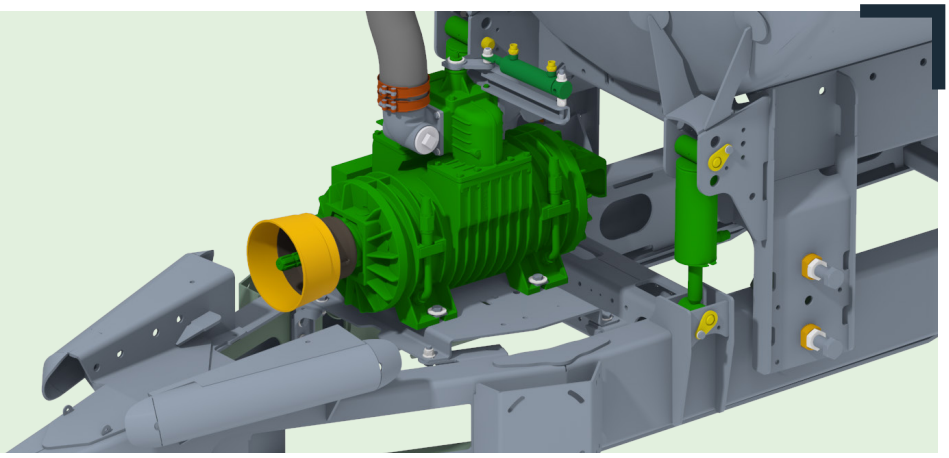
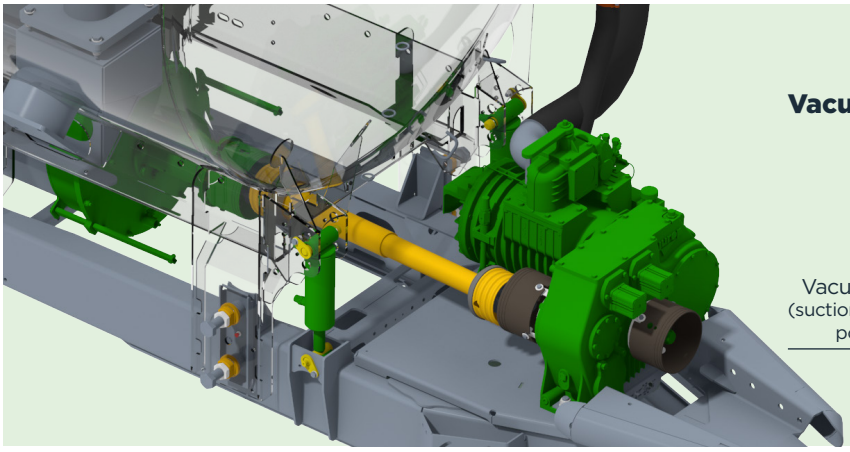
TECHNICAL FOCUS ON
VACUUM, VACU-STORM AND GARDA/JULIA PUMPS

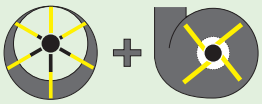
Technical Guide for Choosing the Right Pump

Vacuum pump



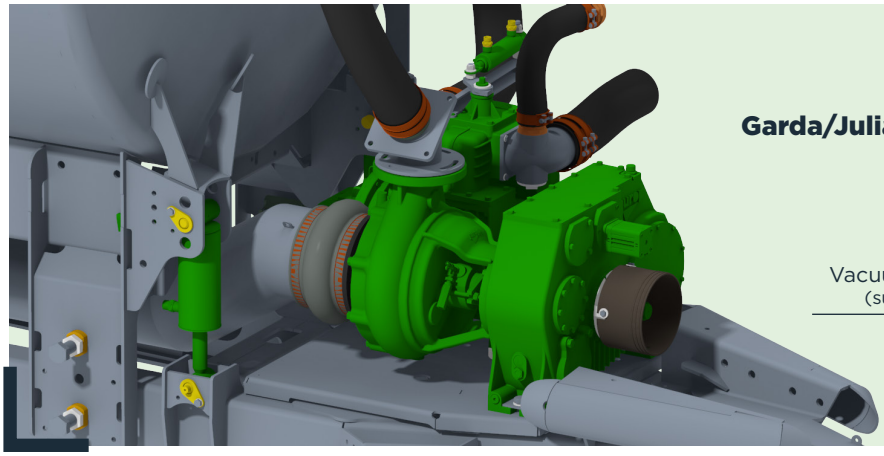


Vacu-Storm: 10,000 l/min (max. 6 bar) and tank mixing

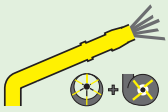


Vacuum pump (suction - discharge possible)

