

Vacuum Conveyor HPVa1000



Vacuum Conveyors for the Transportation of Screenings
from Screens to distant Wash Presses

- Vertical lift of up to 30 ft (9 m) or
- Horizontal distance of up to 100 ft (30 m)
- Capacity of up to 140 ft³ per hour (4 m³/h)
- Enclosed system preventing odor nuisance and hazards



►► Features

HPVa1000 conveyors use vacuum suction to transport screenings from one or several screens, e.g. from Huber STEP SCREENS® or ROTAMAT® screens, through a pipeline to a Wash Press (WAP).

The screenings drop from the screens into one or several hoppers. When a batch of screenings has collected in the hopper, the batch of screenings is evacuated from the hopper and pulled through the pipes. The screenings are drawn into a reception unit from where they drop into the hopper of a Wash Press

underneath. After being washed and compacted in the Wash Press the screenings are discharged into a container or dumpster.

HPVa1000 conveyors lift and transport the screening over long distances. They are used to remove screenings from locations that are difficult to access and/or have a low elevation. The reception unit can be located in a convenient and elevated location. HPVa1000 conveyors provide for effective, easy and clean collection, transportation and treatment of screenings.

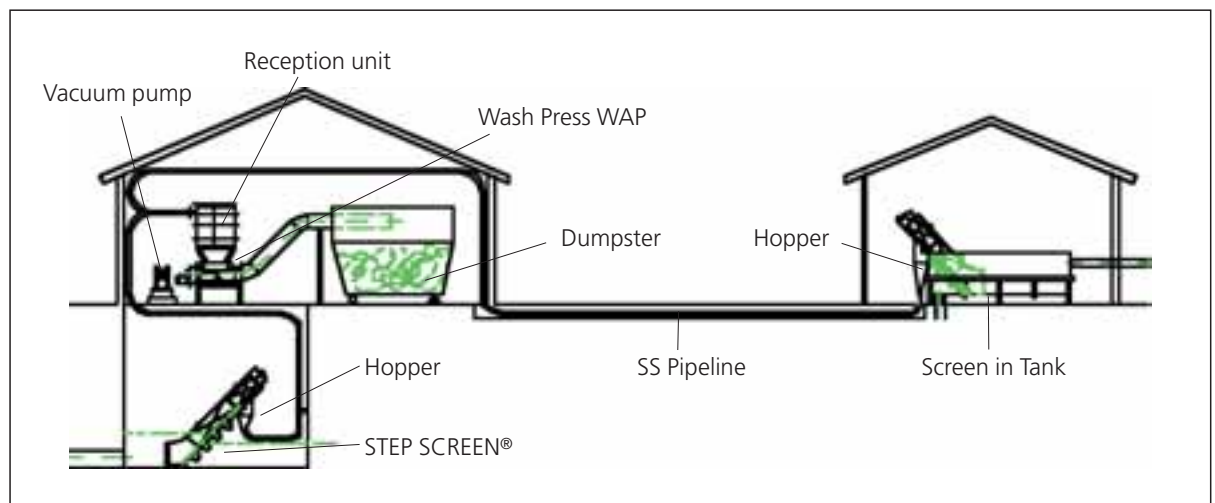
►► Function

The system consists of a reception unit, a vacuum pump, one or several hoppers at the screens, pipelines connecting the hopper(s) to the reception unit and the reception unit to the vacuum pump respectively, and controls for the system.

The control panel receives a signal from the screens indicating that a batch of screenings has been discharged into a hopper. The vacuum pump evacuates the reception unit and pipe system. When the vacuum pressure in the reception unit is sufficient, a valve at the hopper is opened and the screenings are evacuated from the hopper and pulled through the pipeline into the reception unit. The remaining vacuum in the

reception unit is released, a slide gate at the bottom of the reception unit is opened and the screenings drop out of the reception unit into the hopper of a Wash Press. An operation cycle of the wash press is started and the washed, dewatered and compacted screenings are discharged into a container.

A vacuum buffer tank can be added to systems for high capacity or long distance transportation (long vacuum pipes). Such a buffer tank is evacuated by the vacuum pump while the screenings are discharged from the reception tank. It also increases the available vacuum volume.



►► Benefits

- Capability of lifting (up to 30 ft or 9 m) and long distance (up to 100 ft or 30 m) transportation
- Capacity of up to 140 ft³ per hour (4 m³/h)
- Several screens can be served by a single system
- Permits installation of the reception unit in a convenient location and above a Wash Press
- Entirely enclosed and clean system preventing odor nuisance and operator hazards
- Long life and low maintenance due to use of stainless steel components



Vacuum Conveyor System in Magna, UT: Reception Unit (center) above a WAP, Vacuum Pumps (background right), and Grit Washer RoSF4 (left)



Knife gate at a screenings hopper and second vacuum conveyor line



Screenings hopper at a STEP SCREEN® SSV



Vacuum Conveyor system in North Davis, UT: Vacuum Buffer Tanks (background) serving several STEP SCREENS® SSV (foreground)

HUBER TECHNOLOGY, Inc.

9805 NorthCross Center Ct.
Suite H
Huntersville, NC 28078

Phone: (704) 949 - 1010

Fax: (704) 949 - 1020

huber@hhusa.net

<http://www.huber-technology.com>

Subject to technical modification

**Vacuum Conveyor
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