

# DSR 500

A new vision on  
your measurements



The rheometer with imposed shear rate equipped with a 7" touch screen to display the curves directly. And with direct report editing on a desktop printer, measuring viscosity or yield point has never been so easy!

## FEATURES AND BENEFITS

- Direct curve on display.
- Shear rate and speed control.
- Ramp programming.
- Direct analysis with regressions.
- Direct control of temperature unit.
- Huge viscosity range.
- Programming and recording method.
- Direct measure with time to stop.
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Integrated temperature probe.
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.

## WHAT'S INCLUDED WITH DEVICE ?

(according to part number)

- 1 Stand for DSR500.
- 1 Touch screen stylus.
- 1 User manual.
- 1 Calibration and checking certificate.
- 1 Microfiber cloth.

## AVAILABLE INSTRUMENT

Reference	Designation	Viscosity range (mPa.s)
N500100	DSR 500 RHEOMETER	1 to 780M*

M for million / \* According to measuring system (p72-79). Not included.

## SPECIFICATIONS

**Type of instrument**

Rotating springless rheometer with 7" Touch screen

**Rotation speeds**

Unlimited number of speeds between 0.3 and 1500 rpm

**Torque range**

From 0.05 to 30 mNm

**Temperature Probe**

Equipped with a PT100 sensor which indicates temperatures between -50°C to +300°C

**Accuracy**

+/- 1 % of the full scale

**Repeatability**

+/- 0,2 %

**Display**

Viscosity (cP/Poises or mPa.s / Pa.s)  
Speed – Shear rate – Torque – % - Shear stress - Time – Temperature

**Norms**

**ASTM** : D115 ; D789 ; D1076 ; D1084 ; D1337 ; D1338 ; D1417 ; D1439 ; D1824 ; D2196 ; D2243 ; D2364 ; D2556 ; D3288 ; D3468 ; D3716 ; D3730 ; D3794 ; D4016 ; D4143 ; D4878 ; D4889 ; D5324 ; D5400 ; D6279 ; D6577 ; D7394 ; D8020 ; E2975 ; F1607 ; **BS** 5350 ; **DIN** 2555 ; 3219 ; 52007-1 ; 53019-1 ; 54453 ; **EN** 302-7 ; 2555 ; 3219 ; 10301 ; 12092 ; 12802 ; 15425 ; 15564 ; **IOCCC** 2000 ; **ISO** 1652 ; 2555 ; 2884-2 ; 3219 ; 10364-12

**Languages**

French/English/Turkish/German

**Supply voltage**

90-240 VAC 50/60 Hz

**Analog output**

4 – 20 mA

**PC connections**

RS232 Port and USB

**Printer connection**

USB Host Port -  
Compatible PCL/5

**What benefits are there for you?**

Memorize your flow ramps, draw your curves and calculate your rheological parameters directly without computer (plastic viscosity, flow limit and rheological models: Newton, Bingham, Casson, and Ostwald). Edit your measurement reports directly on printer.

**Dimensions and weight**

Head: D160 x H270 x W200 mm  
Aluminium stand: L280 x W200 x H30 mm  
Stainless steel rod: Length 500 mm  
Weight: 6.7 kg

COMPATIBLES  
MEASURING SYSTEMS

**MS-RV** (p75), **MS-LV** (p75), **MS-BV** (p76),  
**MS-VANES** (p77), **MS-KREBS** (p77), **MS-SV** (p79),  
**MS-ULV** (p78), **MS-DIN** (p72), **MS-R** (p74).

COMPATIBLES  
TEMPERATURE CONTROLS

**EVA LR** (p60), **EVA MS DIN** (p58),  
**RT-1 PLUS** (p61), **EVA MS-R** (p59).

## OPTIONS &amp; ACCESSORIES



- Carrying case (p68).
- HELIPRO stand (p66).
- Small volume package (p67).
- THERMOCELL package (p61).
- Barcode reader with stand and cable (p68).
- Bayonet spindle rack (p69).
- Touch screen protector (p68).
- Viscosity standards oil (p69).
- Dymo printer (p68).
- RheoTex software (p64-65).
- External temperature probe -50°C to +300°C (p69).