

HST MGW-6500 Steel Strand Static Load Anchorage Testing Machine



Application:

MGW-6500 micro-computer electro-hydraulic servo static load anchorage testing machine is used for anchorage fixture connector static load anchoring performance test, prestressed steel strand anchorage, clamp and connector for concrete structure and component, prestressed steel strand anchorage, clamp and connector, cable anchorage, fixture and connector, carbon fiber prestressed reinforcement, prestressed tendon anchorage, fixture and connector Test and Research on load anchorage performance. It can realize the closed-loop control such as constant rate loading and constant rate deformation, and can automatically calculate the technical indexes of anchorage connector efficiency coefficient η_a , fixture efficiency coefficient η_g , and the total strain ε_{APU} specimen technical index of the assembly part's stress length when the measured ultimate tension is reached.

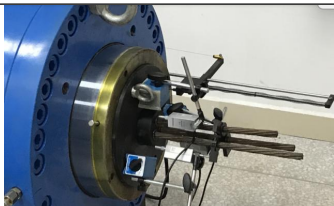
Applied Standards:

- GB/T14370-2007 《Anchors, fixtures and connectors for prestressed tendons》 steel strand-anchor anchorage performance test under static load
- JTT 329-2010 《Anchors, fixtures and Connectors》 for prestressed Steel strand for Highway Bridges" to judge whether the mechanical properties of steel strand anchors meet the specified requirements.

Specifications:

MODEL	HST MGW-6500
Maximum test force	6500kn
Accuracy level	Class 1
Relative error of load	± 1%
Effective measurement range	1% - 100% FS
Relative error of deformation	± 1%
Deformation measurement resolution	0.001mm
Test force resolution	±500000
Displacement control range	0-200 mm
Displacement indication error	Better than ±1%
Test speed adjustment range	0.5%-3%F.S/S
Detection range	static load performance of 1-24 hole
Repeatability	1%
Holding time	≥ 24h
Piston stroke	0-200 mm
Load,deformation,displacement control range	2%-100%F.S/S
Tensile distance	3500 mm
Overall dimension of main engine	3300 mm × 800 mm × 1000 mm
Size of oil source cabinet	1300 mm × 680 mm × 750 mm
Power	4.0kW, 3 phase, AC380V±10%, 50Hz
Weight of oil source	300 kg
Weight of machine host	4200 kg

Machine Accessories:

Name	Picture	Specification	QTY
Main frame		6500KN Testing machine frame	1 Suit
		6500kN through-core jack	1 Suit
		200KN lifting jack	
		High precision load sensor	1 Suit
		Displacement measuring device	1 Suit
		Protective shield	1 Suit
Grip		Round pad: 3, 4, 5, 7, 9, 12, 14, 16, 19, 22	1 Suit
		Flat pad: 2, 3, 4, 5	1 Suit
Platen		Compression platen for calibration	1 Suit
Oil source control system		Fully sprayed with plastic, the operating table is a black solid psychological board;	1 Suit
		Piston pump: Dezhou Shenghui	
		AC Servo Motor: Japanese	
		Solenoid directional valve: Huade Hydraulics	
		Precision oil filter: Heidecker Hydraulics	
		Oil Tube: Aditya Brands	
		Control valve: USA SUN plug-in valve, relief valve	1 Suit
		Pressure monitor meter	1 Suit
Measurement and control system		Displacement sensors	1 Suit

		External independent controller	1 Suit
		HKtest English Software	1 Suit
			1 Suit
		Computer HP	1 Suit
		Printer HP	1 Suit

Features

Bearing framework

Including plate, left bearing beam, horizontal bar, septum beam, push-pull safety net, right bearing beam, column load sensor; The horizontal bar runs through the whole frame, and is connected to the left bearing beam, the septum beam and the right bearing beam, which is fastened by the nut to form the four-bar load frame; The frame is covered by a push-pull safety net to facilitate loading and unloading of samples. The backing plate is connected with the left bearing beam to fix the anchor ring, and the column sensor is connected with the right bearing beam to connect the piercing jack. The load-bearing frame structure is safe and reliable and convenient for personnel operation.

Displacement sensor device

The device is installed on the core jack to detect the displacement of the piston of the main cylinder. Photoelectric encoder is fixed on the cylinder cylindrical bearing part, the anchor bolt end fixed on the plate bending, between two guide bar and plate is equipped with linear bearing, the piston rod out, move through the screw drive the bending plate of bending plate, realize the encoder process, the plate above two root spring, when the piston back up the reset function. The linear bearing improves the ability of horizontal piston to bear lateral force.

