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Hydraulic speed controller

Pilot check valve

Heavy duty shock absorber





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".







Why it is needed to use shock absorber?

resently, the market competition becomes ever more than before, therefore, speed up of the production schedu the basis for the survival of an enterprise. The simplest way to enhance the production capacity is to enhanc ne operation speed of the machine, however, this might easily create too much vibration and noise, and the nachine could easily get damaged too, which in turn leads to nonconforming product certification result. Meanwhil ue to the speed up of the operation speed of the machine, too much impact force generated might also great educe 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 balancedand 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 buffering effect of shock absorber?



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.

ency, and it can also enhance the production capacity and equently enhance the competitive advantage of the enterprise.

Contrast of buffering effect



Impact force

DamperSpring or rubberCylinder bufferingIdeal shock absorber

CJAC test system

Stroke

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.





<u>AC</u> <u>08</u> <u>06</u> - <u>1</u>

Model selection

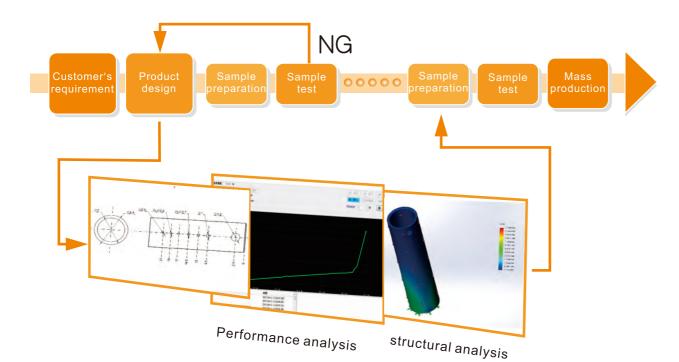
Shock absorber

Stroke (mm)

Purchase example

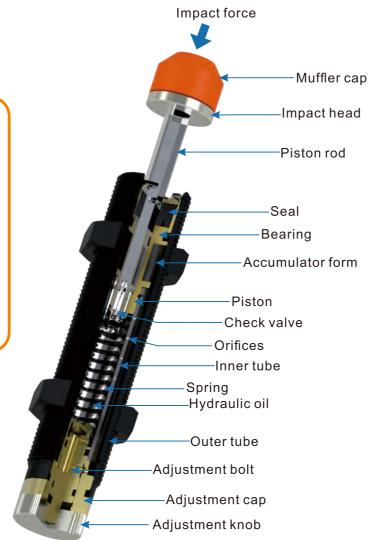
None: with impact head N: No impact head

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



R&D analysis system for CJAC's shock absorber

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.





AC: Self-compensated type AD: Adjustable type

ACD: Dual-side buffering type



External diameter (mm)

AC-S series



-1: high speed

-K: AC-K series

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

ACD series



AC-K series



AD series



AD-W series



Hydraulic speed controller



Shock absorber for circuit breaker







Rotational shock absorber



Heavy duty



Air spring



Log cabin shock absorber



Accessory

Calculation example AC series

ACD series

AC-S series AD series

HR series

C series

HD series

HD series accessory

Model index

Automatic compensated type

Model index

Adjustable type

Model number	Stroke (MM)	Max. Nm Per Cycle (Et)	Max. effective Mass(Me) (Kg)	Max. impact speed (v)m/s	Pag	е		(e Per Cycle	e Model Stroke Per Cycle effective (MM)	Model Stroke Max. Nm effective impact Per Cycle Mass(Me) velocity
AC0805	5	1.8	0.5-5.0	0.5-2.0	12		ACD2050	ACD2050 50	ACD2050 50 60	ACD2050 50 60 60-480	ACD2050 50 60 60-480 1.0-3.5
AC0806	6	2	0.5-6.0	0.5-2.0	12		ACD2050-2WY	ACD2050-2WY 50	ACD2050-2WY 50 70	ACD2050-2WY 50 70 60-530	ACD2050-2WY 50 70 60-530 1.0-3.5
AC1005	5	3	1-7	0.8-3.0	12		AC1415-6K	AC1415-6K 15	AC1415-6K 15 9.8	AC1415-6K 15 9.8 30	AC1415-6K 15 9.8 30 1.0
AC1008	8	4	2-9	0.8-3.0	12		AC1415-7K	AC1415-7K 15	AC1415-7K 15 9.8	AC1415-7K 15 9.8 15	AC1415-7K 15 9.8 15 1.5
AC1210	10	5	5-30	0.8-3.0	12		AC2020-2K	AC2020-2K 20	AC2020-2K 20 36	AC2020-2K 20 36 27	AC2020-2K 20 36 27 2.0
AC1408	8	12	6-80	0.8-3.0	12		AC2025-2K	AC2025-2K 25	AC2025-2K 25 40	AC2025-2K 25 40 35	AC2025-2K 25 40 35 2.0
AC1412	12	15	8-100	0.8-3.0	12		AC2030-5K	AC2030-5K 30	AC2030-5K 30 44	AC2030-5K 30 44 60	AC2030-5K 30 44 60 1.2
AC1416	16	20	10-150	0.8-3.0	12		AC2030-6K	AC2030-6K 30	AC2030-6K 30 44	AC2030-6K 30 44 30	AC2030-6K 30 44 30 1.7
AC1416-C	16	20	10-150	0.8-3.0	14		AC2030-7K	AC2030-7K 30	AC2030-7K 30 44	AC2030-7K 30 44 15	AC2030-7K 30 44 15 2.4
AC1420	20	20	10-150	0.8-3.0	14		AC2030-8K	AC2030-8K 30	AC2030-8K 30 44	AC2030-8K 30 44 8	AC2030-8K 30 44 8 2.8
AC1425	25	20	20-250	0.8-3.0	14		AC2030-16K	AC2030-16K 30	AC2030-16K 30 44	AC2030-16K 30 44 5	AC2030-16K 30 44 5 4.2
AC1610	10	30	30-700	1.0-3.5	14		AC2030-18K	AC2030-18K 30	AC2030-18K 30 44	AC2030-18K 30 44 3	AC2030-18K 30 44 3 6.0
AC2020	20	40	30-700	1.0-3.5	14		AC2050-10K	AC2050-10K 50	AC2050-10K 50 59	AC2050-10K 50 59 30	AC2050-10K 50 59 30 2.0
AC2030	30	50	30-700	1.0-3.5	14		AC2050-11K	AC2050-11K 50	AC2050-11K 50 59	AC2050-11K 50 59 30	AC2050-11K 50 59 30 2.0
AC2050	50	60	60-1200	1.0-3.5	14		AC2050-12K	AC2050-12K 50	AC2050-12K 50 59	AC2050-12K 50 59 15	AC2050-12K 50 59 15 2.8
AC2525	25	80	200-1500	1.0-4.0	14		AC2050-13K	AC2050-13K 50	AC2050-13K 50 59	AC2050-13K 50 59 8	AC2050-13K 50 59 8 3.8
AC2530	30	90	230-1725	1.0-4.0	14		AC2050-16K	AC2050-16K 50	AC2050-16K 50 59	AC2050-16K 50 59 5	AC2050-16K 50 59 5 5.0
AC2540	40	120	300-2000	1.0-4.0	16		AC2050-17K	AC2050-17K 50	AC2050-17K 50 59	AC2050-17K 50 59 3	AC2050-17K 50 59 3 6.8
AC2550	50	98	200-1680	1.0-4.0	16		AC2050D-13SK	AC2050D-13SK 50	AC2050D-13SK 50 59	AC2050D-13SK 50 59 32	AC2050D-13SK 50 59 32 2.5
AC2580	80	150	150-1200	1.0-4.0	16		AC2050D-14K	AC2050D-14K 50	AC2050D-14K 50 59	AC2050D-14K 50 59 32	AC2050D-14K 50 59 32 2.5
AC2725	25	80	20-1500	1.0-4.0	16		AC2065-2K	AC2065-2K 65	AC2065-2K 65 65	AC2065-2K 65 65 32	AC2065-2K 65 65 32 2.5
AC3010	10	90	143-1300	1.0-3.0	19		AC2065-2KW	AC2065-2KW 65	AC2065-2KW 65 65	AC2065-2KW 65 65 28	AC2065-2KW 65 65 28 3.0
AC3012	12	65	143-1300	1.0-3.0	19		AC0604-S	AC0604-S 4	AC0604-S 4 0.5	AC0604-S 4 0.5 3	AC0604-S 4 0.5 3 0.3-1.0
AC3025	25	180	300-1300	1.0-3.0	16		AC0806-S	AC0806-S 6	AC0806-S 6 3	AC0806-S 6 3 6	AC0806-S 6 3 6 0.3-2.5
AC3613	13	78	240-800	1.0-4.0	19		AC1007-S	AC1007-S 7	AC1007-S 7 6	AC1007-S 7 6 12	AC1007-S 7 6 12 0.3-3.5
AC3615	15	84	240-900	1.0-4.0	19		AC1210-S	AC1210-S 10	AC1210-S 10 12	AC1210-S 10 12 22	AC1210-S 10 12 22 0.3-4.0
AC3660	60	250	400-2400	1.0-4.0	16		AC1412-S	AC1412-S 12	AC1412-S 12 20	AC1412-S 12 20 40	AC1412-S 12 20 40 0.3-5.0
AC4213	13	155	300-1240	1.0-3.5	19		AC1412-SM	AC1412-SM 12	AC1412-SM 12 14	AC1412-SM 12 14 25	AC1412-SM 12 14 25 0.3-5.0
ACD2030	30	45	40-900	1.0-3.5	24		AC2015-S	AC2015-S 15			
ACD2035	35	52	40-650	0.5-2.0	24		AC2525-S				

AC2725-S 25 147 270 0.3-5.0 27 AD1210 10 12 35 0.5-3.0 30 AD1410 10 20 80 3.0 30 AD1415 15 24 100 3.0 30 AD1425 25 28 140 3.0 30 AD2016 16 25 200 3.5 30 AD2016-C 16 25 200 3.5 30 AD2020 20 34 298 3.5 30 AD2050 50 69 420 3.5 30 AD2550 25 39 312 3.5 30 AD2550 50 69 420 3.5 30 AD2530 30 95 480 3.5 30 AD2540 40 100 700 3.5 30 AD2550 50 120 720 4.0 30	Model number	Stroke (MM)	Max. Nm Per Cycle (Et)	Max. effective Mass(Me) (Kg)	Max. impact velocity (M/S)	Page
AD1410 10 20 80 3.0 30 AD1415 15 24 100 3.0 30 AD1425 25 28 140 3.0 30 AD1612 12 22 130 3.0 30 AD2016 16 25 200 3.5 30 AD2016-C 16 25 200 3.5 30 AD2020 20 34 298 3.5 30 AD2025 25 39 312 3.5 30 AD2050 50 69 420 3.5 30 AD2550 50 69 420 3.5 30 AD2550 50 120 720 4.0 30 AD2580 80 150 800 4.0 30 AD2725 25 85 400 3.5 30 AD3326 26 195 1400 0.3-3.3 30 AD3326 26 195 1400 3.0 32 AD3650 50 300 2400 3.0 32 AD3650 50 300 2400 3.5 32 AD4225(-B)-W 25 260 3000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B)-W 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AC2725-S	25	147	270	0.3-5.0	27
AD1415 15 24 100 3.0 30 AD1425 25 28 140 3.0 30 AD1612 12 22 130 3.0 30 AD2016 16 25 200 3.5 30 AD2016-C 16 25 200 3.5 30 AD2020 20 34 298 3.5 30 AD2025 25 39 312 3.5 30 AD2050 50 69 420 3.5 30 AD2550 25 85 400 3.5 30 AD2550 50 120 720 4.0 30 AD2580 80 150 800 4.0 30 AD2725 25 85 400 3.5 30 AD2725 25 85 400 3.5 30 AD2580 80 150 800 4.0 30 AD2725 25 85 400 3.5 30 AD2725 25 85 400 3.5 30 AD2580 80 150 800 4.0 30 AD2725 25 85 400 3.5 30 AD3326 26 195 1400 0.3-3.3 30 AD3326 26 195 1400 0.3-3.3 30 AD3625 25 150 1400 3.0 32 AD3650 50 300 2400 3.0 32 AD3650 50 300 2400 3.0 32 AD4225(-B)-W 25 260 3000 3.5 32 AD4225(-B)-W 25 260 3000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD1210	10	12	35	0.5-3.0	30
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AD2025 25 39 312 3.5 30 AD2050 50 69 420 3.5 30 AD2525 25 85 400 3.5 30 AD2530 30 95 480 3.5 30 AD2540 40 100 700 3.5 30 AD2550 50 120 720 4.0 30 AD2580 80 150 800 4.0 30 AD2725 25 85 400 3.5 30 AD3326 26 195 1400 0.3-3.3 30 AD3352 52 385 2400 0.3-3.3 30 AD3625 25 150 1400 3.0 32 AD3650 50 300 2400 3.0 32 AD4225 25 260 3000 3.5 32 AD4225 25 260 3000 3.5 32 AD4225 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD2016-C	16	25	200	3.5	30
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AD2550 50 120 720 4.0 30 AD2580 80 150 800 4.0 30 AD2725 25 85 400 3.5 30 AD3326 26 195 1400 0.3-3.3 30 AD3352 52 385 2400 0.3-3.3 30 AD3625 25 150 1400 3.0 32 AD3650 50 300 2400 3.0 32 AD4225 25 260 3000 3.5 32 AD4225(-B)-W 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4250 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32	AD2530	30	95	480	3.5	30
AD2580 80 150 800 4.0 30 AD2725 25 85 400 3.5 30 AD3326 26 195 1400 0.3-3.3 30 AD3352 52 385 2400 0.3-3.3 30 AD3625 25 150 1400 3.0 32 AD3650 50 300 2400 3.0 32 AD4225 25 260 3000 3.5 32 AD4225 25 260 3000 3.5 32 AD4225(-B)-W 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD2540	40	100	700	3.5	30
AD2725 25 85 400 3.5 30 AD3326 26 195 1400 0.3-3.3 30 AD3352 52 385 2400 0.3-3.3 30 AD3625 25 150 1400 3.0 32 AD3650 50 300 2400 3.0 32 AD4225 25 260 3000 3.5 32 AD4225(-B)-W 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD2550	50	120	720	4.0	30
AD3326 26 195 1400 0.3-3.3 30 AD3352 52 385 2400 0.3-3.3 30 AD3625 25 150 1400 3.0 32 AD3650 50 300 2400 3.0 32 AD4225 25 260 3000 3.5 32 AD4225(-B)-W 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD2580	80	150	800	4.0	30
AD3352 52 385 2400 0.3-3.3 30 AD3625 25 150 1400 3.0 32 AD3650 50 300 2400 3.0 32 AD4225 25 260 3000 3.5 32 AD4225(-B)-W 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD2725	25	85	400	3.5	30
AD3625 25 150 1400 3.0 32 AD3650 50 300 2400 3.0 32 AD4225 25 260 3000 3.5 32 AD4225(-B)-W 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD3326	26	195	1400	0.3-3.3	30
AD3650 50 300 2400 3.0 32 AD4225 25 260 3000 3.5 32 AD4225(-B)-W 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD3352	52	385	2400	0.3-3.3	30
AD4225 25 260 3000 3.5 32 AD4225(-B)-W 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD3625	25	150	1400	3.0	32
AD4225(-B)-W 25 260 3000 3.5 32 AD4250 50 500 4000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD3650	50	300	2400	3.0	32
AD4250 50 500 4000 4.5 32 AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD4225	25	260	3000	3.5	32
AD4250(-B)-W 50 500 4000 4.5 32 AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD4225(-B)-W	25	260	3000	3.5	32
AD4275 75 750 6000 4.5 32 AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD4250	50	500	4000	4.5	32
AD4275(-B)-W 75 750 6000 4.5 32 AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD4250(-B)-W	50	500	4000	4. 5	32
AD64050(-B) 50 1200 12727 1.5 32 AD64050(-B)-W 50 1200 12727 1.5 32	AD4275	75	750	6000	4.5	32
AD64050(-B)-W 50 1200 12727 1.5 32	AD4275(-B)-W	75	750	6000	4. 5	32
· ·	AD64050(-B)	50	1200	12727	1.5	32
AD64100(-B) 100 2400 18181 1.5 32	AD64050(-B)-W	50	1200	12727	1.5	32
	AD64100(-B)	100	2400	18181	1.5	32

