

**EQUIPMENT**



**INTERNALLY FED ROTARY DRUM SCREEN (IRDS)**

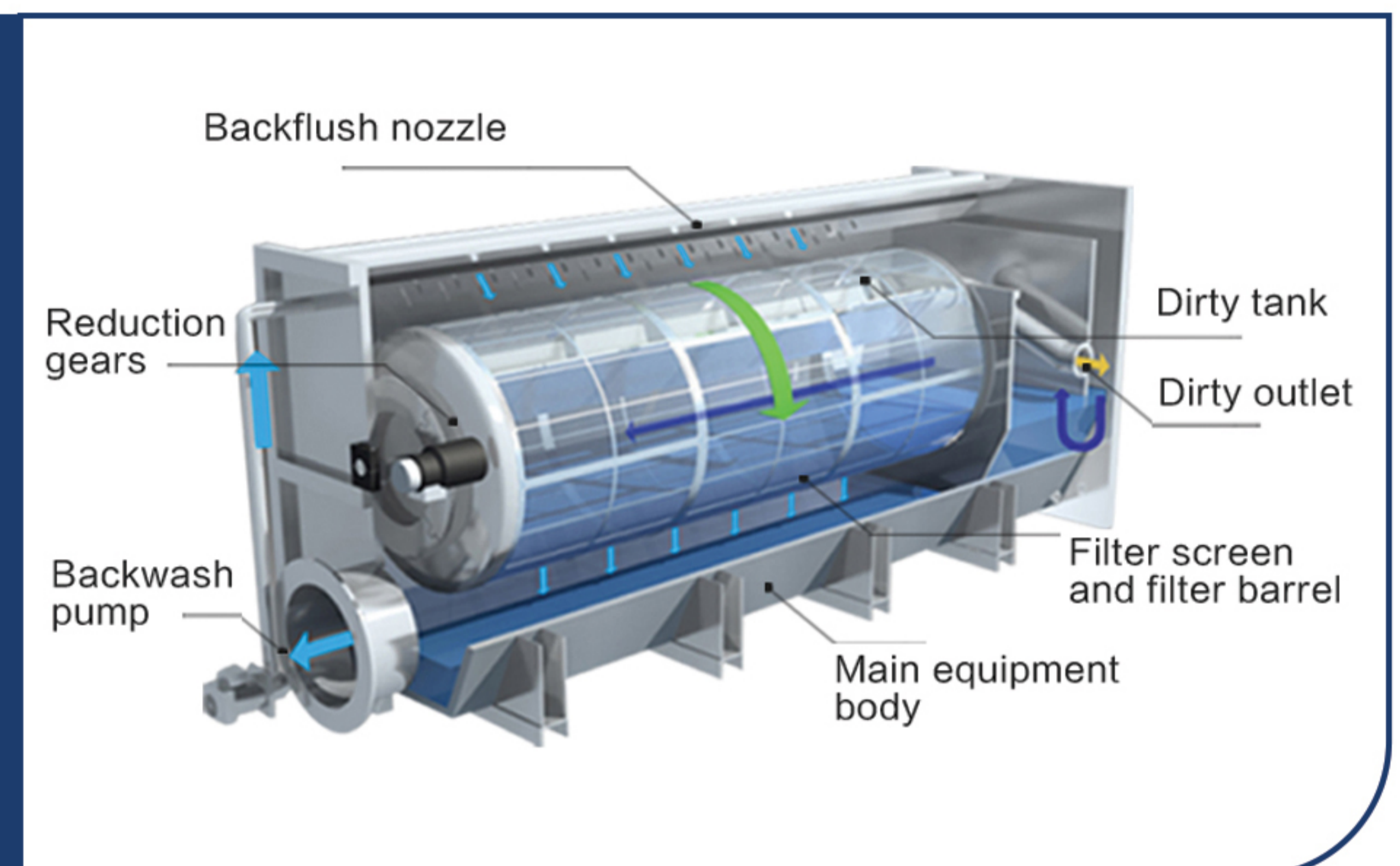
# INTERNALLY FED ROTARY DRUM SCREEN (IRDS)

