	7.3
ATS 130-1432V-3F★★-A	3F	231	4~6	800	-60	2100	2522	8.6

Specifications and dimensions

Model	B	H1	H2(★★)			W	L
ATS 130-190V-3F★★-A	90	50	10	15	20	130	190
ATS 130-262V-3F★★-A	90	50	10	15	20	130	262
ATS 130-316V-3F★★-A	90	50	10	15	20	130	316
ATS 130-352V-3F★★-A	90	50	10	15	20	130	352
ATS 130-442V-3F★★-A	90	50	10	15	20	130	442
ATS 130-550V-3F★★-A	90	50	10	15	20	130	550
ATS 130-640V-3F★★-A	90	50	10	15	20	130	640
ATS 130-712V-3F★★-A	90	50	10	15	20	130	712
ATS 130-838V-3F★★-A	90	50	10	15	20	130	838
ATS 130-910V-3F★★-A	90	50	10	15	20	130	910
ATS 130-1000V-3F★★-A	90	50	10	15	20	130	1000
ATS 130-1234V-3F★★-A	90	50	10	15	20	130	1234
ATS 130-1432V-3F★★-A	90	50	10	15	20	130	1432

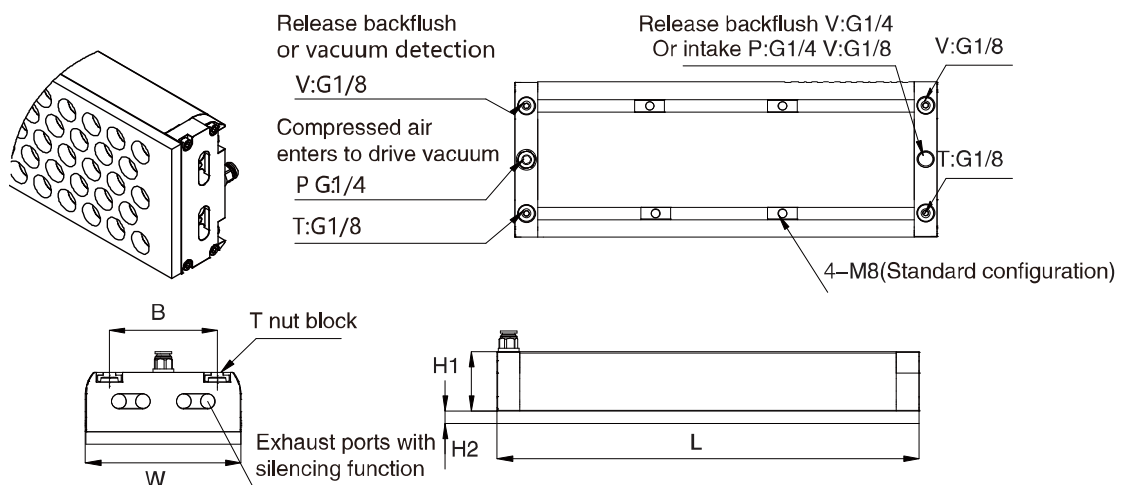


Performance parameters

Model	Type of suction holes	Number of suction holes	Supply air pressure Bar	Air consumption L/min	vacuum kPa	Vacuum flow rate L/min	Suction force N(-60kPa)	Weight kg
ATS 130- 190 V - 4F★★-A	4F	30	4~6	100	-60	350	406	2
ATS 130- 295 V - 4F★★-A	4F	53	4~6	100	-60	350	490	2.6
ATS 130- 434 V - 4F★★-A	4F	83	4~6	200	-60	600	767	3.3
ATS 130- 572 V - 4F★★-A	4F	113	4~6	300	-60	1050	1044	3.8
ATS 130- 711 V - 4F★★-A	4F	143	4~6	300	-60	1050	1321	4.5
ATS 130- 849 V - 4F★★-A	4F	173	4~6	400	-60	1400	1598	5.2
ATS 130- 988 V - 4F★★-A	4F	203	4~6	400	-60	1400	1875	5.6
ATS 130-1126 V - 4F★★-A	4F	233	4~6	600	-60	2100	2152	7.0
ATS 130-1265 V - 4F★★-A	4F	263	4~6	600	-60	2450	2429	7.4
ATS 130-1403 V - 4F★★-A	4F	293	4~6	600	-60	2450	2606	8.5
ATS 130-1542 V - 4F★★-A	4F	323	4~6	800	-60	2800	2983	9.1

Specifications and dimensions

Model	B	H1	H2(★★)			W	L
ATS 130- 190 V - 4F★★-A	90	50	10	15	20	130	190
ATS 130- 295 V - 4F★★-A	90	50	10	15	20	130	295
ATS 130- 434 V - 4F★★-A	90	50	10	15	20	130	434
ATS 130- 572 V - 4F★★-A	90	50	10	15	20	130	572
ATS 130- 711 V - 4F★★-A	90	50	10	15	20	130	711
ATS 130- 849 V - 4F★★-A	90	50	10	15	20	130	849
ATS 130- 988 V - 4F★★-A	90	50	10	15	20	130	988
ATS 130-1126 V - 4F★★-A	90	50	10	15	20	130	1126
ATS 130-1265 V - 4F★★-A	90	50	10	15	20	130	1265
ATS 130-1403 V - 4F★★-A	90	50	10	15	20	130	1403
ATS 130-1542 V - 4F★★-A	90	50	10	15	20	130	1542

