



# Hutchison Hayes Separation Inc.

## HH 1456



The HH Horizontal Decanting centrifuge has a vast field of applications in various Processes where liquid phases of different specific gravities and a solid phase have to be continuously separated.

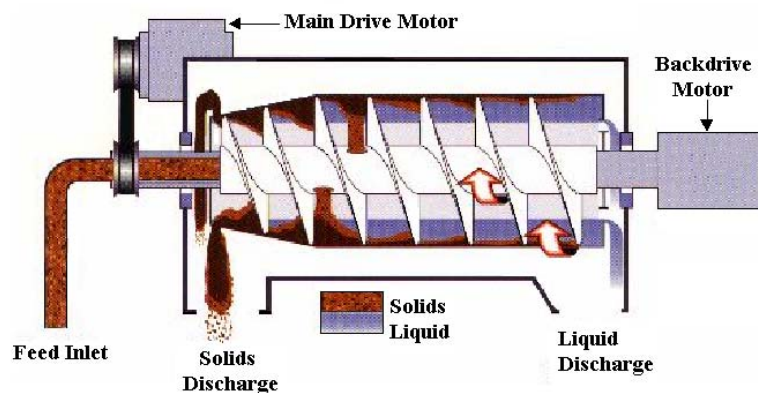
### How a decanter works.

The centrifuge is fed through a stationary pipe, which is inside a hollow shaft connected to the screw conveyor (scroll.) There it enters a feed compartment (inside of the conveyor) and is accelerated through feed slots into the inside of the bowl. Once inside the bowl, centrifugal forces accelerate the solids. They are then collected on the inside diameter bowl wall and the liquid forms a concentric annulus and fills the bowl to the level of the effluent dam/weirs.

The screw conveyor, which is connected through a coupling to a gearbox, turns slightly slower than the bowl. Since it is turning slower and the helix is angled toward the small diameter (conical end) the solids are then conveyed along the inside diameter of the bowl to the solids discharge end.

The liquid flows around the screw conveyor and exits through effluent dam/weirs located on the large diameter (cylinder) end of the bowl. Solids, which do not settle to the inside diameter of the bowl (floaters), are carried out with the liquid through the effluent weirs.

Effluent dams/weirs that are adjustable control the amount of liquid inside the bowl. The maximum volume (pool) forms an annulus diameter, which is smaller than the solids discharge



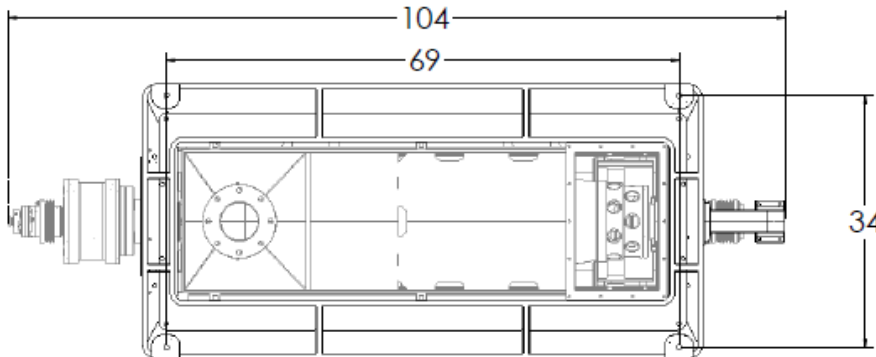
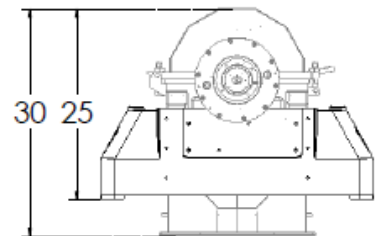
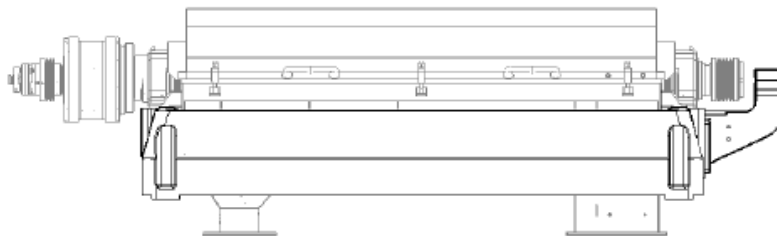
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<b>TECHNICAL DATA SHEET</b>			
<b><u>MODEL HH-1456</u></b>			
<b>MAXIMUM RATED CAPACITY</b>	<b>200 GPM</b>	<b>Maximum RPM</b>	<b>4000 RPM</b>
<b>Minimum temperature</b>	<b>30°F</b>	<b>The maximum speed of the Bowl must not be exceeded.</b>	
<b>Maximum temperature</b>	<b>212°F</b>	<b>Bowl speed low</b>	<b>1750 RPM</b>
<b>Capacity</b>		<b>Bowl speed High</b>	<b>3250 RPM</b>
<b>Finished Surimi</b>	<b>772 Lbs/hr</b>	<b>Run up time</b>	<b>5 minutes</b>
<b>Rendering of Animal Bone</b>	<b>6614 Lbs/hr</b>	<b>Run down time</b>	<b>10 minutes</b>
<b>Materials</b>		<b>Main motor</b>	<b>40 HP</b>
<b>Frame</b>	<b>cast iron</b>	<b>Back drive motor</b>	<b>20 HP</b>
<b>Covers</b>	<b>316 Stainless steel</b>	<b>Gear box ratio</b>	<b>1:52</b>
<b>Bowl</b>	<b>317 Stainless steel</b>	<b>Gear box torque</b>	<b>3.5 kNm</b>
		<b>Net weight</b>	<b>480 Lbs</b>
		<b>Gross weight</b>	<b>590 Lbs</b>
		<b>Volume</b>	<b>22 Cu. Ft.</b>



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