

HST WEW-100D 300kN Computer Display Hydraulic Universal Testing Machine



Application:

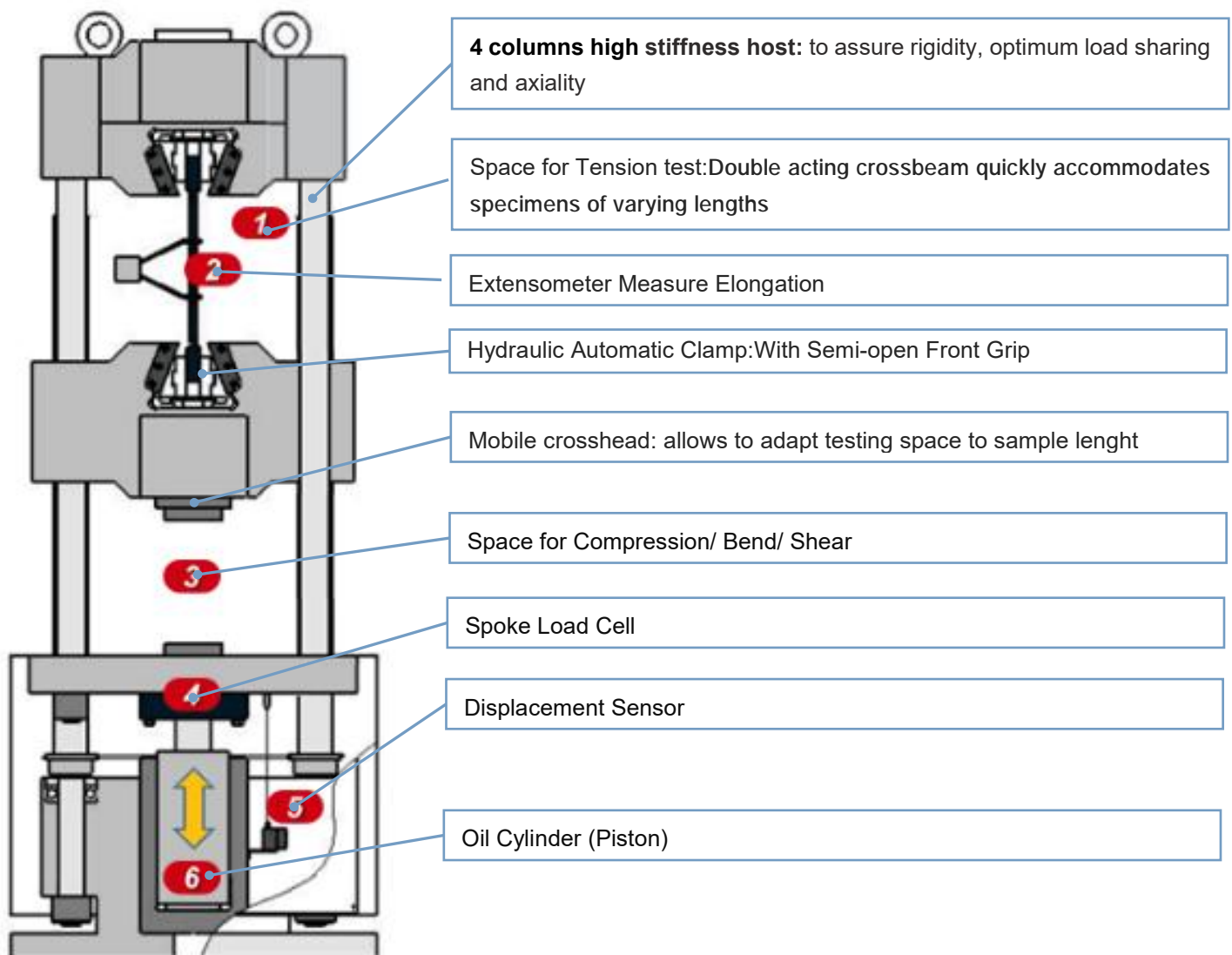
WEW Series Computer-Controlled Servo-hydraulic Universal Testing Machine is suitable to test various metallic & non-metallic materials for tension, compression, bending and shearing testing.

