



ENGLISH | STATUS 10.2007

Airport Runway Cleaning Vehicle

RWC 1000 HS

BROCK[®]
Kehrtechnik GmbH

HDT
HOCHDRUCKTECHNIK GMBH

COMPANY PROFILES

BROCK Kehrtechnik GmbH

BROCK Kehrtechnik GmbH is an innovative company with dedicated employees who have specialist expertise, thanks to many years of experience in the design and servicing of high grade cleaning vehicles. Expert advice and fast, reliable customer service are a matter of course. Maintenance and repair can be carried out the company's own mobile customer service facilities, if required, or alternatively by one of the service partner or at company premises in Witten.

BROCK-Sweeping vehicles are tailor-made, worthwhile investments.

OUR RANGE OF PRODUCTS

- Sweeping vehicles in a range from 3 to 14 cbm

HDT HochDruckTechnik GmbH

The company HDT has been in business since 1995, initially operating from Austria and since 2002, located in Germany. HDT Hochdrucktechnik GmbH is partner of the company KAMAT Pumpen GmbH & CO. KG in Witten, Germany. The Managing Director, Stephan Smets and Sales Engineer Bogdan Fatu concentrate on selling multi-purpose vehicles for a wide range of cleaning jobs in municipalities and in the contracting business (industrial cleaning).

The company attaches great importance to customer support in initial aspects of application technology, right up to the design and layout of specific vehicle required for the job to be done. And of course the service does not end there: Once the vehicle is handed over to the customer he receives professional “on the job” training and can rely on a competent **After-Sales-Service**.

Longterm customer relations stand as a proof of consumer acceptance of the products and customer satisfaction.

OUR RANGE OF PRODUCTS

- Sewer cleaning trucks (combined vehicles for cleaning and vacuum, vacuum vehicles, cleaning vehicles)
- Sewer inspection systems and vehicles
- Accessories for sewer cleaning
- Nozzles for sewer cleaning and high pressure cleaning
- Garbage trucks
- Container tipping trucks
- Well cleaning and inspection trucks
- Runway cleaning trucks
- Trucks for cleaning tanks
- Industrial cleaning combination trucks
- High pressure water cleaning trucks

Airport Runway Cleaning Vehicle

RWC 1000 HS

Two German companies located in Witten – BROCK Kehrtechnik GmbH and HDT Hochdrucktechnik GmbH – designed and built this high performance vehicle for professional runway and surface cleaning.

The **rubber deposits** on the runway are removed and entirely drawn off by suction. On the vehicle, all of the essential components are hydraulically driven. The required power is taken off two sources: First, via the direct auxiliary drive system and secondly, via a gear, which is built into the cardan shaft, with a hydrostatic drive.

The **1000 mm Ø Surface Cleaner**, which is located between the first and the second axle, can be lifted up and swivelled back into the vehicle chassis within 3 seconds. In case of an emergency, the vehicle can be driven off the runway within 10 seconds.

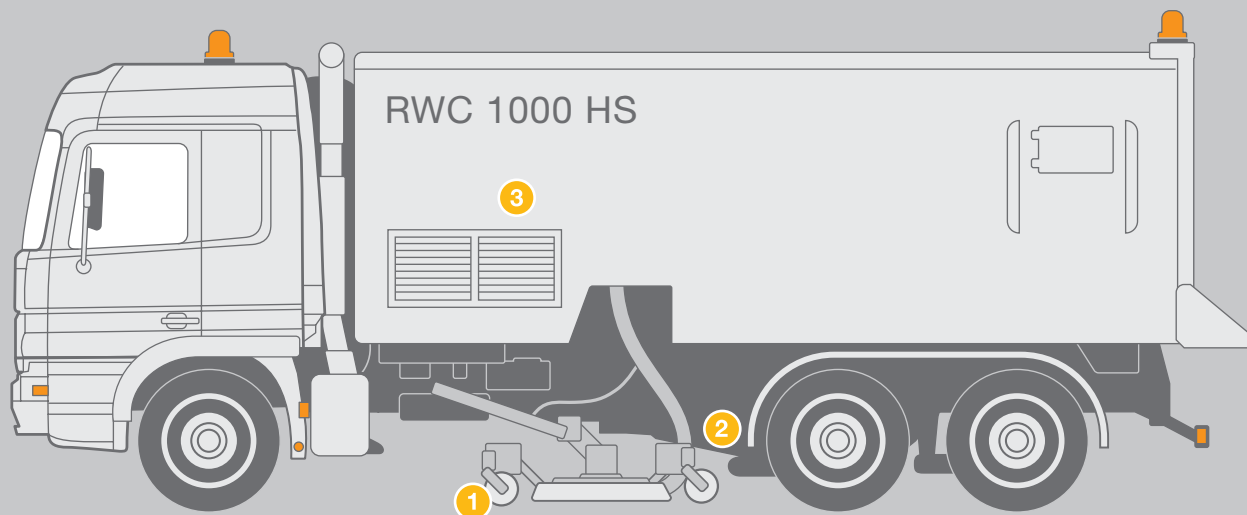


VEHICLE WITH LIFTABLE AND STEERABLE TRAILING AXE

The vehicle can be tilted hydraulically for maintenance purposes and to empty the dirty water tank. This allows easy access to all of the components – high pressure pump, boost pump, fan, cooler and extractor.

Thanks to the hydraulic transmission, the vehicle can be driven steplessly at any desired speed between 0.3 - 6.5 km/h.





1 HEAVY-DUTY WHEELS ENSURE THAT THE DISTANCE BETWEEN THE CLEANING NOZZLES & SURFACE TO BE CLEANED REMAINS CONSTANT.

2 FLOOD LIGHTS AND CAMERA FOR CONTROLLING THE WORK PROCESS

3 PUMP AND SUCTION SYSTEM

The right to technical changes is reserved.

