

Application Report No. A 61-1e **Runway Cleaning at 2000 bar**

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Status: 07/2004

AQUAJET, South Afr.

The KAMAT agent in South Africa took part in an international tender and was awarded the contract to build a special vehicle for runway cleaning in Angola. The tender specified the need for a system which required a **low** rate of water consumption per m², due to the lack of water.

KAMAT supplied a pump model K 10016 A, and our South African agent assembled the unit. A Perkins engine was selected to drive the pump. The unit was assembled as a Power Pack system on a new Mercedes chassis and was supplemented by a large water header tank.



At the front of the truck a hydraulically-driven rotating nozzle head was attached. The hydraulic system used to drive the head allows an exact adjustment of the speed to match the requirements and achieve effective cleaning. Should it be necessary to move off the runway at short notice, the nozzle head attachment can be lifted up hydraulically in a few seconds.

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Technical Parameter and Performance:

- Working Pressure : 2000 bar
 - Speed of truck : 3.8 km/h
 - Rotating nozzle head:
 - Number of nozzle arms : 4
 - Number of nozzles per arm : 3
 - Net working width : 1000 mm
 - Distance between nozzle / Surface : 27 mm
 - Speed of the nozzle head : 2200 rpm
- Average cleaning rate : 2600 m²/h**