Model number	Stroke (MM)	Max. Nm Per Cycle (Et)	Max. effective Mass(Me) (Kg)	Max. impact velocity (M/S)	Page
AD64100(-B)-W	100	2400	18181	1.5	32
AD64150(-B)	150	3600	23636	1.5	32
AD64150(-B)-W	150	3600	23636	1.5	32
AD85050-W	50	2300	16800	4.3	32
AD85090-W	90	4000	30000	4.3	32
AD85125-W	125	5700	42000	4.3	32

Note: 1. The damping effects of all the specs can be prepared according to your need.

- 2. -C Main body modification to facilitate the installation.
- 3. –W Adjustment knob is designed at the side part to facilitate adjustment.
- 4. –B is British system thread, which can be adapted to more installed equipment.

Model number	Stroke (MM)	Max. Nm Per Cycle (Et)	Max. effective Mass(Me) (Kg)	Max. impact velocity (M/S)	Page
64100(-B)-W	100	2400	18181	1.5	32
64150(-B)	150	3600	23636	1.5	32
64150(-B)-W	150	3600	23636	1.5	32
85050-W	50	2300	16800	4.3	32
85090-W	90	4000	30000	4.3	32
85125-W	125	5700	42000	4.3	32

Calculation example

AC series

Circuit breaker series

AC-K series ACD series

AC-S series

AD series

Stop cylinder series

Accessory

HR series

PC series

HD series

HD series selection

HD series accessory

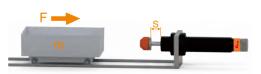
Model selection

Calculation example

Commonly used calculation formulae	Symbol	Unit	Description
Kinetic energy: Eκ= mv²/2	μ		Frictional coefficient
Driving energy: E _D = F·S	α	(rad)	Slope tilting angle
Free fall velocity: V=√2g·H	θ	(rad)	Impact contact forwarding angle
Pneumatic or hydraulic cylinder driving forces: F= 0.00785Pd ²	ω	(rad/s)	Angular velocity
Max. impact force (approximate): Fm=1.2·E _T /S	Α	(m)	Width
Propulsive force generated by electric motor: F= 3000kw/v	В	(m)	Thickness
The absorbed total energy per hour: $E_{\tau c} = E_{\tau} \cdot C$	С	(/hr)	Impact count per hour
	d	(mm)	Cylinder inner diameter
Four parameters are required to precisely determine the dimension	ED	(Nm)	Driving energy
of CJAC shock absorbers:	Eκ	(Nm)	Kinetic energy
1 The overall weight m (kg) to move the object.	Ет	(Nm)	Overall energy
2 Speed at the moment of impact V (m/s)	Етс	(Nm)	Overall energy per hour
3 Propulsive force F (N)	F	(N)	Propulsive force
4 Impact count C per hour (/hr)	Fm	(N)	Maximal impact force
	g	(m/s²)	Gravitational acceleration
	Н	(m)	Height
	HM		Arresting torgue foctor fro motors (normally 2.5)
	kW	(kW)	Electric motor power
	m	(Kg)	Total weight of moving object
	Me	(Kg)	Effective weight
	Р	(bar)	Actuation pressure
	R	(m)	Radius
	Rs	(m)	The distance between shock absorber and rotational center
	S	(m)	Stroke
	Т	(Nm)	Drive torque
	t	(s)	Deceleration time
	V	(m/s)	Velocity at the moment of impact

1 Horizontal impact

Usage condition Formula and calculation



m = 300 Kg	$E_K = \frac{mv^2}{2} = \frac{300 \cdot 1.0^2}{2} = 150 \text{Nm}$
v = 1.0m/s	E _T = E _K =150Nm
S=0.05m	ETC= ET · C=150 · 300=45000Nm
C=300/hr	$M_e = \frac{2ET}{V^2} = \frac{2 \cdot 150}{1.0^2} = 300 \text{Kg}$

From the calculation result based on formula, it is recommended that one AD3650 shock absorber should be used

2 Horizontal impact with propulsive force

Usage condition Formula and calculation

m = 300 Kg	$E_K = \frac{mv^2}{2} = \frac{300 \cdot 1.2^2}{2} = 216Nm$	
v = 1.2m/s	$E_D = F \cdot S = 0.0785 Pd^2 \cdot S = 0.0785 \cdot 4 \cdot 1$	100²⋅ 0.05=157Nm
S = 0.05m	ET= EK+ ED=216+157 =373Nm	
P = 4bar	ETC= ET · C=373 · 300=111900Nm/hr	
d = 100mm		From the calculation result based on
C=300/hr	$M_e = \frac{2ET}{V^2} = \frac{2 \cdot 373}{1.2^2} = 518Kg$	formula, it is recommended that one AD4250 shock absorber should be use

3 Free fall impact



Usage condition

m = 40 Kg
H = 0.4m
S = 0.06m
C=200/hr

Formula and calculation

 $v = \sqrt{2g \cdot H} = \sqrt{2 \cdot 9.81 \cdot 0.4} = 2.8 \text{m/s}$ $E_K = \frac{mv^2}{2} = \frac{40 \cdot 2.8^2}{2} = 157 \text{Nm}$ ET= EK+ ED=157+23.5=180.5Nm

E_D= F · S=mg · S=40 · 9.81 · 0.06=23.5Nm

ETC= ET · C=180.5 · 200=36100Nm/hr

 $M_e = \frac{2ET}{v^2} = \frac{2 \cdot 180.5}{2.8^2} = 46Kg$

From the calculation result based on formula, it is recommended that one AC3660 shock absorber should be used.

4. Free fall with propelling force



Usage condition

m = 40 KgS = 0.025mP = 5bar d = 50mm

C=200/hr v=1.0m/s

Formula and calculation

5 Horizontal impact with motor drive



Usage condition

m = 400 Kgv=1.0m/s kW=1.5kW HM = 2.5 S = 0.075 mC=60/hr

Formula and calculation

$$E_{K} = \frac{mv^{2}}{2} = \frac{400 \cdot 1.0^{2}}{2} = 200 \text{Nm}$$

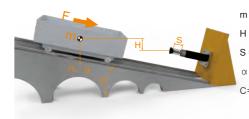
$$E_{D} = F \cdot S = \frac{\text{kW} \cdot \text{HM}}{\text{v}} \cdot S = \frac{1500 \cdot 2.5}{1.0} \cdot 0.075 = 281 \text{Nm}$$

ET= EK+ ED=200+281=481Nm

ETC= ET · C=481 · 60=25860Nm/hr

From the calculation result based on formula, it is recommended that one AD4275 shock absorber should be used. $M_e = \frac{2ET}{V^2} = \frac{2 \cdot 481}{1.0^2} = 962Kg$

6 Tilted impact



Usage condition

m = 150 Kg
H = 0.3m
S = 0.075m

$$\alpha$$
 = 30°
C=200/hr

Formula and calculation

 $v = \sqrt{2g \cdot H} = \sqrt{2 \cdot 9.81 \cdot 0.3} = 2.43 \text{m/s}$ $E_K = \frac{mv^2}{2} = \frac{150 \cdot 2.43^2}{2} = 443 \text{Nm}$ $\mathsf{E}_\mathsf{D} \mathsf{=} \, \mathsf{F} \cdot \mathsf{S} \, \mathsf{=} \mathsf{m} \cdot \mathsf{g} \cdot \mathsf{S} \cdot \mathsf{sin} \, \alpha \, \mathsf{=} 150 \cdot 9.81 \cdot 0.075 \cdot \mathsf{sin} 30^\circ \, \, \mathsf{=} 55.2 \mathsf{Nm}$ ET= EK+ ED=443+55.2=498.2Nm ETC= ET · C=498.2 · 200=99640Nm/hr

 $M_e = \frac{2ET}{v^2} = \frac{2 \cdot 498.2}{2.43^2} = 168.7 \text{Kg}$

From the calculation result based on formula, it is recommended that one AD4275 shock absorber should be used.

Purchase example

AC series

Circuit breaker series

AC-S series

AD series Stop cylinder series

Accessory

Shock absortor log cabin

HR series

PC series

HD series

HD series selection

HD series accessory

7 Horizontal rotational door



Usage condition Formula and calculation

	$I = \frac{m (4A^2 + B^2)}{12} = \frac{20 (4 \cdot 1.0^2 + 0.05^2)}{12} = 6.67 \text{Kg} \cdot \text{m}^2$
m = 20 Kg	$1 = \frac{12}{12} = \frac{12}{12} = 6.67 \text{Kg} \cdot \text{m}^2$
$\omega = 2.0 \text{rad/s}$	$E_{K} = \frac{1 \omega^{2}}{2} = \frac{6.67 \cdot 2.0^{2}}{2} = 13.34 \text{Nm}$
T =20Nm	$\theta = \frac{s}{Rs} = \frac{0.04}{0.8} = 0.05 \text{rad}$
Rs = 0.8 m	$E_D = T \cdot \theta = 20 \cdot 0.05 = 1.0 Nm$
A = 1.0m	ET= EK+ ED=13.34+1.0=14.34Nm
B = 0.05m	ETC= ET · C=14.34 · 100=1434Nm/hr
S = 0.016m	E1C- E1 · C-14.34 · 100-1434NIII/III

	$V = \omega \cdot R_s = 2.0 \cdot 0.8 = 1.6 \text{m/s}$	From the calculation result based
C=100/hr	$M_e = \frac{2ET}{v^2} = \frac{2 \cdot 14.34}{1.6^2} = 11.2 \text{Kg}$	formula, it is recommended that o AD2016 shock absorber should be

8 Rotational indexing plate with propulsive force

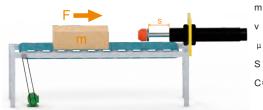


Usage condition Formula and calculation

	_2 2
m = 200 Kg	$I = \frac{mR^2}{2} = \frac{200 \cdot 0.5^2}{2} = 25 \text{Kg} \cdot \text{m}^2$
$\omega = 1.0 \text{rad/s}$	$E_K = \frac{1 \omega^2}{2} = \frac{25 \cdot 1.0^2}{2} = 12.5 \text{Nm}$
T =100Nm	$\theta = \frac{S}{R_s} = \frac{0.025}{0.4} = 0.0625 \text{ rad}$
R =0.5m	$E_D = T \cdot \theta = 100 \cdot 0.0625 = 6.25 Nm$
$R_s = 0.4 m$	ET= EK+ ED=12.5+6.25=18.75Nm
S=0. 025m	FTC= FT · C=18 75 · 100=1875Nm/hr
C=100/hr	2.6 2. 6 .6 6 .6666.
	$v = \omega \cdot R_s = 1.0 \cdot 0.4 = 0.4 \text{ m/s}$
	$M_e = \frac{2ET}{v^2} = \frac{2 \cdot 18.75}{0.4^2} = 234.4 \text{Kg}$

From the calculation result based on formula, it is recommended that one AD3625 shock absorber should be used.

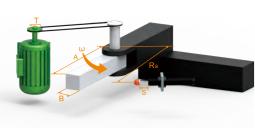
9 Horizontal power conveyor



Usage condition Formula and calculation

m = 150 Kg	$E_K = \frac{mv^2}{2} = \frac{150 \cdot 0.5}{2} = 18.75 \text{Nm}$	
v = 0.5 m/s	$E_D = F \cdot S = mg \mu \cdot S = 150 \cdot 9.81 \cdot 0.25 \cdot 0.$	02=7.35Nm
$\mu = 0.25$	ET= EK+ ED=18.73+7.35=26.1Nm	
S = 0.02m	ETC= ET · C=26.1 · 120=3132Nm/hr	
C=120/hr	$Me = \frac{2ET}{v^2} = \frac{2 \cdot 26.1}{0.5^2} = 208.8 \text{Kg}$	From the calculation result based on formula, it is recommended that one AC2020-3 shock absorber should be used.
	v 0.5	ACZUZU-3 SITUCK ADSULDET SITUATA DE USEU.

