

THE PORT AUTHORITY OF NY & NJ

EXPRESSION OF INTEREST

The Port Authority of New York and New Jersey (“Port Authority”) is contemplating the sale of one (1) or more Overaasen and/or Vammas Runway and Snow Plow Sweeper Vehicle(s) and is hereby seeking Expressions of Interest for the purchase of one (1) or more Overaasen and/or Vammas Runway and Snow Plow Sweeper Vehicle(s).

Please see attached documents for detailed information about both the Overaasen and Vammas Runway and Snow Plow Sweeper Vehicles. These documents were not prepared for the purpose of providing information to anyone responding to this Expression of Interest but they were prepared for other purposes, and they do not form a part of this Expression of Interest. The Port Authority makes no representation or guarantee as to, and shall not be responsible for their accuracy, completeness or pertinence, and, in addition, shall not be responsible for the conclusions to be drawn therefrom. They are made available to those responding to this Expression of Interest merely for the purpose of providing them with such information as is in the possession of the Port Authority, whether or not such information may be accurate, complete or pertinent or of any value to those responding to this Expression of Interest.

Anyone that is interested please contact Joseph Korman and Kyle Ritzmann by mail or by email at the following addresses for each:

Joseph Korman	Kyle Ritzmann
Investment Recovery Specialist	Investment Recovery Specialist
The Port Authority of NY & NJ	The Port Authority of NY & NJ
Central Warehouse	Central Warehouse
777 Jersey Avenue	777 Jersey Avenue
Jersey City, New Jersey 07310	Jersey City, New Jersey 07310
Phone: (201) 386-6815	Phone: (201) 386-6827
Email: jkorman@panynj.gov	Email: kritzmann@panynj.gov

You should include the following information with your expression of interest:

- Company Name
- Full Name
- Address, including city, state and zip code
- Phone Number
- Email Address

Those who provide the complete information to both Joseph Korman and Kyle Ritzmann will be placed on a notification list and will be notified as vehicle(s) become ready for sale.

You may not receive notification about sales if you did not provide complete information as set forth above.

The Port Authority reserves the unqualified right to request further information from anyone who responds to this Expression of Interest.

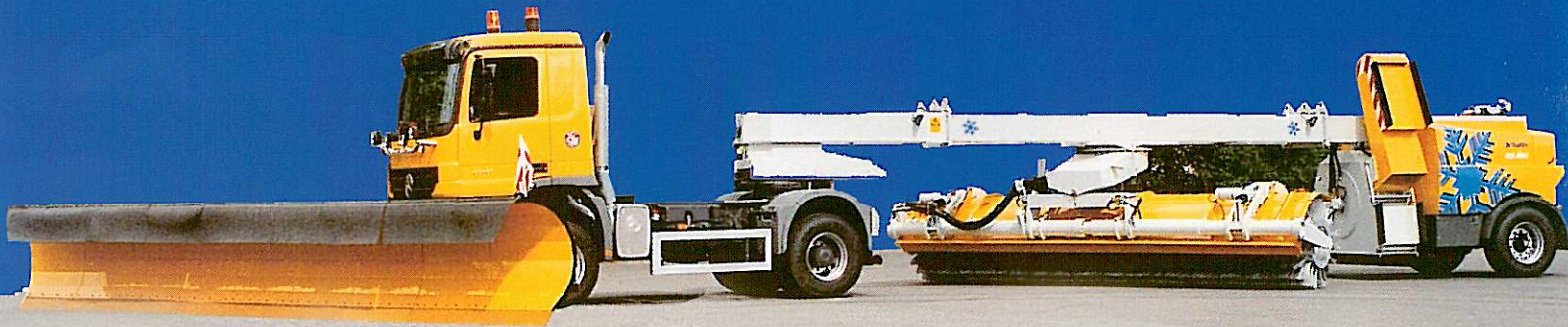
Neither the existence of this Expression of Interest, nor expression of your organization's interest, nor the submission of your contact or other information in response to this Expression of Interest and any documents or other information supplied by you, nor any correspondence, discussions, meetings or other communications between your organization and the Port Authority, shall impose any obligation on the Port Authority. The Port Authority shall have no obligation to anyone responding to this Expression of Interest. Costs of participation or information preparation by anyone responding to this Expression of Interest are not compensable.

