TECHNICAL SPECIFICATIONS

Linear Runway Rubber Removal Systems Type LI750 (Truck Mounted)





Manufactured by



Compact rubber and paint removal system designed for mounting on a 18 tonne chassis.



	General Data
quipment gross weight	18,000 kg
Mounting	Chassis
Dperation time between clean water refill and debris discharge	2 hours
Design temperature range	0 to 55°c
	Applications
Runway rubber removal	1000 – 1700 sq mt/hr
Paint marking removal	Rate depending upon thickness and condition
Apron cleaning	Large surface area cleaning
AGL cleaning	Cleaning of landing lights without damage whilst simultaneously removing rubber deposits

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Manufacturer Model Max water flow Typical operating pressure

end configurations.

URACA KD 724 Triplex Design 28 l/min 2500 – 2800 bar

High pressure reciprocating plunger pump

The sturdy URACA is available in various drive and liquid





Over Pressure Protection

Manufacturer Туре Relief pressure

URACA MSSV Overflow and relief valve Set at 10% above final operating pressure



Inlet Water Supply System

Max flow capability Max delivery pressure 5 bar Material

200 I/min Stainless Steel





Туре

Twin bag element type Filtration level 1 x 10 micron, 1 x 1 micron

Drive Systems

Hydraulic systems are at a minimum on this vehicle with the only continuously operating system being to rotate the jet bars. All other systems are 'dormant' until required.

- Forward drive UHP pump drive UHP debris recovery system Rotary cleaning head Cleaning assembly raise Debris tank tip Debris door locks Debris door open
- From truck engine via hydrostatic drive From truck engine via PTO From truck engine via PTO Hydraulic from power pack Hydraulic from power pack. Hydraulic from power pack. Hydraulic from power pack. Hydraulic from power pack.

Controls

Operator cabin controls Deployment and recovery of rubber / paint removal heads High Pressure Water On / Off Water Pressure control Rubber / Paint removal selection External controls Debris tank tip Debris door locks Debris door



System Shut Downs

In order to protect the system components there are the following automatic shutdown systems in the event of:-

- Engine over temperature
- Engine low oil pressure
- High pressure pump low oil pressure
- Low inlet water level
- Low inlet water pressure
- High Debris level
- Hydraulic system pressure drop
- Hydraulic tank oil level drop

Runway Protection System

The forward speed of the vehicle is continuously monitored. If the vehicle speed drops below a pre-determined level the high pressure water system deactivates thereby avoiding the possibility of causing damage to the runway surface.

Туре

Motion control monitoring system

Clean Water Supply Tank

The clean water tank is divided into three main compartments. The main water tank is fabricated around the cylindrical debris tank and is fitted with integral baffles to reduce water surge during vehicle movements. Two additional 'bolster' tanks are fitted in accordance with individual customer requirements.

Nominal capacity Design Material Material thickness 3500 It Modular 304 Stainless Steel 5mm

Surge protection	The clean water tank is fitted with internal
	baffles to reduce water surge in both forward
	and sideways directions.
Protection	Pickled and passivated stainless steel
	In accordance with country requirements
Inlet fitting	2"
Drain	Overflow at full level
High level control	Automatic shutdown of operation when tank
Low level monitoring	level becomes low.

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Debris Tank

Debris is collected in a cylindrical tank mounted at the rear. It is equipped with hydraulically operated locking clamps and a hydraulically opening rear door. Once the dirty water is drained through a decant valve the tank may be tipped to remove the remaining rubber deposits.

Nominal capacity	5,500 litres
Design	Cylindrical design
Material	Stainless steel
Material thickness	5mm
Inlet fitting	114mm
Water decant system	100mm pneumatically operated valve
Overflow protection	Debris carryover is avoided by means of a shut off valve which is actuated once the high debris level is reached. This valve also closes during transport to avoid debris carryover due to fluid movement.
Technical Safety	Integral safety prop fitted
Debris removal method	150mm pneumatically operated valve and fully opening rear door and tipping tank.
Debris chute	Integral with tank
Debris tank tip method	Twin hydraulic rams
Debris door lock method	Hydraulically operated catches
Hydraulic safety	Safety valves are fitted to prevent the debris door or tank from falling in the unlikely event of a hose failure. Safety prop is provided to enable safe access under the tank for maintenance

Debris Recovery Vacuum System

Drive	High performance belt drive system
Manufacturer	Kaeser
Туре	Positive displacement roots type blower
Air flow (nominal)	1000 cfm

Monitoring System

Cameras Monitor Front and rear mounted Colour monitor in drivers cabin

Lights and Warnings

Amber beacons Night working lights 2 x Front 2 X Rear Additional lights are fitted at the front Lighting inside pump house Rear lighting

Pump and Engine Enclosure



The pump, engine, vacuum and control systems are enclosed in a lockable pump house. This is manufactured from aluminium and provides protection against sun, rain, wind and dust

Equipment-Surface Preparation and Corrosion Protection

Steel fabricated items

Aluminum bodywork

Where possible these are shot blasted and sprayed with zinc before being hot powder coated.

Etch primed followed by two top coats in chosen colour

Rapid Rubber Removal MSC System 750mm

Location	Beneath trailer
Applications	This system provides faster rubber removal rates under certain conditions.
	Apron cleaning
	Centre line cleaning
Deployment	Hydraulic frame lifting vertically Manual pump override
Number of heads	1

Rotation method	Hydraulic	
Rubber removal width	750mm	
Performance	1000 - 1700 sq mt/hr	
Illumination	The frame is fitted with high output LED lighting to ensure all areas are well lit during darkness.	
Set up time	1 minute	
Evacuation time	1 minute	



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Technical Specifications

Every Osprey is custom built to meet every customer's specific requirements. As such, this table only provides example specifications for models we have previously built.

General	
Number of cleaning heads	1
Removal width	Fixed (200 - 750 mm)
Performance	1000 - 1700 m²/hr
Rotation method	Hydraulic
Control	Cab mounted control
Deployment method	Hydraulic lift
Set-up / Evacuation time	1 min
Chassis	
Manufacturer	MAN, Volvo, Mercedes, Scania, DAF, Hino
Axle configuration	4 x 2
Weights and Dimensions	
Gross Weight	18000kg
Length	8.9m
Width	2.54m
Height	3.4m
Variable speed hydrostatic drive	
Actuation	Pneumatic
Speed range	200-6000 m/hr
Ultra High Pressure pump	
Maximum water flow	28 l/min
Typical operating pressure	2500 - 2800 bar
Clean water tank	
Nominal capacity	3500 l
Material	304 Stainless Steel
Anti-corrosion protection	Pickle and Passivation
Debris recovery	
Nominal tank capacity	5500 l
Material	304 Stainless Steel
Vacuum system air flow	28 m³/min
Controls	
Cabin controls	Jetting head deployment and recovery, Water pressure control, Auxiliary engine speed and monitoring, Rubber / paint removal selection, 9" colour monitor and optional video recorder, connected to front and rear-mounted cameras.
External controls	Debris door locks, Debris door open / close, Debris tank tip







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These specifications are general and for guidance only. We reserve the right to alter or amend at any time without notice