Body of piercing jack

The core jack is placed on the car body that can be reciprocated sliding on the guide rail for easy adjustment of the installation height of the jack.

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ISO:9001 and CE accredited and an active member of all the main international standard organizations, including GB, ISO, EN, ASTM, AASHTO and AWRG, we are also involved in steering future Standards' development so they are written with practical operation and application in mind for the benefit of the end-users.



Customer use site



OUR factory



OUR Certificate

CTC

Certificate of Registration

Certificate No.:446Q21010121403

Awarded to

JINAN HENSGRAND INSTRUMENT CO., LTD.

Organization Code No./Unified Social Code: 91370104684680659H
Address: No. 4915, Jingshi West Road, Huaiyin District, Jinan City

Qingdao CTC Inspection & Certification CO.,LTD.(CIC) certify that the
Quality Management System of the above organization has been assessed and found to be
in accordance with the requirements of the standard:

GB/T19001-2016/ISO9001:2015
SCOPE OF CERTIFICATION/REGISTRATION

Production and sales of testing machines.
(Qualifications-based operations requiring qualification permits)

This certificate is made valid when used with certification scopes and the requirements of applicable
laws and regulations. These requirements include, but are not limited to, administrative permits,
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Subject to operation conditions in requirements conformity with Quality Management System,
This Certificate is valid for a period of three years only.
Date from: January.21th, 2021 To: January.20th, 2024
The effectiveness of this Certificate shall be Validated by periodic surveillance audit of CTC for maintenance.
**The time limit of the certificate is to January.11th, 2022, please conducting
the surveillance or re-certification assessment before January.11th, 2022.**
If the assessment is overdue, the certificate is invalid.

Signed for and on behalf of: 

EN
CNCA-R-2018-446

The certificate information is validity on: Our company Web: www.guoyangworld.com ; CNCA official web: cx.cnca.cn
QINGDAO CTC INSPECTION & CERTIFICATION CO.,LTD.
E-mail: GUOYANGROUP@163.COM



MACHINERY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive Annex VIII has been taken as references for these processes.

Company Name : **JINAN HENSGRAND INSTRUMENT CO., LTD.**
Company Address : NO.4915, WEST JINGSHI ROAD, JINAN, CHINA
Related Directives and Annex : **2006/42/EC Machinery Directive/Annex VIII**
Related Standards : **EN ISO 12100:2010, EN 60204-1:2018**
Product Name : **TESTING MACHINE**
Report No and Date : TCF-JHIC230128-MD
Product Brand/Model/Type : WDS-1, WDS-2, WDS-3, WDS-5, WDS-10, WDS-20, WDS-30, WDS-50, WDS-100, WDS-200, WDS-300, WDS-500, WDW-1, WDW-2, WDW-3, WDW-5, WDW-10, WDW-20, WDW-30, WDW-50, WDW-100, WDW-200, WDW-300, WDW-500, WDW-600, WDW-1000, WE-300, WE-600, WE-1000, WE-2000, WEW-300, WEW-600, WEW-1000, WEW-2000, WAW-300, WAW-600, WAW-1000, WAW-2000, WAW-3000, WAW-5000, WAW-6000, LAW-1000, JB-300B, JBS-300, JBW-300, JB-500B, JBS-500, JBW-500, JBW-750, CST-50, VU-2Y, VU-1S, DWC-40, DWC-60, DWC-80, DWC-100, DWC-196, YES-2000, YES-300, YAW-1000, YAW-300, YAW-2000, YAW-3000, YAW-5000, NDS-200, NDS-500, NDS-1000, NDS-2000, NDW-200, NDW-500, NDW-1000, NDW-2000, NDW-3000, NDW-5000, NDW-10000, HEZ-3, HEZ-6, HEZ-10, JWJ-10, TLS, TLW, HST-P50, HST-P100, HST-P200, HST-P300, RDJ, NDT, DWTT, GBW-60, GW-50, HST, XNR-400

Certificate Number : **M.2023.206.C81366**
Initial Assessment Date : 31.01.2023
Registration Date : 01.02.2023
Reissue Date/No : -
Expiry Date : **31.01.2028**


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HST GROUP Co., LTD.

Jinan Hensgrand Instrument Co., Ltd.

NO. 4915, West Jingshi Road, Jinan 250012, PR CHINA.

Tel/WhatsApp: +86-15910081986

www.hssdgroup.com - e-mail: admin@hssdtest.com