TINENG

HYE SERIES COMPRESSION TESTING MACHINE

HYE SERIES ELECTRO-HYDRAULIC SERVO COMPRESSION TESTING MACHINE

FEATURES

- Electric-screw to adjust the compression space, electro-hydraulic servo technology, control automatically.
- Used for testing the compressive and flexural strength of cement, concrete and other building materials. It can be carried out in accordance with the corresponding standard as setting loading rate. Load capacity, time and test curve are displayed dynamically, and control timely and maxmimum test force hold function.
- Compressive strength, flexural strength and other mechanics test data can be calculated and printed by the control software automatically.
- Suitable for testing 50mm, 100mm, 150mm and 200mm cube samples as well as cylinder samples with 75 -160mm diameter and 150-320mm height.
- Pressure safety valve, piston limit switch, removable front and rear gates are standard in all models. Upper compression platens have ball seating assembly for movement in all models. All compression platens have a surface hardness of 50 HRC.

Model	HYE-2000	HYE-3000
Features	Computer included, protect cover	Computer included, protect cover
Max load capacity	2000kN	3000kN
Accuracy Class	Class One	Class One
Compression space	320mm	340mm
Piston stroke(mm)	50	80
Size of upper compression plates(mm)	240×240	265×265
Size of lower compression plates(mm)	300×250	360×285
Dimension (load frame mm)	700×430×1350	750×500×1500
Dimension (control console mm)	1100×550×900	1100×550×900
Power	380V(220V optional), 50Hz(60Hz optional), 2.0kW	380V(220V optional), 50Hz(60Hz optional), 2.0kW
Weight(kg)	1090	1640

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HYE SERIES COMPRESSION TESTING MACHINE

HYE-2000BD micro-electro-mechanical hydraulic servo compression testing machine is a high-precision material testing equipment that adopts hydraulic power source drive, electro-hydraulic servo control technology, computer data acquisition and processing, and can realize closed-loop control and automatic detection. The source (hydraulic power source), measurement and control system, and test equipment are composed of four parts. The maximum test force is 2000kN, and the accuracy level of the test machine is better than level 1. HYE-2000BD micro-electro-mechanical hydraulic servo compression testing machine can set the loading rate according to the corresponding national standard and meet the standard loading rate control index. The compressive test under the rated test force of cement, concrete and other materials, with load, time and test Curve dynamic display and timely control function and maximum test force retention function.

Separate structure of main engine and oil source; it is suitable for the compression test of cement and concrete, and is equipped with appropriate fixtures and measuring devices to meet the split tensile test and static pressure elastic modulus test of concrete. Electronic extensometer/compressometer should be ordered separately.

INDUSTRIAL-GRADE TABLET PC

It has the characteristics of anti-vibration, antimoisture, high temperature resistance, etc.

CONTROL SYSTEM

With force closed-loop control function;
Using a microcomputer to achieve electronic measurement and automatically complete the test;
Automatically calculate the results and print the report;
Ethernet communication method.

Model	HYE-2000BD	HYE-3000BD
Maximum test force	2000kN	3000kN
Test machine level	level 1	level 1
Relative error of test force indication value	within ±1%	within ±1%
Relative error of displacement rate control	within ±1%	within ±1%
Test force measurement range	1% -100% FS (the whole process is not divided)	1% -100% FS (the whole process is not divided)
Host structure	Electric adjustment of double screws	Electric adjustment of double screws
Compression space	600 mm	650 mm
Piston stroke	200 mm	200 mm
Test force loading speed	0.02% -2% FS / s	0.02% -2% FS / s
Pressure plate size	Φ300 mm	Φ300 mm
Effective distance between columns	440 mm	440 mm
Host size	840×640×1780 mm	960×740×2080 mm
Control cabinet dimensions	700×540×1500 mm	700×540×1500 mm
Machine power	2.7kW (AC380V)	3.0kW(AC380V)
Machine weight	About 1700kg	About 3100kg

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HYE SERIES COMPRESSION TESTING MACHINE

HYE-2000BS ELECTRO-HYDRAULIC SERVO COMPRESSION TESTING MACHINE

FEATURES

Hydraulic loading, electro-hydraulic servo technology. Used for testing the compressive and flexural strength of cement, concrete and other building materials. It can be carried out in accordance with the corresponding standard as setting loading rate. Load capacity, time and test curve are displayed dynamically, and control timely and maxmimum test force hold function.

