

# DSR 500

/ A new vision on  
your measurements /



## FEATURES AND BENEFITS

- Direct curve on display.
- Shear rate and speed control.
- Constant, Multistep or ramp method.
- Direct analysis with regressions.
- Direct control of temperature unit.
- Huge viscosity range.
- Inbuilt software for programming.
- 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.
- LIMS function.
- QC limits function.

## AVAILABLE INSTRUMENT

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

M for million / \* According to measuring system (p76-83). Not included.

## WHAT'S INCLUDED WITH DEVICE ? *(according to part number)*

1 Integrated temperature probe / 1 Standard stand (p70) / 1 Touch screen stylus / 1 User manual /  
1 Calibration and checking certificate / 1 Microfiber cloth.

## SPECIFICATIONS

### COMPATIBLES MEASURING SYSTEMS

MS-RV (p79), MS-LV (p79), MS-BV (p80),  
MS-VANES (p81), MS-KREBS (p81), MS-SV  
(p83), MS-ULV (p82), MS-DIN (p76), MS-R (p78).

### COMPATIBLES TEMPERATURE CONTROLS

EVA LR (p62), EVA MS DIN (p60),  
RT-1 PLUS (p63), EVA MS-R (p61).

### OPTIONS & ACCESSORIES

- Carrying case (p70, only measuring head).
- HELIPRO stand (p66).
- Small volume package (p68-69).
- THERMOCELL package (p67).
- Barcode reader (p70).
- Bayonet spindle rack (p71).
- Touch screen protector (p70).
- Viscosity standards oil (p71).
- Dymo printer (p70).
- RheoTex software (p72-73).
- External temperature probe (p71).
- GuardLeg (p71).

#### 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 (% - mNm) –  
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/Italian

#### Supply voltage

90-240 VAC 50/60 Hz

#### Analog output

4 – 20 mA

#### PC connections

RS232, USB and  
Ethernet

#### 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