



C-JAC INDUSTRIAL CO.,LTD.(TaiWan)



C-JAC INDUSTRIAL CO.,LTD.(ShangHai)



C-JAC INDUSTRIAL CO.,LTD.(SuZhou)



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SHOCK ABSORBERS

CJAC

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Outstanding Motion Controls

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C-JAC INDUSTRIAL CO., LTD.



C-JAC Industrial Co., Ltd. (Taiwan) was founded in 1987. Presently, this group has three plants and five offices with more than 200 employees. Its major products include shock absorber, hydraulic speed controller and pilot check valve, etc. In addition to focusing on domestic market, starting from 1999, this company also extended its market to the overseas market, and DongGuan plant and Shanghai's Qingpu plant were also set up at that moment. In order to reinforce this company's R&D capability and to expand its capability to supply the international market, C-JAC has founded in 2005 its head-plant at Taichung Industrial Park so that it can keep up with the international trend and lead this company to get to the world plant scale.

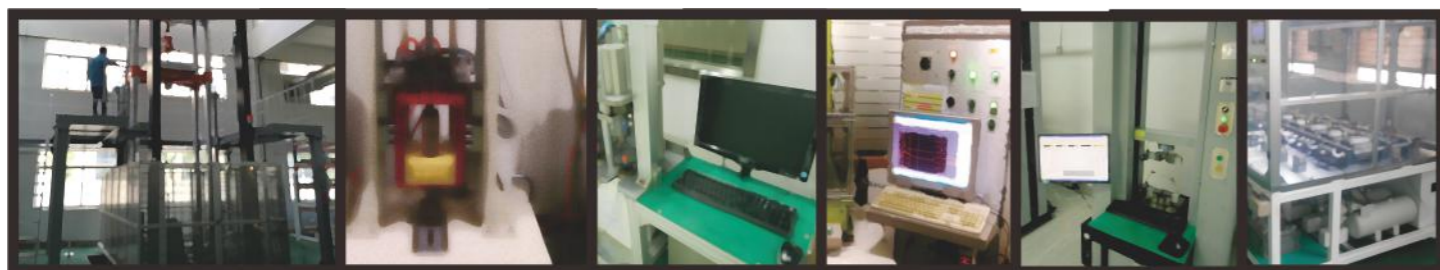
C-JAC Technology Co., Ltd. (Suzhou) launched its production in the autumn of 2013. At the same time, the R&D and manufacturing capability was also reinforced to be used as index of other plants to enhance the depth and breadth of C-JAC group continuously.

It has been more than 30 years since the foundation of C-JAC Industrial Co., Ltd. (Taiwan), during this period of time, it not only improved itself continuously, but also set up its own brand, C-JAC, meanwhile, it continued to provide the industry with components of excellent quality and reasonable price, therefore, C-JAC has become an important ring of industry upgrading. Moreover, C-JAC has also played an important role in the international market, C-JAC's business operation concept was always based on "Rooting downwards, extending outwards and going step by step". C-JAC will always follow this spirit to step into the new era.

Sustaining business operation is usually the basis for an enterprise to survive, therefore, the development goal of this company can be reached only through continuous improvement of its product quality, continuous satisfaction of customer's need and continuous enhancement of the production capability of this company. Meanwhile, our development goals are: "Use technology to guide us towards perfection, take quality as number one priority to pursue excellence, use innovation as the power to drive our practical management strategy, and always bear our integrity spirit in mind to treat our customer to get a win-win situation between both sides".

"Customer is number one and quality is of first priority".

CJAC test equipment



Why it is needed to use shock absorber?