Compressive strength, flexural strength and other mechanics test data can be calculated and printed by the control software automatically.

Suitable for testing 50mm, 100mm, 150mm and 200mm cube samples as well as cylinder samples with 75 -160mm diameter and 150-320mm height.

Pressure safety valve, piston limit switch, removable front and rear gates are standard in all models. Upper compression platens have ball seating assembly for movement in all models. All compression platens have a surface hardness of 50 HRC.

Model	HYE-2000BS
Max load capacity	2000kN
Accuracy class	Class One
Compression space	360 mm
Piston stroke	120 mm
Size of compression plates	Dia. 300 mm
Dimension (load frame)	450×400×1250 mm
Dimension (control console)	1100×500×900 mm
Power(kW)	380V(220V optional), 50Hz(60Hz optional), 2.0kW
Weight(kg)	950 kg

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TINENG

HYE SERIES COMPRESSION TESTING MACHINE

HYE-2000B/HYE-3000B ELECTRO-HYDRAULIC SERVO COMPRESSION TESTING MACHINE

Hydraulic loading, electro-hydraulic servo technology. Used for testing the compressive and flexural strength of cement, concrete and other building materials. It can be carried out in accordance with the corresponding standard as setting loading rate. Load capacity, time and test curve are displayed dynamically, and control timely and maxmimum test force hold function.

Compressive strength, flexural strength and other mechanics test data can be calculated and printed by the control software automatically.

Suitable for testing 50mm, 100mm, 150mm and 200mm cube samples as well as cylinder samples with 75-160mm diameter and 150-320mm height.

Pressure safety valve, piston limit switch, removable front and rear gates are standard in all models. Upper compression platens have ball seating assembly for movement in all models. All compression platens have a surface hardness of 50 HRC.

Model	HYE-2000B	HYE-3000B
Max load capacity	2000kN	3000kN
Accuracy class	Class one	Class one
Span of colum	400 mm	440 mm
Compression space	360 mm	400 mm
Piston stroke	200 mm	200 mm
Size of compression plates	Dia. 300 mm	Dia. 300 mm
Dimension (load frame)	640×560×1500 mm	720×720×1800 mm
Power(kW)	380V(220V optional), 50Hz(60Hz optional), 2.0kW	380V(220V optional), 50Hz(60Hz optional), 2.0kW
Weight(kg)	1500kg	2700kg

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HYE SERIES COMPRESSION TESTING MACHINE

FLEXURAL & COMPRESSION TESTING MACHINE

HYE-300B uses fully computer controlled and standard keyboard to operate the machine. HYE-300B-D uses touch screen to operate the machine. It can automatically save and process the data and automatically print the report. It has constant loading rate (you can freely set the loading rate) and automatic overload protection device. It is mainly used to determine the compressive strength and bending strength of the cement specimen 40x40x160mm.

HYE-300B HYE-300B-D

Model	HYE-300B		HYE-300B-D	
	Compression	Bending	Compression	Bending
Max Capacity	300kN	10kN	300kN	10kN
Accuracy class	Class 0.5	Class 0.5	Class 0.5	Class 0.5
Compression space	180mm	180mm	180mm	180mm
Piston stroke	80mm	60mm	80mm	60mm
Size of upper compression plate(Fix type)	Dia. 108mm	Dia. 60mm	Dia. 108mm	Dia. 60mm
Size of upper compression plate(Ball head)	Dia. 170mm	-	Dia. 170mm	-
Size of lower compression plate	Dia. 205mm	-	Dia. 205mm	-
Dimension(load frame)	1150 x 500 x 1400 mm		1160×500×1400 mm	
Power	380V(220V optional), 50Hz(60Hz optional), 0.75kW		380V(220V optional), 50Hz(60Hz optional), 0.75kW	
Weight	500 kg		540 kg	