Types of specimens and materials:

- Metals: wire, rod, tube, strip, plate, strip
- Fasteners: tensile, proof, single and double shear
- Construction materials: reinforcement bar, wire, mesh, folding, compression of concrete and components., etc.

Applied Standards:

- Load meets or exceeds the following standards: ASTM E4, ISO7500-1, EN 10002-2, BS1610, DIN 51221.
- Strain measurement meets or exceeds the following standards: ASTM E83, ISO 9513, BS 3846 and EN 10002-4.

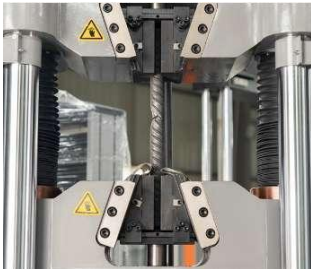
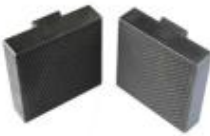


Specifications:

Product Model	HST WEW-100D
Number of columns	6 (4 columns and 2 screws)
Load Capacity	100kN
Load Capacity	10000kgf
Calibration standard	ISO 7500
Calibration standard	Class 1
Testing load Accuracy	±1%
Load Measuring Range	2%~100%FS
Load Resolution	1/500,000 of FS
Manual displacement control speed rang	0~300mm/min
Displacement measurement resolution	0.01mm
Displacement measurement accuracy	Better than $\leq \pm 0.5\%$
Deformation measuring range	1%~100%FS
Deformation resolution	1/500000FS of the max deformation
Deformation accuracy	$\leq \pm 0.5\%$ of Indicating Value
Overload Protection	$\geq 5\%$ of Full Range
Main frame parameters	
Max. Tensile Testing Space	780mm
Max. Compression Testing Space	550mm
Column center space	485mm
Column diameter	Φ60mm
Max. Piston stroke	200mm
Piston diameter	Φ130mm
Loading rate range	0.02%-2%FS
Max speed of piston moving without load	300 mm/min
Cross beam adjustment for max speed	About 220 mm/min
Cross beam moving motor power	0.4KW
Operating Temperature	0 to +38° C (+32 to +100° F)
Humidity Range	10% to 90% non-condensing
Hydraulic servo oil source parameters	

Max. pressure	25MPa
Max. oil pump flow	4 L/min
Oil filter accuracy	10um
Main oil pump motor power	2.2KW
Oil tank capacity	50L
Accessory parameters	
Clamping mode	Built-in wedge type hydraulic automatic clamping
Overall dimensions of the jaws	90x90mm
Round specimen clamping range	Φ6-13mm, Φ13-26mm, Optional:Φ26-40mm;
Flat specimen clamping thickness	0-20mm;Optional:20-40mm
Compression plate dimensions	Φ160mm
Machine parameter	
Load frame dimension	745x685x1900mm
Oil power dimension	1000x600x780mm
Total weight	1450kg
Power supply	2.75kW, 3 phase, AC380V±10%, 50Hz
NOTE: 1. Extra wide and/or extra height frames are available. 2. Power supply system is completely customizable. 3. Specifications are subject to change without notice.	

Machine Accessories:

NO.	Part Name	Picture	Part Name	Qty.
1. Load frame				
1.1	universal testing machine host		100KN, Six columns (4 columns and 2 screws), High intensity testing machine structure and crosshead, high stiffness to assure accuracy;	1set
1.2	Hydraulic automatic Wedge tensile grip		Hydraulic wedge clamps for easier loading and allowing rapid loading and unloading of specimens.	1set
			Round: $\Phi 6-13, \Phi 13-\Phi 26\text{mm}$; Optional: $\Phi 26-\Phi 40\text{mm}$	1set /each
			Flat: 0-20mm; Optional: 20-40mm Width of Flat Specimens: 90x90mm	
1.3	Compression test attachment		Dimension: $\Phi 160\text{ mm}$	1set
1.4	Bending test attachment		Optional, Bending span: 450mm; Roller diameter (mm): $\Phi 30\text{ mm}$ Max width of support roll: 160mm	1set
2. Oil power system				
2.1	Servo hydraulic station		Max. Pressure: 25MPa Max. Flow: 4L/min Hydraulic oil tank: 50L	1set