10 Rotational arm with propulsive force



Usage condition Formula and calculation

m = 40 Kg	$I = \frac{m (4A^2 + B^2)}{12} = \frac{40 (4 \cdot 0.5^2 + 0.05^2)}{12} = 6$	3.36Kg · m²
$\omega = 2.0 \text{rad/s}$	$E\kappa = \frac{1 \omega^2}{2} = \frac{3.36 \cdot 2.0^2}{2} = 6.8 \text{Nm}$	
T =10Nm	$\theta = \frac{s}{R_s} = \frac{0.05}{0.4} = 0.125 \text{ rad}$	
Rs = 0.4 m	E _D = T · θ =10 · 0.125=1.25Nm	
A = 0.5m	ET= EK+ ED=6.8+1.25 =8.05Nm	
B = 0.05m	ETC= ET · C=8.05 · 50=402.5Nm/hr	
S = 0.05m	$v = \omega \cdot R_s = 2.0 \cdot 0.4 = 0.8 \text{m/s}$	
C=50/hr	$M_{e} = \frac{2ET}{v^{2}} = \frac{2 \cdot 8.05}{0.8^{2}} = 25.15 \text{Kg}$	From the calculation res formula, it is recommen AC1416-2 shock absort

Cylinder application example

















CJAC shock absorber corresponding to cylinder application form

Cylinder I.D.	Ø6	Ø10	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125
5 Kg/cm2 Cylinder propulsive force Kgf	1.4	3.9	5.7	10	15.7	24.5	40	62.8	98	155	251	393	613
AC0604-S	•	•	•										
AC0806		•	•	•									
AC1005		•	•	•									
AC1008		•	•	•									
AC1210			•	•	•								
AC1412			•	•	•								
AC1416			•	•	•	•							
AC1420			•	•	•	•							
AC2020				•	•	•	•	•					
AC2030				•	•	•	•	•					
AC2050					•	•	•	•					
AC2525						•	•	•	•	•	•		
AC2540						•	•	•	•	•	•		
AC2580						•	•	•	•	•	•		
AC3660							•	•	•	•	•		

Cylinder I.D.	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125	Ø160	Ø200	Ø250
5 Kg/cm2 Cylinder propulsive force Kgf	10	15.7	24.5	40	62.8	98	155	251	393	613	1005	1570	2454
AD1410	•	•	•	•									
AD1425	•	•	•	•									
AD2016		•	•	•	•								
AD2025		•	•	•	•								
AD2525			•	•	•	•	•						
AD2530			•	•	•	•	•						
AD2540			•	•	•	•	•						
AD2550			•	•	•	•	•						
AD2580			•	•	•	•	•						
AD3625				•	•	•	•	•	•				
AD3650				•	•	•	•	•	•				
AD4225						•	•	•	•	•			
AD4250						•	•	•	•	•			
AD4275						•	•	•	•	•			
AD64050									•	•	•	•	
AD64100									•	•	•	•	
AD64140									•	•	•	•	
AD85050										•	•	•	•
AD85090										•	•	•	•
AD85125											•	•	

AC series

Circuit breaker series

ACD series

AC-S series

AD series

Accessory

HR series PC series

HD series

HD series selection

Self-compensated type

AC series

Characteristics

AC series is of fixed structure. Through special design and experimented oil hole and arrange method, linear deceleration on the object in motion is achieved. From high speed light load to low speed heavy load, appropriate energy can be absorbed without any adjustment. After the load is removed, reset spring will push the axle center to its original location. For AC series, it has three models of high speed, medium speed and low speed to satisfy your different needs.

- Outer tube: AISI 1215, STKM 11A blackening oxidation, Ni-plating and nitridation Material sandblasting 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 bufferingeffect.

• Speed range — 0.5 ~ 4.0 m/s

● Temperature range——-10 ~ + 80 °C

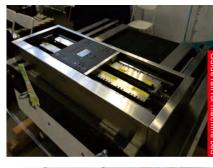
Installation method — CJAC can provide you many installation methods such as NUT, FLANGE, positioning stop nut (SC) and angle adaptor (SLA). Meanwhile, it can also be prepared according to your need.

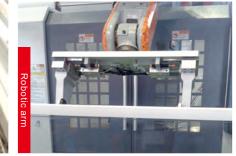
Special need— -CJAC can make customized design according to your usage condition.











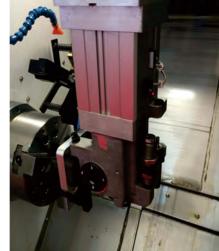
Purchase example

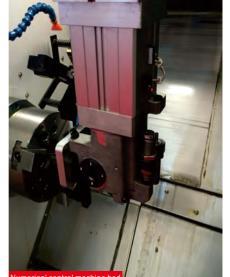
Calculation example

AD series

HR series















AC series

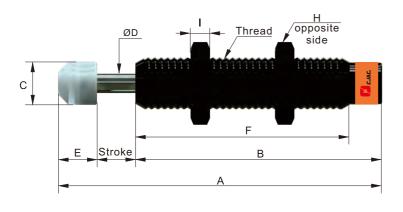
Performance parameter

^						
Δ	•	S	Δ	rı	Δ	C
\neg	\smile	3	$\overline{}$	ı	$\overline{\mathbf{c}}$	J

Form parameters

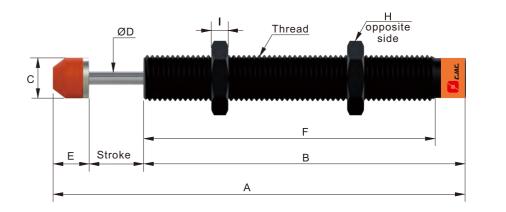
Model number	Stroke (mm)	Max. Nm Per Cycle (Et)	Max. Nm Per Hour (Etc)	Max. effective Mass (Me) Kg	Max. impact speed (v)m/s	Without impact head		Flange (F)	Stop collar (SC)	Operating temperature (℃)	Weight (g)
AC0805	5	1.8	7800	0.5	2.0	0	0	_	0	-10~+80	10
AC0806-1	6	2	8800	0.5	2.0	0	0	_	0	-10~+80	11
AC0806-2	0806-2 6 2 8800		8800	2.0	1.0	0	0	_	0	-10~+80	11
AC0806-3	6	2	8800	6.0	0.5	0	0	_	0	-10~+80	11
AC1005-1	5	3	10800	1.0	3.0	0	0	_	0	-10~+80	14
AC1005-2	5	3	10800	3.0	1.5	0	0	_	0	-10~+80	14
AC1005-3	5	3	10800	7.0	0.8	0	0	_	0	-10~+80	14
AC1008-1	8	4	15200	2.0	3.0	0	0	_	0	-10~+80	20
AC1008-2	8	4	15200	4.0	1.5	0	0	_	0	-10~+80	20
AC1008-3	8	4	15200	9.0	0.8	0	0	_	0	-10~+80	20
AC1210-1	10	5	17640	5.0	3.0	0	0	_	0	-10~+80	31.5
AC1210-2	10	5	17640	10.0	1.5	0	0	_	0	-10~+80	31.5
AC1210-3	10	5	17640	30.0	0.8	0	0	_	0	-10~+80	31.5
AC1408	8	12	22000	6	3.0	0	0	_	0	-10~+80	65
AC1412-1	12	15	30000	8	3.0	0	0	_	0	-10~+80	80
AC1412-2	12	15	30000	50	1.5	0	0	_	0	-10~+80	80
AC1412-3	12	15	30000	100	0.8	0	0	_	0	-10~+80	80
AC1416-1	16	20	35000	10	3.0	0	0	_	0	-10~+80	85
AC1416-2	16	20	35000	70	1.5	0	0	_	0	-10~+80	85
AC1416-3	16	20	35000	150	0.8	0	0	_	0	-10~+80	85

Figure 1



Model number	Thread	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	H mm	l mm	Figure
AC0805	M8x1.0 M8x0.75	5	42	32	6	2.8	5	27.3	11	3	1
AC0806-1	M8x1.0 M8x0.75	6	50	38	6.6	3	6	33	11	3	1
AC0806-2	M8x1.0 M8x0.75	6	50	38	6.6	3	6	33	11	3	1
AC0806-3	M8x1.0	6	50	38	6.6	3	6	33	11	3	1
AC1005-1	M10x1.0	5	38.7	27.7	8.6	2.8	6	22.9	12.7	3	1
AC1005-2	M10x1.0	5	38.7	27.7	8.6	2.8	6	22.9	12.7	3	1
AC1005-3	M10x1.0	5	38.7	27.7	8.6	2.8	6	22.9	12.7	3	1
AC1008-1	M10x1.0	8	57	43	8.6	3	6	38	12.7	3	1
AC1008-2	M10x1.0	8	57	43	8.6	3	6	38	12.7	3	1
AC1008-3	M10x1.0	8	57	43	8.6	3	6	38	12.7	3	1
AC1210-1	M12x1.0	10	69.5	50	10.3	3	9.5	45.5	14	4	2
AC1210-2	M12x1.0	10	69.5	50	10.3	3	9.5	45.5	14	4	2
AC1210-3	M12x1.0	10	69.5	50	10.3	3	9.5	45.5	14	4	2
AC1408	M14x1.5	8	73.5	55	12	4	11.2	50.5	19	5	2
AC1412-1	M14x1.0 M14x1.5	12	99.2	76	12	4	11.2	67	19	5	2
AC1412-2	M14x1.0 M14x1.5	12	99.2	76	12	4	11.2	67	19	5	2
AC1412-3	M14x1.0 M14x1.5	12	99.2	76	12	4	11.2	67	19	5	2
AC1416-1	M14x1.0 M14x1.5	16	122.2	95	12	4	11.2	86	19	5	2
AC1416-2	M14x1.0 M14x1.5	16	122.2	95	12	4	11.2	86	19	5	2
AC1416-3	M14x1.0 M14x1.5	16	122.2	95	12	4	11.2	86	19	5	2

Figure 2



Circuit breaker series

AD series

HR series

HD series

HD series selection

HD series accessory

AC series

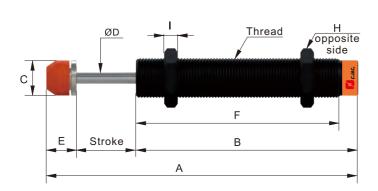
Performance parameter

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Form parameters

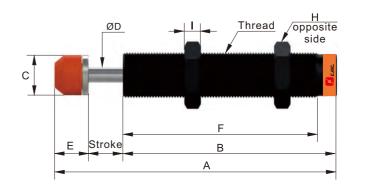
Model number	Stroke (mm)	Max. Nm Per Cycle (Et)	Max. Nm Per Hour (Etc)	Max. effective Mass (Me) Kg	Max. impact speed (v)m/s	Without impact head		Flange (F)	Stop collar (SC)	Operating temperature (°C)	Weight (g)
AC1416-1C	16	20	35,000	10	3.0	0	0	_	0	-10~+80	80
AC1416-2C	16	20	35,000	70	1.5	0	0	_	0	-10~+80	80
AC1416-3C	16	20	35,000	150	0.8	0	0	_	0	-10~+80	80
AC1420-1	20	20	35,000	10	3.0	0	0	_	0	-10~+80	95
AC1420-2	20	20	35,000	70	1.5	0	0	_	0	-10~+80	95
AC1420-3	20	20	35,000	150	0.8	0	0	_	0	-10~+80	95
AC1425-1	25	28	37,000	20	3.0	0	0	_	0	-10~+80	105
AC1425-2	25	28	37,000	150	1.5	0	0	_	0	-10~+80	105
AC1425-3	25	28	37,000	250	0.8	0	0	_	0	-10~+80	105
AC1610	10	16	42,000	30	3.5	0	0	_	0	-10~+80	165
AC2020-1	20	40	40,000	30	3.5	0	0	_	0	-10~+80	215
AC2020-2	20	40	40,000	200	2.0	0	0	_	0	-10~+80	215
AC2020-3	20	40	40,000	700	1.0	0	0	_	0	-10~+80	215
AC2030-1	30	50	48,000	30	3.5	0	0	_	0	-10~+80	220
AC2030-2	30	50	48,000	200	2.0	0	0	_	0	-10~+80	220
AC2030-3	30	50	48,000	700	1.0	0	0	_	0	-10~+80	220
AC2050-1	50	60	60,000	60	3.5	0	0	_	0	-10~+80	300
AC2050-2	50	60	60,000	400	2.0	0	0	_	0	-10~+80	300
AC2050-3	50	60	60,000	1200	1.0	0	0	_	0	-10~+80	300
AC2525-1	25	80	54,000	200	4.0	0	0	_	0	-10~+80	330
AC2525-2	25	80	54,000	800	2.5	0	0	_	0	-10~+80	330
AC2525-3	25	80	54,000	1,500	1.0	0	0	_	0	-10~+80	330
AC2530-2	30	92	62,100	900	2.0	0	0	_	0	-10~+80	350

Figure 1



Model number	Thread	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	H mm	l mm	Figure
AC1416-1C	M14x1.0 M14x1.5	16	103.2	76	12	4	11.2	67	19	5	1
AC1416-2C	M14x1.0 M14x1.5	16	103.2	76	12	4	11.2	67	19	5	1
AC1416-3C	M14x1.0 M14x1.5	16	103.2	76	12	4	11.2	67	19	5	1
AC1420-1	M14x1.5	20	126.2	95	12	4	11.2	86	19	5	1
AC1420-2	M14x1.5	20	126.2	95	12	4	11.2	86	19	5	1
AC1420-3	M14x1.5	20	126.2	95	12	4	11.2	86	19	5	1
AC1425-1	M14x1.0 M14x1.5	25	146.2	110	12	4	11.2	101	19	5	1
AC1425-2	M14x1.0 M14x1.5	25	146.2	110	12	4	11.2	101	19	5	1
AC1425-3	M14x1.0 M14x1.5	25	146.2	110	12	4	11.2	101	19	5	1
AC1610	M16x1.5	10	68	58	10	5	8	40	19	6	1
AC2020-1	M20x1.5 M20x2.0	20	145.3	110	17.8	6	15.3	101	26	7	1
AC2020-2	M20x1.5	20	145.3	110	17.8	6	15.3	101	26	7	1
AC2020-3	M20x1.5	20	145.3	110	17.8	6	15.3	101	26	7	1
AC2030-1	M20x1.5 M20x2.0	30	158.3	113	17.8	6	15.3	104	26	7	1
AC2030-2	M20x1.5 M20x2.0	30	158.3	113	17.8	6	15.3	104	26	7	1
AC2030-3	M20x1.5	30	158.3	113	17.8	6	15.3	104	26	7	1
AC2050-1	M20x1.5 M20x2.0	50	232.8	167	17.8	6	15.8	158	26	7	1
AC2050-2	M20x1.5	50	232.8	167	17.8	6	15.8	158	26	7	1
AC2050-3	M20x1.5	50	232.8	167	17.8	6	15.8	158	26	7	1
AC2525-1	M25x1.5 M25x2.0	25	155	111	22	8	19	101	32	9	2
AC2525-2	M25x1.5 M25x2.0	25	155	111	22	8	19	101	32	9	2
AC2525-3	M25x1.5 M25x2.0	25	155	111	22	8	19	101	32	9	2
AC2530-2	M25x1.5	30	160	111	22	8	19	101	32	9	2

Figure 2



Purchase example

Model index

Calculation example

AC series

Circuit breaker series AC-K series

AC-S series

ACD series

Stop cylinder series

Accessory

AD series

Shock absorber for log cabin

HR series
PC series

HD series
HD series
selection

HD series accessory

Osei ilialiua

AC series

Performance parameter

Α	(:	C	Δ	rı	Δ	C
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Form parameters

