NAFFCO AVIATION

RUNWAY
RUBBER REMOVAL
"OPTIMUS"

KEEP YOUR
AIRPORT RUNNING!

ABOUT US

NAFFCO "Optimus" Runway Rubber Removal Machine is developed by renowned German manufacturers, SMETS Technology for the following applications:

- Runway Rubber Removal
- Oil Spills Removal
- Line/Road Marking Removal
- Friction improvement

OUR TECHNOLOGY ENSURES:

- Gentle Treatment of the runway surface.
- Height of the device is adjustable to the ground surface.
- Forward view is not restricted in any way.
- No use of additive, just use of water for the removal of the rubber & paint.

NAFFCO Optimus employs a specifically developed high-pressure water jetting methods that consume the lowest water quantity per treated m^2 and create the lowest stress for the runway surface. This is granted by an extreme high nozzle speed. High speed create drops and not aggressive jets. The up-to-date software projects the system and every treated surface.

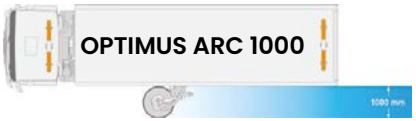
Model	Chasis	Ultra-High Pressure Pump	Max. Working Width	Tank Volume
Optimus ARC 1000	3- (standard), 4-, 5-axle chassis or semi-trail-er/tractor version	140 kW, P max 2,500/3,000 bar Q max 29 l/min	1,000 mm, (OPTIONAL – additional demarking device on opposite side)	13 m³ standard, optional up to 17 m³
Optimus ARC 1600	3- (standard), 4- or 5-axle chassis	250 kW, P max 2,500/3,000 bar Q max 53 l/min	1,600 mm, (OPTIONAL – additional demarking device on second side)	17 m³ standard, optional up to 20 m³
Optimus ARC 2400	3- (standard), 4-, 5-axle chassis or semi-trail-er/tractor version	250 kW, P max 2,500/3,000 bar Q max 53 l/min	2,400 mm, (OPTIONAL – additional demarking device on 1 or 2 sides)	17 m³ standard, optional up to 32 m³ (semi-trailer version)
Optimus ARC 3000	***Tractor:*** 3-axle chassis – 6 x 2 ***Semi Trailer:*** 3-axle trailer (3 x 9 tons), last axle steerable	400 kW, P max. 2,500/3,000 bar Q max. 88 l/min.	3,000 mm	18 m³ fresh water tank, 19 m³ waste water tank
Optimus ARC 3400	3- (standard), 4-, 5-axle chassis or semi-trail-er/tractor version	400 kW, P max 2,500/3,000 bar Q max 88 l/min	3,400 mm	17 m³ standard, optional up to 32 m³ (semi-trailer version)

Speed During Operation	3 to 80 m/min, stepless adjustable
Suction/ Air Blower	15,000 m³/h, free air flow and - 0.15 bar
Rotation of Nozzles	0-2,500 RPM, stepless adjustable for every cleaning device

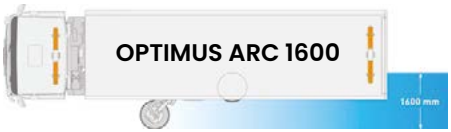
* Applies to all models

AVERAGE CLEANING RESULTS

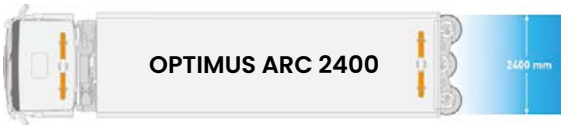
OPTIMUS ARC 1000	Runway Rubber Removal	Ø 1,200 m²/h
	Cleaning of surfaces (e. g. drain asphalt)	Ø 3,500 m²/h
	Demarking of traffic lines	Ø 1,800 m/h
OPTIMUS ARC 1600 OPTIMUS ARC 1600 TE	Runway Rubber Removal	Ø 1,800 m²/h
	Cleaning of surfaces (e. g. drain asphalt)	Ø 3,700 m²/h
	Demarking of traffic lines	Ø 1,800 m/h
OPTIMUS ARC 2400	Retexturing of asphalt or concrete surfaces (increasing of friction value)	Ø 3,000 m²/h
	Rubber removal	Ø 2,800 m²/h
	Demarking of traffic lines	Ø 2,200 m/h
	Cleaning of large areas (e.g. drain asphalt)	Ø 4,800 m²/h
OPTIMUS ARC 3000	Rubber removing from asphalt or concrete surfaces	Ø 3,600 m²/h
	Demarking of traffic signs and lines	Ø 2,200 m/h
OPTIMUS ARC 3400	Retexturing of asphalt or concrete surfaces (increasing of friction value)	Ø 8,000 m²/h
	Rubber removal	Ø 3,000 m²/h
	Demarking of traffic lines	Ø 4,000 m²/h