Centrifugal pump (discharge)



Garda/Julia: 5,000 to 7,000 l/min (max. 6 bar)



Vacuum pump (suction)

Centrifugal pump (discharge)

JOSKIN®

A GOOD CHOICE OF SLURRY TANKER STARTS WITH A

GOOD CHOICE OF PUMP!

Vacuum Pump

Vane Compressor

Model	rpm	Max. air flow (l/min)	Lubrication	Cooling
BATTIONI PAGANI				
MEC 4000	540	4,350	Forced	Traditional
MEC 5000	540	6,150	Forced	Traditional
MEC 6500	540	7,000	Forced	Traditional
MEC 8000	540	8,100	Forced	Traditional
JUROP				
PN 106	540/1,000	11,000	Forced	Traditional
PN 130	540/1,000	12,900	Forced	Traditional
PN 155	1,000	15,200	Forced	Traditional
PNR 155	1,000	15,500	Forced	Air injection

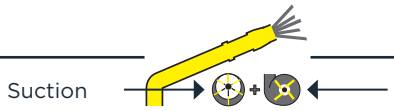
Lobe Compressor

JUROP model	rpm	Max. air flow (l/min)	Temperature alarm	Lubrication
DL 180	1,000	17,600	Standard	No friction (minimum overheating): no need to grease.
DL 250	1 000	25 000	Standard	

Vacu-Storm

JUROP model	rpm	Vacuum pump		Centrifugal pump (Storm)	
		Max. air flow (l/min)	Max. air flow at 60% vacuum (l/min)	Max. pressure (bar)	Max. flow (l/min)
PNR 130 – Storm 10000	1,000	12,900	11,400	6	10,000
PNR 155 – Storm 10000	1,000	15,500	13,850	6	10,000

Garda/Julia

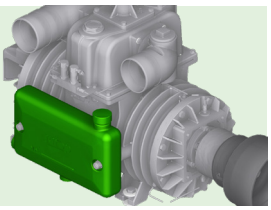


Model	rpm	Vacuum pump	Centrifugal pump	
		Max. air flow (l/min)	Max. pressure (bar)	Max. flow (l/min)
BATTIONI PAGANI				
MEC 4000 – GARDA 6500	540	4,350	6	6,500
MEC 5000 – GARDA 6500	540	6,150	6	6,500
MEC 6500 – GARDA 6500	540	7,000	6	6,500
MEC 8000 – GARDA 6500	540	8,100	6	6,500
JUROP				
PN 106 – JULIA 5000	540	11,000	6	5,000
PN 130 – JULIA 7000	1,000	12,900	6	7,000
PNR 155 – JULIA 7000	1,000	15,500	6	7,000
DL 180 – JULIA 7000	1,000	17,600	6	7,000
DL 250 – JULIA 7000	1,000	25,000	6	7,000

Standard ✓ or Optional Equipment +

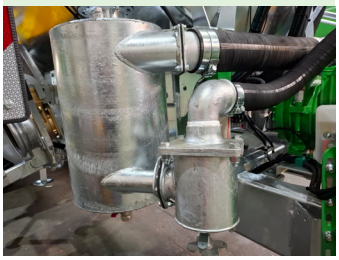
Stand with oil bottle (5 l) for MEC and PN vacuum pumps.

Oil tank for level monitoring and lubrication of vacuum pumps (standard on PN 130, PN 155 and PNR 155).

