

# DECANTING CENTRIFUGE

**DC**



## DECANTING CENTRIFUGES

HIGH-SPEED, HIGH-VOLUME  
LIQUID / SOLID SEPARATION PROVIDING  
PRECISE CONTROL OVER SOLIDS  
CONCENTRATION AND RELIABLE,  
CONSISTENT OPERATION



**414**  
DECANTING CENTRIFUGE



# HIGH-SPEED HIGH-VOLUME

A wide range of equipment and systems  
for a wide range of industries

## HIGH-PERFORMANCE DEWATERING CENTRIFUGES

SWECO® Centrifuges are the premier high-speed, decanting centrifuges for fluids cleaning and solids removal and product recovery applications.

Ruggedly built for industrial service, they are especially effective in environmentally sensitive areas. They deliver high recovery rates and efficient solids separation to significantly reduce disposal costs or reclaim

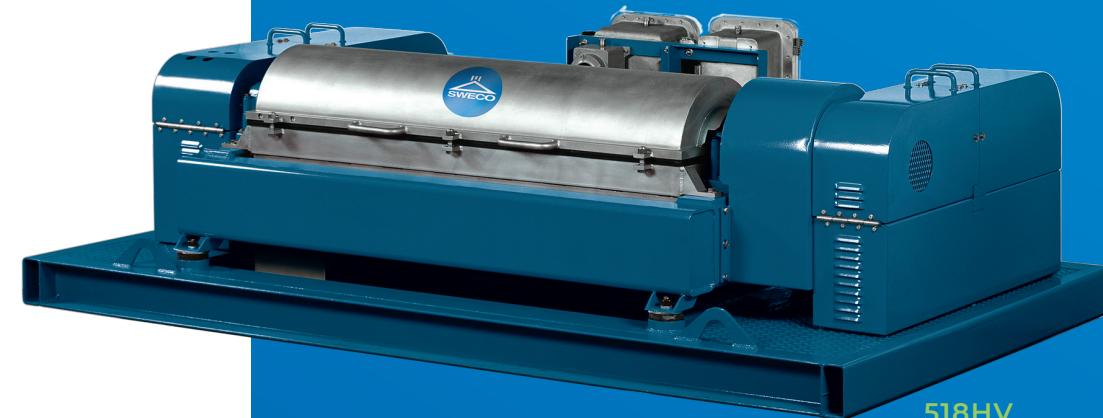
valuable material from process streams.

The centrifuges are precision-balanced for smooth operation over long periods at high RPM speeds, generating extremely high G-forces.

They boast infinite speed adjustability of main bowl drive and backdrive. Customer supplied variable frequency

drives (RTAs function between 1900-3200 RPM) allows low amperage start-ups and eliminates troublesome sheave changes.

Stainless steel wetted parts, tungsten carbide hard facing on bowl and scroll, as well as superior gearbox construction make these durable and rugged centrifuges.



**518HV  
DECANTING CENTRIFUGE**

## PRIMARY INDUSTRIES

Energy (Power Plants)  
Pulp & Paper  
Agriculture

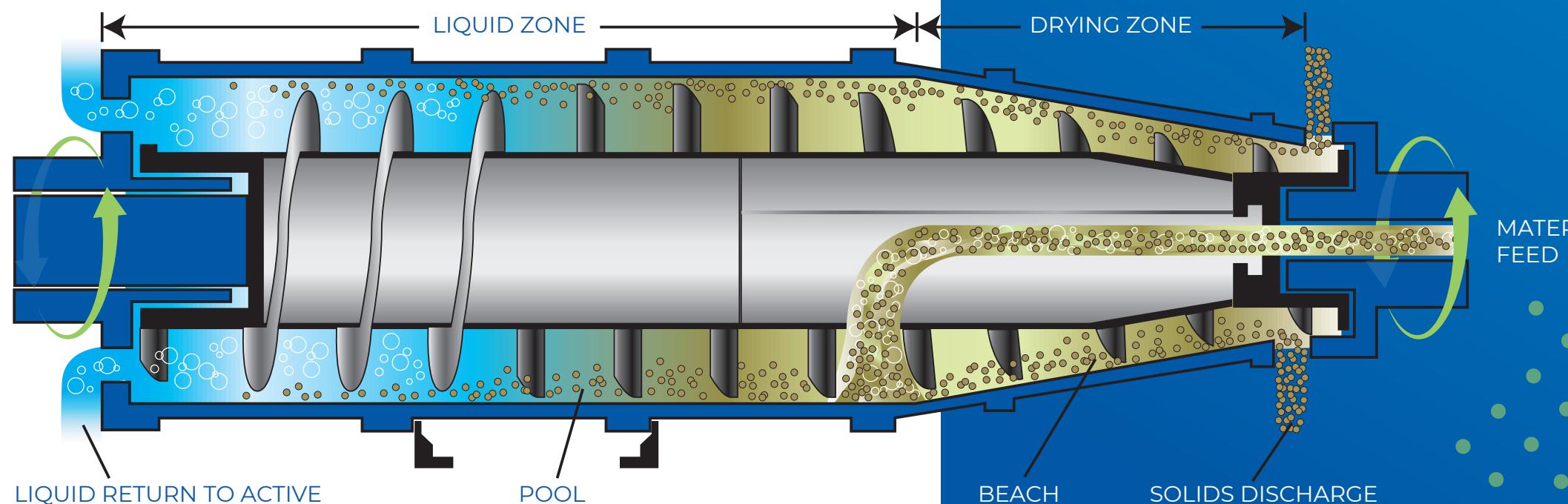
Refineries  
Municipalities  
Chemical

Food & Beverage  
Waste Oil  
Mining

## HOW IT WORKS

The heart of a SWECO Centrifuge is its high-speed, precision-balanced rotating duplex steel bowl. Inside the bowl a screw conveyor rotates in the same direction as the bowl but at a slightly slower RPM. Feed slurry enters through a hollow feed chamber accelerated to speed and then distributed throughout the bowl.

Centrifugal force as high as 2,616 G's holds the slurry against the bowl wall in a "pool". Trapped particles settle and spread against the bowl wall where they are scraped and conveyed to the solids under-flow discharge ports by the tungsten carbide-tipped scroll flights. Particles exit damp, but with no free liquid through the hardened discharge ports. Coupled with a variable speed bowl and backdrive (differential) the SWECO Centrifuge has the flexibility to adapt to almost any solids separation application and is ideal for high volume dewatering applications.



## RENTAL UNITS AVAILABLE

SWECO has a variety of rental units available for customers wanting to perform feasibility testing prior to purchase or for one-time processing.



# LONG SERVICE LIFE LOW MAINTENANCE COST

## HIGH VOLUME

solids removal while processing up to 400+ GPM of feed (rated with water)

## FULLY VARIABLE SPEED MAIN & BACK DRIVE

allows maximum control of solids dryness and throughput

## TUNGSTEN CARBIDE TILED CONVEYOR

with improved feed zone minimizes chemical consumption and improves cake dryness

## DYNAMICALLY BALANCED

to run at high speed for extended periods with greater efficiency, minimizing maintenance and downtime

## DUPLEX A890 BOWL & SCROLL

with 304 stainless steel compartment and feed pipe are corrosion resistant and provide long service life



SWECO has sales agents and/or  
licensees in most countries.

### Manufacturers worldwide rely on SWECO.

We span five continents with  
9 manufacturing and support  
facilities and over 100 sales and  
service representative offices.

So, wherever you are, be assured  
that SWECO – the global leader  
in screening technology –  
is there when you need us.