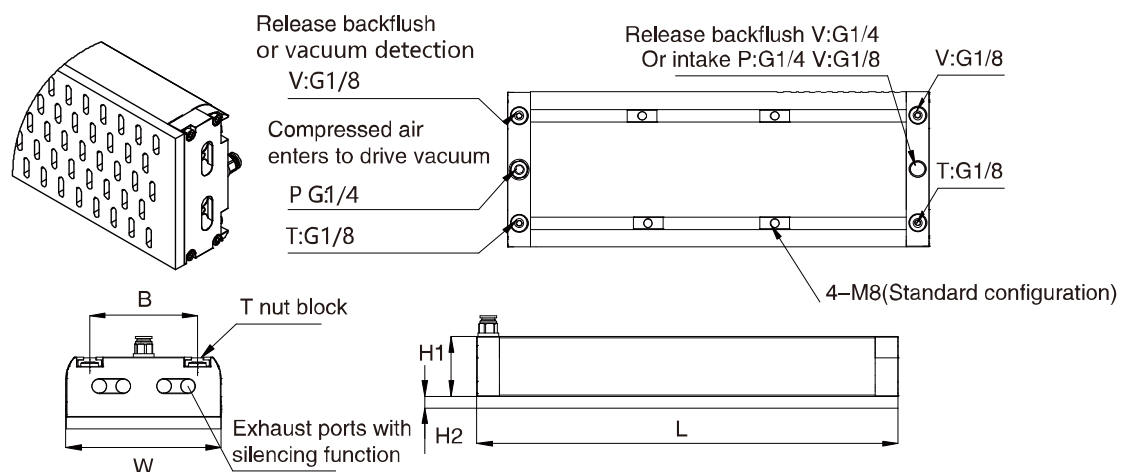


Performance parameters

Model	Type of suction holes	Number of suction holes	Supply air pressure Bar	Air consumption L/min	vacuum kPa	Vacuum flow rate L/min	Suction force N(-60kPa)	Weight kg
ATS 130-262V-5F★★-A	5F	60	4~6	100	-60	350	365	2.5
ATS 130-316V-5F★★-A	5F	75	4~6	200	-60	600	456	2.7
ATS 130-352V-5F★★-A	5F	85	4~6	200	-60	600	517	2.9
ATS 130-442V-5F★★-A	5F	110	4~6	300	-60	1050	669	3.3
ATS 130-550V-5F★★-A	5F	140	4~6	400	-60	1400	852	3.7
ATS 130-640V-5F★★-A	5F	165	4~6	400	-60	1400	1004	4.1
ATS 130-712V-5F★★-A	5F	185	4~6	400	-60	1400	1126	4.5
ATS 130-838V-5F★★-A	5F	220	4~6	400	-60	1400	1339	5.1
ATS 130-910V-5F★★-A	5F	245	4~6	600	-60	2100	1460	5.4
ATS 130-1000V-5F★★-A	5F	265	4~6	600	-60	2450	1613	5.7
ATS 130-1234V-5F★★-A	5F	330	4~6	800	-60	2800	2008	7.3
ATS 130-1432V-5F★★-A	5F	385	4~6	800	-60	2800	2343	8.6

Specifications and dimensions

Model	B	H1	H2(★★)			W	L
ATS 130- 262 V-5F★★-A	90	50	10	15	20	130	262
ATS 130- 316 V-5F★★-A	90	50	10	15	20	130	316
ATS 130- 352 V-5F★★-A	90	50	10	15	20	130	352
ATS 130- 442 V-5F★★-A	90	50	10	15	20	130	442
ATS 130- 550 V-5F★★-A	90	50	10	15	20	130	550
ATS 130- 640 V-5F★★-A	90	50	10	15	20	130	640
ATS 130- 712 V-5F★★-A	90	50	10	15	20	130	712
ATS 130- 838 V-5F★★-A	90	50	10	15	20	130	838
ATS 130- 910 V-5F★★-A	90	50	10	15	20	130	910
ATS 130- 1000 V-5F★★-A	90	50	10	15	20	130	1000
ATS 130- 1234 V-5F★★-A	90	50	10	15	20	130	1234
ATS 130- 1432 V-5F★★-A	90	50	10	15	20	130	1432



ATSF130 Foam Grippers(External vacuum source)



Features

- The ATSF130 vacuum suction tool is suitable for capturing products with different industry characteristics and can meet the gripping of various product specifications.
- Standard suction tools or custom-designed suction tools can be flexibly selected based on actual application conditions, and different-sized suction tools can be freely combined and used in tandem.
- Optional check valve technology can solve issues with significant vacuum leakage, uneven surfaces, varying sizes, and irregular geometries of workpieces.
- The vacuum source can be externally connected to a vacuum generation device, making it particularly suitable for use with electrically driven vacuum generation equipment such as blowers or vacuum pumps.
- It features a modular design for easy maintenance. Interface provisions allow for the direct attachment of functional components to optimize processes and promote environmental efficiency.
- The suction tool body is made of materials such as aluminum alloy, engineering plastics, and carbon fiber composite materials, known for their high strength and lightweight properties.
- Suction tool installation is straightforward and includes a built-in T-shaped movable installation slider for securing the suction tool, attaching sensors, or for assembly purposes.
- Rubber sealing gaskets can be quickly replaced.

