

Model HC Series

Horizontal Crush Tester



DESCRIPTION

HC Series horizontal shape crush tester is manufactured to meet international test standards for round or square and polymer secondary batteries.

Especially, HC Series provides the best results in research/development/test/verification by grafting NEOSENS's own advanced DAQ technology.

FEATURES

- ✓ 10tf ~ 50tf [Module / Pack Level]
- ✓ AC servo system
- ✓ Horizontal Shape
- ✓ Full remote control via ethernet
- ✓ Various DAQ available
- ✓ CE,UL available



* Available

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Model Name	Capacity	Actuator		Speed [mm/s]	Test Stroke (Refer to note)
		AC Servo	Hydraulic		
HC-10S	10tf	O	X	0.1~10	T.B.D
HC-30S	30tf	O	X	0.1~10	T.B.D
HC-50S	50tf	O	X	0.1~10	T.B.D
HC-O	Order made type	-	-	-	-

Note

Since the test stroke is variable according to the user's request and the size/shape of the test object, it is decided after consultation with the customer.

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Model Name	Capacity	Accuracy		
		Force [%R.C.]	Position [mm]	Speed [mm/s]
HC-10S	10tf	±<0.5%	±<0.05	±<0.02
HC-30S	30tf	±<0.5%	±<0.05	±<0.02
HC-50S	50tf	±<0.5%	±<0.05	±<0.02
HC-O	Order made type	-	-	-

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Model Name	Capacity	Power source		
		AC220 1Φ	AC220 3Φ	AC380 3Φ
HC-10S	10tf	X	O	X
HC-30S	30tf	X	O	X
HC-50S	50tf	X	O	O
HC-O	Order made type	-	-	-

Note

Power source can be discussed.



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Model Name	Capacity	DAQ List					
		Force	Position	Speed	Voltage	Temp.	Video
HC-10S	10tf	d	d	d	op	op	op
HC-30S	30tf	d	d	d	op	op	op
HC-50S	50tf	d	d	d	op	op	op
HC-O	Order made type	-	-	-	-	-	-

Note

- 1) Symbol "d" means to default specification.
The saving speed of the default specification is up to 10Hz.
- 2) Symbol "op" means to optional specification.

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Model Name	Capacity	DAQ Speed					
		Force	Position	Speed	Voltage	Temp.	Video
HC-10S	10tf	~200Hz	~200Hz	~200Hz	~200Hz	~200Hz	-
HC-30S	30tf	~200Hz	~200Hz	~200Hz	~200Hz	~200Hz	-
HC-50S	50tf	~200Hz	~200Hz	~200Hz	~200Hz	~200Hz	-
HC-O	Order made type	-	-	-	-	-	-

Note

- 1) The saving speed can be changed by the user in the program within the maximum DAQ speed.
The saving speed of the default specification is up to 10Hz.
- 2) All data, including video recording, are synchronized and stored.
- 3) Video recording use USB Web cam and up to 6 cameras can be saved at the same time.
** Separate consultation is required for multi-channel simultaneous recording.

If you need to record video using an IP camera, you must use a private recording program, and in this case, synchronization is not possible.



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Model Name	Capacity	Temperature chamber application	
		Safety Chamber	Explosion Chamber
HC-10S	10tf	O	O
HC-30S	30tf	O	O
HC-50S	50tf	O	O
HC-O	Order made type	O	O