- **Efficient Filtration:** The high-precision screen effectively removes suspended solids, fibers, hair, and other fine impurities from wastewater, significantly improving treatment quality.
- **High Automation:** Equipped with an advanced control system for automatic operation, flushing, and slag discharge, reducing manual effort and ensuring stable, reliable performance.
- **Stable Operation:** The specially designed drum rotates smoothly with minimal risk of clogging or vibration, and all components work together to maintain steady performance even in demanding conditions.
- **Compact Footprint:** Its space-saving structure makes it ideal for installations where available area is limited, offering a practical alternative to traditional screening equipment.
- **Easy Maintenance:** Thoughtfully designed components are simple to remove and service, while the integrated flushing system prevents clogging, reduces filter replacements, and lowers maintenance costs.



## Working Principle

The Internally Fed Rotary Drum Screen (IRDS) treats medium-flow, low-solid-rate wastewater using a closed and compact drum design. The drum is supported on four rotating wheels, driven horizontally by a TEFC reducer, roller chain, and sprocket. Wastewater enters the drum where the conical or punched filter plates (0.25–6 mm) capture suspended solids. Filtered solids are discharged through a drainage pan and slugging mechanism, while clarified water exits for further treatment or discharge. An external spray cleaning system automatically flushes the screen, preventing clogging and ensuring continuous operation.



## Features

### Standard Features

- SS304 Stainless Steel Construction for durability and corrosion resistance.
- Integrated One-Piece Structure for stability and long service life.
- TEFC Drive System with anti-corrosion roller chain.
- UHMWPE Wheel Assemblies & Cylindrical Bearings for smooth rotation.
- External Spray Cleaning System for continuous self-cleaning.
- Screw Blade Discharge for efficient solids removal.
- Sealing Cover Plates to minimize odors and splashing.
- Drain Pan & Slag Discharge Design for clean operation.

### Options & Accessories

- Filter Type Selection: Conical or punched plate with apertures from 0.25–6 mm to match application needs.




## Specifications and Parameters

Serviceable Range	SoIt	IRDS-3036(m <sup>2</sup> /h)	IRDS-3048(m <sup>2</sup> /h)	IRDS-S3060(m <sup>2</sup> /h)	IRDS-4248(m <sup>2</sup> /h)	IRDS-4272(m <sup>2</sup> /h)	IRDS-5472(m <sup>2</sup> /h)	IRDS-5496(m <sup>2</sup> /h)
Dimensions Of Screen	mm	φ800x950	φ800x1220	φ800x1524	φ1060x1200	φ1060x1830	φ1380x1830	φ1380x2440
Municipal Sewage	2.5	136	182	227	318	455	636	818
Paper Industry	0.1	30	41	52	68	102	145	193
Paper Industry	0.8	72	80	95	125	193	273	364
Paper Industry	1	73	103	127	159	227	386	500
Fruit And Vegetable Industry	0.5	68	91	114	148	216	318	341
Fruit And Vegetable Industry	0.8	73	95	118	180	227	455	477
Seafood Industry	0.5	55	73	95	125	193	296	382
Seafood Industry	0.8	59	80	102	136	205	318	421
Meat Industry	0.5	55	73	95	125	193	296	386
Meat Industry	0.8	59	80	102	136	205	318	421
Poultry Industry	0.5	55	73	95	125	193	296	386
Dimensions(LxWxH)	m	2.1x1.2x1.4	2.4x1.2x1.4	2.7x1.2x1.4	2.5x1.5x1.8	3.1x1.5x1.8	3.1x1.8x2.3	3.7x1.8x2.3
Influent Flange	DIN	DN150	DN150	DN150	DN200	DN200	DN300	DN300
Effluent Flange	DIN	DN150	DN150	DN150	DN250	DN250	DN400	DN400
Spray Influent	G	G1-1/4"	G1-1/4"	G1-1/4"	G1-1/4"	G1-1/4"	G1-1/4"	G1-1/4"
Solids Discharge	mm	254x305	254x305	254x305	254x457	254x457	254x610	254x610
Dry Weight	kg	500	590	720	680	1020	1700	2250
Wet Weight	kg	720	810	950	1050	1500	2000	2800
Power	kw	0.37	0.37	0.37	0.55	0.75	1.1	1.1

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