



CROWN

MACHINERY

B l o o d T u b u l a r S e p a r a t o r S e r i e s



Crown Machinery **HIGH SPEED CENTRIFUGES**

For Animal Blood Powder Production

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Base on 30 years for tubular separator design and market experience, Crown Machinery designed and manufacture the China made tubular separator, earn a reputation and good feedback from global customers.

Blood powder (animal) is the collection of quarantine health of fresh blood, through high temperature and pressure dispose, rupture, bleaching, low temperature drying and other processes made of high quality protein feed, with digestibility and safety, is high quality Animal protein source, suitable for livestock and aquatic animals, the daily food preparation. Centrifugal separator as a membrane filter pre-treatment equipment., which separate and extract the blood cell and plasma.

TSX SERIES SEPARATION TYPE



The Crown Machinery TSX series of tubular separator can be configured as a three phase solutions (Plasma and Blood cell). with the advantage of widely range in animal or human blood, accurate in plasma and blood cell separation, high yield of plasma, special design ensure the blood cell will not be destroyed.

SWING TYPE

Considering of female workers , the swing type can easily pull out the bowl and fit it on the bowl wheel holder. Contrasting with the Open type it need to manually swing the machine body into the horizontal level.



OPEN TYPE

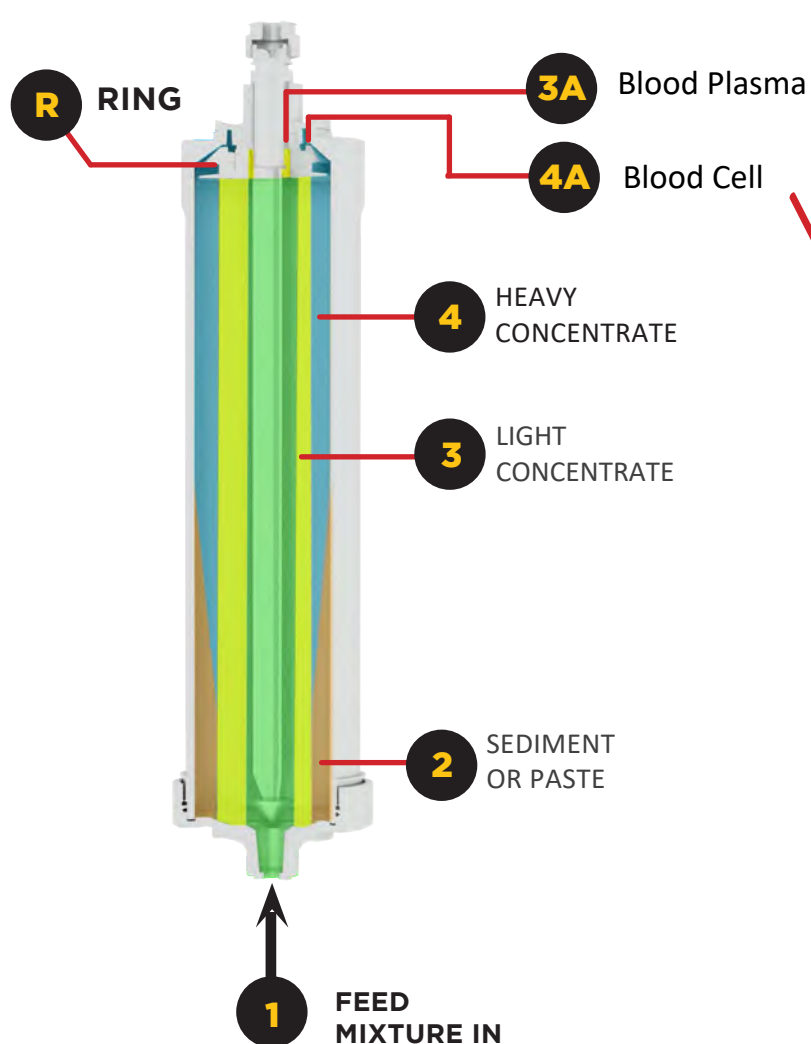
This model allow the operator disassemble and assemble the bowl conveniently, basis on the special Front door design. safety Inspection of the locker and connect with door, ensure the sealing of machine.



Specifications

Model	Bowl Speed (rpm)	G-Force	Bowl Capacity Nominal (L)	Running Load (kw)	Dimensions (mm)		
					Width	Front-to-Back	Height
105	16300	15700	1200	2.2	600	900	1600
115	16300	16900	1300	3.0	600	900	1600

FIG. 2



Blood plasma powder
(additive of drink and food, animal feed)
Thrombin (biochemical medicine)
Albumin, immunoglobulin
BSA (Blood serum Albumin)

Blood cell powder
(additive of drink and food)
SOD (Biochemical medicine cosmetic)
Hemachrome (Biochemical medicine)

Fig. 2. Separating Bowl

The feed mixture enters the bottom of the bowl (1) and sediment collects on the walls of the bowl (2). Liquids separate rapidly by specific gravity, and separating ring (R) directs liquids into light and heavy streams (3) and (4) which exit bowl in separate trays at (3A) and (4A).

Typical Application

- Harvesting Biomass
- Clarify Process Liquid
- Separating liquid Products Animal
- Blood Processing
- Bio remediation
- Precessing of Granular,Crystalline &
- Fibrous Suspensions
- Separation of filterable &
- Non-filterable sludge



Features & Benefits

- Rapid separations
- Consistent Performance
- Range of models facilitate scale-up
- Simple to set up, use and clean for minimal down-time
- No replacement membranes Small footprint save space Enclosed model available for ambient gas control
- For mixtures with very high solid concentration, drum centrifuge can be supplied
- Powerful 3-phase electric motor or customize by various power
- Permanently-lubricated Oversized head bearings maintain long service life

Cooling or Heating Jacket

Tubular separator capable to assemble the cooling or heating jacket, used for some biological material need temperature control.





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