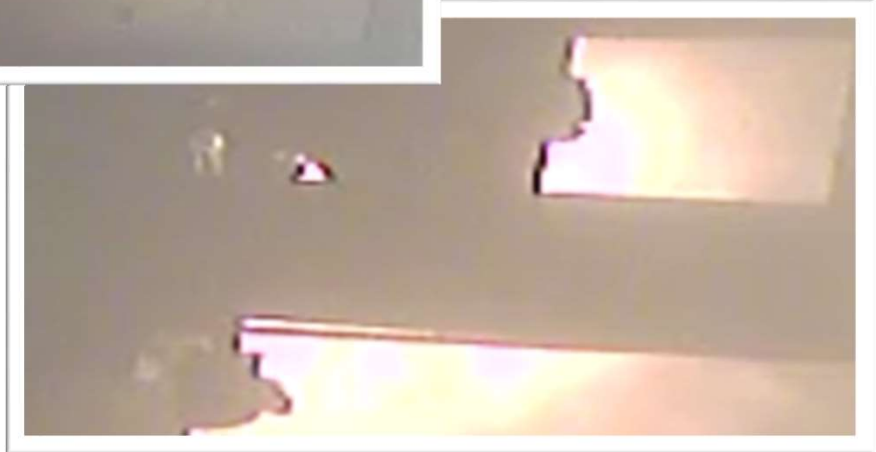
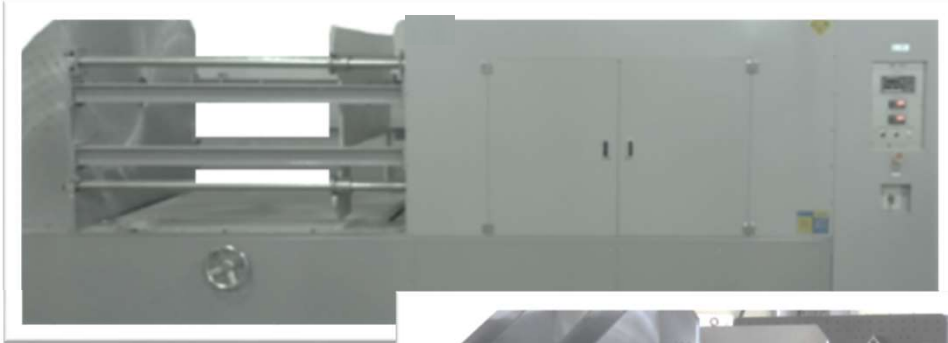
Note

- 1) The application of the temperature chamber can be decided at the specification meeting with the customer.



* Available

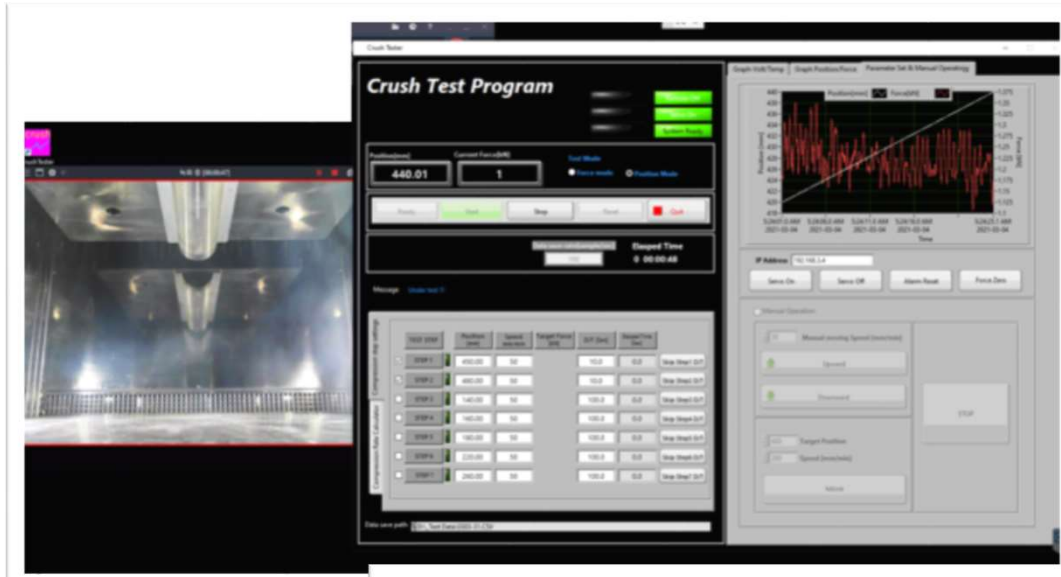
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CE  * Available