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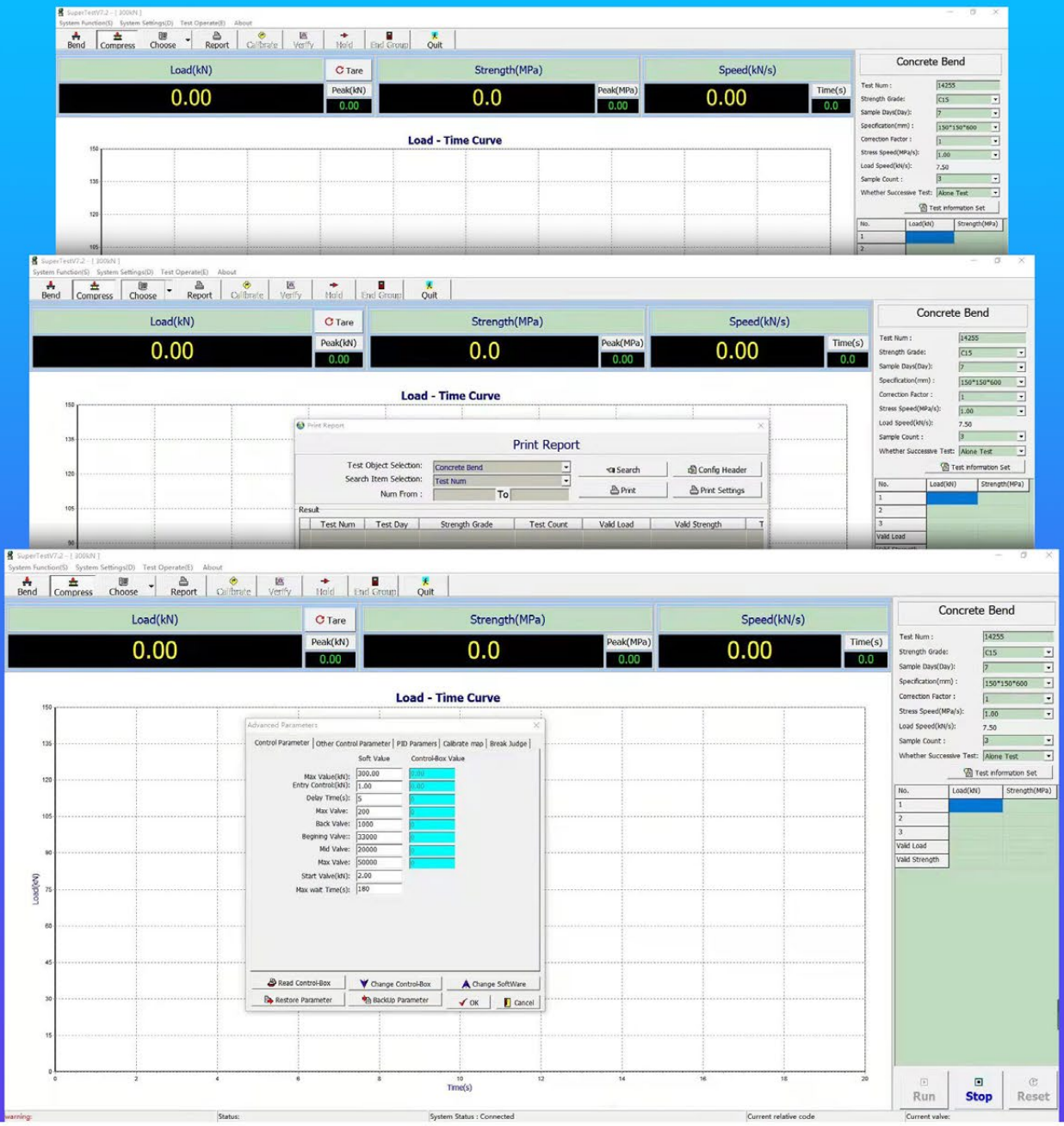
HYE SERIES COMPRESSION TESTING MACHINE

SOFTWARE

The testing software has the characteristics of WINDOWS style, user-friendly interface, complete functions, stabilization and easy operation.

Functions of the software:

- Choose a test;
- Demarcate force value;
- Detect force value;
- Set holding load for force value;
- Set and print testing report;
- Real-time display load, intensity, rate, peak value, intensity rate and loading curve.



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