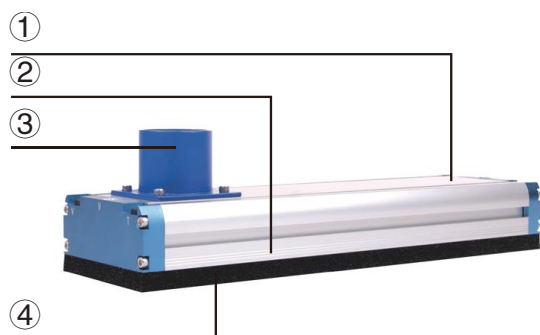
Order Code

ATSF 130-1234 V-3F 20-E

① ② ③ ④ ⑤ ⑥ ⑦

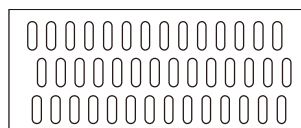
①Model	③width[mm]	④ length[mm]	⑤Valve technology
ATSF	130	262 712	V:Check valve
		316 838	L:Flow control valve
		352 910	S:High-speed valve
		442 1000	
		550 1234	
		640 1432	

⑥Type of suction holes	⑦Sealing gasket thickness type[mm]	⑧Vacuum source
3F (3 rows elliptical holes)	10	E:External vacuum source
5F (5 rows elliptical holes)	15	
4F (5 rows circular holes)	20	
1F (1 rows elliptical holes)	30	
	10F10:With filter 15F15:With filter M:without trace	

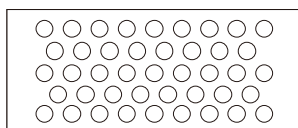


- (1) Suction Device Body: The material used is reinforced aluminum alloy.
- (2) Optional Built-in Valve Technologies: Check valve, flow control valve, high-speed valve.
- (3) Connection port for external vacuum generation device.
- (4) Suction Hole Types: Universal type, customized type.

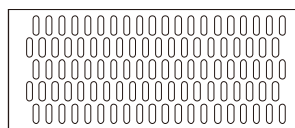
Type of suction holes



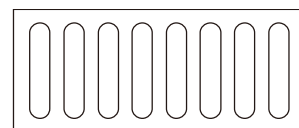
ATS130 Standard type
Type:3F
General type



ATS130 customized type
Type:4F
customized type



ATS130 customized type
Type:5F
customized type



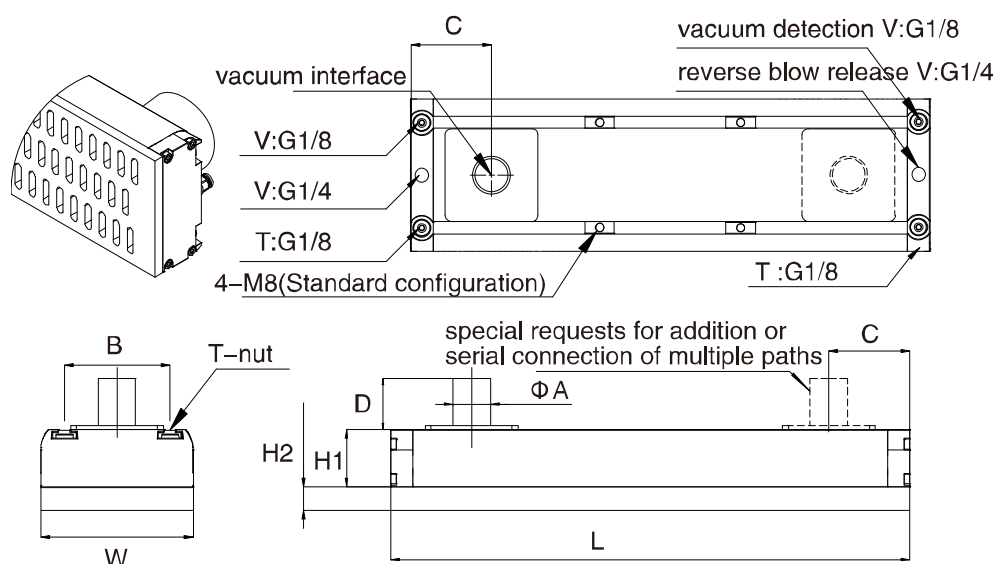
ATS130 customized type
Type:1F
customized type

Performance parameters

Model	Type of suction holes	Number of suction holes	required air volume L/min	vacuum level kPa	suction force N(-40kPa)	Weight kg
ATSF 130-262V-3F★★-E	3F	36	110	40	262	2.2
ATSF 130-316V-3F★★-E	3F	45	150	40	328	2.4
ATSF 130-352V-3F★★-E	3F	51	220	40	371	2.6
ATSF 130-442V-3F★★-E	3F	66	300	40	480	3.0
ATSF 130-550V-3F★★-E	3F	84	390	40	611	3.4
ATSF 130-640V-3F★★-E	3F	99	450	40	721	3.8
ATSF 130-712V-3F★★-E	3F	111	510	40	808	4.2
ATSF 130-838V-3F★★-E	3F	132	600	40	961	4.8
ATSF 130-910V-3F★★-E	3F	144	680	40	1048	4.9
ATSF 130-1000V-3F★★-E	3F	159	750	40	1157	5.2
ATSF 130-1234V-3F★★-E	3F	198	900	40	1441	6.8
ATSF 130-1432V-3F★★-E	3F	231	1050	40	1682	8.1

Specifications and dimensions

Model	A	B	C	D	H1	W	H2(★★)			L
ATSF 130-262V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	262
ATSF 130-316V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	316
ATSF 130-352V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	352
ATSF 130-442V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	442
ATSF 130-550V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	550
ATSF 130-640V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	640
ATSF 130-712V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	712
ATSF 130-838V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	838
ATSF 130-910V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	910
ATSF 130-1000V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	1000
ATSF 130-1234V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	1234
ATSF 130-1432V-3F★★-E	60(32)	90	69	54	50	130	10	15	20	1432

