

HydroHex

Manufacturing Platform



HydroHex transforms engineering expertise into precision-manufactured water and wastewater solutions—built to perform, built to last.

~ Chairman & CEO Word



**MECHANICAL
FACTORY**



**R&D
FACILITIES**

10,000
M2

**FACTORY
AREA**



ISO Certified



**IDA as Industrial
Development**



**World Bank & EBRD
Accreditation**



**NOPWASD
Accreditation**



**Dubai Municipality
Accreditation**



**Sharjah Municipality
Accreditation**

Products Development

01

Treatment Systems

1. Decanter
2. Longitudinal Scraper Bridges
3. Circular Scraper Bridges
4. Sludge Thickener

02

Filtration Systems

1. Self-Cleaning Filter
2. Disc Filter
3. Multimedia Filter

03

Physical Separation Systems

1. Mechanical Screen
2. Manual Screen
3. Basket Screen

04

Flow Control Systems

1. Water Hammer
2. Telescopic Valves
3. Penstocks

Products Development

05

Chemical Dosing Systems

1. Gentle Mixer
2. Flash Mixer
3. Preparation Unit

06

Conveying Systems

1. Cranes Steel Works
2. Conveyor Belt

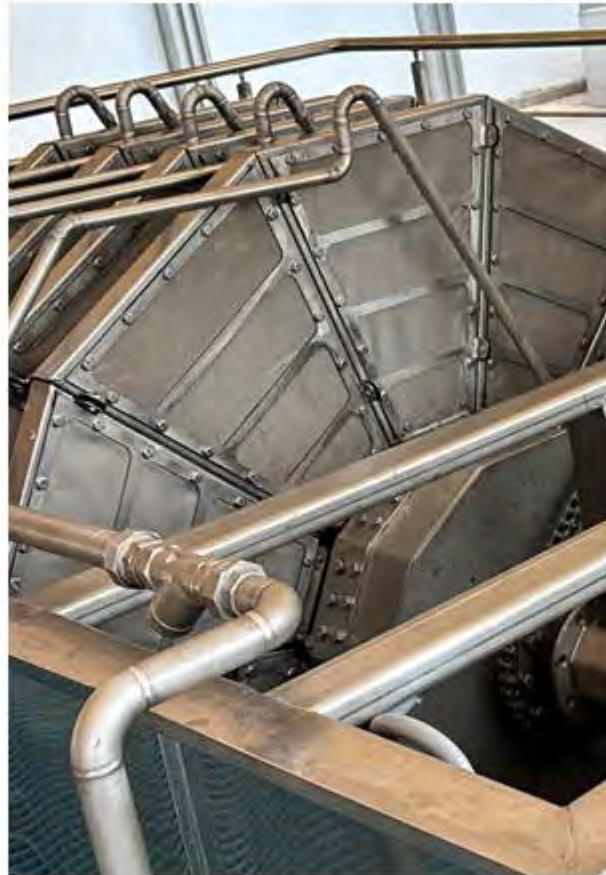
07

Storage & Distribution Systems

1. Steel Tanks
2. Steel Pipes



Decanter



Disc Filter



Sludge
Thickeners



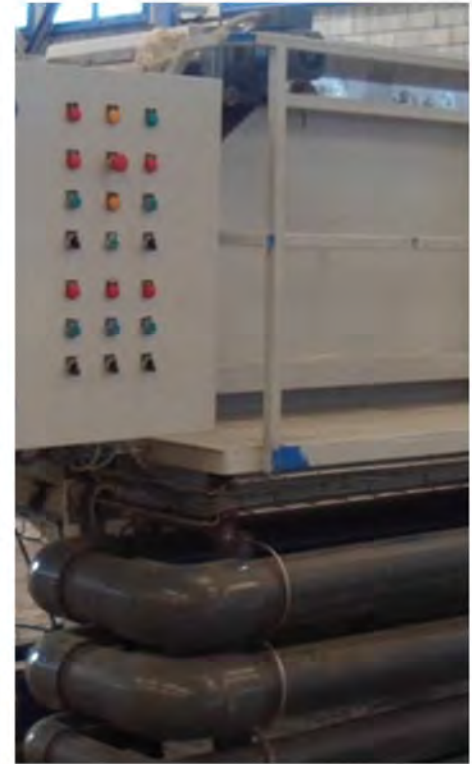
Containerized
Ultrafiltration



Containerized
Reverse Osmosis



Sewage
Treatment Units



DAF
Units



Mechanical
Screens



Sand
Silos



Grit & Grease
Scraper Bridges



Rotating
Scraper Bridges

Tackling Objectives



**Localization
of Industry**



**Increasing Efficiency
of systems**



**Encouraging Reuse
and Recycling**



**Focusing on
User ROI%**

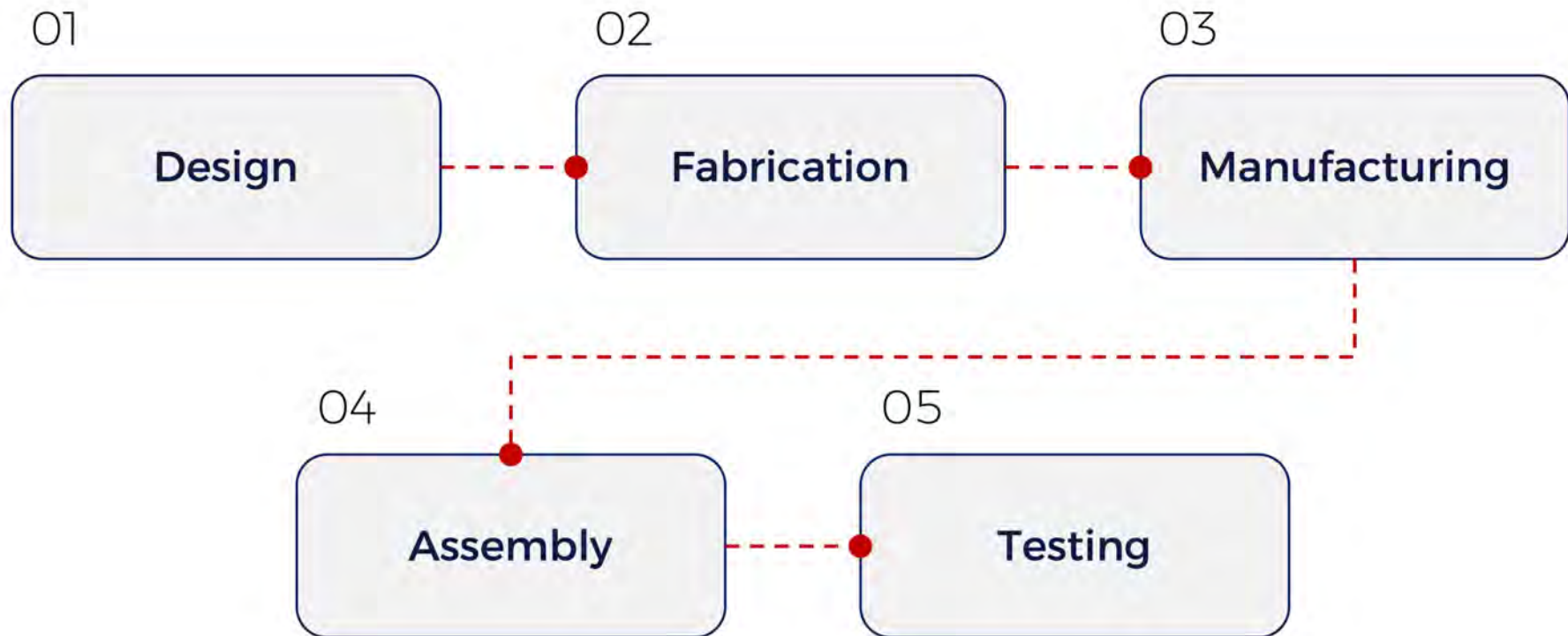


**Enhancing
Sustainability**



**10s of New Products
Underdevelopment**

Production Cycle



Products Catalogue



Disc Filter

The disc filter is surface filtration method to remove particles suspended in liquid by mechanical sieving action.

