

# DEM TECH

## HALF AUTOMATED DEMULSIBILITY TESTER



### STANDARDS

ASTM D1401, ISO 6614, IP412 and related methods.

### SCOPE

This test method covers measurement of the ability of petroleum oils or synthetic fluids to separate from water. Although developed specifically for steam-turbine oils having viscosities of 28.8mm<sup>2</sup>/s to 90 mm<sup>2</sup>/s at 40°C, this test method may be used to test oils of other types having various viscosities and synthetic fluids at other test temperatures.

# « DEM TECH, HALF AUTOMATED DEMULSIBILITY TESTER »

## TECHNICAL FEATURES

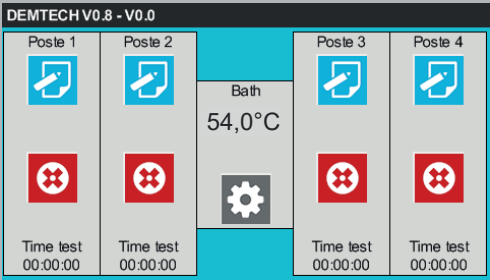
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- Half automated
- Temperature range from 30°C to 99°C ( $\pm 0,1^{\circ}\text{C}$ )
- Two preset programs (54°C or 82°C), **high stability temperature**
- **Auto centering**
- Temperature measurement with PT 100 **sealed probe** (work certificate, calibration certificate in 2 points)
- Can be set in °C or °F
- 4 measurement stations (+ 2 preheat spots)
- Motorized lifting system for paddle
- **Automatic paddle positioning** (6mm between the bottom of the cylinder and the paddle)
- Adjustable stirring speed up between 1 000 and 2 000 rpm (default value: 1500 rpm  $\pm 15$ )
- Regulated stirring speed by electronic controller
- Carousel with indexation and locking system
- **Start & Stop button**
- Large viewing window
- Non-reflective enhanced LED lighting



\*Photos are non-contractual - they may differ from actual products.

# SOFTWARE



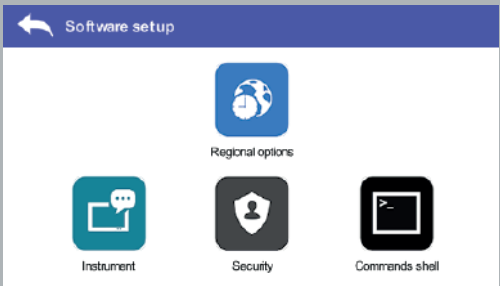
- Technical access protected by password
- 4 positions overview
- Integrated timer: audible and visual alarm
- Temperature calibration menu
- User friendly
- Software update by USB port

# DISPLAY



- 4,3” resistive color touchscreen (tech range)
- LED lighting for better reading conditions
- Operable with gloves
- Low consumption

# SAFETY FEATURES



- No access to rotating parts during the test
- Low level detection
- Fuse protection for peripherals components
- Double sided (no burning risks)
- Protective screen for display
- Over temperature protection (hardware)

# OPTIONS

- Cleaning support for test tubes (6 positions)
- Tachometer for speed verification
- Electronic thermometer with optional ISO 17025 certificate
- Annual preventive maintenance with calibration certificate
- Bath fluid
- Protective shield for lifting system on request
- Anti algae treatment

# SCOPE OF DELIVERY

42500

Dem Tech is an half automated tester that can be used for specification of new oils and monitoring of in-service oils.

**The DEM Tech is delivered with:**

- 1 stirring paddle with its certificate
- 4 test cylinders compliant with ASTM D1401
- 6 stoppers
- 1 power cable
- 1 quick start guide
- 1 USB stick including user manual
- 1 rubber spatula
- 1 conformity leaflet
- 1 pc 6mm spacer
- 1 thermometer
- 1 stylus

**Installation requirements**

- Dimensions : W 50 x L 56 X H 102
- Weight (with water): 47.2kg / tare weight : 19kg
- Bath : 20L

# SUMMARY

Preset programs	54°C - 82°C	Power supply	230V - 50/60 Hertz (±10%)
Stability	0,1 °C		8,5A / 2 000 Watts
Temperature display	°C or °F	Dimensions	469 x 367 x 969mm
Temperature measurement	Pt 100 sealed probe		



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