Presently, the market competition becomes ever more than before, therefore, speed up of the production schedule is the basis for the survival of an enterprise. The simplest way to enhance the production capacity is to enhance the operation speed of the machine, however, this might easily create too much vibration and noise, and the machine could easily get damaged too, which in turn leads to nonconforming product certification result. Meanwhile, due to the speed up of the operation speed of the machine, too much impact force generated might also greatly reduce the machine's safety, which might lead to uncompensated loss. The industrial shock absorber manufactured by CJAC can reduce vibration and noise generated in the automated machinery, meanwhile, the kinetic energy generated by object in motion can be converted into thermal energy and released into the atmosphere. Meanwhile, in its action, the object is balanced and effectively stopped, and the efficiency and production capacity of the machine is then enhanced. Moreover, the lifetime of the machine is lengthened and the maintenance cost is reduced, machine action is stabilized and product quality is then enhanced. Furthermore, machine operation can become safer and the occurrence probability of the accident can be reduced, meanwhile, work environment becomes more comfortable and personnel's efficiency is then enhanced, finally, the competitive advantage of the enterprise is then enhanced.

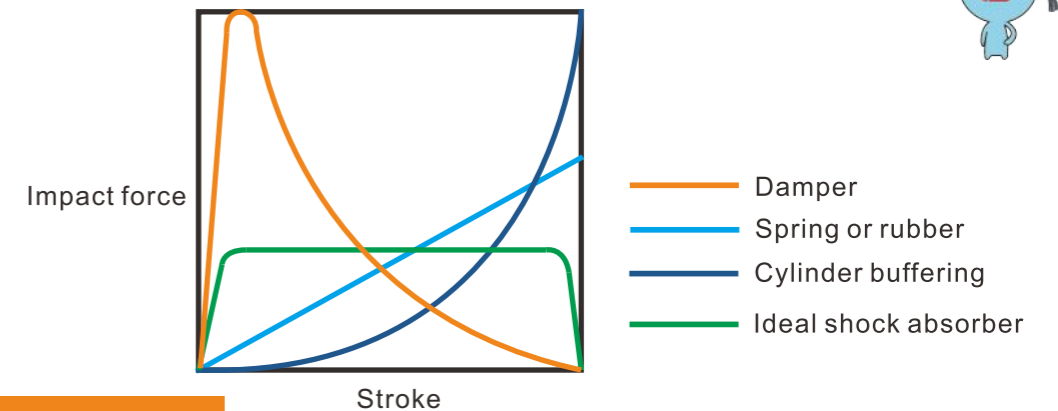
What is the effectiveness of industrial shock absorber?

It can reduce equipment damage and lengthen the lifetime of the machine; it can also reduce the maintenance cost. It can reduce the impact energy and reduce the vibration and noise so that the work environment becomes more comfortable. It can speed up the machinery frequency and enhance the manufacturing efficiency, and it can also enhance the production capacity and consequently enhance the competitive advantage of the enterprise.

What is the buffering effect of shock absorber?

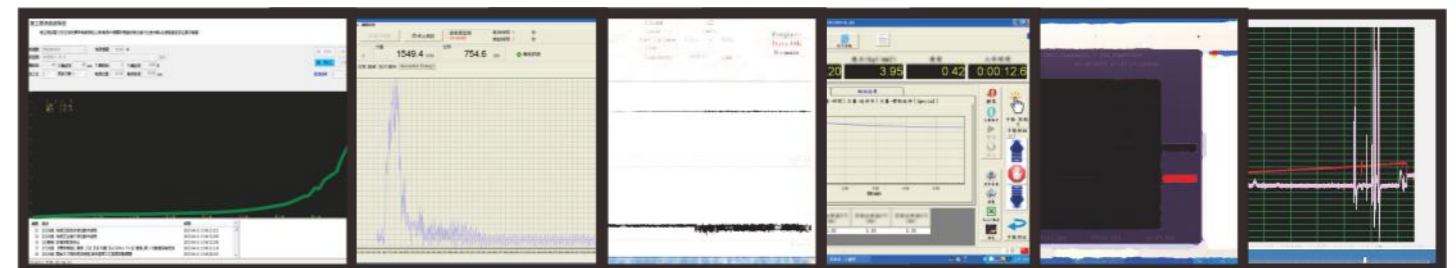
It can resist the impact force without generating any bouncing force, meanwhile, during the impact, the noise is small and the vibration is weak, and the buffering process is very stable. All these advantages cannot be achieved by traditional buffering methods such as spring buffering and PU plastic buffering.

