

Single Impact Tester

Chip Resistance Test

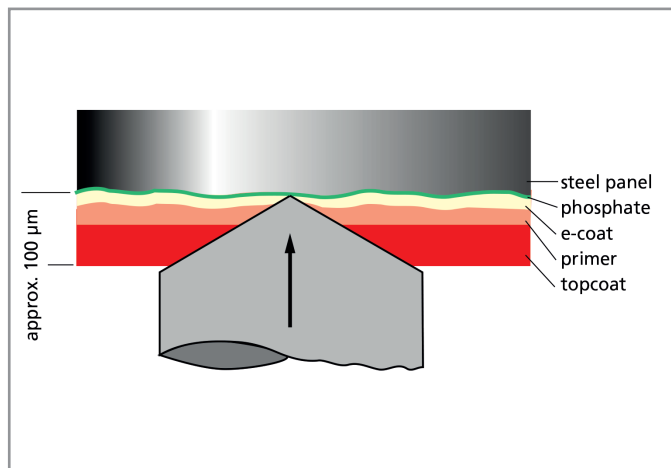
Resistance to chipping of multi-coat systems is an important factor in automotive finishing. To protect auto body parts, a multi-coat system is applied for corrosion and mechanical stress. The complete coating structure is decisive for its resistance to chipping. Changes to the coating formulation or 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.



Chip resistance tester

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

Catalog Number	5200
Short Description	esp-10
Connection for Compressed Air	R 1/8"
Compressed Air Supply	5 bar
Working Pressure	3 bar
Operational Life of Impact Tool	approx. 1000 impacts
Additional Weight	1.75 kg (3.9 lbs)
Weight	8.6 kg 19 lb
Dimensions: L x W x H	23 x 32 x 35 cm 9.1 x 12.6 x 13.8 in

Delivery Content

Single Impact Tester esp-10
Weight
Connection hose
Manual

Catalog Number	Short Description
5205	Standard for esp-10
5201	esp-10 Impact Tool
5824	Precision Microscope