

## NURMAK DRY INDUSTRIAL VACUUM (13 M3) SPECIFICATIONS

### ABOUT PRODUCT:

NURMAK DRY INDUSTRIAL VACUUM (13 M3) is suitable for handling and transporting dry material in the form of powder or grains. Tank Code S4AH in compliance with ADR.

The NURMAK DRY INDUSTRIAL VACUUM (13 M3) is designed to be installed on a suitable ADR 6x4 Truck to grant the best and safest operation. The machine has a Tri-lube helix pump that can generate 6400 m<sup>3</sup>/h of flow. Which will grant highest performance of material suction for the industrial applications.

### MIN CHASSIS REQUIREMENT

Axle	6x4
Power	280
GVW	33 ton
Wheelbase	4750 - 5100

**NOTE** : - Chassis to be provided by client, HAYAKIL can support to arrange chassis upon customer request.  
- Recommended chassis MAN TGS 33.360 6x4 ADR

### EQUIPMENT TANK INFORMATION

Volume	: 13 m <sup>3</sup> sludge tank
Sludge Tank	: Cylindrical shaped made by 5 mm stainless steel AISI 304 (flowered, not painted) with as external support rings.
Front & Rear Lids	: Dome shape thickness of 6 mm AISI 304 (flowered, not painted)
Rear Lid	: Vertically opening by 2 hydraulic cylinder unit with safety lock. Locking by 4 Hydraulic pistons.
Chassis	: NPI200 section corban steel with a hook at the front and two wheels at the back.
Cabinet	: Two walls around the pump configurations made from stainless steel with shutters and locks.
Tipping	: Up to 30° with a hydraulic Piston, with a safety lock in case of frailer.
Level Indicator	: Level indicator for powders with rotating fan
Discharging Spillway	: A stainless-steel deflector fixed to the rear of the tank.
Sludge Suction	: Pneumatic controlled Knife type, 6" valve with quick coupling. Incorporated also a detachable inner tube (Swan neck) straight without curves with interchangeable final flow deflector.
Sludge Discharge	: Pneumatic controlled Knife type, 8" valve with quick coupling and male threaded pipe
Air flow diverters	: YES in the tank
Flow deflectors	: YES between tank and filter bag house

### REAR DOOR

Shape	: Dome shape made from 6 mm stainless steel 316L
Open/close	: By an upside hinge, vertically opening type, hydraulically with 2 hydraulic cylinder units.
Lock	: By automatic 4 Hydraulic Piston Locking System Units.
Seal	: There will be a rubber seal around the door to prevent any leaking

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Sludge Suction	: ADR approved Manual operated ball type SS316L, 6" suction valve with quick coupling and pneumatic lock.
Sludge Discharge	: ADR approved Manual operated ball type SS316L, 6" Discharge valve with quick coupling and pneumatic lock.
Protection pipe	: There will be pipes to protect the door, valves, and the other components in case of accidents
Mechanical Indicator	: Mechanical level indicator. Inner floating ball with an external arrow
Discharging Spillway	: A stainless-steel deflector fixed to the rear of the tank to protect the chassis and other components



### VACUUM SYSTEM

Vacuum Pump	: JUROP HELIX1200, 6400 m <sup>3</sup> /h, 175 kW.
Suction system	: Vacuum only (no pressure)
Drive Type by	: Diesel engine with pneumatic clutch, belts and pulley
<b>Safety Sensors</b>	: Double maximum temperature safety sensors.
<b>Exhaust</b>	: Exhaust and intake silencers

### DRAY SUCTION FILTERS FILTER BAG HOUSE

- Cylindrical Separator House made by 5 mm stainless steel AISI 304 (flowered, not painted)
- Top door made by 5 mm stainless steel AISI 304 (flowered, not painted) with 90° opening by 2 hydraulic cylinder unit with safety lock. Locking by 2 Hydraulic pistons.
- Self-cleaning by timed pneumatic Knife type 6" valve placed on top of Top door.
- Capacity for 27 m<sup>2</sup> of filter surface (diameter of a single filter bag: 130 mm x 49 nos)
- Hydraulically operated internal hatch for dust unloading into the tank

### SAFETY FEATURES

Overflow shut off	: A stainless steel float ball system to stop the system when the body is full.
Over flow protection	: A stainless steel ball blocks the vacuum installation and prevents debris from carrying over into the vacuum inlet during transportation.
Safety filter	: A stainless steel filter and a discharging valve between the cyclone and the pump
Over Pressure Safety	: A safety relief valve to prevent overpressure inside the tank.
Vacuum-Pressure Safety	: A safety relief valve to prevent Vacuum pressure inside the tank.

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Rupture Disc	: 65mm ICON (FS) Continental Rupture Disc
Anti rollers	: As per ADR regulations
Grounding	: Earth reel

### MAIN SYSTEM CONTROL PANEL

**System Control:** The system is driven by a stainless steel control panel fixed on the backside of the tank which contains the below subunits:

- Engine RPM Indicator
- Engine Gas Joystick (+ / -)
- Hydraulic Oil Pressure Indicator
- Pneumatic system pressure gauge
- Vacuum Pump (On/Off) Button
- Vacuum-Meter Indicator
- Working light Control Button
- Vacuum Pump Working Hours
- Discharge valve controller
- Suction valve controller
- High vacuum pump temperature indicator
- Rear Door Open/Close Buttons
- Rear Door locking Buttons Rear
- Baghouse filter Door open/Close Buttons
- Baghouse filter Rear Door locking Buttons
- Opening/closing of the inner dust hatch
- Vibrators (On/Off) Button
- Emergency Stop Button

### STANDARD ACCESSORIES

Hose Trays	: Nos.2 Hose trays made in stainless steel with doors and locks
Warning Lamp	: Led type - no.1 placed on the rear of the tank.
Searchlight	: Led type - no.2 placed on the rear of the tank
Light	: Led type working light on extendable support and orientable with 14 m of wire.
Vibrators	: N° 2 Pneumatic vibrators on tank for material unloading
Washing kit	: 500 L clean water, 200 l/min @ 20 bar pump, 30m Manuel hose reel, 30m ½" hose, washing gun, with all needed accessories. (optional)

### On request Features

- Wet Suction feature
- Tank painting (Outside color will be chosen by the customer)
- Remote control
- Suction boom
- Foldable Exhaust
- Grounding verification System to prevent the system from working without continues Grounding verification

### Certification and catalogs

QA/QC Certification : HAYAKIL QA/QC department will provide full vehicle inspection and test certification.

Catalogs : 2 units of operation and maintenance catalogs along with spare parts catalogs in English are provided with each product.

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### **EDUCATION INFORMATION**

An operating and maintenance training for the buyer personnel is provided in our factory till it's believed all necessary details are shared

### **WARRANTY CONDITIONS**

This equipment is under our warranty for any fault caused by manufacturing, material, and worker errors for 1 year after the date of delivery or 150 working Hours which comes first.