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)
AC2540-1	40	120	75,000	300	4.0	_	0	_	0	-10~+80	430
AC2540-2	40	120	75,000	1,200	2.5	_	0	_	0	-10~+80	430
AC2540-3	40	120	75,000	2,000	1.0	_	0	_	0	-10~+80	430
AC2550-1	50	135	90,000	200	4.0	0	0	_	0	-10~+80	435
AC2550-2	50	135	90,000	900	2.5	0	0	_	0	-10~+80	435
AC2550-3	50	135	90,000	1,680	1.0	0	0	-	0	-10~+80	435
AC2580-1	80	150	120,000	150	4.0	0	0	_	0	-10~+80	535
AC2580-2	80	150	120,000	600	2.5	0	0	_	0	-10~+80	535
AC2580-3	80	150	120,000	1,200	1.0	0	0	_	0	-10~+80	535
AC2725-1	25	80	54,000	200	4.0	0	0	-	0	-10~+80	380
AC2725-2	25	80	54,000	800	2.5	0	0	_	0	-10~+80	380
AC2725-3	25	80	54,000	1,500	1.0	0	0	_	0	-10~+80	380
AC3025-1	25	180	60,000	300	3.0	_	0	_	0	-10~+80	950
AC3025-2	25	180	60,000	700	2.0	_	0	_	0	-10~+80	950
AC3025-3	25	180	60,000	1,300	1.0	_	0	_	0	-10~+80	950
AC3660-1	60	250	120,000	400	4.0	_	0	_	0	-10~+80	1,030
AC3660-2	60	250	120,000	1,500	2.5	_	0	_	0	-10~+80	1,030
AC3660-3	60	250	120,000	2,400	1.0	_	0	_	0	-10~+80	1,030

Figure 1

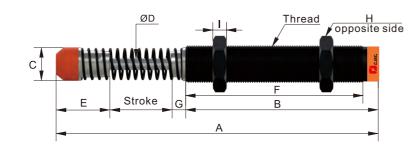
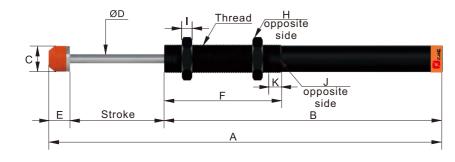


Figure 2



Model number	Thread	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	l mm	J mm	K mm	Figure
AC2540-1	M25x1.5 M25x2.0	40	214	127	22	8	37	117	10	32	9	_	-	1
AC2540-2	M25x1.5 M25x2.0	40	214	127	22	8	37	117	10	32	9	_	_	1
AC2540-3	M25x1.5 M25x2.0	40	214	127	22	8	37	117	10	32	9	_	_	1
AC2550-1	M25x1.5 M25x2.0	50	239.5	170. 5	22	8	19	100	_	32	9	22.8	11	2
AC2550-2	M25x1.5 M25x2.0	50	239.5	170.5	22	8	19	100	_	32	9	22.8	11	2
AC2550-3	M25x1.5 M25x2.0	50	239.5	170.5	22	8	19	100	_	32	9	22.8	11	2
AC2580-1	M25x1.5 M25x2.0	80	336	237	22	8	19	100	_	32	9	22.8	11	2
AC2580-2	M25x1.5 M25x2.0	80	336	237	22	8	19	100	_	32	9	22.8	11	2
AC2580-3	M25x1.5 M25x2.0	80	336	237	22	8	19	100	_	32	9	22.8	11	2
AC2725-1	M27x1.5 M27x3.0	25	155	111	22	8	19	101	_	32	9	_	_	3
AC2725-2	M27x1.5 M27x3.0	25	155	111	22	8	19	101	_	32	9	_	_	3
AC2725-3	M27x1.5 M27x3.0	25	155	111	22	8	19	101	_	32	9	_	_	3
AC3025-1	M30x1.5	25	151	106.5	27	10	19.5	96.5	_	36	14	_	_	3
AC3025-2	M30x1.5	25	151	106. 5	27	10	19.5	96.5	_	36	14	_	_	3
AC3025-3	M30x1.5	25	151	106.5	27	10	19.5	96.5	_	36	14	_	_	3
AC3660-1	M36x1.5	60	248	162	35.5	10	26	134	17	46	15	_	_	4
AC3660-2	M36x1.5	60	248	162	35.5	10	26	134	17	46	15	_	_	4
AC3660-3	M36x1.5	60	248	162	35.5	10	26	134	17	46	15	_	_	4

Figure 3

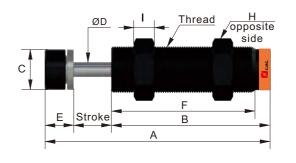
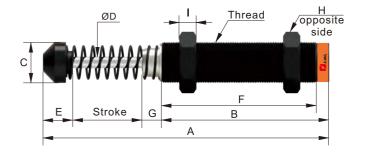


Figure 4



Purchase example

Model index

Calculation example

AC series

Circuit breaker series

AC-K series

ACD series

AC-S series
AD series

Stop cylinder series

Shock absorbe for log cabin

HR series

PC series

HD series selection

HD series accessory

Heenmoni

Shock absorber for circuit breaker

AC series

Performance and form parameters

Characteristics

In the circuit breaker, shock absorber plays very important role. First, when circuit breaker is breaking, mechanism action will pull the moving end of arc-extinguishing room to the limiting position. Meanwhile, movement to limiting position is a mechanical collision process, and any metallic collision will generate bouncing force. The bouncing force will reduce the opening of the breaking end, and the pressure resistance of the breaking end will be reduced. In serious case, it will result in breaking failure.

CJAC has specifically designed shock absorber for circuit breaker. Shock absorber for circuit breaker can absorb very well the collisional energy generated due to breaking action so that the bouncing force will be a minimum.

In order to reduce arcing time, the breaking speed of the circuit breaker should be as fast as possible. Therefore, at the early time of breaking, in order reduce the influence of the breaking speed of circuit breaker, we have specifically designed a front section with smaller damping.

 Material — Outer tube: AISI 1215, STKM 11A blackening oxidation and Ni-plating treatment to enhance the rust-prevention capability.

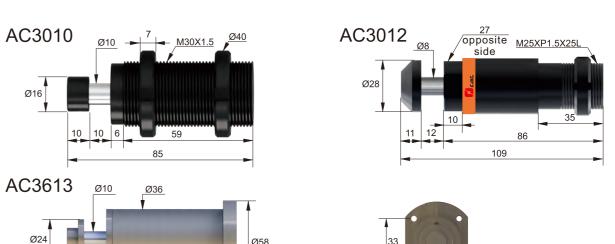
Piston rod: Hardened chromium-plating treatment and special sealing part to lengthen its lifetime.

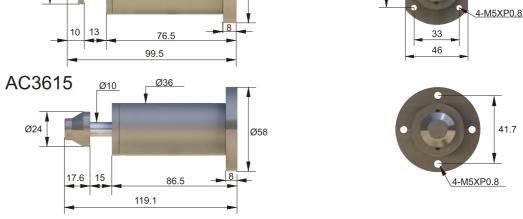
Piston: Highly wearing-resistant material is adopted to guarantee long and stable buffering effect.

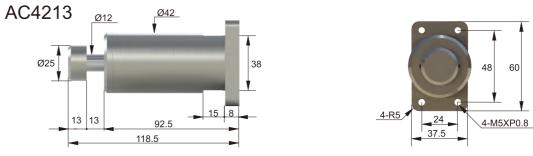
- Speed range 1.0 ~ 4.0 m/s
- Temperature range 10 ~ +80°C
- Installation method— CJAC has provided several installation methods such as NUT and FLANGE.
 Besides, customized can be made based on your need.
- Special need CJAC can make customized spec according to your usage situation.



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		Flange (F)	Stop collar (SC)	Operating temperature (℃)	Weight (g)
AC3010	10	90	100,000	201	3.0	_	0	_	_	-10~+80	337
AC3012	12	65	54,000	143	3.0	0	0	_	-	-10~+80	640
AC3613	13	78	70,200	240	4.0	_	0	_	_	-10~+80	940
AC3615	15	84	75,600	240	4.0	_	0	_	_	-10~+80	960
AC4213	13	155	186,000	1,240	1.0	_	0	_	_	-10~+80	1,100







Purchase example

Calculation example

AC series

Circuit

AC-K series

ACD series

AC-S series

AD series

Stop cylinder series

Accessory

Shock absorb for log cabin

HR series

PC series

HD series

selection HD series

lleer manu

18

AC-K series

Characteristics

Performance parameters

AC-K series can effectively absorb the vibration and noise generated from high speed motion and can turn the kinetic energy into thermal energy and release it into the air. Therefore, in each action, it can stop the object stably and effectively. In the past, many companies have used PU plastic and spring for the buffering to save the cost. However, the result is usually bad, noise is still there, efficiency cannot be enhanced, and the equipment decay in early stage. When CJAC shock absorber is selected, disadvantage caused by bad shock absorber can be effectively solved, consequently, the machine efficiency can be enhanced, the production capacity can be increased, and the usage lifetime of the machine can be lengthened. AC-K and ACD are all appropriate for high speed impact sites, the ends of long stroke moving device, and most of them are used for robot arms.

 Material — Outer tube: AISI 1215, STKM11A blackening oxidation 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 1.0 ~ 6.8 m/s
- Temperature range—--10 ~ +80°C
- Installation method—CJAC has provided several installation methods such as NUT and positioning stop nut (SC). 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	Weight (g)
AC1415-6K	15	9.8	35,280	30	1.0	_	0	_	0	-10~+80	80
AC1415-7K	15	9.8	35,280	15	1.5	_	0	_	0	-10~+80	80
AC2020-2K	20	36	22,000	27	2.0	_	0	_	0	-10~+80	170
AC2025-2K	25	40	24,200	35	2. 0	_	0	-	0	-10~+80	180
AC2030-5K	30	44	26,460	60	1.2	_	0	_	0	-10~+80	185
AC2030-6K	30	44	26,460	30	1.7	_	0	_	0	-10~+80	185
AC2030-7K	30	44	26,460	15	2.4	_	0	_	0	-10~+80	185
AC2030-8K	30	44	26,460	8	2. 8	_	0	_	0	-10~+80	185
AC2030-16K	30	44	26,460	5	4.2	_	0	_	0	-10~+80	205
AC2030-18K	30	44	26,460	3	6.0	_	0	_	0	-10~+80	205
AC2050-10K	50	59	35,280	30	2.0	_	0	_	0	-10~+80	250
AC2050-11K	50	59	35,280	30	2.0	_	0	_	0	-10~+80	250
AC2050-12K	50	59	35,280	15	2.8	_	0	_	0	-10~+80	250
AC2050-13K	50	59	35,280	8	3.8	_	0	_	0	-10~+80	250
AC2050-16K	50	59	35,280	5	5.0	_	0	_	0	-10~+80	250
AC2050-17K	50	59	35,280	3	6.8	_	0	_	0	-10~+80	250
AC2050D-13SK	50	59	35,280	8	3.8	_	0	_	0	-10~+80	275
AC2050D-14K	50	59	35,280	8	3.8	_	0	_	0	-10~+80	275
AC2065-2K	65	65	38,300	32	2.5	_	0	_	0	-10~+80	275
AC2065-2KW	65	65	38,300	28	3.0	_	0	_	0	-10~+80	275

Figure 1

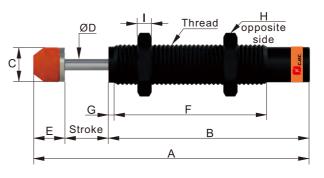
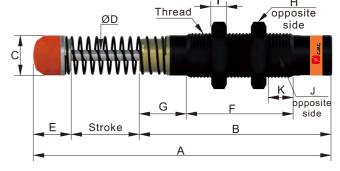


Figure 2



Purchase example

Modelindex

A O - - - i - -

AC series

breaker series

ACD series

Stop cylinder

Accessory

for log cabin

ik selles

HD series

selection HD series

HD series

accessory

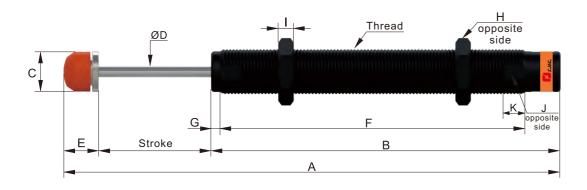
Form parameters

Automatic compensated type

ACD series

Model number	Thread	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	l mm	J mm	K mm	Figure
AC1415-6K	M14x1.5	15	95. 6	69. 4	12	4	11. 2	52. 7	2	19	5	_	_	1
AC1415-7K	M14x1.0 M14x1.5	15	95. 6	69.4	12	4	11. 2	52. 7	2	19	5	_	_	1
AC2020-2K	M20x1.5	20	128. 8	93	17. 8	5	15.8	74.5	3.8	26	7	_	_	1
AC2025-2K	M20x1.5	25	140.4	100	17. 8	5	15.8	81	2.8	26	7	_	_	1
AC2030-5K	M20x1.5	30	133.7	86	17. 8	5	17.7	48	21	26	7	18.2	10	2
AC2030-6K	M20x1.5	30	133.7	86	17. 8	5	17.7	48	21	26	7	18.2	10	2
AC2030-7K	M20x1.5	30	133. 7	86	17. 8	5	17.7	48	21	26	7	18.2	10	2
AC2030-8K	M20x1.5	30	133. 7	86	17. 8	5	17.7	48	21	26	7	18.2	10	2
AC2030-16K	M20x1.5	30	146. 5	97.8	17. 8	5	18	48	32. 8	26	7	18.2	10	2
AC2030-18K	M20x1.5	30	146. 5	97.8	17. 8	5	18	48	32. 8	26	7	18.2	10	2
AC2050-10K	M20x1.5	50	221.8	156	17. 8	5	15.8	136.5	4	26	7	18.2	10	3
AC2050-11K	M20x1.5	50	221.8	156	17. 8	5	15.8	136.5	4	26	7	18.2	10	3
AC2050-12K	M20x1.5	50	221.8	156	17. 8	5	15.8	136.5	4	26	7	18.2	10	3
AC2050-13K	M20x1.5	50	221.8	156	17. 8	5	15.8	136.5	4	26	7	18.2	10	3
AC2050-16K	M20x1.5	50	221.8	156	17. 8	5	15.8	136.5	4	26	7	18.2	10	3
AC2050-17K	M20x1.5	50	221.8	156	17.8	5	15.8	136.5	4	26	7	18.2	10	3
AC2050D-13SK	M20x1.5	50	195	120.7	17.8	5	17.7	70.6	23.7	26	7	18.2	10	2
AC2050D-14K	M20x1.5	50	244	178.2	17.8	5	15.8	136.5	25.3	26	7	18.2	10	2
AC2065-2K	M20x1.5	65	267.3	186.5	17.8	6	15.8	145	3.5	26	7	_	_	3
AC2065-2KW	M20x1.5	65	267. 3	186.5	17.8	6	15.8	64.5	3.5	26	7	18.2	10	3

Figure 3



Characteristics

ACD series has adopted dual-buffering structure, and different buffering effects are installed at both ends. It is applicable to high speed site and commonly used for robot arm. It can reduce the noise and vibration of the equipment to increase greatly the operation speed of the robot arm.

