

Model HP Series

Horizontal Penetration Tester



DESCRIPTION

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

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

FEATURES

- ✓ 1tf ~ 10(20)tf [Single Cell / Module / Pack Level]
- ✓ AC servo system)
- ✓ Vertical 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		
HP-1S	1tf	O	X	0.1(0.05)~200(500)	T.B.D
HP-2S	2tf	O	X	0.1(0.05)~200(500)	T.B.D
HP-5S	5tf	O	X	0.1(0.05)~200	T.B.D
HP-10S	10tf	O	X	0.1(0.05)~200	T.B.D
HP-O	Order made type	-	-	-	-

Note

1. 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.
2. Numbers in () are optional specifications.

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Model Name	Capacity	Accuracy		
		Force [%R.C.]	Position [mm]	Speed [mm/s]
HP-1S	1tf	N/A ($\pm < 0.5\%$)	$\pm < 0.05$	$\pm < 0.02$
HP-2S	2tf	N/A ($\pm < 0.5\%$)	$\pm < 0.05$	$\pm < 0.02$
HP-5S	5tf	N/A ($\pm < 0.5\%$)	$\pm < 0.05$	$\pm < 0.02$
HP-10S	10tf	N/A ($\pm < 1.0\%$)	$\pm < 0.05$	$\pm < 0.02$
HP-O	Order made type	-	-	-

Note

1. Numbers in () are optional specifications.

HP Series

Model Name	Capacity	Power source		
		AC220 1Φ	AC220 3Φ	AC380 3Φ
HP-1S	1tf	O	O	X
HP-2S	2tf	O	O	X
HP-5S	5tf	X	O	X
HP-10S	10tf	X	O	O
HP-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
HP-1S	1tf	op	d	d	op	op	op
HP-2S	2tf	op	d	d	op	op	op
HP-5S	5tf	op	d	d	op	op	op
HP-10S	10tf	op	d	d	op	op	op
HP-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
HP-1S	1tf	(~200Hz)	~200Hz	~200Hz	~200Hz	~200Hz	-
HP-2S	2tf	(~200Hz)	~200Hz	~200Hz	~200Hz	~200Hz	-
HP-5S	5tf	(~200Hz)	~200Hz	~200Hz	~200Hz	~200Hz	-
HP-10S	10tf	(~200Hz)	~200Hz	~200Hz	~200Hz	~200Hz	-
HP-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.

- 4) Numbers in () are optional specifications.



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Model Name	Capacity	Temperature chamber application	
		Safety Chamber	Explosion Chamber
HP-1S	1tf	O	O
HP-2S	2tf	O	O
HP-5S	5tf	O	O
HP-10S	10tf	O	O
HP-O	Order made type	-	-

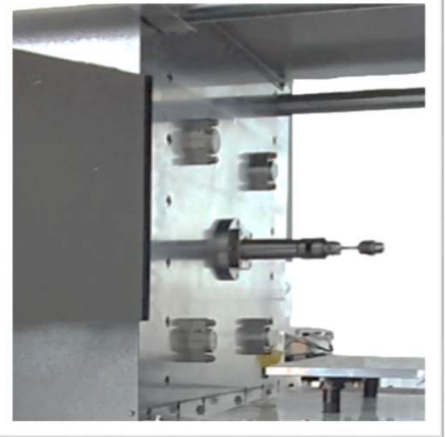
Note

- 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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Nail & Internal Short Test Program

Elapsed Time(H:M:S) 00 : 12 : 05

Voltage[V] 3.610 Position[mm] 471.69 Force[N] 22 Speed[mm/s] 0.00

Temp-1 (°C) 18.6 Temp-2 (°C) 18.6 Temp-3 (°C) 18.4 Temp-4 (°C) 18.7 Temp-5 (°C) 18.8 Temp-6 (°C) 19.1 Temp-7 (°C) 18.7

TEST STEP	Position [mm]	Speed [mm/Sec]	Delay Time [Sec]	Elapsed Time [Sec]
STEP 1	469.69	60.00	5.0	5.0
STEP 2	471.69	0.10	3600.0	692.1
STEP 3	0	1.00	0.0	0.0
STEP 4	0	1.00	0.0	0.0

Parameter Open Parameter Save

Message: Nail Test Start! Data save path: D:_Test Data\0317-cell Nail Test-4_1.CSV



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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.

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