

## HR活塞推料过滤离心机 HR PUSHER CENTRIFUGE

HR系列活塞推料离心机是一种连续进料、间歇出料的过滤式离心机。

主要由液压系统、推料机构、机座、机壳、传动、转鼓、等零件组成，可在全速运转下实现连续进料、分离、洗涤、卸料等工序。

HR pusher centrifuge is a type of filtering centrifuge characterized by continuous feeding and intermittent discharging.

Composed of hydraulic system, pushing mechanism, base, enclosure, transmission mechanism, basket, etc., this product is able to realize continuous feeding, separation, washing, discharging and other processes at full speed.



### ► 适用范围 SCOPE OF APPLICATION

固相颗粒径 > 0.08MM  
Solid particle size > 0.08MM

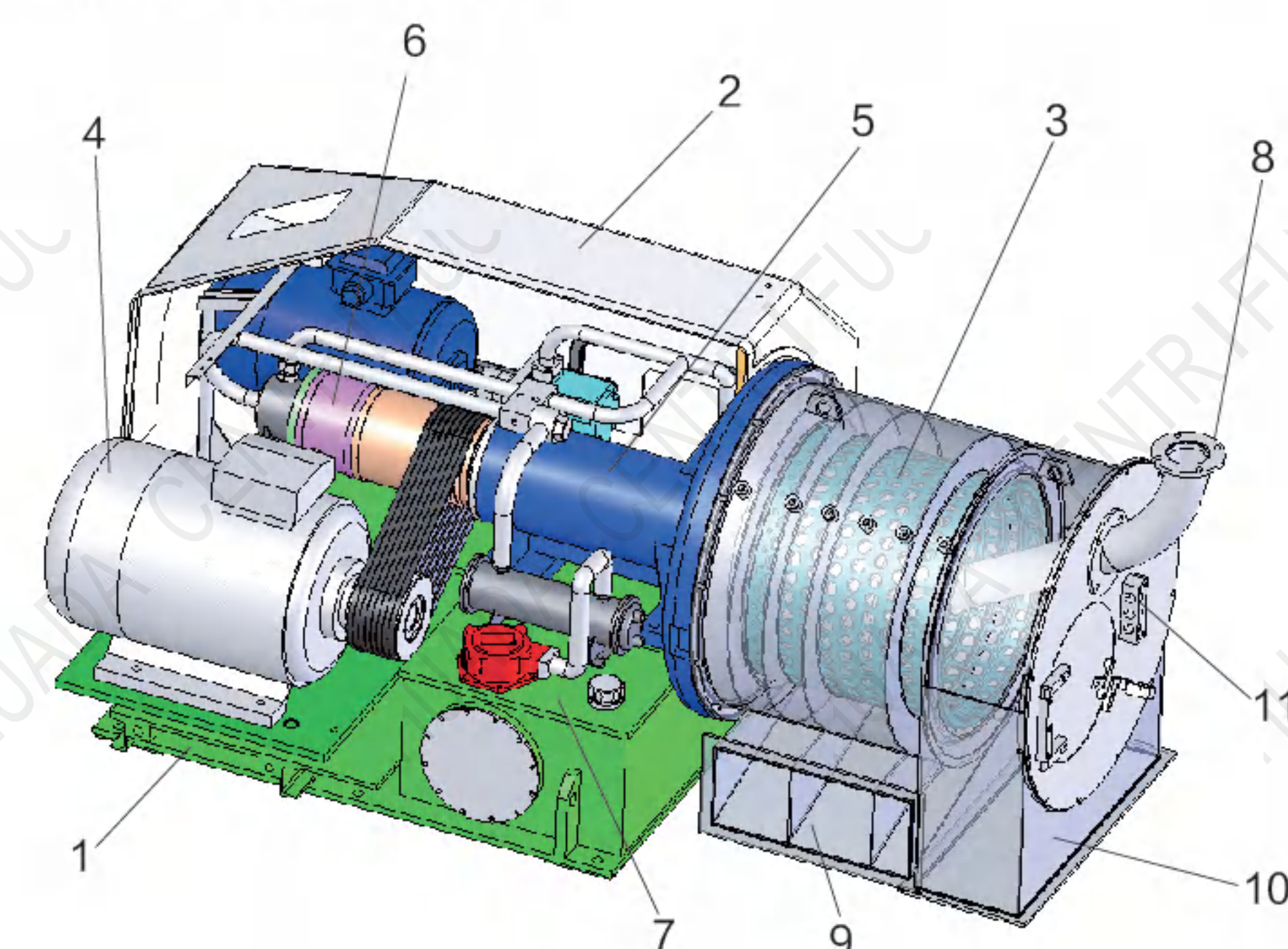
浓度40%~80% (质量百分比)  
Concentration of 40%~80% (mass percentage)

