Laboratory car wash for testing the scratch resistance of coatings

With the Amtec Laboratory Car Wash you can simulate the conditions automotive exterior bodyshell paints and other surfaces are subjected to in automatic car washes according to ISO 20566:2013 as well as to individual requirements. During the process test panels are moved back and forth beneath a horizontally rotating washing brush. To achieve results which are as realistic as possible and to speed up the test procedure, an additive is mixed with the washing water as a substitute for dirt.

Characteristics

✔ For carrying out tests according to ISO 20566:2013 as well as to individual parameters
✔ Efficient operation due to large surface for test panels
✔ Universally applicable with various brush materials
✔ RPM of brush and speed of test panel holder adjustable
✔ Easy operation via touch panel
✔ Corrosion-resistant through use of non-corrosive materials
✔ Easy to maintain
✔ Low operating costs
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Specifications:

Number / Max. dimensions of test panels:  4 / 305 x 155 mm (max. 1 x 610 x 310 mm)
Test panel thickness:  0.5 - 5 mm
Width washing brush:  400 mm (ISO 20566: min. 300 mm)
Sense of rotation of washing brush:  clockwise / counter-clockwise
RPM of brush:  50 - 127 min⁻¹ (ISO 20566:2013: 127 min⁻¹)
Speed of test panel holder:  3-10 m/min (ISO 20566: 5m/min)
Number of double passes:  1-99 (ISO 20566: 10)
Number of spray nozzles:  2
Water container capacity:  120 l
Quantity of silica powder per litre of water:  max. 2.0 g (ISO 20566: 1.5 g)
Water consumption / test cycle:  approx. 7 litres (ISO 20566)
Adjusting range total height/ drain height:  + 110 mm continuous / 190 mm above FFL
Dimensions / approx. weight:  see layout / 430 kg
Power requirement (standard):  acc. to IEC/EN/ 220 - 240 VAC / 1 ~ / 50Hz/16 A
Options:  acc. to IEC/EN/220 - 240 VAC / 1 ~ / 60Hz/16 A
acc. to IEC/EN/110 - 120 VAC / 1 ~ / 50Hz/32 A (cat.B)
acc. to IEC/EN/110 - 120 VAC / 1 ~ / 60Hz/32 A (cat.B)