

DSR 500 CP 4000 PLUS

A rheometer
to meet
your requirements



With its motorized lift and built-in temperature control unit, this new cone-plate rheometer optimizes your measurements.

FEATURES AND BENEFITS

- Automatic lift for gap.
- Quick attachment with AC265 coupling.
- 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 Temperature unit with 70mm bottom plate.
- 1 Touch screen stylus.
- 1 User manual.
- 1 Calibration and checking certificate.
- 1 Microfiber cloth.

AVAILABLE INSTRUMENTS

Reference	Designation	Viscosity range (mPa.s)
N500400	DSR 500 CP4000 PLUS RHEOMETER AIR PELTIER (+10°C to +70°C)	1 to 63,6M (according to spindles MS CP (p81))
N500401	DSR 500 CP4000 PLUS RHEOMETER AIR PELTIER (+10°C to +70°C) WITH PROGRAMMER*	
N500410	DSR 500 CP4000 PLUS RHEOMETER AIR PELTIER (0°C to +150°C)	
N500411	DSR 500 CP4000 PLUS RHEOMETER AIR PELTIER (0°C to +150°C) WITH PROGRAMMER*	
N500420	DSR 500 CP4000 PLUS RHEOMETER LIQUID PELTIER** (-20°C to +100°C)	
N500421	DSR 500 CP4000 PLUS RHEOMETER LIQUID PELTIER** (-20°C to +100°C) WITH PROGRAMMER*	
N500430	DSR 500 CP4000 PLUS RHEOMETER (Room T°C to +300°C)	
N500431	DSR 500 CP4000 PLUS RHEOMETER (Room T°C to +300°C) WITH PROGRAMMER*	
N500426	DSR 500 CP4000 PLUS RHEOMETER + CYL*** AIR PELTIER (+10°C to +70°C) WITH PROGRAMMER*	
N500427	DSR 500 CP4000 PLUS RHEOMETER + CYL*** AIR PELTIER (+10°C to +70°C)	

M for million / * Allow temperature setting by measuring head or RheoTex software. / ** Need a circulating water bath. Not included. / *** Allow using of measuring system MS DIN 11S, 13S, 22S, 33S (p72), MS VANE (according to dimensions p77) and MS SV (p79).

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 : D4287 ; BS 3900 ; DIN 3219 ; 52007-1 ; 53019-1 ; 54453 ; ISO 2884; 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.

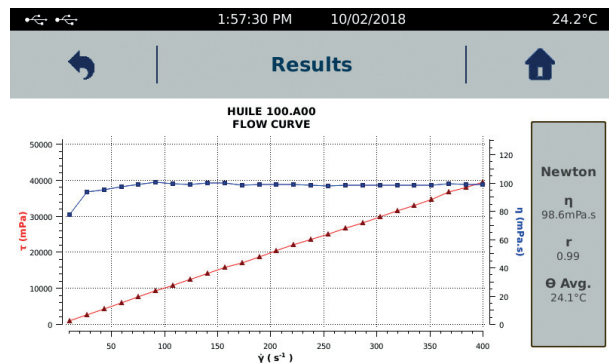
Dimensions and weight

D610 x H700 x W340 mm

Weight: 22 kg

COMPATIBLES MEASURING SYSTEMS

MS-CP (p81).



OPTIONS & ACCESSORIES



- Barcode reader with stand and cable (p68).
- Touch screen protector (p68).
- Viscosity standards oil (p69).
- Dymo printer (p68).
- RheoTex software (p64-65).
- Protection cover (Ref. 121019).