

# Automatic Cross Hatch Tester

## BGD 535

### Product Description

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The BGD 535 Automatic Cross Hatch Tester is an automated cross-cut instrument designed by our company according to the latest ISO 2409 and ASTM 3359 standards.

As an important method to evaluate the adhesion degree between coating and substrate, the cross-cut method has been widely used. Although the traditional manual cross-cut method is simple and convenient, the operator's cutting speed and coating cutting force cannot be accurately controlled, leading to differing test results among different testers. The latest ISO 2409-2019 standard clearly defines that in order to obtain uniform and consistent cutting, an automatic cross-hatch adhesion tester with motor drive shall be used as far as possible.



### Standards

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- ISO 2409-2019
- ASTM 3359

### Technical Specification

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- Adopts a 7-inch industrial-grade full-touch screen, allowing for the editing of relevant cutting parameters and clear and intuitive parameter display
- Cutting speed, cutting load, cutting intervals, and cutting number (landscape cuttings & portrait cuttings) can be easily set
- The load force in the cutting process is automatically compensated to ensure a constant load and consistent cutting depth of the coating
- Automatic clamping of test samples, making the process simple and convenient
- After completing a certain cutting direction, the working platform automatically and accurately rotates 90° to ensure that the cutting lines are completely crossed vertically, thus avoiding any inaccuracies caused by manual rotation
- Optional test tips ( $\Phi$  0.5mm,  $\Phi$  0.75mm,  $\Phi$  1mm) or other special tips for testing scratch resistance, scratch hardness, and writing effects, in accordance with Opel (GME 60280 / GMW14688), among others.

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### **Main Technical Parameters**

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- Test Plate Size: 150mm × 100mm × (0.5-20)mm
- Setting Range of Cutter Load: 5N ~ 50N
- Cutting Speed Setting Range: 5mm/s ~ 45mm/s
- Setting Range of Cutting Intervals: 0.5mm ~ 5mm
- Power Supply: 220V, 50/60Hz
- Max. Power: 80W
- Gross Weight: 30KG
- Instrument Dimension: 540mm × 335mm × 380mm (L × W × H)

**Ordering Information:** BGD 535 - Automatic Cross Hatch Tester

### **Accessoires**

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- BGD 535-P - Spare blade for BGD 535

### **Disclaimer**

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