

OMEGA NHP

BELT FILTER PRESS

Continuous mechanical dewatering of municipal and industrial sludge.

Five models, 39" to 118" belt width, 35 to 132 GPM.



Stainless steel
construction



H2S ventilation
system



Easy access for
maintenance



Call Us Today
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OPERATING MODE

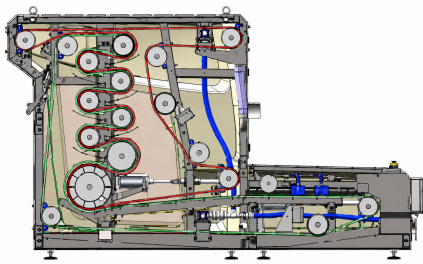
The OMEGA press consists of a stainless structural frame supporting the sludge inlet and distribution assembly, a long gravity thickening zone, an adjustable medium pressure section and a high pressure “S” shaped zone.

It carries a variable speed drive, a continuous belt rinse section, automatic belt tracking and automatic belt tensioning systems, filtrate collection pans, internal wiring and piping, and an optional electric control panel.

- 1 **Sealed internals** — components are kept clear of sludge exposure
- 2 **Adjustable feet** — level operation on existing civil works
- 3 **Access doors** — belts and spraybars reachable without dismantling



FEATURES & BENEFITS



1 Roller configuration

The roller arrangement gives optimized sludge treatment, and the progressive press section is arranged to deliver maximum cake dryness through the high pressure “S” zone.

2 Proprietary belt wash system

A dedicated belt wash system keeps the filtration media clear through every cycle, which increases belt life and holds dewatering performance steady between belt changes.



FEATURES & BENEFITS



3 Easy access for maintenance

Access doors open the full width of the machine so belts and spraybars can be serviced without dismantling. Internal components are sealed from sludge exposure, which extends their service life.

4 High quality components

Stainless steel construction throughout the wetted assembly, with a high-strength galvanized or stainless steel frame for long life and minimum maintenance.

5 Low energy consumption

The press is arranged for low energy consumption and low operating cost, with a variable speed drive matching throughput to the sludge actually arriving.

6 H₂S ventilation system

A highly effective ventilation system removes H₂S efficiently and safely, improving working conditions around the machine and in the dewatering building.



INSTALLATIONS



Municipal installations

The NHP is supplied as a fully enclosed unit for permanent installation, or built into a container as a mobile dewatering unit for temporary and campaign duties.



SPECIFICATIONS

Model	Belt width	Dimensions (l x w x h)	Sludge flow (GPM)
HP 1000	39"	12'-8" x 6'-7" x 7'-5"	35
HP 1500	59"	12'-8" x 8'-3" x 7'-5"	57
HP 2000	79"	12'-8" x 9'-10" x 7'-5"	79
HP 2500	98"	12'-8" x 11'-6" x 7'-5"	110
HP 3000	118"	12'-8" x 13'-1" x 7'-5"	132

DESIGN GUIDELINES

MATERIALS

Wetted assembly : stainless steel

Frame : high-strength galvanized or stainless steel

PROCESS SECTIONS

Long gravity thickening zone

Adjustable medium pressure section

High pressure "S" shaped zone

SYSTEMS

Variable speed drive

Continuous belt rinse, automatic tracking and tensioning

Filtrate pans, internal wiring and piping; optional control panel



Omega NHP in a municipal dewatering building

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