TECHNICAL DATA

CHASSIS	Wheel distance 4.500 + 1.350 6x2 max. total weight 25 t	WORKING PRESSURE	1000 to 2500 bar stepless regulation
ENGINE PERFORMANCE	approx. 500 PS 367.75 kW	CAPACITY	15 - 29 l/min stepless regulation
SPEED	0.3 to 85 km/h	TANK VOLUME	4500 litres fresh water 7000 litres dirty water
HYDROSTAT-DRIVE + PTO	Boost pump, high pressure pump, suction system, hydraulic tilt mechanism, crawling speed	SUCTION	> 12000 m ³ /h
WORKING WIDTH	1000 mm Ø	SPEED OF NOZZLE ARMS	stepless regulation

CONTROLS AND SETTINGS FROM THE DRIVERS'S CAB

- Monitor for the camera mounted on the surface cleaner
- Gauge for speed of surface cleaner
- Gauge for the working pressure
- Joystick for forward and reverse movement and speed control
- Settings the speed of the surface cleaner
- Settings the working pressure
- Settings the suction operation

Safety & Reliability

Environmental-friendly | Innovative Economical

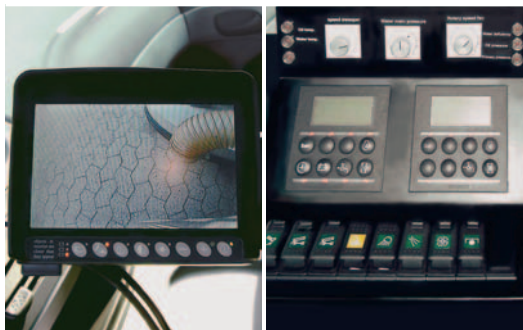
The water level in the fresh-water tanks is continually monitored. If the level reaches the lower point the driver/operator is warned both acoustically and visually. If the level drops even further the system switches automatically to the "pressureless" mode (avoiding dry-running of the high pressure pump). To ensure that the surface being treated is not damaged, the high pressure system shuts off the moment the driver steps on the clutch. The high pressure system can only be activated when the vehicle is actually in motion.

Even at the full load (2500 bar and 29 l/min, at a vehicle speed of 2.5 km/h) the water and debris is entirely sucked off the surface and drawn off into the dirty water tank.

The RWC 1000 HS – a further example of our modern technology which more than meets today's demands for environmental-friendly, innovative and economical products.



THE FORWARD & REVERSE MOVEMENT IS CONTROLLED STEPLESSLY BY A JOYSTICK.

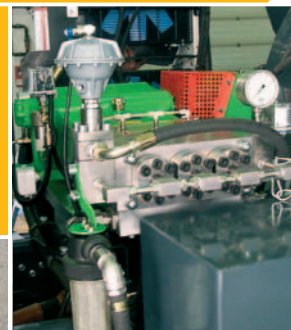
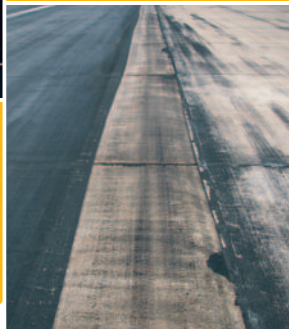


The driver is able to keep a constant control of the cleaning process – a camera which is mounted behind the surface cleaner transmits a perfect colour picture direct to a monitor in the driver's cab.

The heart of the vehicle is a 140kW high pressure pump with a performance of 29 l/min at a maximum working pressure of 2500 bar.

Two water filters (100 and 25 µm) are assembled in line in the inlet to the water tank.

In addition, there is a 10 µm filter fitted in the inlet side between the boost pump and the high pressure pump.



Cleaning result
Vietnam-Airport



WORLDWIDE: Afghanistan | Angola | Argentina | Armenia | Azerbaijan | Australia | Bangladesh | Bahrain | Belarus | Brazil | Bulgaria | Burma | Canada | China | Egypt
 French Guiana | Georgia | Guadalupe | Hong Kong | India | Indonesia | Iraq | Iran | Israel | Japan | Jordan | Kazakhstan | Kenya | Korea | Kuwait | Kyrgyzstan
 La Reunion | Lebanon | Libya | Malaysia | Martinique | Mauretania | Mexico | Nepal | Oman | Pakistan | Philippines | Qatar | Russian Federation | Saudi Arabia
 Singapore | South Africa | Sudan | Taiwan | Tajikistan | Tanzania | Thailand | Tunisia | Turkey | Turkmenistan | Uganda | Ukraine | USA | Uzbekistan | Vietnam

EUROPE: Austria | Baltic States | Belgium-Flanders | Belgium-Walloon | Bosnia & Herzegovina | Bulgaria | Croatia | Denmark | Finland | France | Greece | Great Britain
 Hungary | Italy | Macedonia | Montenegro | Netherlands | Norway | Poland | Portugal | Romania | Serbia | Sweden | Switzerland | Spain

YOUR RESPONSIBLE REGIONAL REPRESENTATIVE

BROCK Kehrtechnik GmbH

Salinger Feld 10 a
 58454 Witten
 Germany

Tel.: 0049 (0) 2302 589 69-0
 Fax: 0049 (0) 2302 589 69-150

www.brock-kehrtechnik.de
info@brock-kehrtechnik.de

HDT HochDruckTechnik GmbH

Salinger Feld 10
 58454 Witten
 Germany

Tel.: 0049 (0) 2302 89 03 50
 Fax: 0049 (0) 2302 89 03 55

www.HDTweb.com
info@HDTweb.com