Contrast of buffering effect



CJAC test system

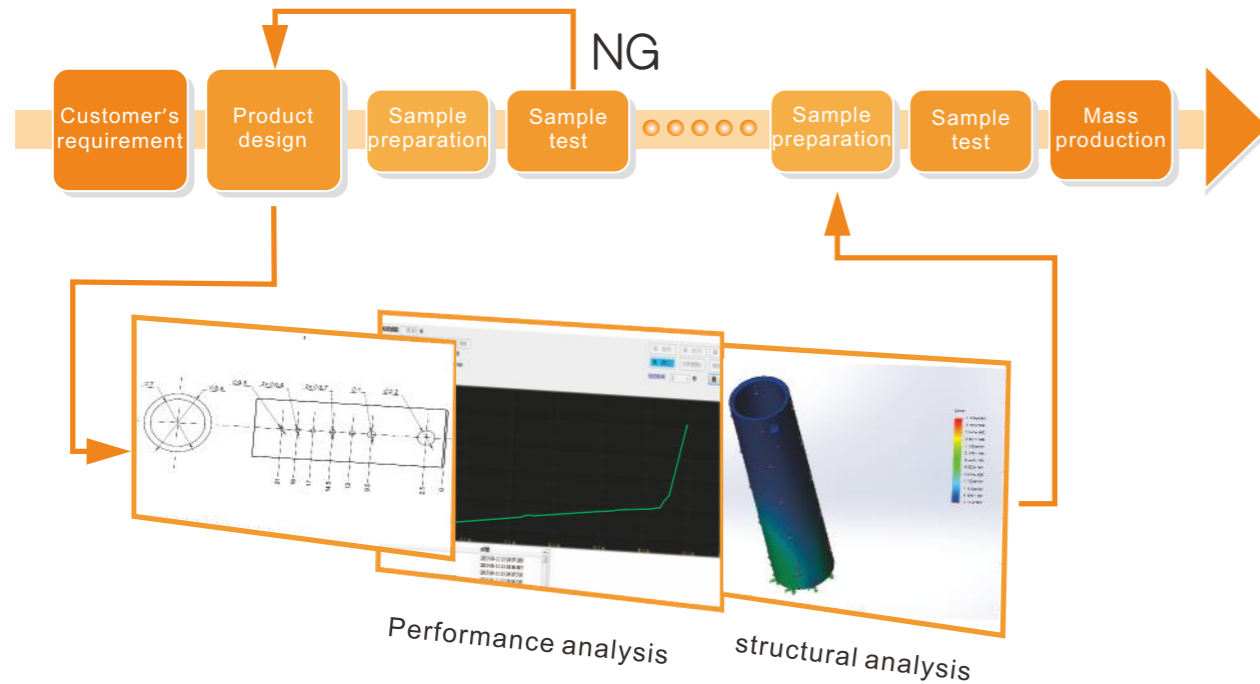
The quality of shock absorber is always the highest guideline of CJAC's business operation. Through continuous breakthrough through industry-school collaboration and the cooperation from professional test manufacturing companies, quality test system for shock absorber was co-developed to satisfy important needs such as operation function test, product lifetime test, new product R&D and safety confirmation of the shock absorbers of CJAC. Meanwhile, all the tests are checked in detail by QA (quality assurance) personnel, therefore, accurate and objective performance data for the shock absorber can be obtained, for example, the size of the impact force, the force-taking stroke of the shock absorber, the energy absorbed, impact speed and force-stroke correlation chart of the shock absorber, etc.



