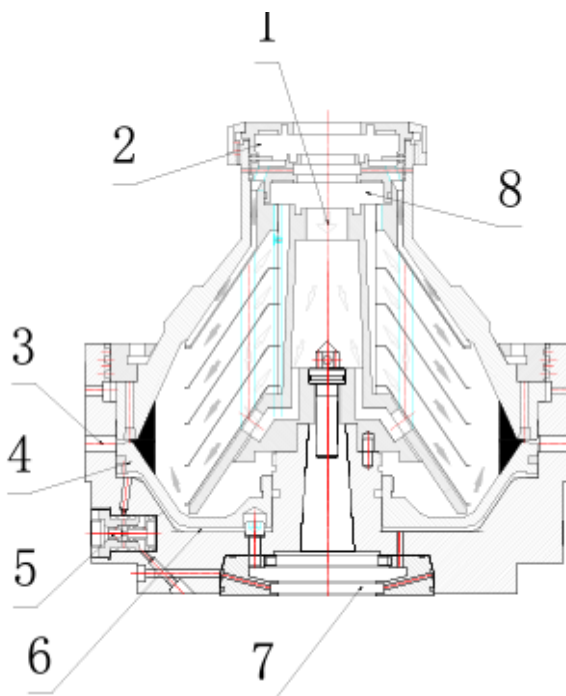


### SYSTEM OVERVIEW

**NRSDH series Milk separator** is used in the skim milk, cream, butter, casein, cheese production, anhydrous butter production process (centrifuge concentrate), and removal of foreign impurities in the milk (clarification). Similar products can also be used for clarification and purification. All the parts that may contact the product are made of Stainless-Steel Grade 316. The power drive adopts the fluid clutch, transferring power by use of fluids in a reliable manner, whilst preventing overloading. The bearings used in the Sepak Industries Separators are SKF from Sweden. The separator is controlled by a PLC automatic control system, with automatic de-slugging function which is controlled by adjustable timer.

The sealed water (7) is pumped into the sealing chamber (6), rising the sliding piston (4), and the solid ejection outlet (3) is shut down. Then the milk being processed is fed into the bowl from feeding pipe (1), under the effects of centrifugal force, the solids of heavier density is collected on the bowl wall, when the set timer is reached, the opening water (8) is pumped into the opening chamber (6), activating the sliding piston (5) to open the solid ejection outlet (3), impurities are removed from the bowl. The lighter liquid (cream) flows along the inner side of the discs into the passage of the upper distributor, the cream is discharged from the machine by the lower centripetal pump (8). The heavier liquid (skim milk) flows along the other passage, discharging from the machine by the upper centripetal pump (2). The automatic desludging allows continuous operation of the Milk Separator for the whole shift. The Separator is suitable for CIP.



### DESIGN SPECIFICATIONS

MODEL	NRSDH-5	NRSDH-10	NRSDH-30	NRSDH-50
Bowl Inner Diameter	200mm	300mm	400mm	475mm
Bowl Speed	7546 RPM	7320 RPM	6500 RPM	6022 RPM
Flow Rate	500 L/hr	1000 L/hr	3000 L/hr	5000 L/hr
Separation Factor	8120	8985	9120	9250
Cream Output	<b>Centripetal Pump</b>			
Skim Milk Output				
Desludging	<b>PLC</b>			
Output Pressure	0.25 MPa	0.25 MPa	0.3 MPa	0.3 MPa
Working Temperature	35-55°C	35-55°C	35-55°C	30-55°C
Fat in Skim Milk	0.03-0.08%	0.015-0.05%	0.015-0.04%	0.015-0.04%
Power	1.5kW/380V	4kW/380V	7.5kW/380V	11kW/380V
Dimension (L*W*H)	700*550*800mm	850*850*1200mm	1100*650*1550mm	1100*700*1600mm
Gross Weight	150kg	580kg	780kg	1220kg
Net Weight	120kg	500kg	680kg	1100kg