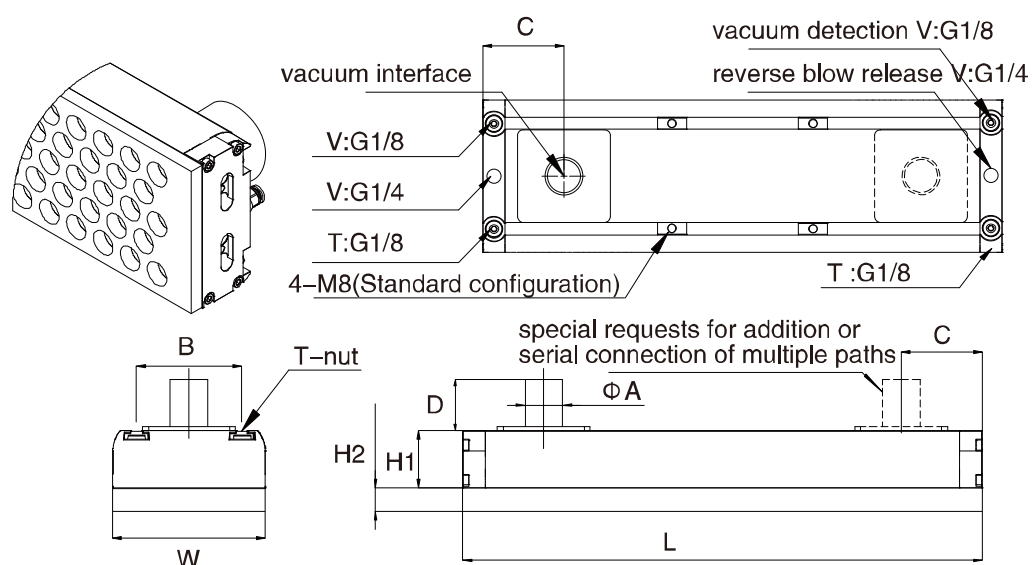


Performance parameters

Model	Type of suction holes	Number of suction holes	required air volume L/min	vacuum level kPa	suction force N(-40kPa)	Weight kg
ATSF 130-295V-4F★★-E	4F	53	150	40	326	2.6
ATSF 130-434V-4F★★-E	4F	83	300	40	511	3.3
ATSF 130-572V-4F★★-E	4F	113	400	40	696	3.8
ATSF 130-711V-4F★★-E	4F	143	510	40	881	4.5
ATSF 130-849V-4F★★-E	4F	173	600	40	1065	5.2
ATSF 130-988V-4F★★-E	4F	203	750	40	1250	5.6
ATSF 130-1126 V-4F★★-E	4F	233	850	40	1435	7.0
ATSF 130-1256 V-4F★★-E	4F	263	950	40	1619	7.4
ATSF 130-1403 V-4F★★-E	4F	293	1050	40	1804	8.5
ATSF 130-1542 V-4F★★-E	4F	323	1250	40	1989	9.1

Specifications and dimensions

Model	A	B	C	D	H1	W	H2(★★)			L
ATSF 130-295V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	295
ATSF 130-434V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	434
ATSF 130-572V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	572
ATSF 130-711V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	711
ATSF 130-849V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	849
ATSF 130-988V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	988
ATSF 130-1126 V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	1126
ATSF 130-1256 V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	1256
ATSF 130-1403 V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	1403
ATSF 130-1542 V-4F★★-E	60(32)	90	69	54	50	130	10	15	20	1542

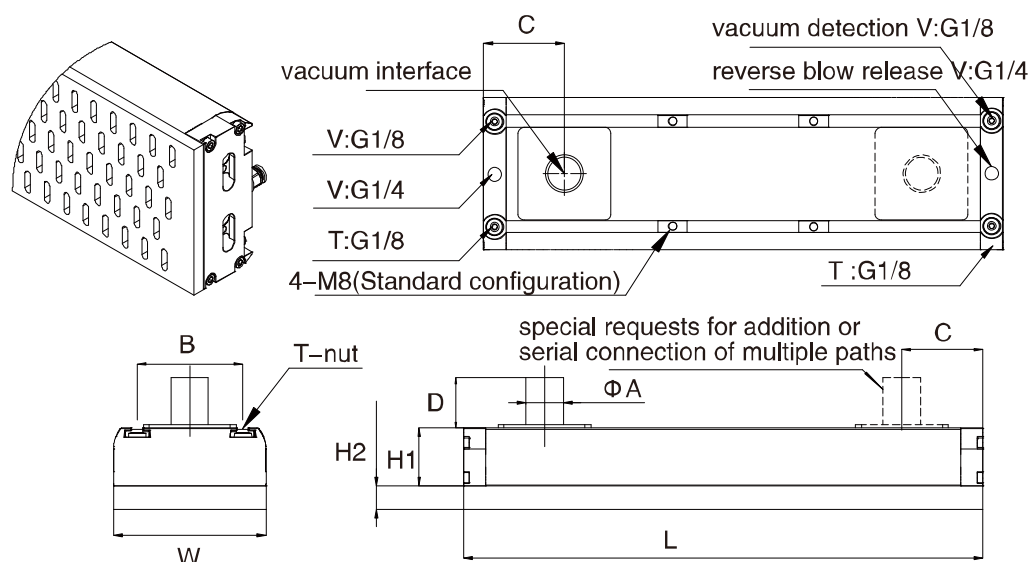


Performance parameters

Model	Type of suction holes	Number of suction holes	required air volume L/min	vacuum level kPa	suction force N(-40kPa)	Weight kg
ATSF 130-262V-5F★★-E	5F	60	110	40	191	2.2
ATSF 130-316V-5F★★-E	5F	75	150	40	239	2.4
ATSF 130-352V-5F★★-E	5F	85	220	40	271	2.6
ATSF 130-442V-5F★★-E	5F	110	300	40	350	3.0
ATSF 130-550V-5F★★-E	5F	140	390	40	446	3.4
ATSF 130-640V-5F★★-E	5F	165	450	40	526	3.8
ATSF 130-712V-5F★★-E	5F	185	510	40	589	4.2
ATSF 130-838V-5F★★-E	5F	220	600	40	701	4.8
ATSF 130-910V-5F★★-E	5F	245	680	40	780	4.9
ATSF 130-1000V-5F★★-E	5F	265	750	40	844	5.2
ATSF 130-1234V-5F★★-E	5F	330	900	40	1051	6.8
ATSF 130-1432V-5F★★-E	5F	385	1050	40	1226	8.1

