BPS INSTRUMENT
TESTING MACHINE

Deflected Tensile Testing Machine DTT-300 Series

ISO 15630-3

UNIVER DTT-300 Deflected Tensile Testing Machine is specially designed for defected tensile test on wire strand according to ISO 15630-3, this test method is to determine the reduction coefficient of the maximum force in uniaxial tension due to a deviation of 20degree around a specified mandrel.

This machine is powered with a servo-hydraulic power pack which controlled through software where testing curves and testing results are automatically obtained, it adopts interchangeable triple wedge anchorage for wire strand of different diameter, this machine also features combined load cell calibration set-up where can get load cell easily calibrated right on the machine

ISO 15630-3: Steel for the reinforcement and prestressing of concrete – Part 11. Deflected tensile test

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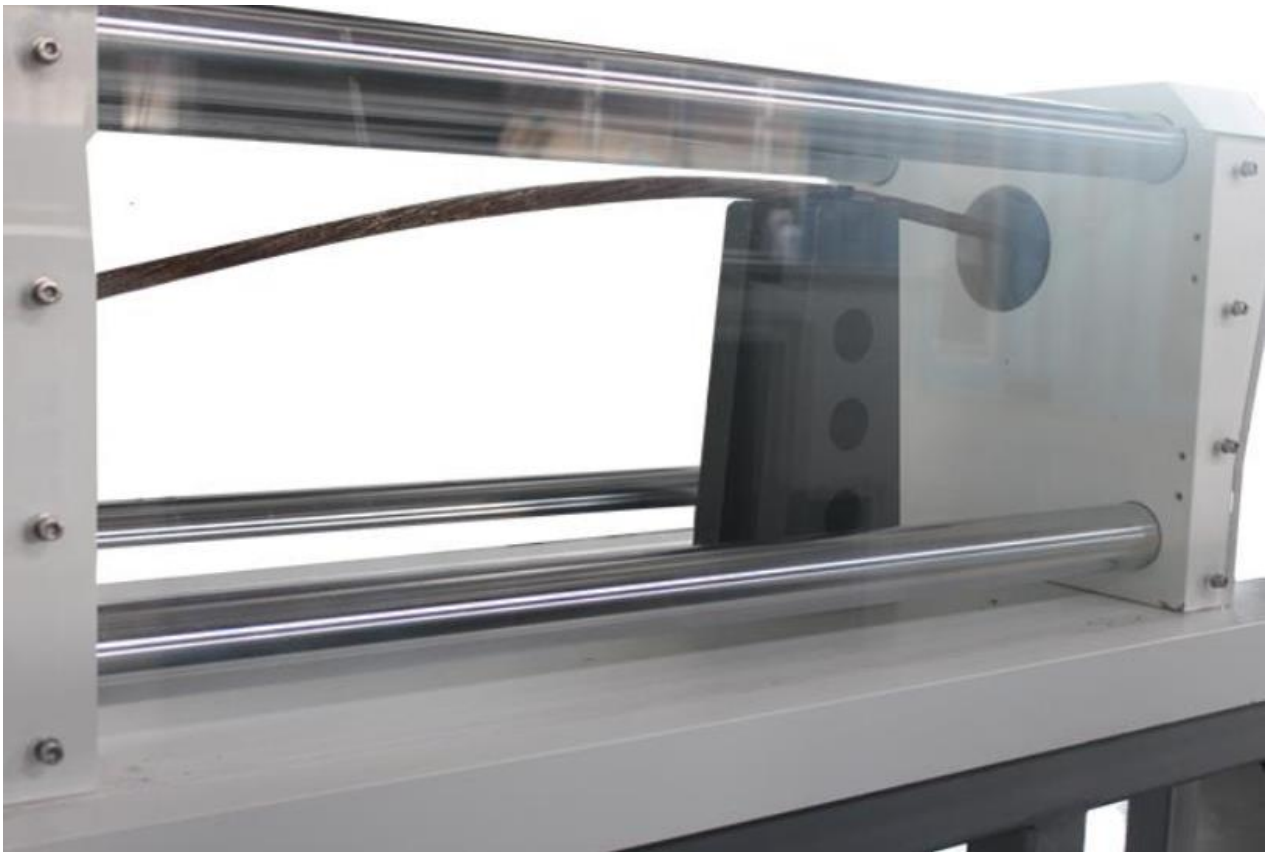
Outstanding Features:

- ✓ Real-time display Load/stress versus time/displacement/strain curves
- ✓ Automatic calculate corresponding value of wire strand under deflected tensile test.
- ✓ Servo-controlled hydraulic system ensures the high precision load/displacement/strain close-loop control as well as low noise.
- ✓ Interchangeable mandrels made of too steel in high hardness
- ✓ User configurable test methods and customizable report template.
- ✓ Self-alignment design on specimen anchorage to ensure the high accuracy
- ✓ Transparent window ensure operation safety without sacrificing visibility
- ✓ Patent calibration system is mounted on machine to calibrate not only the load cell but also the whole system without disassembly the load cell from machine.



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Mandrel

Interchangeable mandrels made of too steel in high hardness

Self-alignment anchorage

Triple wedge housing with spherical head
for Self-alignment to ensure the test piece perpendicular to the plane of bearing

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Specifications

Model	DTT-300
Load Capacity	300kN
Measuring Range	12-300kN
Load Resolution	15N
Load Accuracy	±0.5%
Position Accuracy	±0.5%
Horizontal Span	1850mm.
Loading Stroke	200mm.
Loading Speed	100-5000N/S
Stress Speed	0-60MPa/s
Temperature Accuracy	℃

Specimen Diameters	
PC Strand	Ø12.7, Ø15.2, Ø15.7, Ø17.8 mm.
Mandrel Diameters	
Mandrels	Ø40, Ø49, Ø59
Machine Dimensions	1800 x 800 x 1300 mm.
Weight	1000 kg

General Specifications

Load Measurement Accuracy:
±0.5% of reading to 1/50 of load weighing system capacity meets or exceeds the requirements of the following standards: ISO 7500-1, EN 10002-2, ASTM E4, and JIS B7721.

Speed Accuracy:
Set speed＜0.05% Max. Speed: ±1% Set speed ≥0.05% Max. speed:±0.5%
Position measurement accuracy:
±0.01% of reading or 0.0001 mm, whichever is greater

Power supply:
Three phase 380VAC, 50-60 Hz, Power must be free of spikes and surges exceeding 10% of the nominal voltage.

Humidity Range:
10% to 90% non-condensing,

Storage Temperature:
-40 to +66°C (-40 to +150°F)

Note:
1. Power supply system is completely customizable.
2. Specifications are subject to change without notice.

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