

## 12 Stage Hydrocyclone System



Hongmao series 12 stage starch washing hydrocyclone is mainly used to extract refined starch milk, that is, to remove soluble and insoluble proteins and possible tiny fibers contained in starch milk.

Structure and principle: the cyclone separator consists of housing, orifice plate, cover, cyclone tube, plug tube, etc.

The starch milk and the washing water go through the washing system in a countercurrent way. The washing system usually consists of 6-12 grades. Each stage contains a number of cyclone tubes which are housed in the housing of the cyclone separator and operate in parallel.

Each stage of rotary separator has feeding interface, bottom flow interface and overflow interface.

Starch washing cyclone, bottom flow contains concentrated starch milk, overflow contains soluble substances and fine slag. The bottom flow of one stage is sent to the feeding pump of the middle stage along with the overflow of the previous stage. The starch milk first enters the first stage of the washing system, then is washed step by step to reach the required refined starch milk and leaves the system through the bottom flow of the last stage.

The overflow contains dilute starch milk and impurities to be removed. This allows the washing water (which enters the washing system before the final stage) to leave the system after passing through the stage 1 overflow, removing impurities such as proteins and fine fibrous residues.

Model	Type	Output capacity (starch ten thousand tons/year)	Feed pres. MPa
HM-HC-D200-1	Horizontal	1~1.5	0.6-0.8
HM-HC-D250-1	Horizontal	1.5~2	0.6-0.8
HM-HC-D300-1	Horizontal/vertical	2.5	0.6-0.8
HM-HC-D350-1	Horizontal/vertical	3	0.6-0.8
HM-HC-D410-1	Horizontal/vertical	5	0.6-0.8
HM-HC-D450-1	Horizontal/vertical	6	0.6-0.8
HM-HC-D350-2	Horizontal/vertical	6	0.6-0.8
HM-HC-D410-2	Horizontal/vertical	10	0.6-0.8
HM-HC-D450-2	Horizontal/vertical	12	0.6-0.8
HM-HC-D500-2	Vertical	15	0.6-0.8
HM-HC-D560-2	Vertical	20	0.6-0.8
HM-HC-D600-2	Vertical	24	0.6-0.8
HM-HC-D750-2	Vertical	30	0.6-0.8

Hongmao relies on the professional design, the strict production management, the fine processing procedure, provides the high efficiency and energy saving equipment system for the customer. Manufacturing factory has passed the international ISO9001 quality system certification, and with the design and manufacturing capacity of pressure vessels. Customers can choose international ISO, EU CE and other standards for equipment design and production according to their needs.