This document is available on-line at <http://www.panynj.gov/business-opportunities/bid-proposal-advertisements.html?tabnum=7>. Addenda to this Expression of Interest, if any, will be posted at this website. Monitor the advertisement on the website to ensure your awareness of any changes. You will be deemed to be aware of such addenda that are made available on-line at <http://www.panynj.gov/business-opportunities/bid-proposal-advertisements.html?tabnum=7> regardless of whether you viewed such addenda or not.

If you have any technical problems accessing the documents online, email us at askforbids@panynj.gov or call us at (212) 435-4600 for assistance.

ØVERÅASEN

RUNWAY SWEEPER RS 400^{7.5 MKII}



Advanced airport
snow removal technology . . .



...THE SNOW PROFESSIONALS

RUNWAY SWEEPER RS 400^{7.5 MKII}

...Setting the standard!



In General

The RS series is the most modern high capacity, high speed runway sweeper on the market today. The modular RS series boasts a large brush diameter and sleek, elegant design.

The Jumbo-sized runway sweeper RS 400 is a standard module in Øveraasen's Modular System of which more than 200 units are delivered worldwide. With its impressive 5,5 meter (18 foot) clearing width, it represents a lower total investment compared to conventional equipment:

- Snowclearing can be achieved with fewer machines.
- Less manpower is required.
- Less garage space is needed.
- Lower operational costs.
- Lower investments.

Øveraasen RS 400 is a major time-saver for airports with busy schedules:

- 1 170 mm (46 inch) brush diameter.
- 5,5 meter (18 foot) working width.
- 65 km/h (40 mph) working speed (maximum).
- Snowclearing easier to organize with fewer machines and less manpower.
- Proven reliability with more than 300.000 hours of practical operation.

The Mercedes-Benz truck provides a new world of comfort for operators. Heated comfort seats, electrically adjustable and heated mirrors, heated wipers and windshields, rear view monitor, electronic automatic gear shift (or Allison transmission) are examples of qualities that can be offered.

The easy-to-use computerized control system ensures a smooth and co-ordinated maneuver of the snow plow and sweeper based on hydraulic cylinders. Repositioning the machine no longer requires inductive switches or sensors that can corrode or malfunction when exposed to chemical-laden snow, ice, and water.

Check out the advantages!

46-inch brush diameter

High airblower capacity

Proven reliability

Optimal snow removal quality

Higher working speed

The element snow plow is specially designed for use in combination with runway sweepers at airports. The plow employ a strong versatile reversible snowblade consisting of 9 pc. individual elements. This means the plow follows the surface very close.



No critical micro switches.
Hydraulic cylinders have no middle position.
One cylinder per movement.



Optimal snow removal quality

- Automatically controlled brush speed (revolution) in relation to forward speed, snow conditions and current brush diameter.
- Automatically adjustment of brush pattern (option).
- Long lifetime of brushes, - reduced operational costs.



Brush diameter increased from 915 to 1 170 mm / 36 inch to 46 inch.

- Same peripheral (tip) speed at lower revolutions and a flatter trajectory of thrown snow.
- Markedly higher working speed.
- Achievement of desired clearing speed with all brush diameters.



Mechanical floating function allows the brush to follow the ground surface well, with good level adjustment (brush pattern), even at high speeds.
Reacts instantly to uneven surfaces.



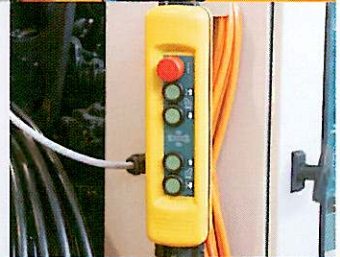
Engine compartment can be opened upwards hydraulically.
Easy access to engine compartment for service and daily inspections.
Free access to electrical installations, diesel engine, hydraulic components etc.



Durable high-tolerance electrical system.
Cables and connections are safely protected against water, chemicals and corrosion.



Remote control panel for manual brush adjustment and service purposes.



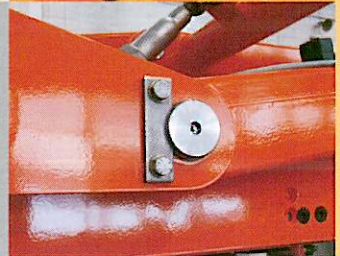
Easy-to-use control panel located in the drivers cabin.