2.2	Main oil pump		ITALY "MARZOCCHI" pump	1set
2.3	Main motor		WNM, 2.2KW	1set
2.4	Plug valve		The US SUN Valve effectively reduces The probability of oil Leakage in the hydraulic System and improves the Stability of the hydraulic system	1suit
2.5	Pressure gage		system pressure and clamping pressure	2 set
2.6	Magnetic exchange valve		Huade hydraulic 24V	3 set
2.7	Oil filter		ZU-H10×20,Heidecker hydraulics	1suit
2.8	High-pressure oil pipe			5suit
3. Measurement and control part				
3.1	Load sensor		Class 1, Pressure cell Optional Spoke sensor	1set
3.2	Digital displacement sensor		10000 wire, for the best positioning and measuring accuracy.	1set
3.3	Electronic Extensometer		Gauge Length: 50mm; Deformation: 10mm	1set

3.4	Controller		Force, displacement and deformation	1set
3.5	Hand-held controller		Can control the rise and fall of moving beams and cylinders, clamping and loosening of jaws	1set
3.6	Measurement and Control Software		WEW Test software Standard English, Can optional English,Russia,Turkish, Spanish.,etc	1set
3.7	Computer		HP	1set
3.8	Printer		HP	1set
4. Other accessories				
4.1	L-shaped anchor bolt		Include the nut	4suit
4.2	Spare sealing element		Compound gasket,OR-GASKET-1SET	1suit
5. Documents list				
5.1	Packing list			1suit
5.2	Certificate of calibration			1suit
5.3	Machine operating instruction			1suit
5.4	Software instruction manual			1suit
5.5	ISO and CE Certificate			

Other tensile grip (optional)



➤Grip of Chain



➤Grip of Chain



➤Grip for Fasteners (Bolt/Stud/Nut)



➤Grip for Welded fabric

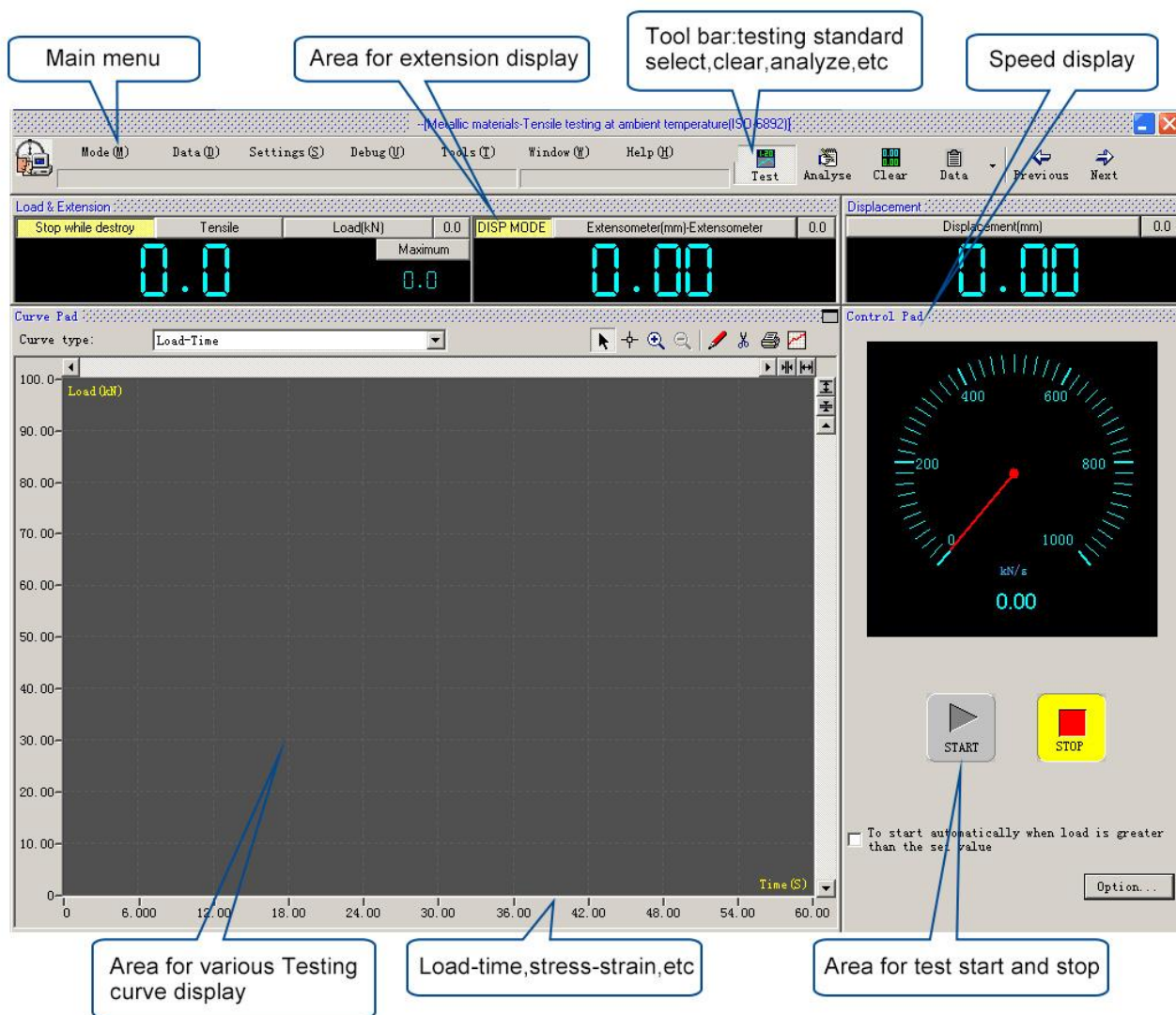
Test area for compression /flexural / bending/shear (optional)



