



Grooving
Installation of shallow base
Saw-cut slot for cable installation
Rubber removal

Grooving of runways

- Increased safety
 - Avoid “Standing water”
 - Lower maintenance costs
 - Reduced usage of deicing agents
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“The grooving machine is one of the world’s largest and most efficient”

The Norwegian Civil Aviation Authority (CAA) requirements; Supplement to §2.6 in their req. (CAP, AC, Annex 14).

If the surface texture is < 1.0 mm it demands grooving. The size of each groove is 6 mm wide and 7 mm deep, with maximum spacing of 125 mm.

If the longitudinal slope of a runway is less than 0.3%, additional longitudinal grooving must be cut along the runway with 1,5 m transverse spacing with the same dimensions as traditional grooving.

Grooving

The main benefit of grooving is to drain water off the runway and reduce the drying time. This will improve the wet friction, due to less water and eliminate situations with “Shiny when wet” conditions.

The grooves also lead to less deicing which in turn reduces the use of chemicals. This has an environmental benefit and is also a cost-effective process.

Since 1997, Avinor, Norway’s largest owner of airports has grooved 42 of its 45 airports. Ministry of Defense has grooved 4 of 5 runways and additionally we have grooved 4 runways at private owned airports. All of these missions, except one, have been performed by Veidekke.

During the last 16 years Veidekke have grooved 5.1 million square meters. This includes runways, shoulders and taxiways. Capacity: approx. 1400–1500 sq. meters per hour. Equipment: grooving machine 5 m wide. It has five independent axels which can be lifted when passing inserted lights.





Installation of shallow base

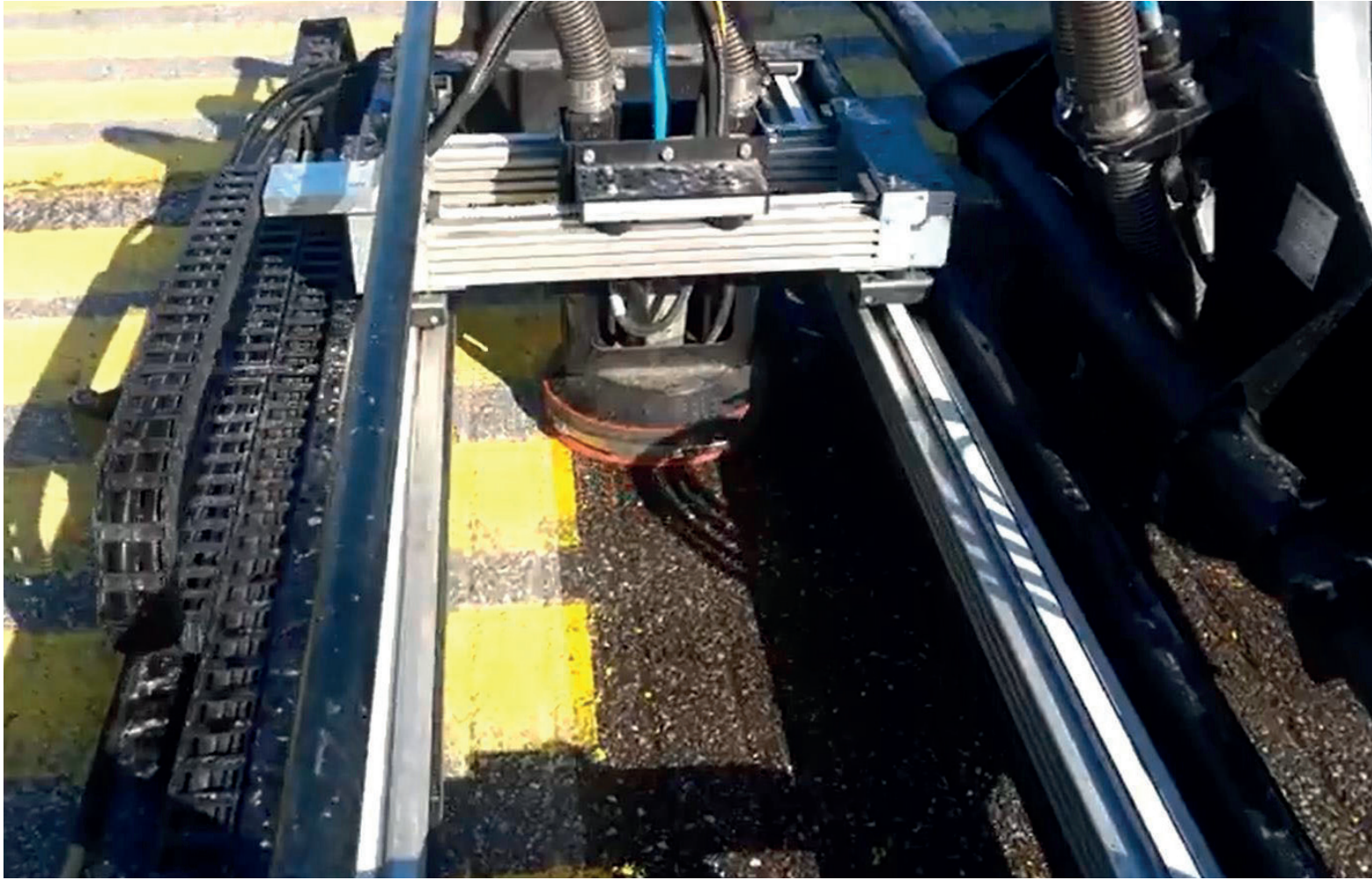
We install CAT II/III lights for runways, stop-bars and center lights on taxiways. The shallow base is mounted in cored hole with a resin sealer which will harden within 15 minutes.

Capacity is 10–12 light casings in 6 hours.

Installation of cables in existing pavements

Saw cut slotting in asphalt or concrete surface is performed with a special saw, driven by the same machine we are using for grooving.

The saw-cut slots are typically 17–20 mm wide and 45–75 mm deep, depending on whether 1, 2 or 3 cables are placed for the various lighting points.



Rubber- and marking removal

The rubber and paint marking removal quickly clean the surface with water blasting. Whether it is pavement marking, rubber, curing compound removal and cleaning oil on new concrete, residue and grease from surfaces and will increase texture on polished surfaces or area with bitumen bleeding. No chemical is used in the process. Capacity 12–1500 sq. meters per hour.





For further information

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Our collaborator