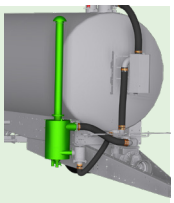


Special JOSKIN pressure relief valve (Ø 150 mm) (standard with PN 130, PN 155 and PNR 155)

ECOPUMP: silencer, high air intake and oil separator, with spreading pressure control valve.



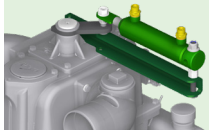
Self-cleaning syphon of 30 or 60 litres depending on the pump, to protect the pump against the entry of slurry.



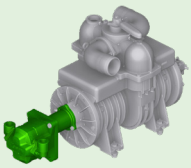
Air intake on valves under the tank to keep the slurry tanker clean.

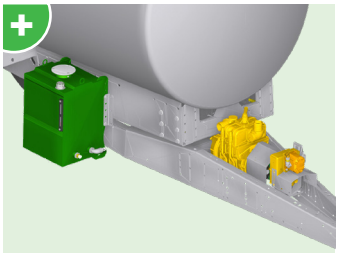
(A) Transparent filling safety.
(B) Pressure relief valve.

Air flow reverser with hydraulic control (suction - discharge).



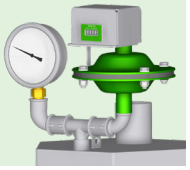
Hydraulic pump drive on tractor hydraulics.

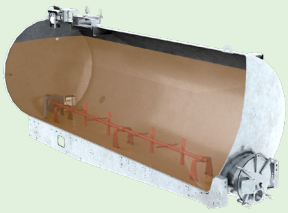




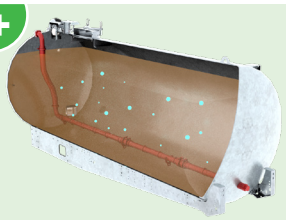
Autonomous 60 l/min hydraulic installation driven by a 1,000 rpm P.T.O.-shaft.

Pneumatic tank counter (vacuum).

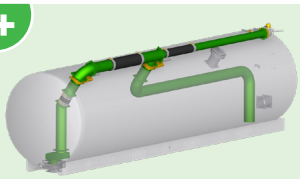




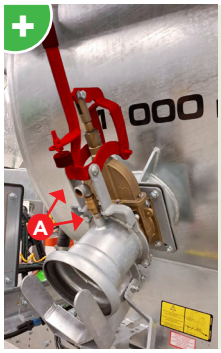
Hydraulically controlled mixing in the tank



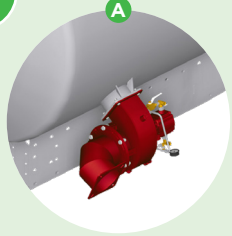
Air mixer in the tank (incompatible with DL pump).

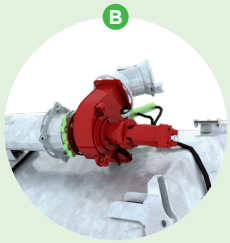


Mountain discharge system with slurry intake at the front or rear of the tank, depending on the terrain slope.



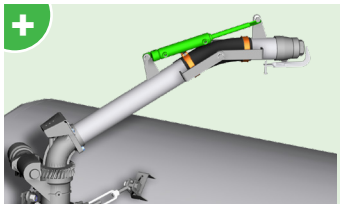
Side valve with automatic air inlet A for draining pipes when the valve is closed.





High-flow Ø 6" or 8" turbo-filler (flow with 8" turbo corresponds to 2 x 6").
(A) For suction. **(B)** For spreading.

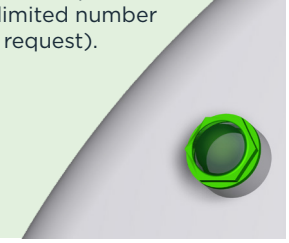
CE-compliant exact scatterer with quick-fold system for on-road use.



Garda gun for 6-bar spreading in difficult or mountainous terrain (standard with Garda/Julia). Slurry spreading by pump at higher pressure from 50 to 100 m depending on slope angle and wind direction.

Automatic lubrication for pivoting parts

Ø 2" hemispherical sight glasses (option, unlimited number on request).