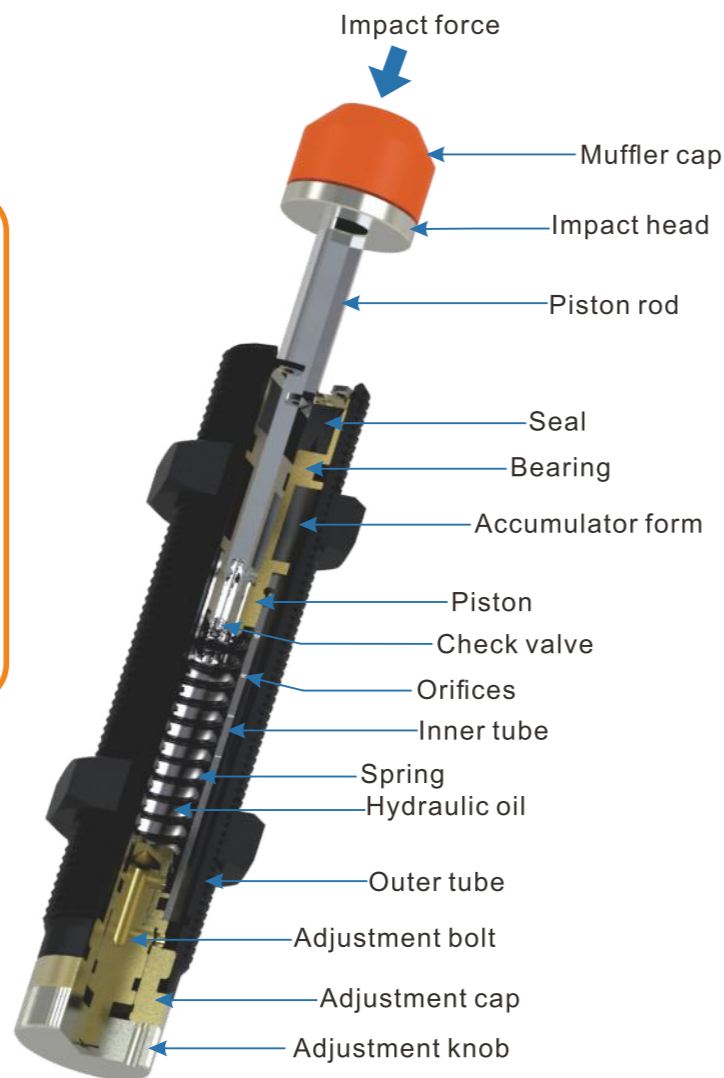
R&D analysis system for CJAC's shock absorber



Model selection



The right figure is a typical shock absorber structure. When the impact head is impacted by external force, it will drive the piston rod to push the piston to squeeze the hydraulic oil in the inner tube, when the hydraulic oil is pressurized, it will flow out from a specifically designed oil release hole on the inner tube, in the same time, it will flow into a pressure storage system. During the flowing process of the hydraulic oil, the shock absorber will generate curve damping effect, which can reduce the speed stably and linearly until it stops. At this moment, the external kinetic energy has been converted into thermal energy of the shock absorber, the thermal energy is then released into the air to realize energy circulation. When the external force disappears, reset spring will reset the piston rod to its starting position to wait for the next action. Based on this principle, shock absorber can stop the object in motion stably and effectively.



Shock absorber

Purchase example

AC 08 06 - 1

AC: Self-compensated type
AD: Adjustable type
ACD: Dual-side buffering type

External diameter (mm) Stroke (mm)

None: with impact head
N: No impact head

-1: high speed
-2: medium speed
-3: low speed
-5: very low speed
-S: AC-S series
-K: AC-K series

(The larger the number, the larger the allowed impact speed)



- Purchase example
- Model index
- Calculation example
- AC series
- Circuit breaker series
- AC-K series
- ACD series
- AC-S series
- AD series
- Stop cylinder series
- Accessory
- Shock absorber for log cabin
- HR series
- PC series
- HD series
- HD series selection
- HD series accessory
- User manual

Characteristics

AC-S series, as compared to AC series, has smaller installation length, higher usage frequency, larger energy absorption, more secure product structure, and higher safety. It is applicable to equipment of compact size or of small space, and there is straight slot or milled edge to facilitate the installation.

- Material——Outer tube: AISI 1215, STKM11A nitridations and blasting treatment to enhance the rust-prevention capability.
Piston rod: Hardened chromium-plating treatment and special sealing part to lengthen its lifetime.
Piston: Highly wearing-resistant material is adopted to guarantee long and stable buffering effect.
- Speed range——0.3 ~ 5.0 m/s
- Temperature range——-10 ~ +80°C
- Installation method——CJAC has provided several installation methods such as NUT and positioning stop nut (SC) and angle adaptor (SLA). Besides, customized can be made based on your need.
- Special need——CJAC can make customized spec according to your usage situation.