Application

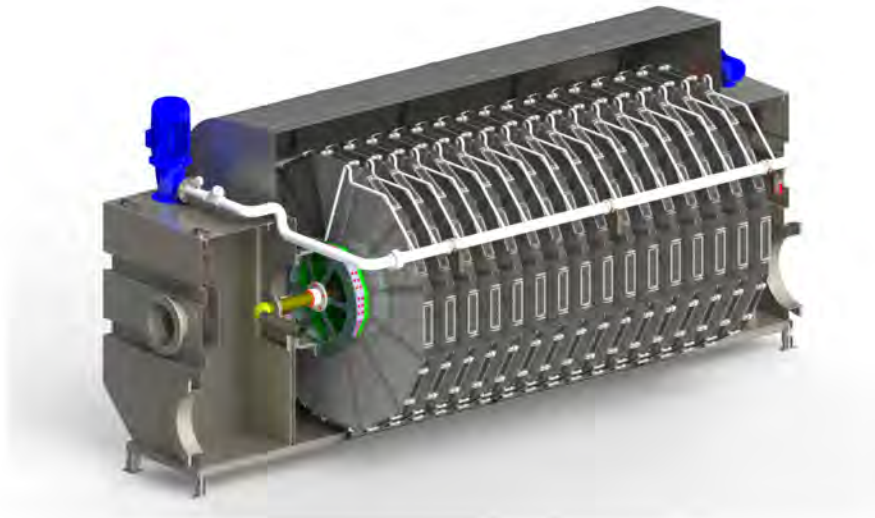
Tertiary Sewage Treatment
Prescreening for Water Purification
Industrial Process Water Treatment
Reuse of Wastewater Applications

Material

Stainless steel 304
Stainless steel 316

Range

Model	Flow (CMD)	# Discs	Effective Area
IDF2 - 3A	1,000 – 2,000	3	6.78 m ²
IDF5 – 6B	3,000 – 5,000	6	19.19 m ²
IDF8 - 12A	6,000 – 8,000	12	13.44 m ²
IDF10 – 12B	9,000 – 10,000	12	38.38 m ²
IDF15 – 18B	11,000 – 15,000	18	57.56 m ²
IDF20 – 24B	16,000 – 20,000	24	76.75 m ²



Grit and Grease Removal Scraper Bridge

High removing capacity for grit and grease.
Travelling system on rails, with electrical & Mechanical protection during operation.

Application

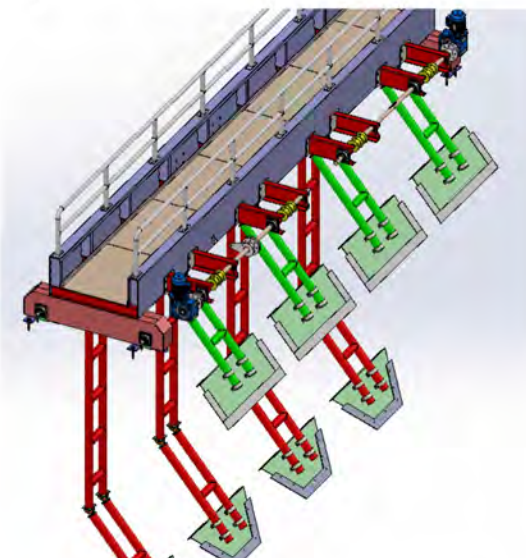
Sewage treatment plants
Industrial wastewater treatment plants

Material

Stainless steel 304
Stainless steel 316
Coated steel
Galvanized steel

Range

Item	From	To
Number of Channel	1	4
Channel Width	500 mm	2500 mm
Channel Depth	1500 mm	4000 mm
Channel Length	3000 mm	40,000 mm



Rotating Half Scraper bridges

Bottom Scrapers transmit continuously the sludge to receiving bases at the bottom.

Surface Scrapers transmit continuously the floated material and oil to scum box.

Available in circular tank (rotating half/ full bridge) & longitudinal tank.

