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- ▶ Front and back cleaning of transparent acoustic panels by the means of an equipment provided with a laser sensor for distance control
- ▶ Specific biodegradable at 99% detergents
- ▶ Very soft bristles in polimousse that do not scratch the plexiglas

 **RotoLaser**
For a perfect and safety cleaning

ROTOLAVAGGIO OF ACOUSTIC PANELS

plexiglas, glass, aluminum and photovoltaic surfaces

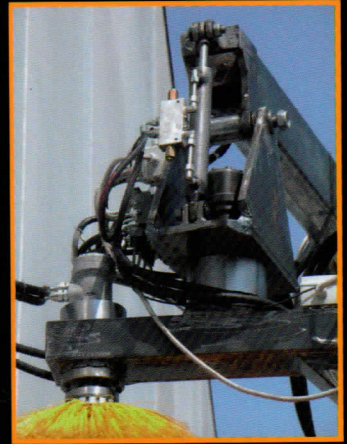
Perfect cleaning is the result of several elements:

Laser sensors keeps bristles at the right distance to avoid panel breaking;

Bristles in polimousse do not scratch the plexiglass;

Difficult access points are washed with 95°C and 600 bar pressure hot water;

Total removal of smog, limestone, powders, ferodo and graffiti.



Detergent application



Front side washing



Rear side washing



Final result

ROTOLAVAGGIO OF REFLECTORS

studs, fog lights and metal barriers reflectors



Before washing



Detergent spraying



Rotolavaggio



Rinsing



Final result



Rotolavaggio of metal barriers



Rotolavaggio of reflectors

*Train of vehicles (mobile shipyard)
composed by:*



- ▶ Truck with extremely brightly panel (fig. 400 of Italian highway code) working on the right lane;
- ▶ Truck with crash absorber (TMA) and brightly panel (fig. 401) for drivers and workers safety;
- ▶ Truck with brightly panel (fig. 401) for the washing equipment protection;
- ▶ 12.000 liters water and detergent tank truck provided with laser's rotative brusher.

BRESCIA/PADOVA HIGHWAY – CENTROPADANE HIGHWAY

Rotolavaggio in six hours of:

80 km. of guard-rails – 4000 studs - 600 fog lights
800 optometers – 60 road signals and 400 studs replacement

All equipments are certificated and complying with
2006/42 and 98/37 ECC Machine Directives



ROTOLAVAGGIO OF TUNNELS' WALLS

Painted sides and ceilings, porcelain steel panels, lightings

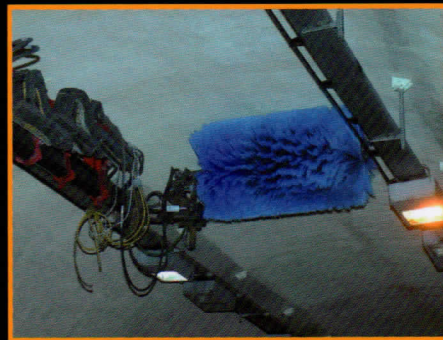
Autobrennero highway tunnels



Rotolavaggio of ceramic painted aluminum panels.



Rotolavaggio of ceramic painted tunnels sides and ceilings.



Rotolavaggio of tunnel lightings.

Mont Blanc tunnel (km. 11,600) and Frejus tunnel (km. 12,800)

Rotolavaggio in six hours of:

35.000 sq.mt of lateral panels, 2400 lights, 18 garages, 20 luminous signals

Six vehicle train – minimum water consumption: 0.9 liter/sq.mt



12.000 liters tank truck for the rotolavaggio and rinsing.



18.000 lt/min. liquid aspirator road sweeper with a third brush to clean sidewalk.



Truck with crash absorber (TMA) and brightly panel (fig. 401).



10.000 liters tank truck for detergent spraying.



Train of vehicles in Frejus tunnel.



Rotolavaggio with 180° rotation of brushes.