• Material — Outer tube: AISI 1215, STKM11A blackening oxidation 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

● Speed range — 1.0 ~ 3.5 m/s

• Temperature range — −10 ~ +80°C

• Installation method — CJAC has provided several installation methods such as NUT and positioning stop nut (SC). Besides, customized can be made based on your need.

• Special need — CJAC can make customized spec according to your usage situation.



Purchase example

Calculatio example

AC series

Circuit breaker series

AD series

HR series

PC series

HD series HD series

HD series accessory

Performance parameters

ACD series

Form parameters

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		Flange (F)	Stop collar (SC)	Operating temperature (°C)	Weight (g)
ACD2030-1	30	45	55,000	40	3.5	_	0	_	0	-10~+80	320
ACD2030-2	30	45	55,000	80	2.0	_	0	_	0	-10~+80	320
ACD2030-3	30	45	55,000	450	1.0	_	0	_	0	-10~+80	320
ACD2035-1	35	52	63,000	40	3.5	-	0	_	0	-10~+80	350
ACD2035-2	35	52	63,000	200	2.0	_	0	_	0	-10~+80	350
ACD2035-3	35	52	63,000	450	1.0	_	0	_	0	-10~+80	350
ACD2050-1	50	60	68,000	60	3.5	_	0	_	0	-10~+80	470
ACD2050-2	50	60	68,000	210	2.0	_	0	_	0	-10~+80	470
ACD2050-3	50	60	68,000	480	1.0	_	0	_	0	-10~+80	470
ACD2050-2WY	50	70	72,000	530	3.5	_	0	_	0	-10~+80	480

Figure 1

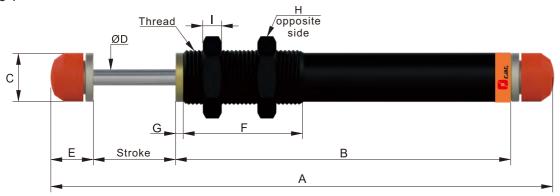
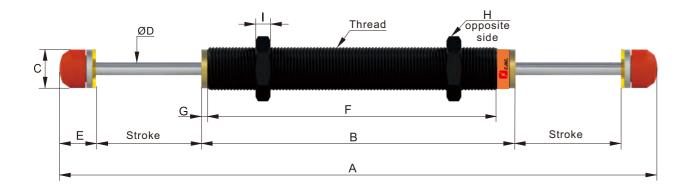


Figure 2



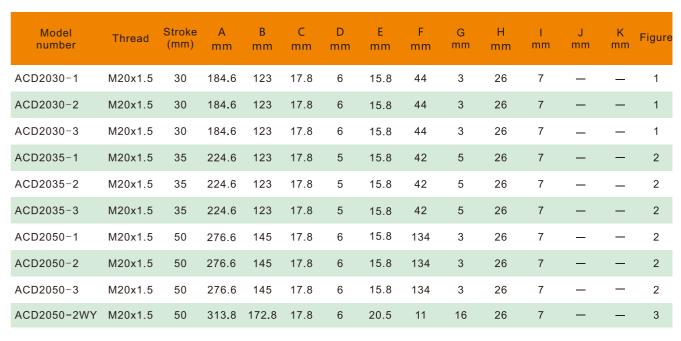
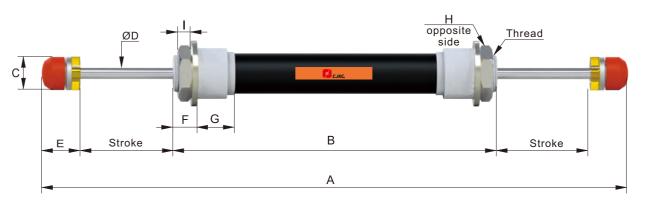


Figure 3



Purchase example Model index

Calculatio example

AC series Circuit breaker series

AC-S series

AD series

Accessory

HR series

PC series HD series

HD series selection

HD series accessory

24

AC-S series

Performance and form parameters

AC-S series

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 positioningstop 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)	Pe	x. Nm r Hour Etc)	effe M	lax. ective lass e) Kg	imp spe	ax. bact eed m/s	Without impact i head	mpact	Flange (F)	Stop collar (SC)	Operating temperature (°C)	Weight (g)
AC0604-S	4	0.5		720		3	0.3	-1.0	0	0	_	0	-10~+80	4.0
AC0806-S	6	3	7	,000		6	0.3	-2.5	0	0	_	0	-10~+80	17
AC1007-S	7	6	1:	2,400		12	0.3	-3.5	0	0	_	0	-10~+80	28
AC1210-S	10	12	2:	2,500		22	0.3	-4.0	0	0	_	0	-10~+80	32
AC1412-S	12	20	3	3,000		40	0.3	-5.0	0	0	_	0	-10~+80	70
AC1412-SM	12	14	2	4,000		25	0.3	-5.0	0	0	_	0	-10~+80	70
AC2015-S	15	59	3	8,000	1	120	0.3	-5.0	0	0	_	О	-10~+80	160
AC2525-S	25	80	6	0,000	1	180	0.3	-5.0	0	0	_	0	-10~+80	295
AC2725-S	25	147	7:	2,000	2	270	0.3	-5.0	0	0	_	0	-10~+80	375
Model number	Thread	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	l n mm	J mr		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	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	2 -	3
AC2015-S	M20x1.5	15	103.3	73	17.8	6	15.3	62	4	26	7	18	3 –	3
AC2525-S	M25x1.5	25	136	92	22	8	19	82	-	32	9	23	3 –	3
AC2725-S	M27x1.5	25	143	99	22	8	19	86	5	32	6	25	5 —	3
c	ØD G E Stroke	A	F B	– 🎤 օհի	H posite side		Figure	e 2		ØD oke	A	Threa F B	d oppo sid	site
Figure 3	ØD G_ Stroke		Thre F B	mmmi	H opposite side	opposition of the side	te							

Purchase example

Model index

example

AC series

AC-K series

ACD series

7.0 0 00.100

Stop cylinder series

Accessory
Shock absorbe

HR series

PC series

HD series

HD series selection

HD series accessory

ser manua

Adjustable type

AD series



Characteristics

AD series is of adjustable structure. When facing with different loads and different impact speeds, the adjustment knobs can be adjusted to appropriate scale to absorb perfectly the energy generated by the object. As compared to AC series, AD series has higher energy absorption and wider applicable scope.

- Material Outer tube: AISI 1215, STKM11A blackening oxidation and Ni-plating 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 ~ 4.5 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.
- RoHS certification AD1410, AD1425, AD2016, AD2025, AD2525, AD2540, AD2550, AD2580, AD3625, AD3650, All the above products have been passed RoHS certification
- Special need CJAC can make customized spec according to your usage situation.









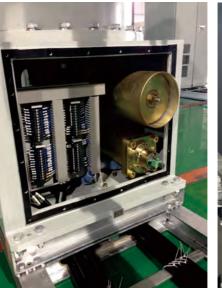














Purchase example

Calculatio example

AC series

HD series accessory

AD series

Performance parameter

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Form parameters

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)
AD1210	10	12	22,000	35	3.0	0	0	_	0	-10~+80	66
AD1410	10	20	25,000	80	3.0	0	0	_	0	-10~+80	90
AD1415	15	24	26,000	100	3.0	0	0	_	0	-10~+80	120
AD1425	25	28	27,500	140	3.0	0	0	_	0	-10~+80	194
AD1612	12	22	27,500	130	3.0	0	0	_	0	-10~+80	200
AD2016	16	28	27,500	200	3.0	0	0	_	0	-10~+80	230
AD2016-C	16	28	28,500	200	3.5	0	0	_	0	-10~+80	230
AD2020	20	34	29,000	298	3.5	0	0	_	0	-10~+80	235
AD2025	25	39	30,000	312	3.5	0	0	_	0	-10~+80	240
AD2050	50	69	52,000	420	3.5	0	0	_	0	-10~+80	330
AD2525	25	85	54,000	400	3.5	0	0	_	0	-10~+80	350
AD2530	30	95	60,000	480	3.5	0	0	_	0	-10~+80	365
AD2540	40	100	80,000	700	3.5	_	0	_	0	-10~+80	455
AD2550	50	120	90,000	720	4.0	0	0	_	0	-10~+80	455
AD2580	80	150	120,000	800	4.0	0	0	_	0	-10~+80	585
AD2725	25	85	54,000	400	3.5	0	0	_	0	-10~+80	403
AD3326	25	195	75,700	1400	3.3	_	0	_	_	-10~+80	482
AD3352	52	385	98,962	2400	3.3	_	0	_	_	-10~+80	708

Figure 1

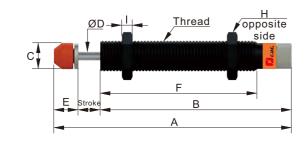
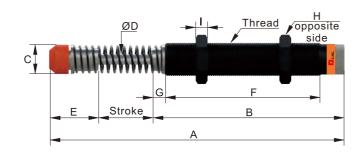


Figure 2



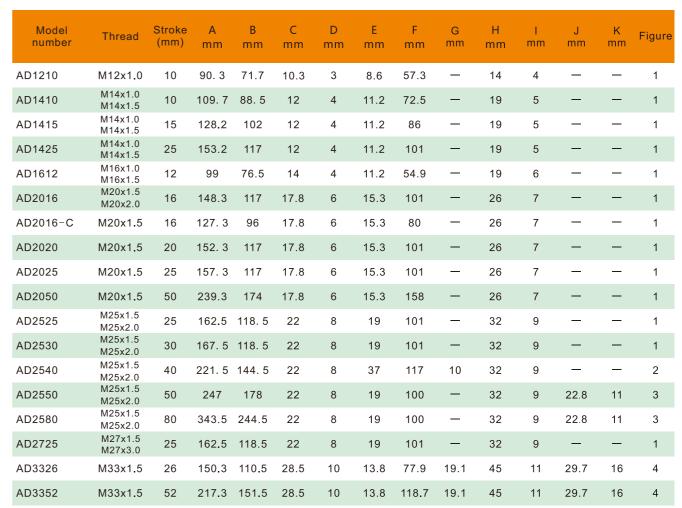


Figure 3

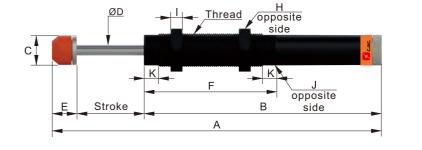
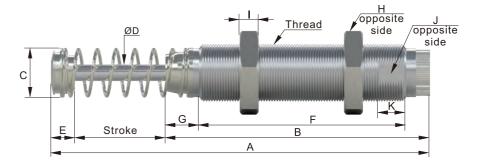


Figure 4



Purchase example

Model index

Calculation example

AC series

Circuit breaker series

AC-K series

AC-S series

AD series

Stop cylinder series

Accessory

HR series

PC series

HD series

HD series selection

accessory

USEI IIIailua

AD series

Performance parameter

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Form parameters

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		Flange (F)	Stop collar (SC)	Operating temperature	Weight (g)
AD3625	25	150	81,000	1400	3.0	_	0	0	0	-10~+80	955
AD3650	50	300	100,000	2400	3.0	_	0	0	0	-10~+80	1,100
AD4225	25	260	125,000	3,000	3.5	_	0	0	_	-10~+80	1,280
AD4225-W	25	260	125,000	3,000	3.5	_	0	0	_	-10~+80	1,280
AD4250	50	500	150,000	4,000	4.5	_	0	0	_	-10~+80	1,490
AD4250-W	50	500	150,000	4,000	4.5	_	0	0	_	-10~+80	1,490
AD4275	75	750	180,000	6,000	4.5	_	0	0	_	-10~+80	1,710
AD4275-W	75	750	180,000	6,000	4.5	_	0	0	_	-10~+80	1,710
AD64050	50	1,200	150,500	12,727	1.5	_	0	0	_	-10~+80	4,115
AD64050-W	50	1,200	150,000	12,727	1.5	_	0	0	_	-10~+80	4,115
AD64100	100	2,400	200,000	18,181	1.5	_	0	0	_	-10~+80	5,280
AD64100-W	100	2,400	200,000	18,181	1.5	_	0	0	_	-10~+80	5,280
AD64150	150	3,600	250,000	23,636	1.5	_	0	0	_	-10~+80	6,785
AD64150-W	150	3,600	250,000	23,636	1.5	_	0	0	-	-10~+80	6,785
AD85050-W	50	2,300	372,000	16,800	4.3	_	0	0	_	-10~+80	6,370
AD85090-W	90	4,000	652,000	30,000	4.3	_	0	0	-	-10~+80	7,510
AD85125-W	125	5,700	933,000	42,000	4.3	_	0	0	_	-10~+80	8,000

Figure 1

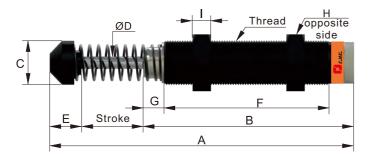
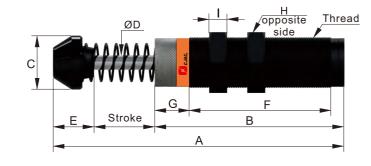


Figure 2



Model number	Thread	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	l mm	Figure
AD3625	M36x1.5	25	184	133	35.5	10	26	103	10	46	15	1
AD3650	M36x1.5	50	247	171	35.5	10	26	134	17	46	15	1
AD4225	M42x1.5	25	186.5	127.5	44.5	12	34	99	28.5	50	15	2
AD4225(-B)-W	M42x1.5 (-B)UNF13/4-12	25	166.3	95.3	44.5	12	34	29.3	37.9	_	-	4
AD4250	M42x1.5	50	241	157	44.5	12	34	117.5	28.5	50	15	2
AD4250(-B)-W	M42x1.5 (-B)UNF13/4-12	50	219.6	123.6	44.5	12	34	47	48.2	_	_	4
AD4275	M42x1.5	75	301.5	187.5	44.5	12	39	148	28.5	50	15	2
AD4275(-B)-W	M42x1.5 (-B)UNF1 _{3/4} -12	75	284.1	158.1	44.5	12	39	63	67.2	_	_	4
AD64050(-B)	M64x2.0 (-B)UNF2 _{1/2} -12	50	247.8	146	59	20	51.8	26	24	76.2	9.4	3
AD64050(-B)-W	M64x2.0 (-B)UNF2 _{1/2} -12	50	243.8	140	59	20	51.8	50	50	_	_	4
AD64100(-B)	M64x2.0 (-B)UNF2 _{1/2} -12	100	347.8	196	59	20	51.8	26	24	76.2	9.4	3
AD64100(-B)-W	M64x2.0 (-B)UNF2 _{1/2} -12	100	345.8	192	59	20	51.8	76	76	_	_	4
AD64150(-B)	M64x2.0 (-B)UNF2 _{1/2} -12	150	467.8	256	59	20	61.8	26	24	76.2	9.4	3
AD64150(-B)-W	M64x2.0 (-B)UNF2 _{1/2} -12	150	465.8	242	59	20	61.8	76	76	_	_	4
AD85050-W	M85x2.0	50	245	140	76	22	47	51	51	_	_	4
AD85090-W	M85x2.0	90	322.5	179	76	22	47	71	71	_	-	4
AD85125-W	M85x2.0	125	397.6	217	76	22	47	71	71	_	_	4

Figure 3

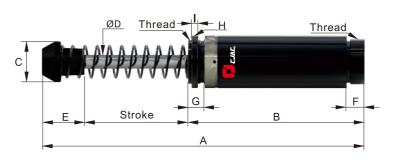
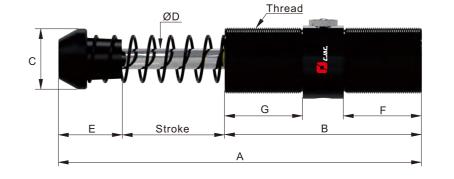


Figure 4



Purchase example Model index

AC series

Circuit breaker series

ACD series

AD series

Accessory

HR series

ilix series

HD series

HD series selection

HD series accessory

Heormanu

User manu

Shock absorber for stopper cylinder

Automatic compensated type

Performance and form parameters

Characteristics

It is placed at the inside of the stopper cylinder to generate smooth stopping, and it can be divided into automatic compensated type and adjustable type.