Rust resistant hydraulic connections and fittings designed especially as protection against acetates and other chemicals.



All bolts, screws and nuts in rust resistant material. Protected against acetates and other de-icing agents.



All steel parts are sandblasted before a 150-250my "offshore" paint is applied.
5 layers of high quality paint.
Sandblasting is a must to avoid rust and loose paint.





Options RS 400^{7.5} MKII

Choose what options you would prefer!

Double frontwheel with air suspension.



Engine heater, 110/220 Volt.

NATO standard socket.

Battery charger, 110/220 Volt.



Adjustable fifth wheel adapter, upgrade.



Rear view monitor.



Central lubrication system.



Rear wheel steering.

Also available in combination with frontwheel.



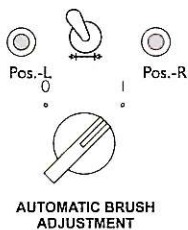
Snow plow hydraulics with control panel.



Interface snow plow functions. Makes it possible to co-ordinate the movements of the snow plow together with the sweeper.



Automatic brush adjustment.



Anti corrosion treatment (TECTYL).



Manufactured by:

ØVERAASEN

ØVERAASEN AS
Roald Amundsensvei 1
N-2816 Gjøvik
Norway
Tel.: + 47 61 14 60 00
Fax: + 47 61 14 60 01
e-mail: sales@overaasen.no
<http://www.overaasen.no>

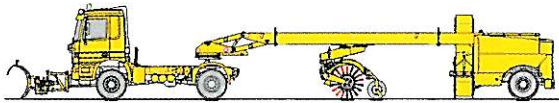
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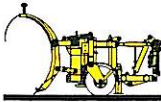
MYSLIK, INC.


22751 Sunrise Drive
Morrison, Colorado 80465
United States of America
Tel.: + 1 303.697.9692
Fax: + 1 303.697.9693
e-mail: bmyslik@juno.com

Technical data RS 400^{7.5 MKII}

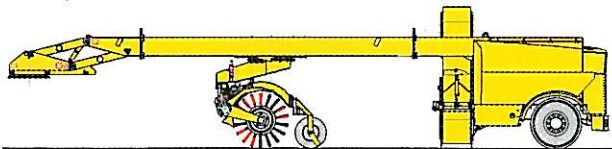
A complete Runway Sweeper unit consists of Snow plow, Truck and Sweeper!

	Total dimensions	Total length	: 19 605 mm / 64,3 ft
		Parking length	: 17 400 mm / 57 ft
			: 15 600 mm / 51,2 ft
		Transport width (plow)	: 7 180 mm / 23,6 ft
		Working width	: 6 810 mm / 22,3 ft
		Height	: 3 420 mm / 11,2 ft
		Weight	: 26 000 kg / 57 200 lb

	Snow plow	Working width	: 6 810 mm / 22,3 ft)
		Max. width	: 8 610 mm / 28,2 ft
		No. of elements	: 9 pc.
		Blade width	: 915 mm / 3 ft
		Blade height	: 1 200 mm / 3,9 ft
		Weight, total	: 2 030 kg / 4 470 lb
		Plow also available with hydraulically foldable wing L+R side	

	Truck	Make	: Mercedes-Benz
		Type	: Actros 2041 AS
		Diesel engine	: MB OM 501 LA
		Output	: 408 hp at 1800 rpm
		Transmission	: Teligent automatic
		Axles	: 4 wheel drive, 4x4
		Max. speed	: 85 km/h (53 mph)
		Weight	: 8 570 kg / 18 854 lb
		Allison G-speed automatic transmission available as option.	