Specifications and dimensions

Model	A	B	C	D	H1	W	H2(★★)			L
ATSF 130-262V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	262
ATSF 130-316V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	316
ATSF 130-352V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	352
ATSF 130-442V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	442
ATSF 130-550V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	550
ATSF 130-640V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	640
ATSF 130-712V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	712
ATSF 130-838V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	838
ATSF 130-910V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	910
ATSF 130-1000V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	1000
ATSF 130-1234V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	1234
ATSF 130-1432V-5F★★-E	60(32)	90	69	54	50	130	10	15	20	1432





ATS foam sealing gasket accessories

Order Code

ATS	130	-	1234	V	-	3F	20	-	FOAM
Model	width [mm]		length [mm]	Valve technology		Type of suction holes	Sealing gasket thickness type[mm]		FOAM: sponge sealing
	130		262 712 316 838 352 910 442 1000 550 1234 640 1432	V:Check valve L:Flow control valve S:High-speed valve		3F (3 rows elliptical holes) 5F (5 rows elliptical holes) 4F (5 rows circular holes) 1F (1 rows elliptical holes)	10 15 20 30 10F10:With filter 15F15:With filter M:without trace		gasket accessories



The sponge sealing gasket comes with its own adhesive, eliminating the need for additional glue. Facilitates quick and convenient replacement. Leaves no adhesive residue after replacement, eliminating the need for cleaning the

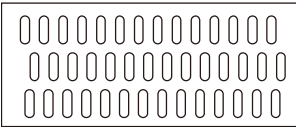
materials.

Rapid rebound after compression, suitable for short-cycle operations.

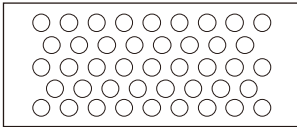
Can enhance filtration in harsh, high-dust conditions.

Note: The sponge in this product is considered a consumable item. Please replace it promptly based on actual usage conditions, as failure to do so may affect the product's suction efficiency. Recommended temperature range: -10~80°C. Avoid contact with corrosive gases or liquids, such as strong acids or alkalis, and prevent contact with sharp or pointed objects.

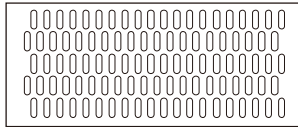
Type of suction holes



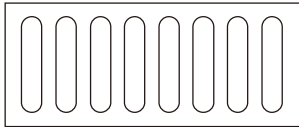
ATS130 Standard type
Type:3F
General type



ATS130 customized type
Type:4F
customized type



ATS130 customized type
Type:5F
customized type



ATS130 customized type
Type:1F
customized type

ATV130 Rubber Grippers(Built-in vacuum generator)



Features

- ATV130 vacuum gripper is suitable for capturing products with different characteristics in various industries and can handle products of various specifications.
- It can flexibly select standard grippers or design custom grippers based on actual application conditions, and different-sized grippers can be freely combined and used together.
- Optional check valve technology can solve the problem of large vacuum leakage, uneven surfaces, varying sizes, and irregular shapes of workpieces.
- The vacuum source uses a built-in insertion-type vacuum generator, resulting in lower air consumption, larger vacuum flow, and shorter vacuum establishment times.
- The integrated insertion-type vacuum generation device can be configured separately and quickly disassembled based on changes in working conditions.
- It features a modular design for easy maintenance and provides reserved interfaces for directly attaching functional components to optimize processes and promote energy conservation and environmental protection.
- The gripper body is made from materials like aluminum alloy, engineering plastics, and carbon fiber composite, offering high strength and low weight.
- The gripper installation is simple and comes with a T-shaped movable installation slider for fixing the gripper or installing sensors.
- Rubber seal accessories can be quickly replaced.

Order Code

ATV FN 130-1265 V-3 S40-A

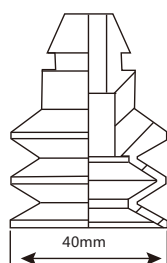
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Model	② Controller	③ width[mm]	④ Length[mm]	⑤ Valve technology
ATV	Null - No control valve FN - With control valve, NPN switch FP - With control valve, PNP switch	130	295 988 434 1126 572 1265 711 1403 849 1542	V: Check valve L: Flow control valve S: High-speed valve

⑥ Type of suction holes	⑦ Suction cup diameter types[mm]	⑧ Vacuum source
3 (3 rows embedded module)	S40 Suction cup diameter 40	A: Built-in vacuum generator
5 (5 rows embedded module)	S20 Suction cup diameter 20	

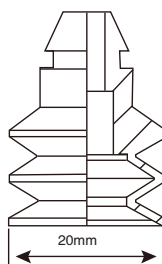
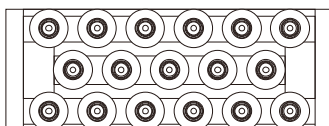


Suction cup accessories Order Code



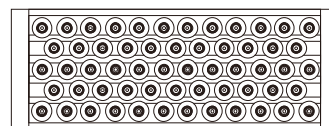
Suction cup accessories
order model: S40

Suction cup diameter 40MM
The gripper uses 3 rows during operation
Suction hole type: 3



Suction cup accessories
order model: S20

Suction cup diameter 20MM
The gripper uses 5 rows during operation
Suction hole type: 5