In the lower test area, various testing devices may be coupled, such as compression plates, or test devices for flexural, bending, punching, etc.

Software function and features:

- Defined function: according to different types of users, different material properties, different test standards, different languages, flexible setting the test program to meet the test requirements.
- Input Function: Entry specimen parameters before the test, you can single input sample parameter, you can also batch input sample parameters, you can modify the sample parameters before the test, the specimen parameters can be modified after the test, fully satisfy your operating habits.
- In metal tensile test, Can automatically obtain F_{el} 、 F_{eh} 、 F_p 、 F_t 、 F_m 、 R_{el} 、 R_{eh} 、 R_p 、 R_t 、 A_{gt} 、 Z 、 A 、 R_m , etc, Also can carry on the artificial recognition of for F_{el} , F_m , etc. and print the results accordingly. Can print different content of the report and curve according to the need.
- Testing standard: The program use the open database structure, integrating national,ISO、ASTM、JIS、DIN and other test method, also can customize as request;
- Can configure multiple sets of force sensor and extensometer, the user can switch at any time according to need.
- Data processing query functions: fully equipped data query function, print function, the export function to ensure the accuracy of the test data, reliability, real embody and reflect the nature and characteristics of the material test data.
- Curve point traversal functions: Through the mouse click on the curve of force and deformation values, to obtain various parameters of each point.
- Curve selection function: force-time, deformation-time, force-deformation, force-displacement four curves can be selected according the necessity to display and print; and we can switch observation at any time, any zoom (zoom in or zoom out), move it horizontally or vertically, and Auto saving: adopting the the database management way, the test data and curve automatically saved after the test.
- Automatic analysis: Finish test, the system automatically analysis, statistical test results.
- Test report: According to user required format to compile reports and can print bulk data



➤Software Main Interface

The screenshot shows the 'User Login' dialog box. It contains the following fields and buttons:

- Login:**
 - User:** A dropdown menu with 'Expert User' selected.
 - Passport:** A list box with 'Expert User' selected, and other options: 'Supper User', 'Development User'.
- Change Passport:**
 - New:** A text input field.
 - Again:** A text input field.
- Buttons:**
 - Restore Factory Default:** A button with a circular arrow icon.

