KLR Rotating Drum Screen

1. Operational Principle

KLR Rotating Drum Screen uses the outside-in flow method. The wastewater enters into the water tank through the water inlet and the purified water flows into cylinder through the grating net gap. The discharge is at the bottom of the cylinder and the grating net is cleaned at the same time. Impurities (which are bigger than the net gap) are blocked by the grating net and are attached to the net cylinder surface. Impurities are taken to the other end by rotating net cylinder, lastly unloading, and then the filtered wastewater is discharged through the outlet. Grating net cylinder is driven through AC variable speed motor.

2. Structure Features and Applications

This machine is suitable for removing minor non-viscous fiber organic matter in waste-water. Rotary net cylinder uses trapezoidal cross-section stainless steel bar to weld together. The advantages are compact structure, small occupied space, reliable and stable operation, easy to install.

3. Main Technical Parameters

Model / Grating Gap	0.5	0.75	1.0	1.5	2.5	Diameter (mm)	Length (mm)	Power (kW)
	Processing Capacity (m³/h)							
KLR-350	15	20	25	32	42	350	600	0.25
KLR-610	60	81	100	130	170	610	610	0.55
KLR-612	120	162	200	260	340	610	1220	0.55
KLR-613	180	243	306	397	520	610	1830	0.75
KLR-802	315	436	535	695	912	800	1830	1.1

4. Outline Dimension Table

Model	Inlet Pipe	Outlet Pipe	Cleaning Pipe	A	C	D	E	F	G	H	K	L	S	U
KLS-350	DN100	DN150	DN15	1160	600	950	1470	1080	700	1055	985	1140	676	550
KLS-610	DN150	DN200	DN15	1250	610	1550	1600	980	1175	940	841	1091	806	995
KLS-612	DN200	DN250	DN20	1835	1220	1550	1300	680	1179	604	541	791	1416	995
KLS-613	DN250	DN300	DN25	2445	1830	1550	1600	980	1175	940	841	1091	806	995
KLS-802	DN250	DN300	DN25	2510	1830	1830	2280	1545	1240	1450	1388	1670	2026	1050

5. Equipment Outline and Schematic Diagram
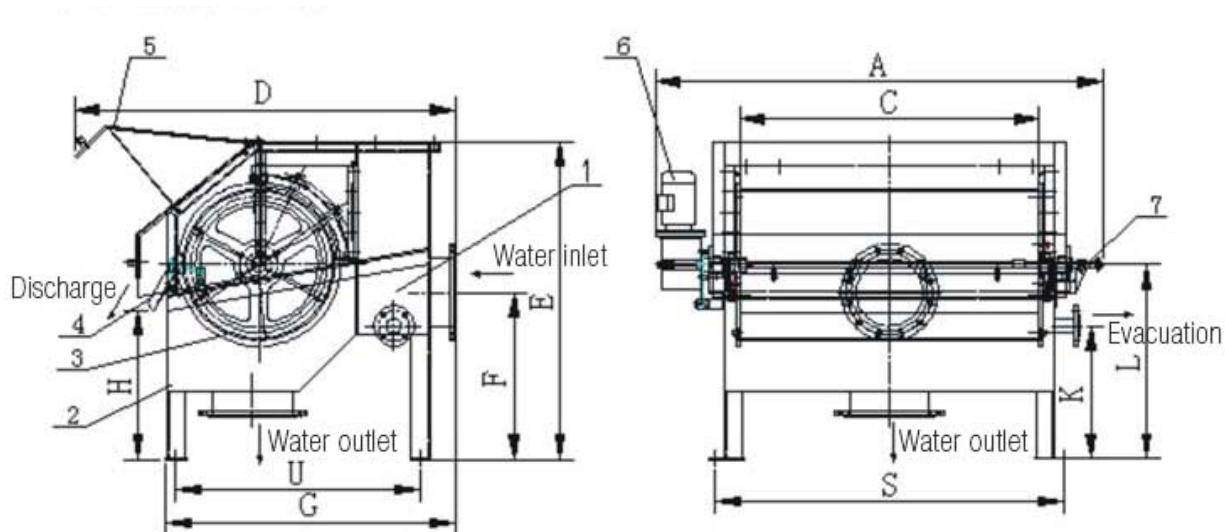
1. Storage tank 2. Frame 3. Drum 4. Slag Plate 5. Inspection Door 6. Gear Motor 7. Backwash water inlet

KLRS Rotating Drum Solid-Liquid Separator

1.   Operational Principle

KLRS Rotating Drum Solid-Liquid Separator is a horizontal cylinder structure. It uses cycloidal pin gear speed reducer and chain drive. Wastewater flows from the inlet into the overflow channel and after stabilization, it gets distributed to the inner wall of rotated grating net. Water flow and grating net do relative motion which makes the filtrate discharge from the grating gap, and the residue is intercepted in the grating net. Then under the effect of guide plate, the residue will automatically discharge from the slag end.

2.   Structure Features and Applications

Rotary Solid-liquid Separator is suitable for solid-liquid separation of various industrial wastewaters. It could remove tiny particles whose diameter is more than 0.22mm. The machine is more suitable for papermaking, wood-based panel, leather, printing and dyeing, butchery, wine-making, and textile industry doing wastewater treatment.

Filter mesh cylinder uses the screen mesh which is made of the reverse-trapezoidal section and stainless steel grating. The advantages of machine are reliable and solid, no clogging, corrosion resistance, and easy to clean.

3.   Main Technical Parameters

Parameters / Model	Grid Net Size (mm)	Grid Net Gap (mm)	Speed (r/min)	Motor Power (kW)	Backwash Capacity (m³/h)	Backwash Pressure (MPa)
KLRS-600	600x1100	0.2~2.0	6	0.55	2~3	≥ 0.25
KLRS-800	800x1200	0.2~2.0	6	0.75	2~3	≥ 0.25
KLRS-1050	1050x1300	0.2~2.0	6	0.75	2~3	≥ 0.25
KLRS-1200	1200x1400	0.2~2.0	6	1.1	3~4	≥ 0.25
KLRS-1350	1350x1500	0.2~2.0	6	1.1	3~4	≥ 0.25
KLRS-1500	1500x2200	0.2~2.0	6	1.5	3~4	≥ 0.25

4.   Dimension Table

Parameters / Model	A (mm)	A_1 (mm)	B (mm)	B_1 (mm)	H (mm)	H_1 (mm)	Inlet pipe Specification	Outlet pipe Specification
KLRS-600	2150	1950	1080	880	895	450	DN150	DN20
KLRS-800	2280	2080	1280	1080	1095	500	DN200	DN20
KLRS-1050	2400	2200	1540	1340	1305	650	DN200	DN20
KLRS-1200	2550	2350	1700	1500	1460	780	DN200	DN20
KLRS-1350	2700	2500	1850	1650	1650	840	DN250	DN30
KLRS-1500	3400	3200	2000	1800	1800	990	DN250	DN30

5.   Equipment Outline and Schematic Diagram