Automatic compensated type:External cylinder is formed in one-body structure, therefore, it is compact and safe. It can prevent distortion of the piston due to offset impact. In order to reduce the contact frictional force with the end face of the piston rod, it is suggested that the contact face should be of rolling friction.

Adjustable type: In order to reduce the bad influence caused by offset impact, the piston rod is of two-stage structure, 0°~270° single-offset adjustment to enhance effectively the adjustment range.

 Material — Outer tube: AISI 1215, STKM11A blackening oxidation and Ni-plating treatment to enhance the rust-prevention capability.

Piston rod: Hardened chromium-plating treatment and special sealing part

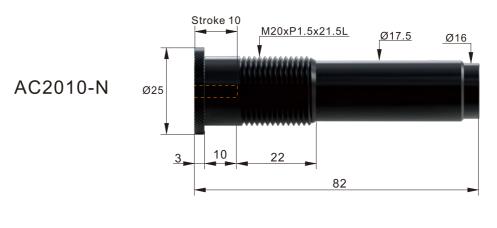
to lengthen its lifetime.

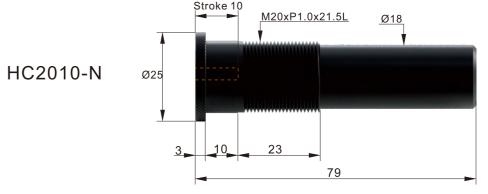
Piston: Highly wearing-resistant material is adopted to guarantee long and stable buffering effect.

- Temperature range -10 ~ +85°C
- Installation method It can be of screw installation or placed directly within the cylinder.
- 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	impact	Flange (F)	Stop collar (SC)	Operating temperature (℃)	Weight (g)
AC2010-N	10	25	15,000	120	3.0	0	_	_	_	-10~+80	123.5
HC2010-N	10	25	15,000	120	3.0	0	_	_	-	-10~+80	123.5
SFC2010-N	10	25	15,000	120	3.0	0	_	_	_	-10~+80	118







Purchase example

Calculatio example

AC series

Circuit breaker serie

AC-S series

AD series

HR series

HD series HD series

accessory

Adjustable type

Performance and form parameters

Model number	Stroke (mm)	Max. N Per Cy (Et)	cle	Max. Nm Per Hour (Etc)	eff N	Max. ective Mass le) Kg	Max impa spee (v)m	ict ed	Without impact head		Flange (F)	Stop collar (SC)	Operating temperature (℃)	Weight (g)
YAD1408-N	8	16		12,000		40	4.	0	0	_	_	_	-10~+85	56.5
AD2207-N	7	28		18,000	:	230	3.	5	0	_	_	_	-10~+85	170.5
AD2208-N	8	30		19,000	:	240	3.	5	0	_	_	_	-10~+85	178.5
AD2911-N	11	40		35,000	;	300	3.	0	0	_	_	_	-10~+85	373
AD3615-N	15	50		45,000	4	450	3.	0	0	_	_	_	-10~+85	812.5
Model number	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	l m		l mm	J mm	L mm	Figure
YAD1408-N	8	70.9	53.5	15.6	4	8	4.4	_	4	6	14	13.5	-	1
AD2207-N	7	102.1	72.3	25	8	15.5	5	3.3	8	3	22	21.6	14	2
AD2208-N	8	102	73	24	8	12.2	4.8	_	8	3	22	21.6	_	1
AD2911-N	11	129.5	93.5	34	8	13.5	14.4	_	8	3	28.9	_	-	1
AD3615-N	15	161	116.5	42	10	17.5	19	_	1	0	35.9	_	_	1

Figure 1

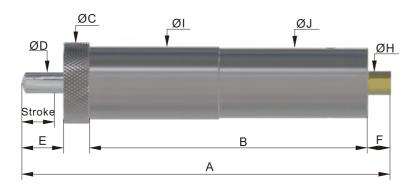
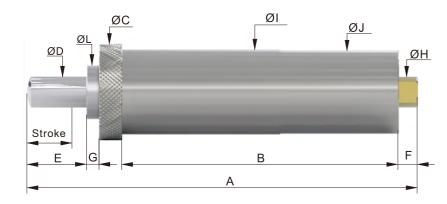


Figure 2



Shock absorber

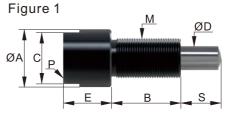
Accessory

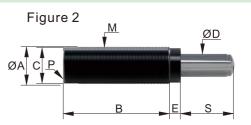
SLA side load adaptor

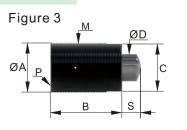
In the operation condition of normal shock absorber, the range of allowed eccentric load is within ±3°, however, if this range is exceeded, the torque received by piston rod will be greatly increased to lead to the curving and distortion of the piston rod of the shock absorber. Our accessory CJAC SLA Side load adaptor is applicable to the situation of large eccentric angle, in this case, the receiving range is effectively expanded to achieve the soft damping at the end of the nonlinear impact stroke, therefore, the stability of the product in operation can be greatly enhanced. Eg., SLA (8, 10, 12) can receive offset impact of 12.5°, SLA (14, 20, 25) can receive offset impact of 25°.

0, (,,	,		•		,	,		•	
Model number	A mm	B mm	C mm	D mm	E mm	M mm	P mm	S mm	Figure
SLA0806	11	11	_	4	10	M8x1.0	M8x1.0	6	1
SLA1005	13	10.6	11	5	11	M10x1.0	M10x1.0	5	1
SLA1007-S	13	12.6	11	5	11	M10x1.0	M10x1.0	7	1
SLA1008	13	13.6	11	5	11	M10x1.0	M10x1.0	8	1
LA1210	16	18	13	6	14	M12x1.0	M12x1.0	10	1
LA1408	18	16	15	8	16	M14x1.5	M14x1.5	8	1
LA1410	18	18	15	8	16	M14x1.5	M14x1.5	10	1
LA1412	18	20	15	8	16	M14x1.5	M14x1.5	12	1
LA1415	18	23	15	8	16	M14x1.5	M14x1.5	15	1
LA1416	18	24	15	8	16	M14x1.5	M14x1.5	16	1
LA1420	18	28	15	8	16	M14x1.5	M14x1.5	20	1
LA1425	18	33	15	8	16	M14x1.5	M14x1.5	25	1
A1612	20	20	17	8	16	M16x1.5	M16x1.5	12	1
_A2015-S	25	26.3	22	11	20	M20x1.5	M20x1.5	15	1
_A2016	25	27.3	22	11	20	M20x1.5	M20x1.5	16	1
LA2020	25	31.3	22	11	20	M20x1.5	M20x1.5	20	1
LA2025	25	36.3	22	11	20	M20x1.5	M20x1.5	25	1
LA2030	25	41.3	22	11	20	M20x1.5	M20x1.5	30	1
LA2525	36	38	32	15	30	M25x1.5	M25x1.5	25	1
LA2530	36	43	32	15	30	M25x1.5	M25x1.5	30	1
LA2725	36	38	32	15	30	M27x1.5	M27x1.5	25	1
LA3625	45	87	40	20	5	M45x1.5	M36x1.5	25	2
LA4250-NH	64	139.5	61	31	-	M64x2.0	M42x1.5	50	3
SLA4275-W	52	148	50	32	15	M52x1.5	M42x1.5	75	2
LA4525-N	64	92.5	61	31	-	M64x2.0	M45x1.5	25	3









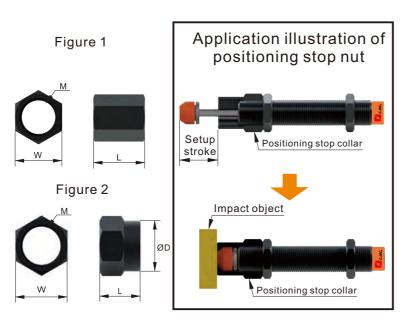
Accessory

Shock absorber for log cabin

ACD series

Positioning stop nut

Model number	W mm	L mm	D mm	М	Figure
SC08	11	14	-	M8xP1.0	1
SC10	12.7	16	-	M10xP1.0	1
SC12	14	20	-	M12xP1.0	1
SC14	19	27	18	M14xP1.5	2
SC20	26	35	25	M20xP1.5	2
SC25	32	45	31.3	M25xP1.5	2
SC25x25L	32	25	31.3	M25xP1.5	2
SC25x65L	32	65	31.3	M25xP1.5	2
SC27	32	45	31.3	M27xP1.5	2
SC36	46	80	45	M36xP1.5	2



Flange

Figure 1

A

M

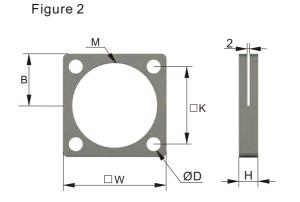
Z

B

W

ØD

H



Model number	A mm	B mm	H mm	W mm	K mm	D mm	М	Weight (g)	Figure
F36	45	45	16	60	41	8.5	M36xP1.5	282	1
F42	45	45	16	60	41	8.5	M42xP1.5	236	1
F64	55	55	16	89	70	10.5	M64xP2.0 21/2-12UNF	540	1
F85	_	50.8	19	101.6	76.2	13.5	M85xP2.0	590	2

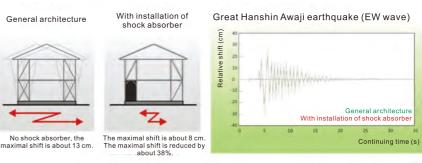
Characteristics

As compared to the vibration-resistant method available presently, it can absorb and reduce 1/3 of the shaking generated by earthquake (Through the impact absorption characteristic of the shock absorber, the safety of the residence can be increased). It has excellent decaying effect and continuous shock absorption effect (Not only applicable to the moment of the occurrence of principal earthquake, but also is quite useful for the subsequent secondary earthquake).

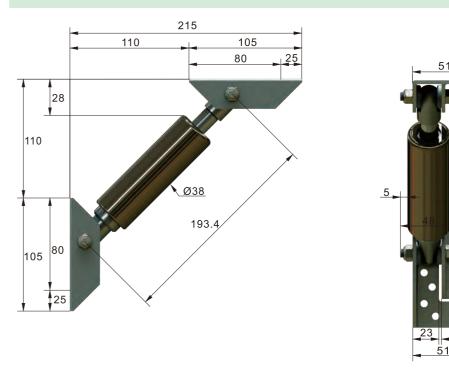
It is applicable to all the wooden architecture (It can be corresponded to traditional three-layer wooden traditional axis construction method, and it is also applicable to heat-isolated architecture).

It is small, smart and low cost. (It is of compact size, light weight, and as compared to other method, only low cost is needed to change it into shock absorbing residence)

It is highly durable, there is no need of maintenance (It is highly durable, its effect is continuous to almost permanent, and there is no maintenance need after the construction).



Model	Stroke	Max. load	Operating temperature (°C)	Weight
number	(mm)	(N)		(g)
ACD3831	± 15	350-590	0~60	350



Purchase example

Model index

Calculation example

AC series

Circuit breaker series

AC-K series

ACD series

AC-S series

AD series

Shock absor

HR series

PC series
HD series

HD series

HD series accessory

User manu

HR series

Performance and form parameters

HR series

Characteristics

HR hydraulic speed controller can control the movement speed of the object continuously and stably in very long time. Spring and pneumatic method is adopted respectively for reset action, meanwhile, in order to adapt to the use in different environments, in addition to installing dust-prevention device internally, dust-prevention mask is also installed externally so as to guarantee the usage lifetime and speed stabilizing effect. HR hydraulic

speed controller has adopted special hydraulic oil, therefore, there will be no difference in the propulsive speed due to the temperature rise generated by moving load. It is of small volume, easy to install, meanwhile, it is installed with 30 scales to facilitate the control and adjustment of the movement speed of the object.

Material — Outer tube: AISI 1215, STKM11A blackening oxidation and Ni-plating treatment to enhance the rust-prevention capability.

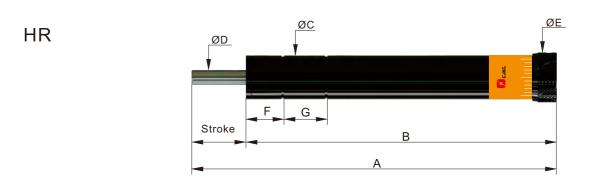
Piston rod: Hardened chromium-plating treatment and special sealing part to lengthen its lifetime.