物料粘度 < 10-1PA.S  
Material viscosity < 10-1PA.S

### ► 行业应用 INDUSTRIAL APPLICATION

适用于化工、化肥、制碱、制盐等行业，如：氯化钠、氯化铵、碳酸氢铵、尿素、聚乙烯、聚丙烯、硝酸铵、乙二酸、硫酸钠、咖啡因等。

This product is applicable to the filtration of sodium chloride, ammonium chloride, ammonium bicarbonate, urea, polyethylene, polypropyl ethylene, ammonium nitrate, oxalic acid, sodium sulfate, caffeine, etc. in the chemical, fertilizer, alkali production, salt production and other industries.



### ► 工作原理 WORKING PRINCIPLE

主电机带动传动装置全速运转，物料由进料管引入内转鼓，在离心力作用下均匀分布到内转鼓滤网壁上，液相物通过滤网和转鼓壁孔流入排液管，固相物被滤网截留并在内转鼓内形成滤饼层。内外转鼓同速旋转，在活塞推动下，内转鼓连续轴向往复运动，在推料盘推动下，物料由内转鼓排出进入外转鼓进一步分离并形成环形滤饼层，在内转鼓外端面往复推动下，间歇不断的排出外转鼓，经刮料槽配出机外。

Driven by the driving motor, the transmission device operates at full speed to bring the materials into the inner basket through the feeding pipe. Under the action of centrifugal force, the materials are evenly distributed onto the screen wall of the inner basket, where the liquid phase flows into the liquid discharge pipe through the screen and pores on the basket wall, while the solid phase is retained on the screen to form a cake layer. The inner basket and outer basket revolve at the same speed. Driven by the piston, the inner basket moves in the axial direction repeatedly and reciprocally to make the pushing tray to push the materials from the inner basket to the outer basket for further separation, where annular cake layers are formed. Continuously pushed by the outer end face of the inner basket, the materials are discharged out of the outer basket and then be conveyed out of the equipment through the material scrapping slot.

- |                            |                               |                                  |
|----------------------------|-------------------------------|----------------------------------|
| 1 机座<br>Base               | 2 机壳<br>Shell                 | 3 转鼓<br>Basket                   |
| 4 电机<br>Motor              | 5 传动装置<br>Transmission device | 6 推料机构<br>Pushing mechanism      |
| 7 液压系统<br>Hydraulic system | 8 进料管<br>Feeding pipe         | 9 出液口<br>Liquid discharging port |
| 10 出料口<br>Discharge port   | 11 洗涤管<br>Washing pipe        |                                  |