Application

Sewage treatment plants

Industrial wastewater treatment plants

Water Treatment Plants

Material

Stainless steel 304

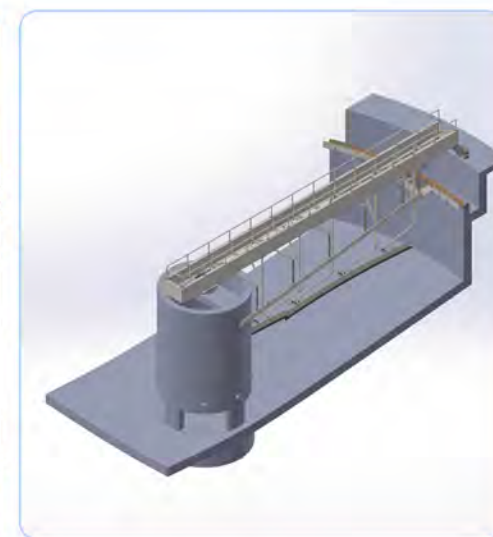
Stainless steel 316

Coated steel

Galvanized steel

Range

Item	Range
Tank Diameter	Up to 45 meters
Tank Depth	From 1500 mm to 4500 mm



Sludge Thickener Scraper Bridge

Thickener Scraper main shaft supported by journal bearing in the bottom to keep the system aligned, while bottom hopper scrapers for efficient sludge disposal.

Available in two arms & three arms scraper.

Application

Sewage treatment plants

Industrial wastewater treatment plants

Water Treatment Plants

Material

Stainless steel 304

Stainless steel 316

Coated steel

Galvanized steel

Range

Item	From	To
Tank Height	2500 mm	6000 mm
Tank Diameter	2500 mm	20000 mm
No. of Scraper Arms	2	4



Multi-rake mechanical screen

Multi-Rake Bar Screen is perfectly suited to serve both municipal or industrial wastewater, and process water

Application

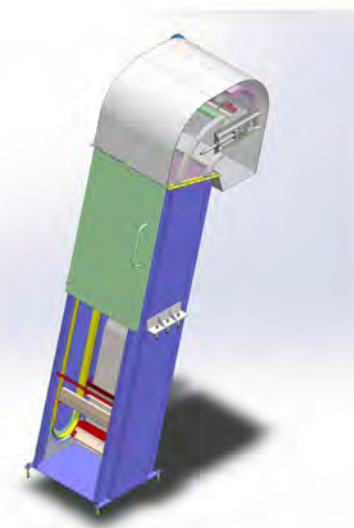
Pumping stations
Sewage treatment plants
Industrial wastewater treatment plants

Material

Stainless steel 304
Stainless steel 316
Coated steel
Galvanized steel

Range

Item	From	To
Screen width	400 mm	2200 mm
Screen height	600 mm	1500 mm
Bar spacing	15 mm	50 mm



Manual Screen

Manual Screen is perfectly suited to serve both municipal or industrial wastewater, and process water

Application

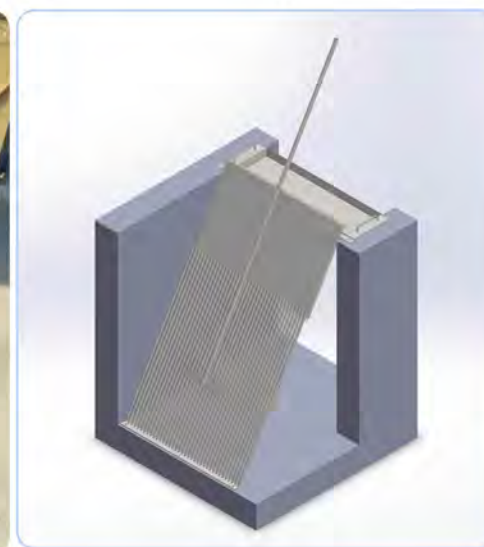
- Pumping stations
- Sewage treatment plants
- Industrial wastewater treatment plants

Material

- Stainless steel 304
- Stainless steel 316
- Coated steel
- Galvanized steel

Range

Item	From	To
Screen width	400 mm	2000 mm
Screen height	600 mm	2000 mm
Bar spacing	15 mm	50 mm
Inclination angle from Horizontal (°)	45°	70°



Basket Screen

Customized design to suit with customers need. Suitable for deep wells, used for installation in pumping stations and manholes, the size depending on the inflow rate and depth.

Application

- Pumping stations
- Sewage treatment plants
- Industrial wastewater treatment plants

Material

- Stainless steel 304
- Stainless steel 316
- Coated steel
- Galvanized steel

Range

Item	From	To
Screen width	400 mm	2000 mm
Screen height	600 mm	2000 mm
Screen Length	600 mm	2000 mm
Bar spacing	15 mm	50 mm



Sand Silo

Sand Silo separating solid particles with small sizes from water by the action of centrifugal force.