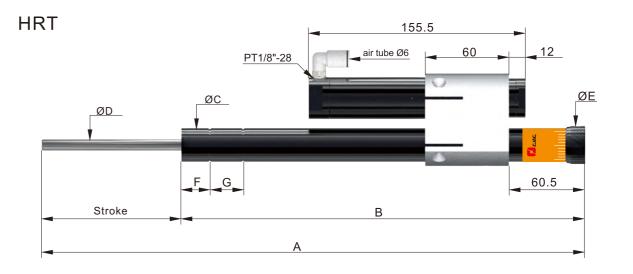
Piston: Highly wearing-resistant material is adopted to guarantee long and stable buffering effect.

- Temperature range 0 ~ 60°C
- Special need—CJAC can make customized spec according to your usage situation.



Model number	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Operating temperature (℃)	Max.load (Kgf)	Weight (g)
HR15	15	152	137	24	8	27.3	21	24	0~60	15 — 350	470
HR30	30	203	173	24	8	27.3	21	24	0~60	15-350	495
HR60	60	283.5	223.5	24	8	27.3	21	24	0~60	15-350	615
HR80	80	350.7	270.7	24	8	27.3	21	24	0~60	15-350	690
HR100	100	396.5	296.5	24	8	27.3	21	24	0~60	15-350	765
HR3160	60	331	271	30.8	12	36	37.2	43.5	0~60	30-420	1,000
HRT60	60	317.5	257	24	8	27.3	21	24	0~60	15-350	1,555
HRT100	100	389.5	289.5	24	8	27.3	21	24	0~60	15-350	1,635





Purchase example

-

example

AC series

Circuit breaker serie

ACD series

AC-S series

AD series

Accessory

for log cabin

HR series

PC series
HD series

HD series selection

HD series accessory

JSEI IIIAIIUAI



HR25-K

Hydraulic speed controller

Accessory

HR25-K is a brand new product, and it is totally different than the structural design of traditional sealing part. Due to the precise space design and protection in the oil bellow action location, it can be free from breaking due to its swelling in the pressure storing process. Folded type oil bellow design structure is used to link the piston rod, and retracting action is used to adjust the storage and pressure-storing of oil and then convert it into pressure release and resetting of piston rod. It does not have sealing part (oil seal), and both ends of oil bellow are fixed, therefore, there is no oil leak and contamination trouble. Meanwhile, special oil product is adopted, there is no difference in propulsive speed due to temperature rise generated by the load. Meanwhile, the tuning of the load of propulsive force can be from 0 (the lightest load) to 30 (the heaviest load) according to the labeling. Moreover, in the non-segmented tuning, each scale can clearly reflect the tuning effect. Meanwhile, due to its delicate form design, it is applicable to food-grade equipment, medical equipment, optical equipment, and the pneumatic and hydraulic speed controlling equipment in related automatic manufacturing field.

- Safe usage stroke is 24.6 mm.
- Please do not rotate the piston rod.
- Do not move the load in offset angle.

Model number	Stroke (mm)	Minimum force that will operate plunger full stroke (N)	Plunger return spring force (N)	Load that will push plunger 25.4mm per second at fastest adjustment (N)	Load that will push plunger 101mm per second at fastest adjustment (N)	Piston reset time (S)		finishing tim cial force va 2,200 (N)		Operating temperature (℃)	Weight (g)
HR25-K	25.4	22.7	18	50	150	0.063	15	35	300	5~50	350

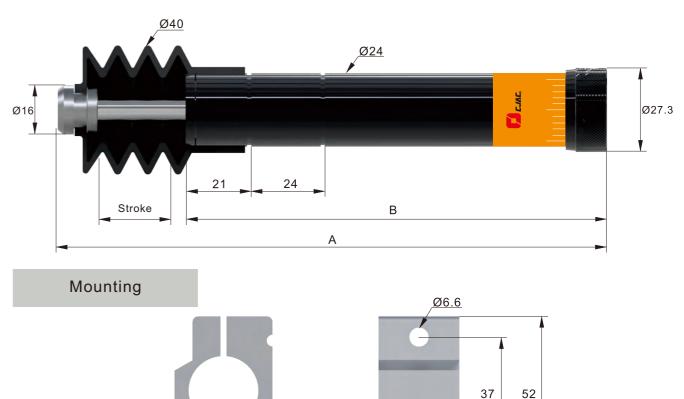


Dust-prevention mask

- Lengthen the usage lifetime of hydraulic speed controller
- It is durable because polymer material is adopted.
- Special design makes it easy to be disassembled and exchanged.
- Dust-prevention protection is provided for hydraulic speed controller to provide safety for complicated environment.

33.8

型 號	A (mm)	B (mm)	最大行程 (mm)	使用溫度 (°C)	最大負荷 (Kgf)	重量 (g)
HR15-FCZ	178	138	15	0~60	15-350	490
HR30-FCZ	248	173	30	0~60	15-350	525
HR60-FCZ	344	223. 5	60	0~60	15-350	655



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Purchase example

Modelinde

Calculation example

AC series

O K - - - i - -

AC-S series

AD series

Stop cylinde

Shock absorb

HR series

PC series

HD series

HD series accessory

Usermanu

PC series

PC series

Performance and form parameters

Characteristics

Safety loop for pressure keeping

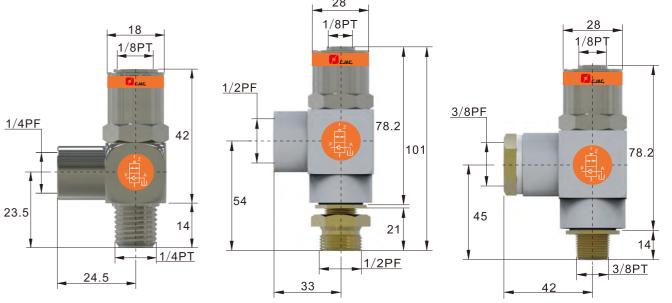
Prevent self-walking phenomenon after the cylinder is stopped Precise positioning after cylinder is suddenly stopped Application of special loop design

- Material Main body: JIS C3604 Ni-plating to enhance rust-prevention capability.
 Main body sleeve: Aluminum alloy and anodic oxidation of original color
- Pressure range 0.5 ~ 9.5 Kg/cm²
- Temperature range -10~ +70°C
- Usage frequency 40 ~ 60/minute
- Special need CJAC can make customized spec based on your usage need.



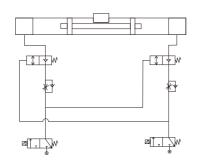


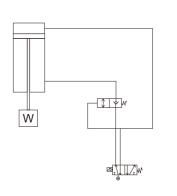
Model number	Use pressure range(Kg/cm²)	Operating temperature (℃)	Orifice (mm2)	Operation frequency (times/minute)	Weight (g)	Suggested cylinder to be used
PC02	0.5~9.5	-10~+70	24	60	100	Below 50 (including 50)
PC03 (PC04L)	0.5~9.5	-10~+70	79	40	340	100~125
PC04	0.5~9.5	-10~+70	79	40	340	63~80



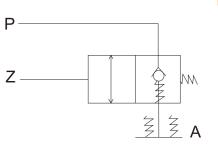
Gas line usage example

PC02





PC03(PC04L)



PC04

Purchase example

Calculation example

AC series

Circuit breaker series

AC-K series

AC-S series

AD series
Stop cylinder series

Accessory

for log cabin

HR series

PC series

HD series
HD series
selection

HD series accessory

User manu

Heavy duty shock absorber

HD series

HD series

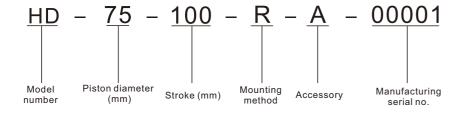
Structural principle

Characteristics

HD heavy duty shock absorber can provide a safe operation environment for large machine and equipment. Under the premise of meeting the industrial safety standard, CJAC has designed a large cylinder diameter, long stroke and high absorption energy heavy shock absorber to be applied in operation environments of different conditions, therefore, it can realize stable linear deceleration of large machine and equipment.

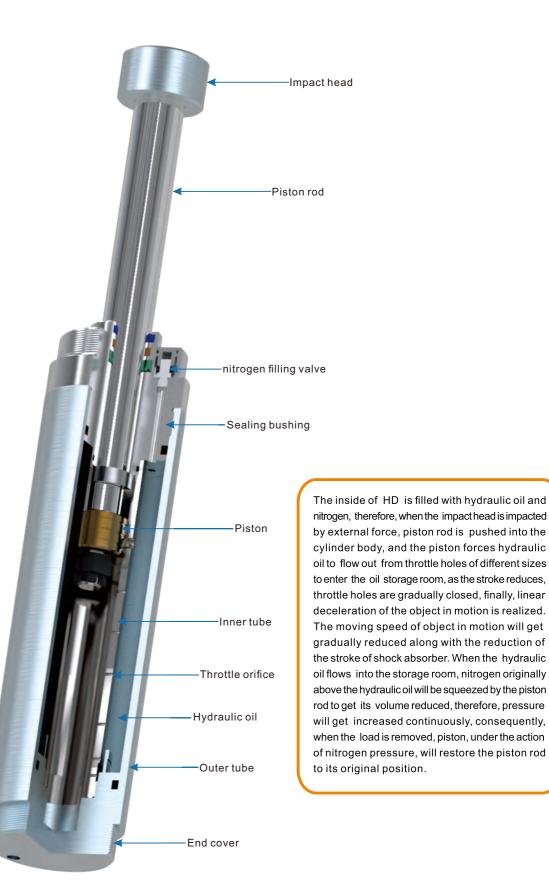
- Material Outer tube: Zinc-plating treatment to enhance the rust-prevention capability. Piston rod: Hardened chromium-plating treatment and special sealing part to lengthen its lifetime. Piston: Highly wearing-resistant material is adopted to guarantee long and stable buffering effect.
- Applicable scope Automatic warehouse system, transport system, Gantry Crane System, cement machinery system, paper-making machinery system, large manufacturing streamline, large robot arm, rubber and plastic machinery, vehicle manufacturing industry, ship manufacturing plant, petrochemical plant, steel heavy industry, traffic and transportation, freight vehicle, excavator, transport machinery, crane, mine well, mine vehicle, gate, machinery for port and facility for environmental protection, etc.
- Temperature range -10~ +80°C
- Installation method CJAC can provide flange and leg type installation methods
- Special need CJAC can make customized spec based on your usage need

Model number description



Model number	Piston diameter (mm)	Stroke (mm)		Mounting method	Accessory		
	40	50、100、250、500、650	F	Front flange	Α	Safety chain	
	50	50、100、250、500、1000	R	Rear flange	С	Muffler sleeve	
HD	75	50、100、250、500、1000	FR	Front and rear flange	Е	Amplified impact head	
пр			S	front foot mount			
			SS	Front and rear foot mount			
			М	Clevis mount			

information to satisfy your need.



Calculatio example

AC series Circuit breaker series

ACD series

AC-S series

AD series

Accessory

HR series

PC series

D series

HD series selection HD series

Model selection

Calculation example

Model selection

Calculation example

1. Free fall impact



Usage condition Formula and calculation

m = 1500 Kg	$E \kappa = m \cdot g \cdot H = 7350 Nm$
H = 0.5m	ED=m·g·S=3675Nm
S = 0.25m	Ет= Ек+ En=11025Nm
C=1/hr	ET ER ES TTOLORIN
	$E_TC = E_T \cdot C = 11025 N m/h r$

Model selection HD40-250

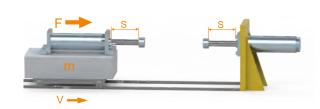
2. Horizontal impact with motor driving



Usage condition Formula and calculation

m = 15000 Kg	$E_K = \frac{mv^2}{2} = 30000Nm$	
v = 2.0m/s	E _D = F · S =1000Nm	
F = 4000N	Ет= Ек+ Ep=31000Nm	
S = 0.25m	Етс= Ет · C=155000Nm/hr	Model selection HD75-250
C = 5/hr	E1C= E1 · C= 15500014111/111	

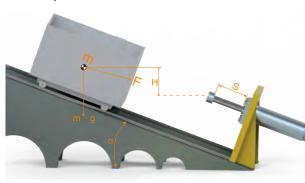
3. Object in horizontal motion with shock absorber



Usage condition Formula and calculation

m = 12000 Kg	$E_K = \frac{mv^2}{2} \cdot \frac{1}{2} = 23520 \text{Nm}$	
v = 2.8 m/s	E _D = F · S =2500Nm	
F = 5000N	ET= EK+ ED=26020Nm	
S = 0.5 m	Етс= Ет · C=208160Nm/hr	Model selection HD50-500
C = 8/hr	LTC- LT - G-200100MIII/III	

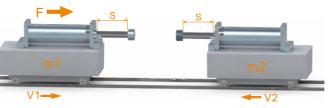
4. Slope motion



Usage condition Formula and calculation

m = 10000 Kg	$E\kappa = m \cdot g \cdot H = 49000Nm$	
H = 0.5m	$E_D = m \cdot g \cdot \sin \alpha \cdot S = 16759Nm$	
α = 20°	ET= EK+ ED=65795Nm	
S = 0.5m	ETC= ET · C=263036Nm/hr	Model selection HD75-500
C = 4/hr	E16-E1	11070 000

5. Collision between two objects in horizontal motion



Usage condition Formula and calculation

m1 = 18000 Kg
m2 = 16000 Kg
v1 = 2.0m/s
v2 = 1.8m/s
F = 5000N
S = 0.5m

 $E_{K} = \frac{(m1 \cdot m2) \cdot (v1+v2)^{2}}{4 (m1+m2)} = 30579Nm$

E_D= F · S = 2500Nm ET= EK+ ED=33079Nm

ETC= ET · C=330790Nm/hr

Model selection HD50-500 Calculatio example

6. Collision between two objects in horizontal motion



Symbol

Εĸ Ет Unit

(Nm)

(Nm)

(Nm)

(N)

(m)

(Kg) (Kg)

(m)

(/h)

(m/s)

(m/s)

 (m/s^2)

(N)

 (m/s^2)

Usage condition

C = 10/hr

m1 = 10000 Kg m2 = 20000 Kg v1 = 1.5 m/sv2 = 1.5 m/sF = 6000N S = 0.5 m

C = 8/hr

Description

Total energy

Height

Stroke

Propelling force

Effective weight

Impact speed

Counter force

Deceleration Deceleration time

Propelling force energy Kinetic energy

Total energy per hour

Acceleration due to gravity

Number of cycles per hour

Effective impact speed

 $E_{K} = \frac{(m1 \cdot m2) \cdot (v1+v2)^{2}}{2 (m1+m2)} = 30000Nm$ E_D= F · S = 3000Nm

Formula and calculation

ET= EK+ ED=33000Nm

ETC= ET · C=264000Nm/hr

Model selection HD50-500 Accessory

Purchase example

AC series

Circuit breaker series

AC-S series

AD series

HR series

PC series

HD series

accessory

Deceleration time Deceleration rate

 $a = \frac{Ve^2}{2 \cdot S} \cdot 1.2^*$

*Calculation for optimum setting. Allow a safety margin!