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Time[Sec]	Volt[V]	Position[mm]	Force[N]	Temp-1[°C]	Temp-2[°C]	Temp-3[°C]	Temp-4[°C]	Temp-5[°C]	Temp-6[°C]	Temp-7[°C]
0	3.600009	6.73E-05	-0.357417	16.961412	16.999604	17.829715	17.713921	18.162888	17.746836	18.045176
0.01	3.600002	0.002732	-0.373349	16.974586	16.983848	17.814475	17.709789	18.163405	17.761043	18.034586
0.02	3.600006	0.005396	-0.389282	16.968386	16.989789	17.819642	17.719346	18.171154	17.764659	18.050084
0.03	3.600015	0.005663	-0.413698	16.970195	16.985139	17.812409	17.70953	18.155398	17.746061	18.041818
0.04	3.600002	0.001	-0.441367	16.98311	16.988497	17.802594	17.723479	18.158756	17.778349	18.044143
0.05	3.600013	-0.003996	-0.45961	16.970711	16.999346	17.817833	17.717538	18.163147	17.752777	18.048276
0.06	3.600006	-0.002459	-0.472541	16.97846	16.987981	17.811376	17.723737	18.166505	17.762334	18.040266
0.07	3.600007	0.001999	-0.492271	16.983626	16.99263	17.815767	17.71573	18.166246	17.762593	18.038718
0.08	3.600003	0.004997	-0.507719	16.971228	16.985656	17.826099	17.722704	18.17787	17.754585	18.048276
0.09	3.599988	0.001999	-0.522337	16.977685	16.98049	17.798461	17.724254	18.155398	17.771891	18.038977
0.1	3.599998	-0.002997	-0.535164	16.975877	16.985139	17.827132	17.722187	18.163922	17.748386	18.046466
0.11	3.599994	-0.002997	-0.544086	16.98311	16.98953	17.8168	17.711597	18.169346	17.758201	18.038202
0.12	3.599988	0.006995	-0.550236	16.988276	16.986431	17.805693	17.722704	18.172704	17.766725	18.063774
0.13	3.599996	0.025979	-0.549161	16.976135	16.981006	17.83669	17.715988	18.167021	17.747094	18.054475
0.14	3.6	0.04778	-0.541151	16.991117	16.992888	17.81525	17.715471	18.160305	17.780674	18.042851
0.15	3.600003	0.076938	-0.525399	16.980785	16.990305	17.82894	17.720121	18.180195	17.74012	18.061707
0.16	3.600003	0.113907	-0.50438	16.996025	16.992888	17.816542	17.722704	18.168571	17.749161	18.044401
0.17	3.600003	0.158416	-0.482387	16.981818	16.990305	17.822225	17.725287	18.173995	17.768792	18.057316
0.18	3.600003	0.22042	-0.458186	16.984918	16.994438	17.826357	17.717021	18.170379	17.749161	18.053956
0.19	3.599994	0.297757	-0.42797	16.998608	16.988497	17.811376	17.711338	18.160047	17.778091	18.046205
0.2	3.600003	0.371696	-0.400634	16.977427	17.00322	17.82894	17.728903	18.172446	17.745545	18.05525
0.21	3.6	0.442471	-0.377418	16.979752	16.987981	17.813442	17.713921	18.165988	17.760268	18.032261
0.22	3.600005	0.556988	-0.346702	16.978202	16.99573	17.824808	17.72167	18.163922	17.763884	18.063516
0.23	3.600007	0.667453	-0.311535	16.974586	16.988497	17.816284	17.712113	18.160822	17.741928	18.046466
0.24	3.599994	0.791352	-0.277309	16.988276	16.989789	17.817575	17.722704	18.169604	17.777832	18.051634
0.25	3.600003	0.920337	-0.245088	16.973811	17.006062	17.828682	17.722962	18.170637	17.755102	18.0566



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NOTES

1. All equipment can be manufactured after specification discussion and confirmation with the customer.
2. The type and specification of the tool to be used for the test should be decided after consultation before submitting the quotation.
3. For specifications that are changed or added after the contract, depending on the scope, it may be paid or free of charge.
4. As it is a facility manufactured exclusively for each customer, CE and UL certification can be carried out individually.
5. The contents of this specification are subject to change without notice, check and confirmation of specifications must be conducted after consultation with the responsible salesperson.

Warranty. NEOSENS INSTRUMENT warrants goods of its manufacture as being free of defective materials and faulty workmanship.

NEOSENS INSTRUMENT's standard product warranty applies unless agreed to otherwise by NEOSENS INSTRUMENT in writing; please refer to your order acknowledgement.

For more information visit our website.

www.neosens-ins.com or call +82-31-8014-2500

Email inquiries to info.neosens-ys@neosens.co.kr

WARNING

PERSONAL INJURY

- DO NOT USE Do not use this product for any purpose other than the secondary battery crush test.

Failure to comply with these instructions could result in death or serious injury.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

Sensing & Automation Control Solutions
NEOSENS INSTRUMENT

63-12, Dongtancheomdansaneop 1-ro,
Hwaseong-si, Gyeonggi-do, Republic of
Korea, 18469 (+82-8014-2500)
www.neosens-ins.com

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