Exit valve automatic/manual operation.

Application

Sewage treatment plants

Industrial wastewater treatment plants

Material

Stainless steel 304

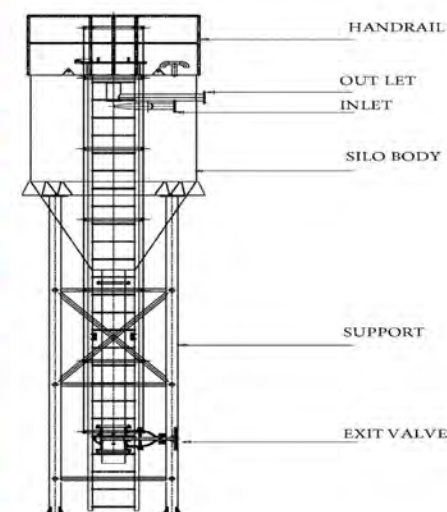
Stainless steel 316

Coated steel

Galvanized steel

Range

Volume (m ³)	Diameter	Thickness
1	1000 mm	From 4 mm
1.5	1250 mm	From 4 mm
2	1400 mm	From 4 mm
2.5	1600 mm	From 6 mm
3	1750 mm	From 6 mm
4	1900 mm	From 6 mm
5	2000 mm	From 6 mm



Penstocks

Penstocks regulate water level & flow.

Robust Construction.

Penstocks types : channel Mounted , Wall mounted , stoplog & Adjustable weir.

Application

Pumping stations

Sewage treatment plants

Industrial wastewater treatment plants

Material

Stainless steel 304

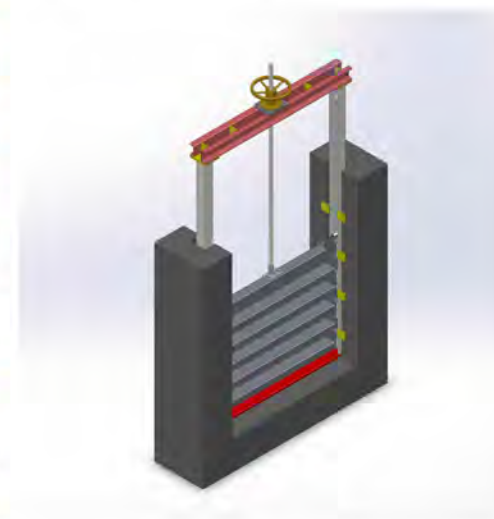
Stainless steel 316

Coated steel

Galvanized steel

Range

Item	From	To
Open Width	200 mm	2200 mm
Opening Height	200 mm	1500 mm
Diameter	Ø200 mm	Ø1400 mm
Channel Width	400 mm	2200 mm
Channel Height	400 mm	1500 mm



Belt Conveyor

Conveyors are durable and reliable components used in material Handling ,specially in screening areas to move Screenings from Mechanical Screens to collecting boxes.

Application

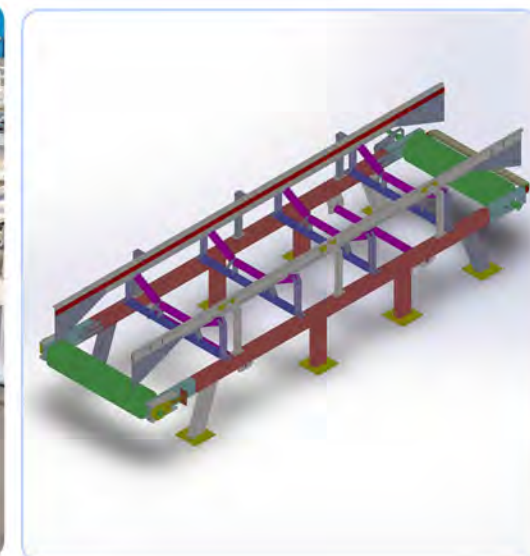
- Pumping stations
- Sewage treatment plants
- Industrial wastewater treatment plants

Material

- Stainless steel 304
- Stainless steel 316
- Coated steel
- Galvanized steel

Range

Item	From	To
Belt Height	700 mm	900 mm
Belt Length	3000 mm	10000 mm
Belt Width	600 mm	800 mm



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