Model number	Stroke (mm)	Max. Nm Per Cycle (Et)	Max. Nm Per Hour (Etc)	Max. effective Mass (Me) Kg	Max. impact speed (v)m/s	Without impact head	With impact head	Flange (F)	Stop collar (SC)	Operating temperature (°C)	Weight (g)
AC0604-S	4	0.5	720	3	0.3-1.0	o	o	—	o	-10~+80	4.0
AC0806-S	6	3	7,000	6	0.3-2.5	o	o	—	o	-10~+80	17
AC1007-S	7	6	12,400	12	0.3-3.5	o	o	—	o	-10~+80	28
AC1210-S	10	12	22,500	22	0.3-4.0	o	o	—	o	-10~+80	32
AC1412-S	12	20	33,000	40	0.3-5.0	o	o	—	o	-10~+80	70
AC1412-SM	12	14	24,000	25	0.3-5.0	o	o	—	o	-10~+80	70
AC2015-S	15	59	38,000	120	0.3-5.0	o	o	—	o	-10~+80	160
AC2525-S	25	80	60,000	180	0.3-5.0	o	o	—	o	-10~+80	295
AC2725-S	25	147	72,000	270	0.3-5.0	o	o	—	o	-10~+80	375

Model number	Thread	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	Figure
AC0604-S	M6x0.75	4	36.5	28.5	4.5	1.8	4	22.5	1	8	3	—	—	1
AC0806-S	M8x1.0	6	55.2	40.6	6.6	2.9	8.6	33.6	2	11	3	—	—	2
AC1007-S	M10x1.0	7	62.6	47	8.6	3	8.6	39	3	12.7	3	—	—	2
AC1210-S	M12x1.0	10	71.3	52.5	10.3	3	8.8	44	3	14	4	—	—	2
AC1412-S	M14x1.5	12	90.2	67	12	4	11.2	58	4	19	5	12.1	—	3
AC1412-SM	M14x1.5	12	78.2	55	12	4	11.2	46.5	3.5	19	5	12	—	3
AC2015-S	M20x1.5	15	103.3	73	17.8	6	15.3	62	4	26	7	18	—	3
AC2525-S	M25x1.5	25	136	92	22	8	19	82	—	32	9	23	—	3
AC2725-S	M27x1.5	25	143	99	22	8	19	86	5	32	6	25	—	3

Figure 1

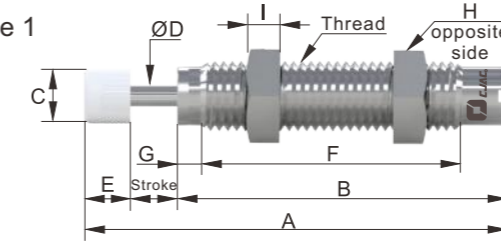


Figure 2

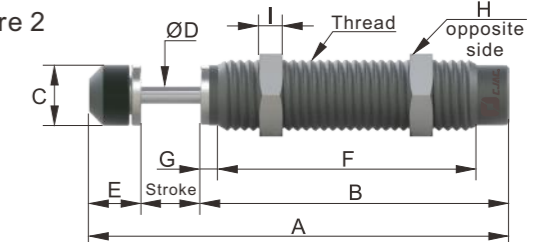
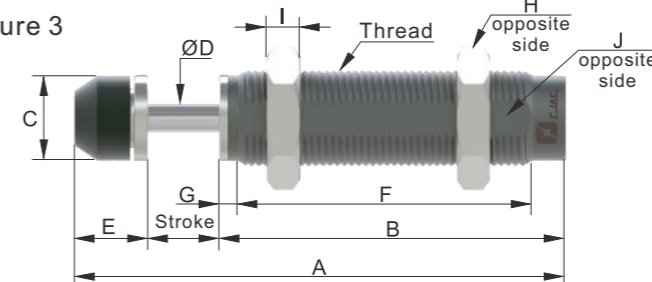


Figure 3



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