Counter force

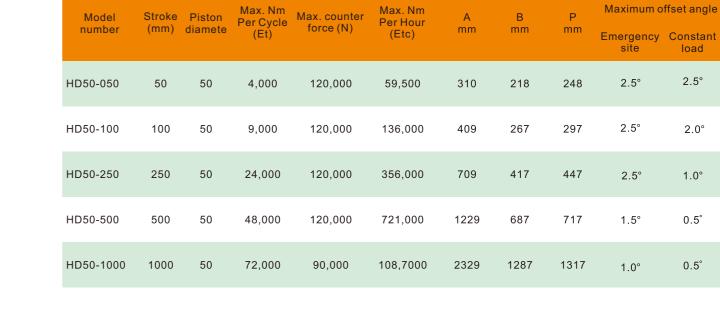
Formula

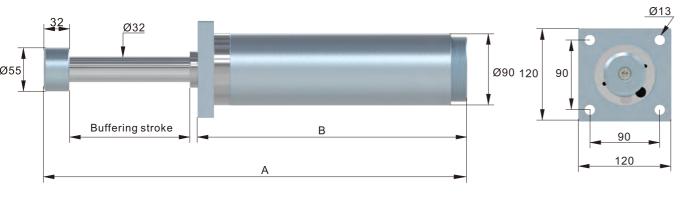
Performance and form parameters

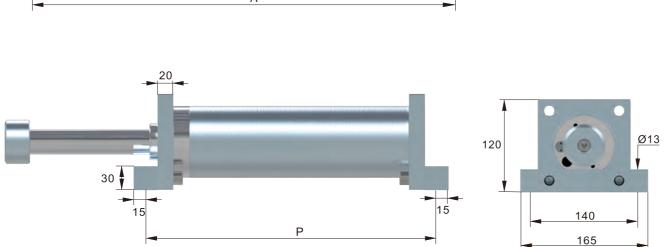
HD 50 series

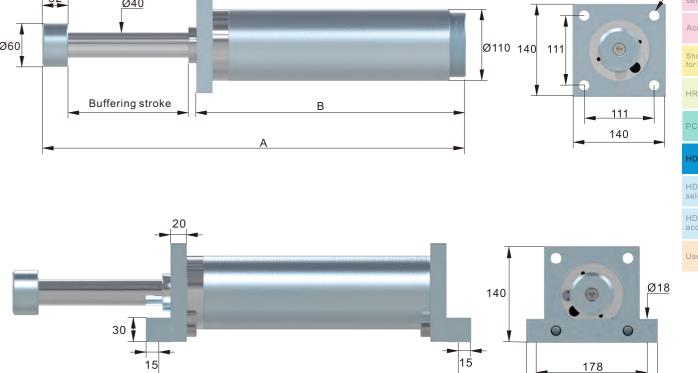
Performance and form parameters

Model number	Stroke (mm)	Piston diamete	Max. Nm Per Cycle (Et)	Max. counter force (N)	Max. Nm Per Hour (Etc)	A mm	B mm	P mm	Maximum o Emergency site	ffset angle Constant load
HD40-050	50	40	3,000	80,000	45,500	298	206	236	2.5°	2.5°
HD40-100	100	40	6,000	80,000	91,000	398	256	286	2.5°	2.0°
HD40-250	250	40	16,000	80,000	241,000	698	406	436	2.5°	1.0°
HD40-500	500	40	32,000	80,000	475,000	1228	686	716	1.5°	0.5°
HD40-650	650	40	41,000	80,000	619,000	1558	866	896	1.0°	0.5°









Purchase example

Model index

Calculation example

AC series

Circuit breaker series

ACD series

AC-S series

AD series

Ø18

Stop cylinder series

Accessory

for log cabin

HR series

PC series

HD series selection

HD series accessory

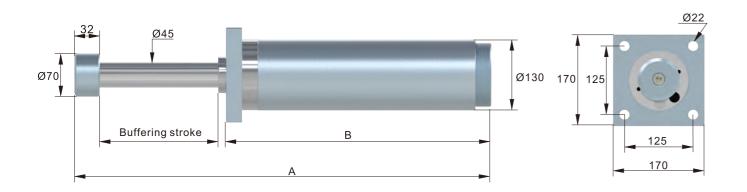
User manua

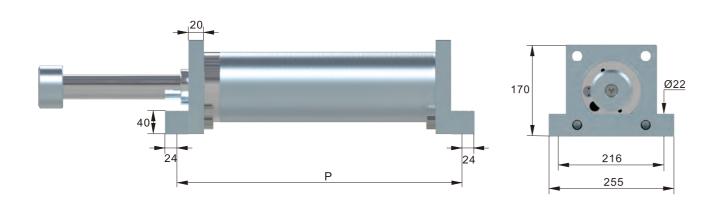
220

HD 75 series

Performance and form parameters

Model	D75-050 50 75 9,600 240,000 144,000 318 226 25	Р	Maximum offset angle							
				force (N)			mm	mm	Emergency site	Constant load
HD75-050	50	75	9,600	240,000	144,000	318	226	258	2.0°	2.0°
HD75-100	100	75	19,200	240,000	285, 700	418	276	308	2.0°	1.5°
HD75-250	250	75	48,000	240,000	722, 500	718	426	458	1.5°	0.5°
HD75-500	500	75	94,000	235,000	142, 0000	1272	729	761	1.5°	0.5°
HD75-1000	1000	75	134,000	170,000	202, 7000	2324	1282	1314	1.0°	0.5°

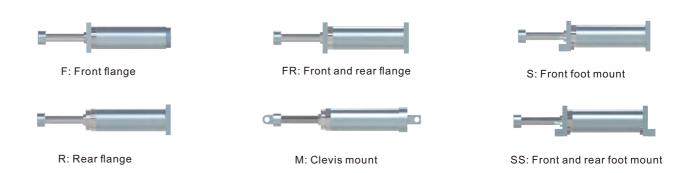




HD series

Accessory

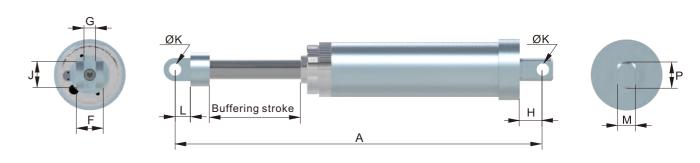
Installation method



- When the buffering stroke is larger than 300 mm, it is not recommended to use flange
- We also provide necessary items for special installation

Clevis mount

Model number	A mm	F mm	G mm	H mm	J mm	K mm	L mm	M mm	P mm
HD40-050	382	38.1	16.3	35	38.1	20	38	25	38
HD40-100	482	38.1	16.3	35	38.1	20	38	25	38
HD40-250	782	38.1	16.3	35	38.1	20	38	25	38
HD50-050	398	55	25	34	40	20	40	25	40
HD50-100	497	55	25	34	40	20	40	25	40
HD50-250	797	55	25	34	40	20	40	25	40
HD75-050	432	90	38	32	60	25	45	38	60
HD75-100	520	90	38	32	60	25	45	38	60
HD75-250	838	90	38	32	60	25	45	38	60



Purchase example

Calculation example AC series

Circuit breaker series

ACD series AC-S series

AD series

HR series

PC series HD series

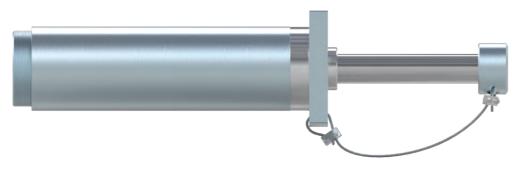
HD series selection

Accessory

Heavy duty shock absorber

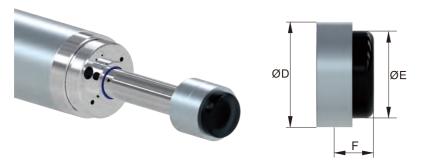
User manual

Safety chain



! For safety concern, when the installation height of HD series heavy shock absorber is larger than 2m, it is recommended to install fall-prevention safety chain.

Impact cap



Model number	D mm	F mm	E mm
HD40	59	25	49
HD50	59	25	49
HD75	80	25	66

Enlarged impact head



Application: Shock absorber impacts shock absorber.

When the product is delivered, HD has included all the accessories selected by customer, therefore, when you receive the product, please check if all the accessories are complete. Before using it, please make sure the product message is consistent with the message in the packing list.

Precaution

- 1. During the installation, please make sure the impact face is vertical to the piston rod.
- 2.During the installation, the fixing bolt of flange should not be more than 2 mm smaller than the installation hole.
- 3.In order to protect the piston rod, when the shock absorber stroke is 500 mm or larger, installation methods recommended are leg or front and rear flange type.
- 4.Please do not use it in temperature exceeding the acceptable range, otherwise, it might lead to early decay or damage of the shock absorber, which might lead to system damage and machinery accident.
- 5.Do not let corrosive liquid to get in contact with the shock absorber, please make sure the motional area of the piston rod is clean.
- 6. High pressure gas is filled inside the shock absorber, therefore, please do not open it to avoid injury.

Check in the first operating

Before the shock absorber is used for the first time, please check in advance if it is installed correctly. Please use smaller shock-absorbing speed and impact energy. Make sure the practical operation in the early stage remains constant difference to the theoretical value to prevent the system damage.

Check after large load impact

HD should, after full load impact (for example, for use in emergency situation), make again deceleration or weight reduction verification. Check if the piston rod is fully restored, check if there is oil leak, check if the installed accessory is secure or not.

Maintenance

HD is a sealed system, the shock absorber does not need special maintenance, when the shock absorber is not frequently used (for example, pure preparation for emergency stop of the system), safety check should be conducted at fixed time, and the check frequency should not be lower than once a year. During the check, please make sure the piston rod can be fully extended without damage. If the shock absorber is frequently used, it is recommended that the check should be made in three month basis.

Purchase example

Model index

Calculation example

AC series

A O 1/ - - - i - -

ACD series

AC-S series
AD series

Stop ovlindo

Accessorv

Shock absor

HR series

PC series

HD series

HD series

HD series

Product user manual

Read before using it



The labeling meaning is as follows, please understand it and read the following context



Attention Product must be used under normal condition, otherwise, product might get damaged



Warning

Please follow strictly the operation procedures and repair method, otherwise, it might lead to personal injury and machine damage.



Warning items

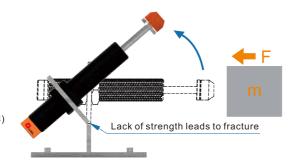
- Burning is strictly prohibited
- Since oil is sealed, when it is placed into fire, it might cause fire accident
- Waste oil should be treated according to regulation

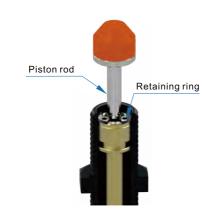


Attention

Precautions

- The strength of the carrier is not sufficient to lead to the operation stop of shock absorber
- When operation is carried under insufficient overall strength, it might damage the machine and cause personnel injury
- Prior confirmation of overall strength: Max. resistant force*safety coefficient (For max. resistant force, please refer to product catalogue or consult to CJAC)
- Torque situation
- Abnormal situation caused by operation under too much torque might lead to the damage of machine and shock absorber
- Please watch the size of torque
- Watch the dropping of the locking ring
- Under inappropriate condition, inner pressure will rise abnormally to lead to the dropping of locking ring, and the inner components will fly out
- Please do not let your face get close to locking-ring shock absorber that is in use
- Product dipped with oil stain should not be thrown away arbitrarily
- Product containing oil stain should not be thrown away arbitrarily, please protect the environment
- Please follow the regulation to treat the waste oil
- Please watch the accident caused by the damage of product
- Accident caused by product damage or fly-out due to non-standardized operation
- Please install exterior mask or device for protection purpose
- Please watch the offset eccentric and offset eccentric angle
- When a load collides at an eccentric angle of ±2.5° or larger, recovery failure due to a bent piston rod and performance degradation due to eccentric friction on the sliding part may occur, causing damage to the main machine
- Please ensure that it collides along the midline of the piston rod. (The eccentric angle can't exceed ±2.5°)







Precautions for operating range

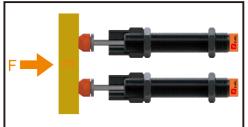
Shock absorber should be operated under appropriate condition

Watch the operating environment

- It is strongly prohibited to use it in vacuum and high pressure environment, otherwise, it will damage the product
- Do not have dirty water or oil attached to the piston rod, it should be operated under clean condition. If the work environment is severe, please install dust-prevention cover or protection mask (Please watch the size and precautions for usage of this product)

Usage method

When more than two products are used together, it is needed to use product of the same model number so that they will receive the same pressure. When adjustable type products are used in parallel, since there is certain difficulty in the adjustment of absorption characteristics, therefore, cautious consideration should be conducted during the usage



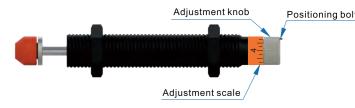
- It is not suggested to use shock absorber itself as safety positioning device, please adjust the external safety device at 1mm before the stroke
- The positioning stop nut of shock absorber is as shown in the right figure

Adjustment method of adjustable type shock absorber

- Simulate the adjustment scale: In the beginning, set up the adjustment scale to "4", observe the impact result, then adjust it to the most appropriate location
- Precautions: During the adjustment process, it is needed to use safety device, positioning stop bolt, to lock tight the shock absorber, otherwise, the adjustment knob will get loose to be unable to absorb normal impact

Operating environment

- Working temperature -10 °C~ +80 °C
- Used under atmospheric pressure
- The usage lifetime will be shortened when used in corrosive site
- Used under humidity range of 0~80%
- If there is any special need, please consult CJAC



Product performance

- If the axle center is damaged, it will lead to shortening of the durability of the product and unsmooth positioning returning
- If the sealing part is damaged, it will lead to oil leak and shortening of the durability of the product. It is prohibited to rotate the bolt at the oil injection hole at the bottom of the shock absorber, otherwise, it will lead to oil leak
- Durability is different depending on different operating condition, for details, please consult CJAC

Maintenance and repair

- This shock absorber cannot be decomposed, please preserve it completely (If you want to disassemble the shock absorber, please watch your safety, since it is installed with spring, safety device might flow out to lead to the hazard of injury.)
- Selection of shock absorber
- Please check the calculation method for selection of shock absorber shown in the product catalogue or consult CJAC

Accessory list

- Wrench for installation
- Drying protection product