

Slurry Pump Solutions for General Industry

Application:

Decant Canal Vertical
Cantilever Pump

Slurry:

Decant water with solids

Flow rate:

5000 gpm (1135 m³/hr)

Head:

90 ft (27.4 m)

Pump:

Hazleton 10-26 VNCT -
Vertical Cantilever- 9 ft. pump
setting (bottom of pump -
bottom of motor plate) plus
4'-8" long tailpipe with strainer

Pump materials:

High chrome iron wet end
with 4340 steel shaft

Motor:

200 hp (150 kw) 1200 rpm -
V-belt drive

Features:

Custom mounting plate with
separate motor mounting
stand and guard. Custom PVC
coated strainer. Automatic
grease lubrication system.



Weir Minerals Hazleton Vertical Pumps Outlast the Competition

On the banks of the Savannah River is one of the most productive paper mills in the world, producing light, medium and heavy weight coated paperboard. The paperboard is used for packaging in several industries, including food, tobacco, video and home entertainment products.

In the papermaking process, the wastewater discharged from several parts of the plant is collected in a central canal. This canal, known as the Decant Canal, tends to accumulate all kinds of tramp material ranging from pulp to rags, bottles and wood. This material is settled out, and a set of three canal pumps are used to pump the wastewater back to the plant for recycle. After several years of problems with



1. Decant canal platform awaiting installation of the VNCT between the competitors pumps
2. Paper mill

a competitor's vertical pumps in the Decant Canal, the customer decided a change had to be made. The time between rebuilds had been reduced to less than 10 weeks, resulting in expensive rental pump fees and constant downtime. The paper mill turned to the slurry specialists at Weir Minerals Hazleton because of their reputation for providing engineering solutions where others have failed. After examining the application details, the engineers at Hazleton quickly decided the only pump capable of handling the service is the extreme duty VNCT vertical cantilever.



The VNCT pump dwarfs the competition, with high chrome construction, front and rear wear plates, and large diameter impellers for slow-speed operation. The customer was amazed at the pure size difference between the VNCT and the competition, with the Hazleton® pump weighing almost 2.5 times the competitors pump.

Several months after the installation, the pump was pulled and inspected to determine wear life. The customer was so impressed with what they found, they decided to order two more pumps to replace the remaining verticals. For the past 95 years, customers have continued to use Hazleton® pumps in applications where downtime is unacceptable. When it seems like there is no solution, count on Weir Minerals Hazleton to solve all your maintenance nightmares.



1. Lifting the VNCT into place on the Decant Canal Platform. Because of the VNCT's success, the other two pumps are also being replaced with Hazleton cantilevers.

2. Completed VNCT installation with separate motor support and v-belt drive

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