➤Multilevel authorization access

HST Tensile test report of metal at room temperature

Test number : YS-2019-GJYC-013

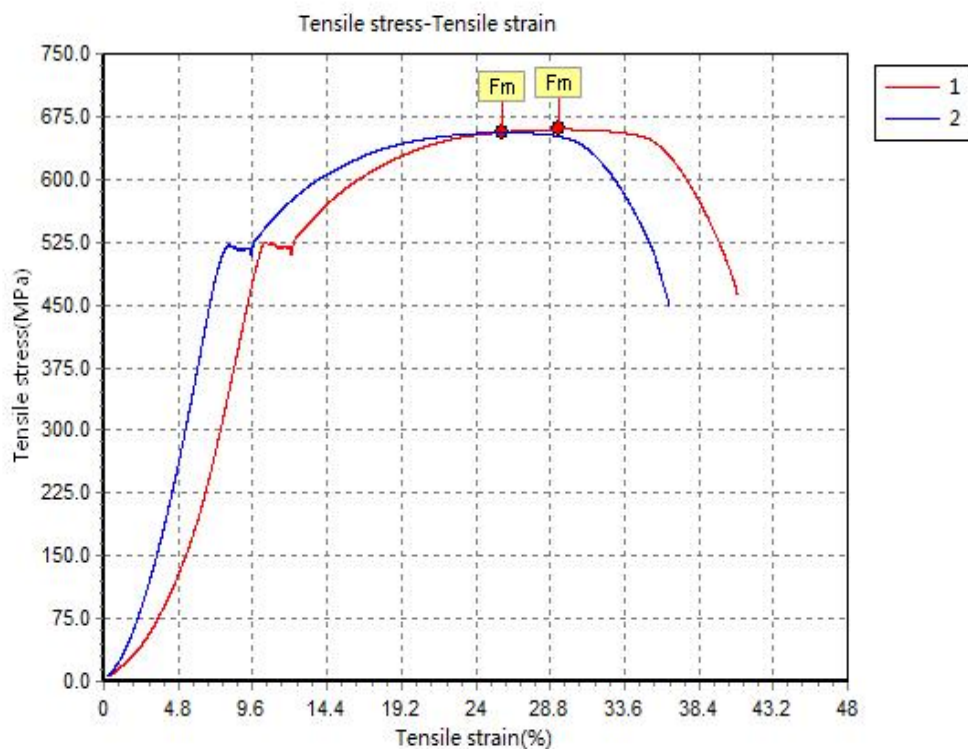
Test Date: 2019/12/26 8:43

Test unit		Speed (mm/min)	20
Brand name	HST	Temperature	25° C
Size (mm)	32	Area(mm^2)	804.25

Result data

Serial number	Maximum load (kN)	Tensile strength (MPa)	Upper yield load (kN)	Upper yield strength (MPa)	Lower yield load (kN)	Lower yield strength (MPa)	Agt (%)
1	530.53	660	422.32	525	410.04	510	35
2	527.44	656	419.28	521	408.45	508	36

Test Standard



Remarks			
Person in charge		To examine	
Test one	JINGXU LI	Date of printing	2022/2/15 17:57

Why Choose -Fast delivery time-within 7 days

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With six international offices, a network of over 100 distributors, and a dedicated team of highly experienced product specialists, support is always close at hand. We have the global reach to give you access to the relevant technical expertise, pre-and post-sales technical support and training to ensure you get maximum lifetime value from your investment, wherever you are in the world.

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Quality Standards & Accreditation

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, scopes of qualifications, and CCC requirements.
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:  

ENCA 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, DWIT, GBW-60, GW-50, HST, XNR-400**

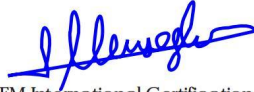
Certificate Number : **M.2023.206.C81366**

Initial Assessment Date : **31.01.2023**

Registration Date : **01.02.2023**

Reissue Date/No : **-**

Expiry Date : **31.01.2028**


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