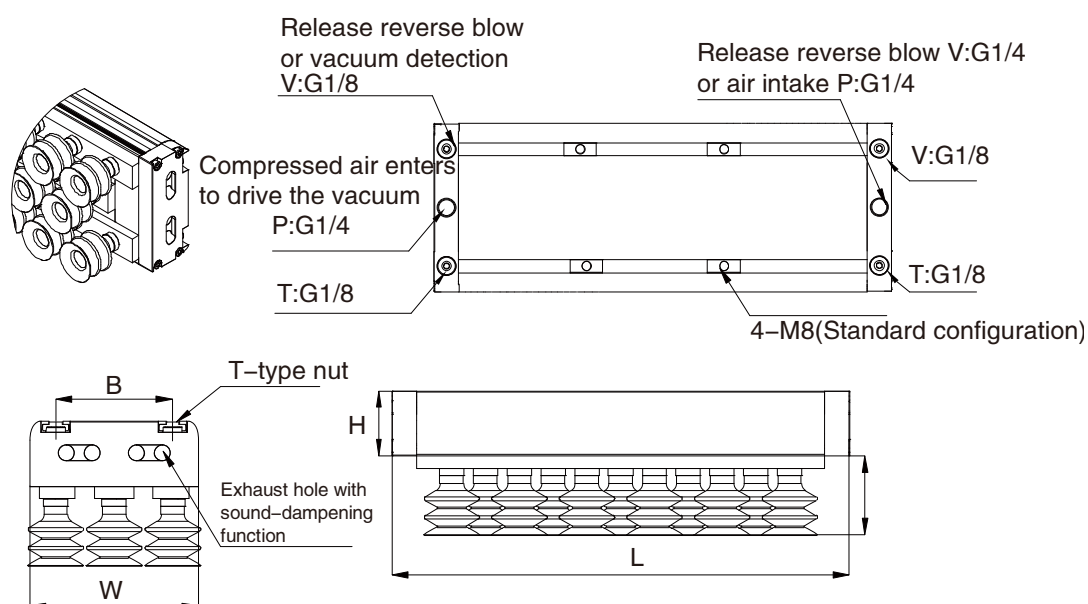


Performance parameters

Model	Type of suction holes	Suction cup type	Number of Suction cup	Supply air pressure(Bar)	Air consumption L/min	Vacuum level kPa	Vacuum flow rate (L/min)	Suction force N(-60kPa)	Weight kg
ATV 130-295V-3S40-A	3	S40	17	4~6	200	-60	600	296	3
ATV 130-434V-3S40-A	3	S40	26	4~6	200	-60	600	452	3.8
ATV 130-572V-3S40-A	3	S40	35	4~6	300	-60	1050	608	4.5
ATV 130-711V-3S40-A	3	S40	44	4~6	300	-60	1050	765	5.3
ATV 130-849V-3S40-A	3	S40	53	4~6	400	-60	1400	921	6.2
ATV 130-988V-3S40-A	3	S40	62	4~6	400	-60	1400	1078	7.2
ATV 130-1126V-3S40-A	3	S40	71	4~6	600	-60	2100	1234	8.1
ATV 130-1265V-3S40-A	3	S40	80	4~6	600	-60	2100	1391	8.9
ATV 130-1403V-3S40-A	3	S40	89	4~6	800	-60	2800	1547	9.7
ATV 130-1542V-3S40-A	3	S40	98	4~6	800	-60	2800	1604	10.5

Specifications and dimensions

Model	B	H1	H2	W	L
ATV 130-295V-3S40-A	90	50	33	130	295
ATV 130-434V-3S40-A	90	50	33	130	434
ATV 130-572V-3S40-A	90	50	33	130	572
ATV 130-711V-3S40-A	90	50	33	130	711
ATV 130-849V-3S40-A	90	50	33	130	849
ATV 130-988V-3S40-A	90	50	33	130	988
ATV 130-1126V-3S40-A	90	50	33	130	1126
ATV 130-1265V-3S40-A	90	50	33	130	1265
ATV 130-1403V-3S40-A	90	50	33	130	1403
ATV 130-1542V-3S40-A	90	50	33	130	1542