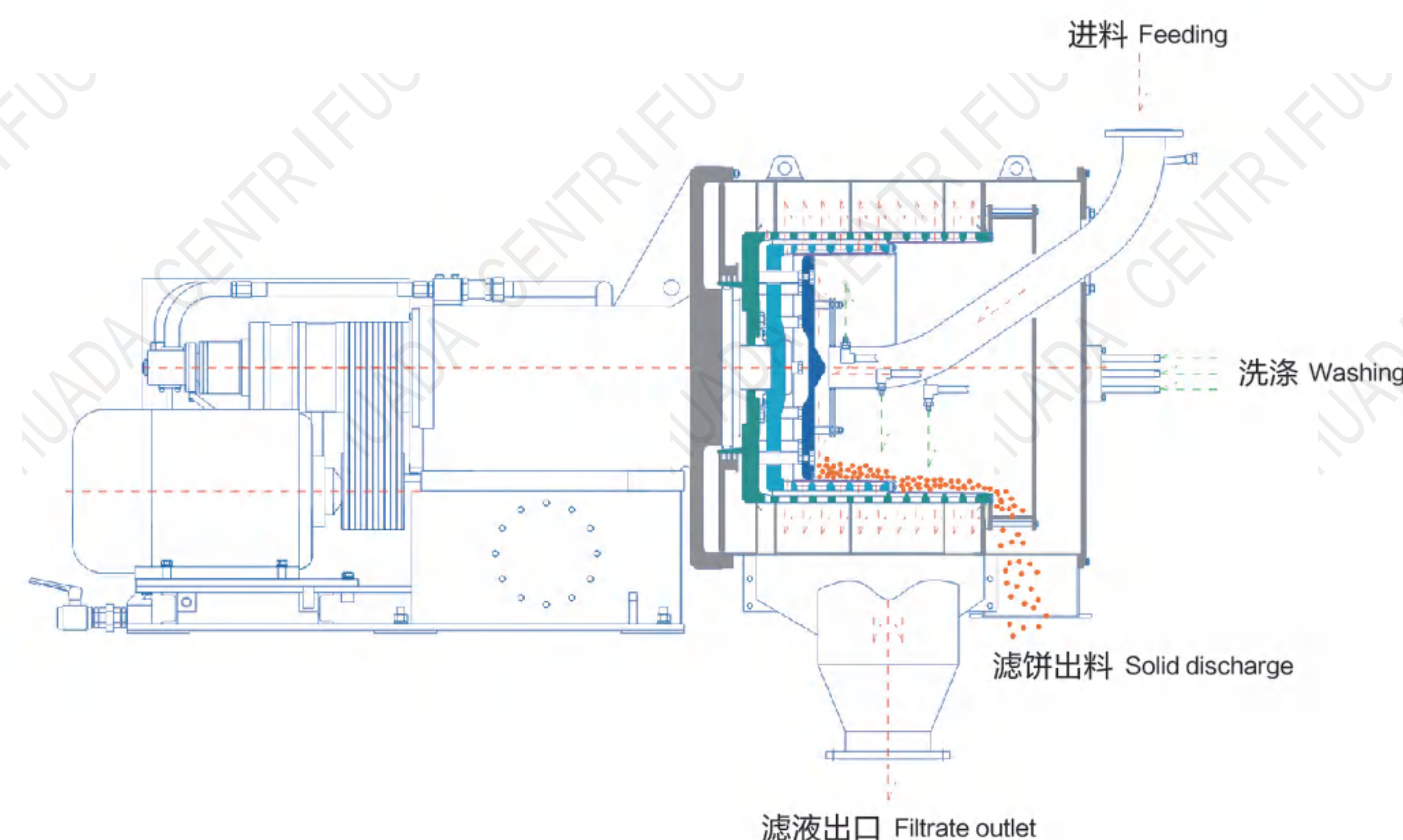
### ► 主要特点 MAIN FEATURES

**A** 分离因数高、物料可进行多层级脱水、洗涤，洗涤效果好，含湿率低。  
High separation factor, multi-stage dehydration and washing of materials, with better washing effect and lower moisture content.

**B** 连续操作、处理量大、效率高、运转平稳。  
Continuous working, large handling capacity, high efficiency, and stable operation.

**C** 母液含固量少，与洗涤液可采用混合排放或分流排放。  
Low solid content in mother liquid, which can be discharged together with washing liquid or discharged separately.

**D** 能耗低且均匀。  
Low and stable energy consumption.



### ► HR系列离心机技术参数 TECHNICAL PARAMETERS

项目 Items	型号 Models			
	HR400-N	HR500-N	HR630-N	HR800-N
转鼓直径 Basket Diameter (mm)	337/400	430/500	560/630	720/800
过滤区长度 Filter area length (mm)	320	360	480	600
转速 Speed (r/min)	1500~2400	1200~2100	1000~1800	800~1600
分离因数 Separation Factor	504~1290	403~1235	353~1143	286~1146
推料行程 Pushing stroke (mm)	40	50	50	50
推料次数 Pushing times (N/min)	30~80	50~70	30~80	30~80
主电机功率 Power of Driving Motor (KW)	7.5~15	30~55	45~75	55~90
油泵电机功率 Motor power of oil pump (KW)	5.5	22	30	45
机器重量 Weight (Kg)	2400	3600	3900	6100
外形尺寸 Dimension (长 x 宽 x 高)(mm)	2600x1130x1250	3600x1450x1650	3130x1430x1360	3650x1890x1610