Sweeper	See technical data below
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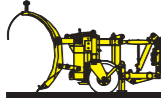



Dimensions		Brush system	
Length	: 12 850 mm / 42,2 ft	Brush core	: Cassette brushes/20 row
Transport width	: 2 920 mm / 9,58 ft	Diameter	: Ø 1 170 mm - 770 mm
Working width	: 5 500 mm	Tufting	: Steel or Poly
Gross weight	: 15 500 kg / 34 200 lb	Brush speed	: 0 - 720 rpm
Height	: 3 025 mm / 9,92 ft	Electrical system	
Tire dimension	: 385/65 x 22,5	Voltage	: 24 Volt
Wheel rim dimension	: 9 x 22,5	Emergency stops	: 4 pc.
Hydraulic oil tank	: 100 l / 26,4 gal	Working speed	
Diesel tank	: 400 l / 105 gal	Working speed, max.	: 65 km/h / 40 mph
Diesel engine		Working speed, pract.	: 35 - 50 km/h / 19 - 28 mph
Type	: MB OM 501 LA	Clearing capacity	: Up to 325 000 m ² / 3 500 000 ft ²
Cylinders	: V6		
Power	: 315 kW/428 HP		
Speed (working)	: 2 000 rpm		
Torque	: 2 000 Nm/1 300 rpm		
Centrifugal blower			
Type	: Radial		
Volume	: 40 000 m ³ /h		
Airspeed	: 140 m/s / 317 mph		
Air tunnel	: In front of rear axle		

Technical data RS 400^{7.5}

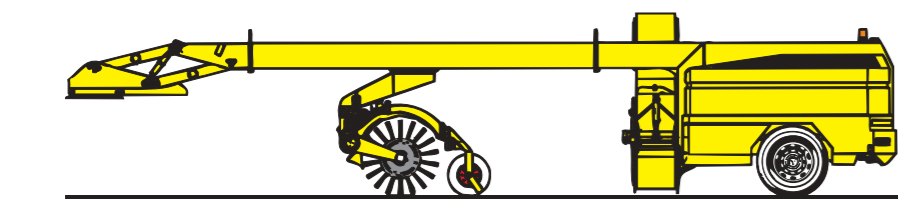
A complete Runway Sweeper unit consists of Snow plow, Truck and Sweeper!

	Total dimensions	Total length	: 22 199 mm / 72,8 ft
		Transport width	: 7 181 mm / 23,6 ft
		Working width	: 6 811 mm / 22,3 ft
		Height	: 3 419 mm / 11,2 ft
		Weight	: 26 000 kg / 57 200 lb

	Snow plow	Working width	: 6 811 mm / 22,3 ft)
		Max. width	: 8 608 mm / 28,2 ft
		No. of elements	: 9 pc.
		Blade width	: 915 mm / 3 ft
		Blade height	: 1 200 mm / 3,9 ft
		Weight, total	: 1 930 kg / 4 250 lb

	Truck	Make	: Mercedes-Benz
		Type	: Actros 2040 AS
		Diesel engine	: MB OM 501 LA
		Output	: 390 hp at 1800 rpm
		Transmission	: Automatic
		Axles	: 4 wheel drive, 4x4
		Max. speed	: 85 km/h (53 mph)
		Weight	: 8 570 kg / 18 854 lb

Sweeper	See technical data below
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Dimensions		Brush system	
Length	: 13 346 mm / 43,8 ft	Brush core	: SIB cassette brush
Transport width	: 2 921 mm / 9,58 ft	Diameter	: Ø 1 170 mm - 770 mm / 3,83 ft - 2,53 ft
Working width	: 5 293 mm / 17,4 ft	Length	: 6 240 mm / 20,5 ft
Gross weight	: 15 500 kg / 34 200 lb	Tufting	: Steel or Poly
Height	: 3 024 mm / 9,92 ft	Brush speed	: 0 - 720 rpm
Tire dimension	: 11.75 x 22,5	Electrical system	
Wheel rim dimension	: 9 x 22,5	Voltage	: 24 Volt
Hydraulic oil tank	: 100 l / 26,4 gal	Emergency stops	: 4 pc.
Diesel tank	: 400 l / 105 gal		

Diesel engine		Working speed	
Type	: MB OM 501 LA	Working speed, max.	: 65 km/h / 40 mph
Cylinders	: V6	Working speed, pract.	: 30 - 45 km/h / 19 - 28 mph
Power	: 315 kW	Clearing capacity	: Up to 325 000 m ³ h / 3 500 000 ft ³
Speed (working)	: 2 000 rpm		
Torque	: 2 000 Nm/1 080 rpm		

Centrifugal blower	
Type	: Radial
Volume	: 40 000 m ³ /h
Airspeed	: 140 m/s / 317 mph
Air tunnel	: In front of rear axle

Options RS 400^{7.5}

Choose what options you would prefer!