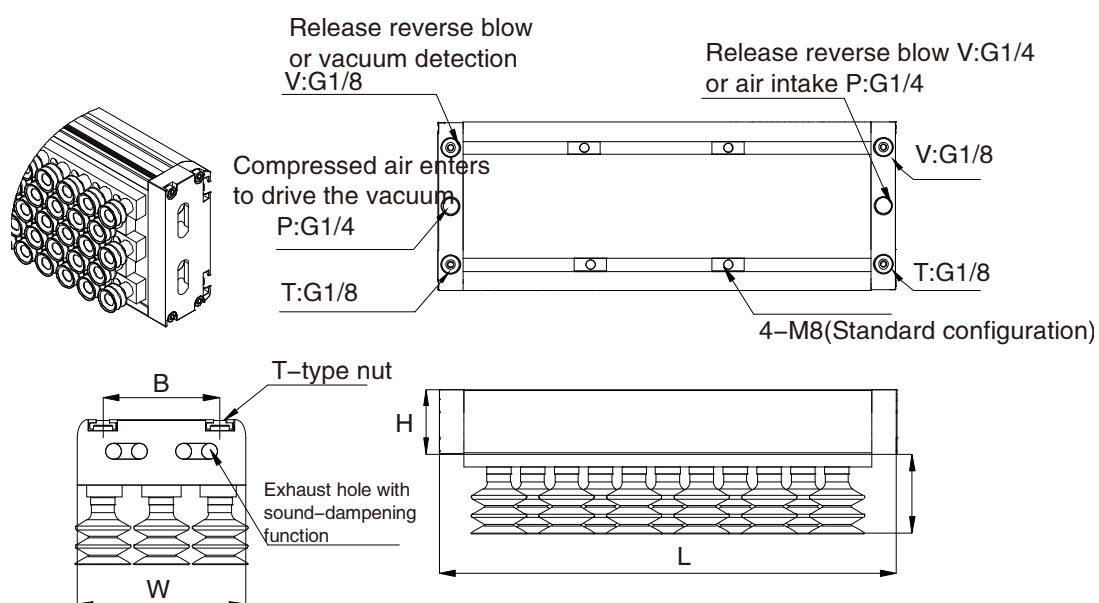


Performance parameters

Model	Type of suction holes	Suction cup type	Number of Suction cup	Supply air pressure(Bar)	Air consumption L/min	Vacuum level kPa	Vacuum flow rate (L/min)	Suction force N(-60kPa)	Weight kg
ATV130-295V-5S20-A	5	S20	53	4~6	200	-60	700	277	3
ATV130-434V-5S20-A	5	S20	83	4~6	200	-60	1050	434	3.8
ATV130-572V-5S20-A	5	S20	113	4~6	300	-60	1400	591	4.5
ATV130-711V-5S20-A	5	S20	143	4~6	300	-60	1400	747	5.3
ATV130-849V-5S20-A	5	S20	173	4~6	400	-60	2100	904	6.2
ATV130-988V-5S20-A	5	S20	203	4~6	400	-60	2100	1061	7.2
ATV130-1126V-5S20-A	5	S20	233	4~6	800	-60	2800	1218	8.1
ATV130-1265V-5S20-A	5	S20	263	4~6	800	-60	2800	1375	8.9
ATV130-1403V-5S20-A	5	S20	293	4~6	800	-60	2800	1531	9.7
ATV130-1542V-5S20-A	5	S20	323	4~6	800	-60	2800	1688	10.5

Specifications and dimensions

Model	B	H1	H2	W	L
ATV 130-295V-5S20-A	90	50	33	130	295
ATV 130-434V-5S20-A	90	50	33	130	434
ATV 130-572V-5S20-A	90	50	33	130	572
ATV 130-711V-5S20-A	90	50	33	130	711
ATV 130-849V-5S20-A	90	50	33	130	849
ATV 130-988V-5S20-A	90	50	33	130	988
ATV 130-1126V-5S20-A	90	50	33	130	1126
ATV 130-1265V-5S20-A	90	50	33	130	1265
ATV 130-1403V-5S20-A	90	50	33	130	1403
ATV 130-1542V-5S20-A	90	50	33	130	1542



ATVF130 Rubber Grippers(External vacuum source)



Features

- ATVF130 Vacuum Gripper: ATVF130 vacuum gripper is suitable for capturing products with different characteristics in various industries and can handle products of various specifications.
- It can flexibly select standard grippers or design custom grippers according to specific application conditions, and different-sized grippers can be freely combined and used in tandem.
- Optional Check Valve Technology: Optional check valve technology can address issues related to significant vacuum leakage, uneven surfaces, varying sizes, and irregular shapes of workpieces.
- The vacuum source can be externally connected to a vacuum generation device, making it particularly suitable for use with electrically driven vacuum generation devices such as blowers or vacuum pumps.
- Modular Design: It features a modular design for easy maintenance and provides reserved interfaces for directly attaching functional components to optimize processes and promote energy conservation and environmental protection.
- The gripper body is constructed from materials like aluminum alloy, engineering plastics, and carbon fiber composite, known for their high strength and lightweight characteristics.
- Easy Installation Method: The gripper comes with a self-contained T-shaped movable installation slider, which can be used to secure the gripper or install and assemble sensors.
- Quick-Change Rubber Seal Accessories: Rubber seal accessories can be quickly replaced for convenient maintenance.

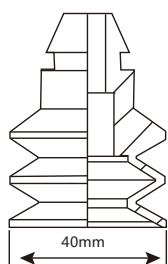
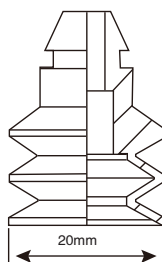
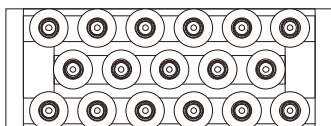
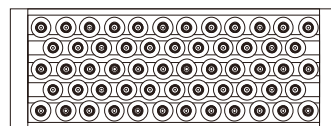
Order Code

ATVF 130-1265 V-3 S40-E

① ② ③ ④ ⑤ ⑥ ⑦

①Model	③width[mm]	④Length[mm]	⑤Valve technology
ATVF	130	295 988	V:Check valve
		434 1126	L:Flow control valve
		572 1265	S:High-speed valve
		711 1403	
		849 1542	
⑥Type of suction holes	⑦Suction cup diameter types[mm]	⑧Vacuum source	
3 (3 rows embedded module)	S40 Suction cup diameter 40	E:External vacuum source	
5 (5 rows embedded module)	S20 Suction cup diameter 20		

