

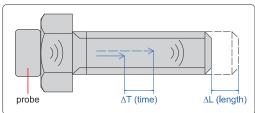
ELECTROMAGNETIC ULTRASONIC BOLT AXIAL FORCE TESTER PART NO. UFT-Q100

PROBE CAN BE CUSTOMIZED ACCORDING TO SPECIAL BOLT SPECIFICATION

PROBE CAN BE CUSTOMIZED ACCORDING
TO WORKING TEMPERATURE

DATA OUTPUT





measurement principle

- Primarily applied in wind power, oil and petrochemical, nuclear power, hydrogen energy, heavy industry, and other sectors
- Perform quality inspections, risk assessments, inspection-based maintenance, leak detection and etc. on flange bolts
- The dual-wave method measurement principle for transverse and longitudinal waves enables direct measurement of the absolute axial force of in-service bolts without requiring measurement of the bolt's initial length
- Unlike piezoelectric ultrasound, no grinding, no coupling, no patching, making operation simple and convenient
- Enter bolt specifications for quick measurement of bolt axial force
- Precise calibration for multiple identical bolts (sample calibration service available), automatically fitting calibration coefficients to accurately measure bolt axial force
- Temperature sensor (included) enables automatic temperature compensation
- Establish a calibration database for different bolt grades for immediate access
- Automatically save data and export data in Excel, radar charts and statistical bar charts



application

MAIN UNIT SPECIFICATION

Measurement method	electromagnetic ultrasonic single-wave and dual-wave measurement methods				
Applicable bolt range	M8~M42, length less than 19.69ft				
Applicable bolt surface	front end is flat, rear end can adapt to different types				
Accuracy of axial force	±5% (when calibrated precisely)				
Manual testing speed	4~10s/piece				
Measurement mode	automatic/manual				
Working temperature	ambient temperature				
Communication method	built-in wireless Wi-Fi/wired ethernet				
Storage capacity	ge capacity 120GB				
Power supply rechargeable lithium battery					
Dimension (L×W×H)	4.92×2.56×7.87"				
Weight	2.75lb				



temperature compensation sensor (included)

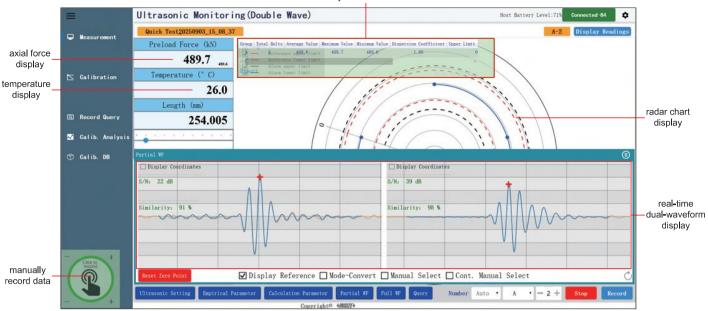
PROBE (INCLUDED) SPECIFICATION

Part No.	UFT-Q100-P1	UFT-Q100-P2				
Differentiation	different sensitivities to transverse and longitudinal waves					
Applicable situation	when longitudinal wave is weak	when transverse wave distortion is severe				
Cable specification	.197" DIA×59"					
Dimension	1.457×1.457×1.063"					
Weight	.595 l b					



electromagnetic ultrasonic probe (included)

statistical analysis of measurement results



measuring software (included)



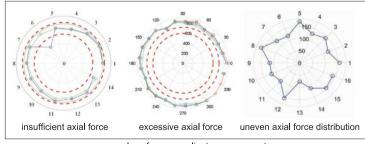
precise calibration by using hydraulic universal testing machine

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simulation calibration by loading the database

STANDARD DELIVERY

Main unit	1 pc
Tablet computer	1 pc
Measuring software	1 set
Electromagnetic ultrasonic probe UFT-Q100-P1	1 pc
Electromagnetic ultrasonic probe UFT-Q100-P2	1 pc
Temperature compensation sensor	1 pc
Rechargeable lithium battery	2 pcs
Power adapter	1 pc



examples of non-compliant measurements

OPTIONAL ACCESSORY

Special bolt electromagnetic ultrasonic probe	customized according to test requirements
Hydraulic universal testing machine	UTM-H series