

Single Impact Tester – esp-10

Chip Resistance Test

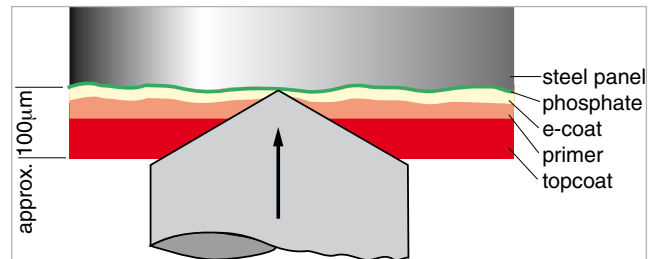
Resistance to chipping of multi-coat systems is an important factor in automotive finishing. To protect auto body parts, a multi-coat system is applied for corrosion and mechanical stress. The complete coating structure is decisive for its resistance to chipping. Changes to the coating formulation or application process can have an effect on the extent of the damage. The multi-impact test method – sharp-edged, chilled casting pieces are thrown against a test panel by compressed air – simulates the actual stress as closely as possible. However, the multi-impact test is difficult to reproduce. To improve the precision a single impact mechanism was developed.

The esp-10 was developed to test the resistance to chipping of multicoat systems. In addition, not only the size of the damaged area, but also its depth, i.e. the so-called “separation plane” can be evaluated.

- Portable instrument can be run in cooling chambers ($\geq -10\text{ }^{\circ}\text{C}$) and outside the laboratory
- Impact tool with wedge-shaped blade
- Compressed air of 3 bar accelerates the ball
- Testing instrument in accordance with BMW standard

Standards

DIN EN ISO 20567-2



Ordering Information

Cat. No.	Description
5200	esp-10

Comes complete with:

Single Impact Tester esp-10
Weight
Connection hose
Operating instructions

Technical Specifications

Connection for Compressed Air	R 1/8"
Compresses Air Supply	5 bar
Working Pressure	3 bar
Operational Life of Impact Tool	approx. 1000 impacts
Additional Weight	1750 g (3.9 lbs)
Dimensions	35 x 32 x 23 cm (13.8 x 12.6 x 9.1 in)
Net Weight	8.6 kg (19 lbs)
Shipping Weight	10 kg (22 lbs)

Ordering Information

Cat. No.	Description
5824	Precision Microscope
5205	Standard for esp-10
5201	esp-10 Impact Tool

Accessories

To check performance of instrument with Certificate