

Dynamic contact angle measurement, Powder wettability analysis

DyneMaster **DY-700/500**



The DY-500 and DY-700 feature the same body design

Features:

- One-click fully automated operation
- Jacket-type sample stage with built-in stirrer function
- Built-in temperature sensor

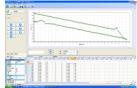
Measuring methods:

- Surface and interfacial tension using the plate and ring method
- Dynamic contact angle of solids using the plate method
- Powder contact angle using the Washburn method
- Lamella length using the ring method
- Liquid and solid density
- Sedimentation behavior
- Evaporation rate

Typical applications:

- Dynamic contact angle: Wetting and adhesion properties of coatings
- Powder contact angle: Wetting properties of powders, inks and paints
- ♦ Lamella length: Foaming stability of coating agents

rate and sedimentation behavior.



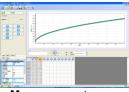
Dynamic Contact Angle Measurement

High-end surface tensiometers for the measurement of

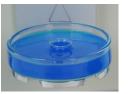
dynamic contact angle and powder contact angle, in

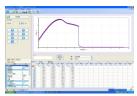
addition to surface tension and interfacial tension, lamella length, liquid and solid density, evaporation





Powder Contact Angle Measurement





Lamella Length Measurement

Specifications:

| | DY-700 | DY-500 |
|-------------------------|--|--------------------------------|
| Measuring methods | Surface/interfacial tension Dynamic contact angle Powder contact angle & wetting speed Lamella length Liquid and solid density Sedimentation behavior Evaporation rate | |
| Measuring range | 0.01~100 mN/m | |
| Precision ¹⁾ | 0.02 mN/m | 0.2 mN/m |
| Resolution | 0.01 mN/m | |
| Calibration method | By built-in calibration system | By external calibration weight |
| Stage speed and stroke | 0.002~50 mm/s, 50mm | |
| Measuring probes | Platinum (Wilhelmy) plate, Platinum (Du Noüy) ring | |
| Optional measuring kits | Dynamic contact angle, Powder contact angle, Liquid & Solid density, Sedimentation behavior, Evaporation rate | |
| Measuring temperature | Jacket type: +5 to +90°C, Heater type: Ambient to +150°C | |
| External dimensions | 295(W)×415(D)×452(H)mm | 295(W)×415(D)×452(H)mm |
| Weight | About 23kg | About 20kg |
| Power supply | AC100-240~50/60Hz | |

¹⁾ Precision is the repeatability described in standard deviation based on manufacturer's standard

For detailed information please contact our sales partner or us directly at +81-48-483-2629 or at overseas-sales@face-kyowa.co.jp.

The specifications are subject to change without notice.



http://www.face-kyowa.com

Kyowa Interface Science Co., Ltd.

5-4-41 Nobitome, Niiza-City, Saitama 352-0011, Japan Tel.+81-48-483-2629 Fax.+81-48-483-2702 (ES) Equipements Scientifiques SA Département Bio-Tests & Industries

127 rue de Buzenval BP 26 - 92380 Garches Tél. 01 47 95 99 90 - Fax. 01 47 01 16 22 e-mail: bio@es-france.com - Site Web: www.es-france.com

1612