Suction cup accessories Order Code

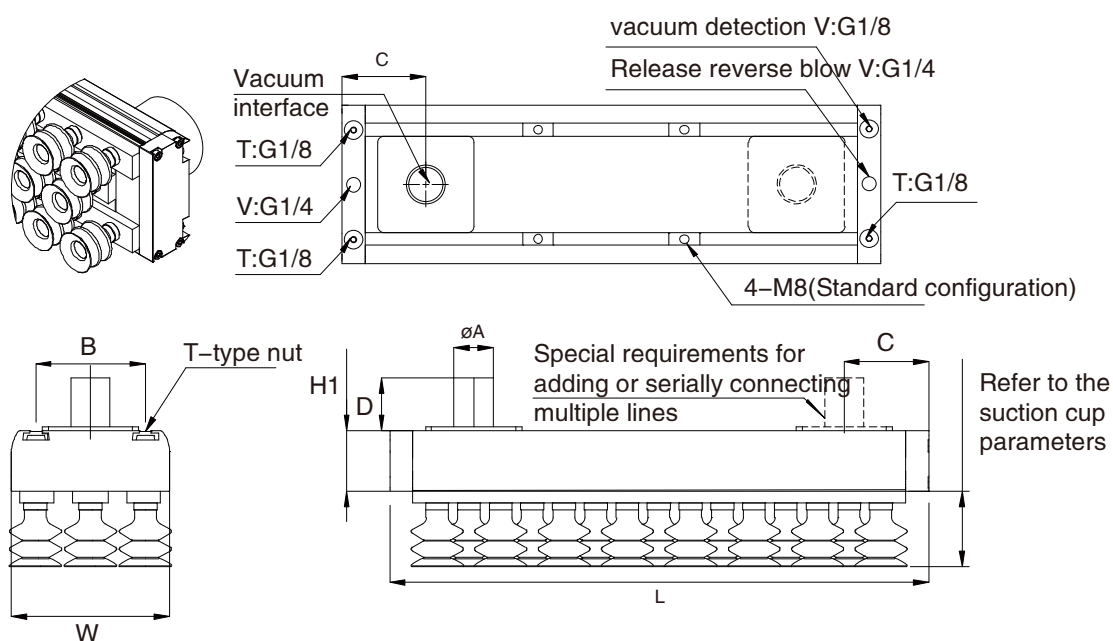
Suction cup accessories
order model: S40Suction cup diameter 40MM
The gripper uses 3 rows during operation
Suction hole type:3Suction cup accessories
order model: S20Suction cup diameter 20MM
The gripper uses 5 rows during operation
Suction hole type:5

Performance parameters

Model	Type of suction holes	Suction cup type	Number of Suction cup	The required air extraction volume(L/min)	Vacuum level kPa	Vacuum level N(-40kPa)	Weight kg
ATVF 130-295V-3S40-E	3	S40	17	150	-40	296	2.8
ATVF 130-434V-3S40-E	3	S40	26	300	-40	452	3.6
ATVF 130-572V-3S40-E	3	S40	35	400	-40	608	4.3
ATVF 130-711V-3S40-E	3	S40	44	510	-40	765	5.1
ATVF 130-849V-3S40-E	3	S40	53	600	-40	921	6
ATVF 130-988V-3S40-E	3	S40	62	750	-40	1078	7
ATVF 130-1126V-3S40-E	3	S40	71	850	-40	1234	7.7
ATVF 130-1265V-3S40-E	3	S40	80	950	-40	1391	8.5
ATVF 130-1403V-3S40-E	3	S40	89	1050	-40	1547	9.3
ATVF 130-1542V-3S40-E	3	S40	98	1200	-40	1704	10.1

Specifications and dimensions

Model	A	B	C	D	H1	W	L
ATVF 130-295V-3S40-E	60(32)	90	69	54	50	130	295
ATVF 130-434V-3S40-E	60(32)	90	69	54	50	130	434
ATVF 130-572V-3S40-E	60(32)	90	69	54	50	130	572
ATVF 130-711V-3S40-E	60(32)	90	69	54	50	130	711
ATVF 130-849V-3S40-E	60(32)	90	69	54	50	130	849
ATVF 130-988V-3S40-E	60(32)	90	69	54	50	130	988
ATVF 130-1126V-3S40-E	60(32)	90	69	54	50	130	1126
ATVF 130-1265V-3S40-E	60(32)	90	69	54	50	130	1265
ATVF 130-1403V-3S40-E	60(32)	90	69	54	50	130	1403
ATVF 130-1542V-3S40-E	60(32)	90	69	54	50	130	1542



Performance parameters

Model	Type of suction holes	Suction cup type	Number of Suction cup	The required air extraction volume(L/min)	Vacuum level kPa	Vacuum level N(-40kPa)	Weight kg
ATVF 130-295V-5S20-E	5	S20	53	150	-40	277	2.8
ATVF 130-434V-5S20-E	5	S20	83	300	-40	434	3.6
ATVF 130-572V-5S20-E	5	S20	113	400	-40	591	4.3
ATVF 130-711V-5S20-E	5	S20	143	510	-40	747	5.1
ATVF 130-849V-5S20-E	5	S20	173	600	-40	904	6.0
ATVF 130-988V-5S20-E	5	S20	203	750	-40	1061	7.0
ATVF 130-1126V-5S20-E	5	S20	233	850	-40	1218	7.7
ATVF 130-1265V-5S20-E	5	S20	263	950	-40	1375	8.5
ATVF 130-1403V-5S20-E	5	S20	293	1050	-40	1531	9.3
ATVF 130-1542V-5S20-E	5	S20	323	1250	-40	1688	10.1

Specifications and dimensions

Model	A	B	C	D	H1	W	L
ATVF 130-295V-5S20-E	60(32)	90	69	54	50	130	295
ATVF 130-434V-5S20-E	60(32)	90	69	54	50	130	434
ATVF 130-572V-5S20-E	60(32)	90	69	54	50	130	572
ATVF 130-711V-5S20-E	60(32)	90	69	54	50	130	711
ATVF 130-849V-5S20-E	60(32)	90	69	54	50	130	849
ATVF 130-988V-5S20-E	60(32)	90	69	54	50	130	988
ATVF 130-1126V-5S20-E	60(32)	90	69	54	50	130	1126
ATVF 130-1265V-5S20-E	60(32)	90	69	54	50	130	1265
ATVF 130-1403V-5S20-E	60(32)	90	69	54	50	130	1403
ATVF 130-1542V-5S20-E	60(32)	90	69	54	50	130	1542