Nose wheel, upgrade.		Engine heater, 220 Volt. NATO standard socket. Battery charger, 220 Volt.	
Adjustable fifth wheel adapter, upgrade.		Rear view monitor.	
Central lubrication system.		Rear wheel steering.	
22 row brush axle, upgrade.		Interface snow plow functions. Makes it possible to co-ordinate the movements of the snow plow together with the sweeper.	
Automatic brush adjustment.		Anti corrosion treatment (TECTYL).	

ØVERAASEN RUNWAY SWEEPER RS 400^{7.5}



Experience the future
in airport snowclearing...



Manufactured by:

ØVERAASEN

ØVERAASEN AS
Roald Amundsensvei 1
NO-2810 Gjøvik
Norway

Tel.: + 47 61 14 60 00
Fax: + 47 61 14 60 01
e-mail: sales@overaasen.no
http://www.overaasen.no

Distributed in the USA by:

MYSLIK

MYSLIK, INC.
22751 Sunrise Drive
Morrison, Colorado 80465
United States of America
Tel.: + 1 303.697.9692
Fax: + 1 303.697.9693
e-mail: bmyslik@juno.com

...THE SNOW PROFESSIONALS!

RUNWAY SWEEPER RS 400^{7.5}

...Setting the standard!



In General

The RS series is one of the most modern runway sweepers on the market today. The modular RS series boasts a large brush diameter and sleek, elegant construction.

The Jumbo-sized runway sweeper RS 400 is a standard module in Øveraasen's Modular System of which more than 150 units are delivered worldwide. With its impressive 5,5 meter (18 foot) clearing width, it represents a lower total investment compared to conventional equipment:

- Snowclearing can be achieved with fewer machines.
- Less manpower is required.
- Less garage space is needed.

Øveraasen RS 400 is a major time-saver for airports with busy schedules:

- 1 170 mm (46 inch) brush diameter.
- 5,5 meter (18 foot) working width.
- 65 km/h (40 mph) working speed.
- Snowclearing easier to organize with fewer machines and less manpower.
- Proven reliability.

The Mercedes-Benz truck provides a new world of comfort for operators. Heated comfort seats, electrically adjustable and heated mirrors, heated wipers and windshields, rear view monitor, electronic power shift (or Allison transmission) are examples of qualities that can be offered.

The easy-to-use computerized control system ensures a smooth and co-ordinated maneuver of the snow plow and sweeper based on hydraulic cylinders. Repositioning the machine no longer requires inductive switches or sensors that can corrode or malfunction when exposed to chemical-laden snow ice, and water.

Check out the advantages!

ØVERAASEN

46-inch brush diameter

High airblower capacity

Proven reliability

Optimal snow removal quality

Higher working speed

The element snow plow is specially designed for use in combination with runway sweepers at airports. The plow employ a strong versatile reversible snowblade consisting of 9 pc. individual elements. This means the plow follows the surface very close.



No critical micro switches. Hydraulic cylinders have no middle position. One cylinder per movement.



Optimal snow removal quality
- Automatically controlled brush speed (revolution) in relation to forward speed and current brush diameter.
- Automatically adjustment of brush pattern. Option.
- Long lifetime of brushes.



Brush diameter increased from 915 to 1 170 mm / 36 inch to 46 inch.
- Same peripheral (tip) speed at lower revolutions and a flatter trajectory of thrown snow.
- Markedly higher working speed.
- Achievement of desired clearing speed with all brush diameters.



Mechanical floating function allows the brush to follow the ground surface well, with good level adjustment (brush pattern), even at high speeds.
Reacts instantly to uneven surfaces.



Engine compartment can be tilted totally backwards (electrically or by hand). Easy access to engine compartment for service and daily inspections. Free access to electrical installations, diesel engine, hydraulic components etc.



Durable high-tolerance electrical system. Cables and connections are safely protected against water, chemicals and corrosion.



Remote control panel for manual brush adjustment.



Easy-to-use control panel located in the drivers cabin.



Rust resistant hydraulic connections and fittings designed especially as protection against acetates and other chemicals.



