

ramé-hart Tilting Base

Manual and Automated Tilting Base Assembly Options

ramé-hart Manual Tilting Base (100-25-M)

The Manual Tilting Base permits fast and precise tilting of any current-generation ramé-hart goniometer between 0° to 90° and 0° and -90°. Since the entire instrument is tilted, the optical axis and baseline remain static allowing the user to measure the increase in the contact angle hysteresis as the tilt angle increases as well as the final roll-off angle. An upgrade kit is available (p/n 100-25-U) which will convert the manual tilting base to an automated one.

Automated Tilting Base (100-25-A)

The automated version works on the same principle but is completely software-driven using DROPimage Advanced v2.3 (or above). The tilting base control allows for precise control of the tilt angle and tilt speed. The experiment wizard also allows for the design of experiments which incorporate tilt as a parameter. The tool can also be operated manually with a knob.



Automated Tilting Base (100-25-A)

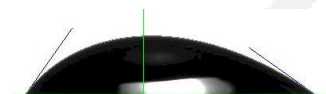
| Specifications | 100-25-M | 100-25-A |
|-----------------------|-------------------|-------------------|
| Supported Models | All ¹ | 250-F1, 500-F1 |
| Operational Mode | Manual | Auto (or Manual) |
| Resolution | 1° | 0.1° |
| Range of Motion | 180° ² | 180° ² |
| Speed | 0-5 deg/sec | 0-5 deg/sec |
| Powered | Hand-powered | Motor-driven |
| Gear Ratio | 512:1 | 512:1 |
| Upgrade Kit Available | Yes | n/a |

¹100-25-M supports all current-generation ramé-hart goniometer models. Custom mounting may be necessary for some legacy instruments.

² The instrument can be tilted between 0° and 90° and 0° and -90°.



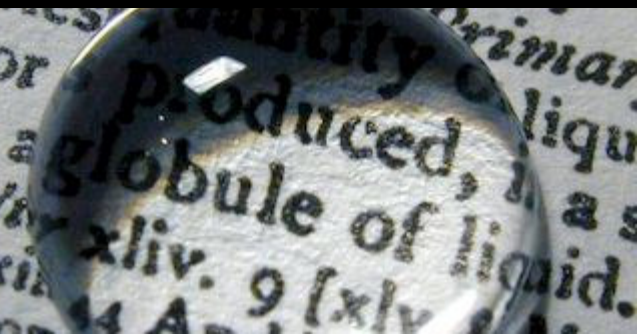
Tilting Base Control Dialog in DROPimage Advanced



Sample Drop on Tilting Base showing Advancing Angle (left side) and Receding Angle (right side)

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$$\sigma = F(d_s/d_e) d_e^2 g |\rho_1 - \rho_2|$$