300 x 80 mm sight glass (option, unlimited number on request - standard on Vacu-Storm).

Fully transparent Ø 150 mm level indicator

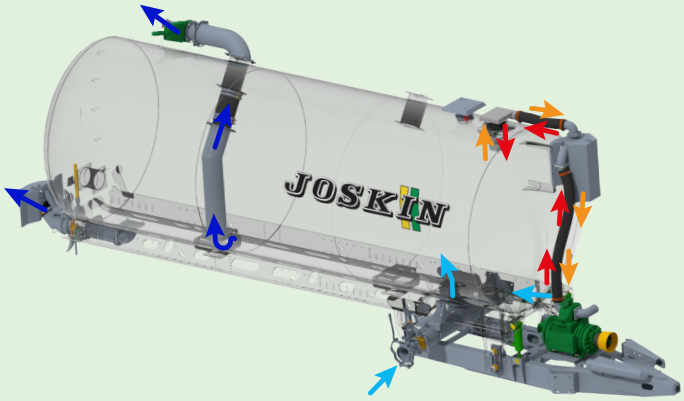
VACUUM, VACU-STORM AND GARDA/JULIA PUMPS

To choose the right slurry tanker, it is first and foremost **essential to choose the right type of pump**. JOSKIN offers several systems for use with different spreading implements.

VACUUM SYSTEM

Creation of an air vacuum in the tank so that the slurry can be sucked in, and an overpressure to discharge the slurry (no slurry in the pump). Simplicity and low power required.

Available on all JOSKIN slurry tanker ranges.

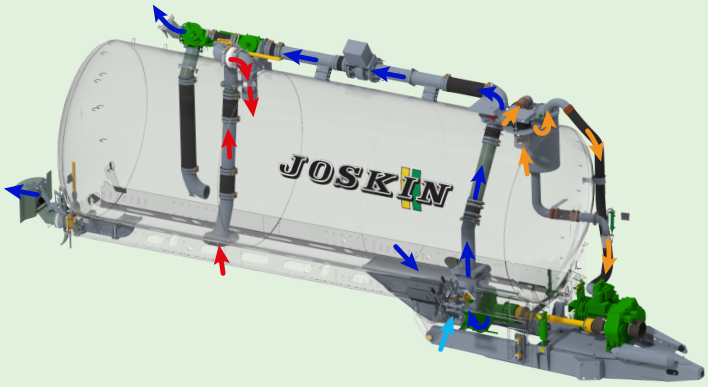


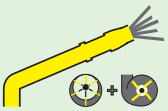
VACU-STORM SYSTEM

Vacuum system for slurry suction and Storm centrifugal system (6 bar max.) for high-capacity, high-pressure discharge.

Available on:

- ***Volumetra,***
- ***X-Trem2,***
- ***Cobra2,***
- ***Euroliner.***



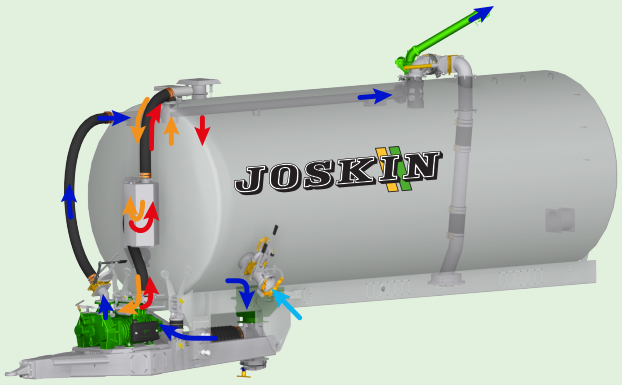


GARDA/JULIA SYSTEM

Compact unit with vacuum system for slurry suction and Battioni Pagani Garda or Jurop Julia centrifugal system for discharge.
5,000 to 7,000 l/min at max. 6 bar

Available on:

- ***Alpina2,***
- ***Modulo2,***
- ***Volumetra.***



Slurry discharge · Slurry suction/filling · Air inlet at discharge · Air outlet at filling

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