All bolts, screws and nuts in rust resistant material. Protected against acetates and other de-icing agents.



All steel parts are sandblasted before a 150my "offshore" paint is applied. Sandblasting is a must to avoid rust and loose paint.



PSB 4500 PSB 5500



VAMMAS PSB 4500 and PSB 5500
 – Presenting a new level in snow removal efficiency

The VAMMAS 3-in-1 PSB-high speed concept has been proven for years both in Europe and North America. All PSB units are manufactured to the highest standards of quality and reliability. The PSB concept is for airports where speed and efficient snow removal are most important – both for the airports and for their customers.

The superbly engineered VAMMAS PSB takes multitasking to a new level, combining the efficiency of a snow plow, sweeper and air-jet blower all in one unit. The PSB unit is designed to give the operator maximum visibility with the unique VAMMAS cab. The machine is short, but still long enough to have the broom parallel to the frame in transport position making it easy to drive to the garage or service area.

VAMMAS PSB unit has both wheel and articulated steering, so it can turn around easily on taxiways and runways. The articulated frame steering also maintains optimally the same path for the plow, sweeper and air blower.

Faster clearing, less runway downtime. A better bottom line.

The wide PSB unit offers substantial savings in capital and labor resources for airport operators by dramatically reducing the need for large fleets of narrow or single function vehicles. Several airports using VAMMAS PSB units have 3 000 m (10.000 ft) runways that are cleaned to bare pavement in less than 10 minutes.

The latest technology for maximum performance in all conditions. The Advanced technology incorporated in to all PSB units includes:

- plows with independent spring-loaded cutting edge segments to maintain maximum contact area even on uneven surfaces
- dense cassette broom system for easy maintenance and option to use steel or polypropylene brooms or a mix broom
- powerful air-jet blower to remove remnants as well as snow from edge lights
- ergonomically designed 'control tower' cab, with operator in the center to have excellent, all-around visibility
- both engines and frame steering softwares are integrated into VAMMAS CAN-system for monitoring and diagnostics

For more info, please ask for the complete specifications.

Technical specifications	PSB 4500	PSB 5500
Total length in working position	18.2 m	21.1 m
Total width in working position	6.4 m	7.5 m
Total width in transport position, without plow	2.99 m	2.5 m
Wheel base	10.9 m	10.5 m + 1.4 m
Height	3.6 m	3.7 m
Weight, without plow	23 t	31 t
Turning radius:		
- from outer plow end	13.6 m	16.3 m
- from outer front wheel	11.1 m	10.9 m
- from inner plow end	6.4 m	7.6 m
- from inner front wheel	8.6 m	9.0 m
Plow total width (37°)	6.75 m	7.5 m
Plow total width (0°)	7.6 m	9.0 m
Plow working width (37°)	5.6 m	6.7 m
Plow angle left and right	37	37
Broom core length	5.7 m	6.72 m
Broom working width (std 35)	4.6 m	5.5 m
Broom maximum diameter	960 mm	960, 1150, 1170 mm
Swing angle left and right (std 35°)	30° - 40°	30° - 40°
Caster wheels, automatic adjustment	2 pairs	4 pairs or 2 single
Air flow	10 cu m/s	11 cu m/s
Air speed at nozzle	400 km /h	400 km/h
Recommended max. working speed	40 - 60 km/h	40 - 60 km/h
Drive engine – US Tier 3 / EU Stage IIIa	Caterpillar C11	Caterpillar C15
	287 kW	354 kW
Aggregate engine – US Tier 3 / EU Stage IIIa	Caterpillar C11	Caterpillar C15
	313 kW	354 kW
Voltage	24 V	24 V
Transmission, Allison 4000 RDS automatic	6 forward + 1 reverse	6 forward + 1 reverse

Snow How

Vammas Snow Removal



Fortbrand Services Inc.
50 Fairchild Court Plainview
New York 11803
USA
Tel. +1-516-576-3200
Fax +1-516-576-3221
www.fortbrand.com

Fortbrand Services Inc.
Vammaksentie
Building R 14
38210 SASTAMALA
FINLAND
Tel. +358 10 2896 101
Fax +358 3 5115 336
www.vammas.com



Vammas
Airport Snow Removal Equipment