Surface Cleaner width: 1000mm



Surface Cleaner width: 1600mm



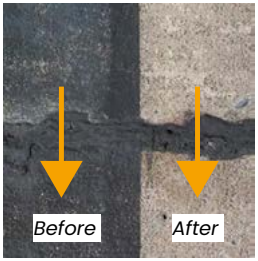
Surface Cleaner width: 2400mm

Surface Cleaner width: 3000mm

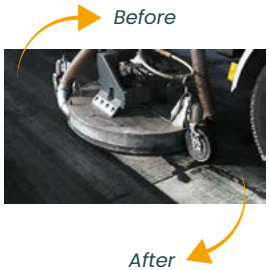
Surface Cleaner width: 3400mm

TECHNICAL DATA

- Monitor for the 2 cameras mounted behind the surface cleaner and the rear side of the truck
- RPM counter for the rotating speed of the surface cleaner
- Pressure gauge for the working pressure
- Joystick for forward and reverse movement
- Potentiometer to set the driving speed during operation
- Setting of the rotation speed of every surface cleaner (rpm)
- Setting of the suction operation (rpm of the blower)
- Setting of the working pressure (1,000 to 2,500 bar)
- Switch for every surface cleaner ON/OFF
- Control for all hydraulic circuits
- Pressure gauge for booster pressure
- Control of water temperature
- Control of water level
- Control all parameters of the auxiliary diesel engine.



Even the expansion joint material has not been destroyed



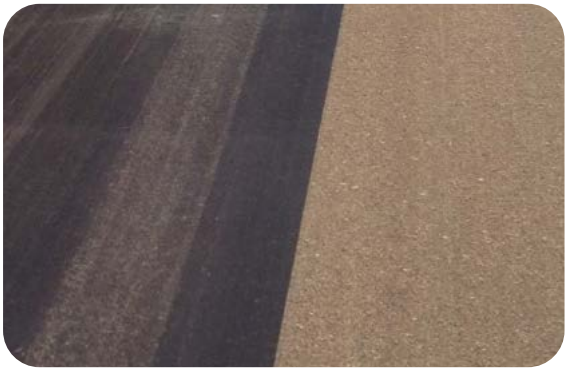
The surface cleaner in working position.

The tank and sound hood can be tilted hydraulically for maintenance purposes and for emptying the waste water tank. This allows easy access to all components – high pressure pump, boost pump, fan, cooler and extractor.

All settings and all controls can be managed by one central control board – a 12" flat screen monitor with touch screen function

Note: All images in this document are included for reference purposes only. NAFFCO Aviation has the right to change specifications without prior notice.

APPLICATION



Asphalt runway

Before (left) and after (right) cleaning:

- No damage to the surface
- Significantly higher friction values

Concrete runway

After rubber removal:

- Cleaning process is gentle to the surface
- No damage to joint seals

Centre light on concrete runway

After cleaning:

- No damage to prisms or seals

NAFFCO AVIATION

Technology Partners:

SMETS TECHNOLOGY

FOR ANY ASSISTANCE, PLEASE CONTACT

800-NAFFCO

800 623326

customerservice@naffco.com

follow us on

/naffco /naffco-fzco

info@naffco.com | www.naffcoaviation.com

Member of:

ACI AIRPORTS COUNCIL INTERNATIONAL