



## MECHANICAL BRUSH SCREENS DF B/D

The history of the mechanical brush screen dates back to 1924; the first country to use it was Great Britain. The design of these devices is very simple and reliable and the range of application very wide.

The **DYNAMIK'S mechanical brush screens DF, type B and D** are intended for automatic separation of solids from wastewater. It is fitted with four adjustable, abrasion resistant rakes with a self-cleansing action by an inertia mechanism to remove the screenings from the sieves.

### OPERATION PRINCIPLE

The B and D type mechanical brush screens have been successfully used for many years for automatic separation on solids from municipal and industrial wastewater treatment facilities. The main component of the mechanical brush screen is the concaved perforated metal sheet attached to a frame support. The pattern of the perforation is selected each time to the application and character of wastewater. Wastewater enters the mechanical brush screen via inlet and flows onto the perforated metal sheet. The screenings retained on the perforation are removed by means of rotating rakes; at the same time, an inertia rake provided cleans the rakes. The adjustable rakes made of abrasion resistant material remove the screenings from the whole width of the unit for discharge through the screenings discharge outlet to a container or screenings press. The mechanical brush screen B/D is a reliable, economical and easy to operate device and designed for non-stop operation.

**MECHANICAL BRUSH SCREEN DF D**



**MECHANICAL BRUSH SCREEN DF B**





## SCOPE OF SUPPLY

- stainless steel design
- perforated metal sheet of required pattern
- standard perforation diameter: 0.75; 1; 2; 1.5; 3.0; 5.0; 8.0; 10 mm.
- four adjustable rakes
- hermetic screenings discharge chute for reduced odour
- moving screenings rake
- rake mechanism with life lubricated anti-friction bearings
- hermetic closure
- high quality driving assembly
- control cabinet
- bottom tank for connection of effluent pipeline (option)
- screenings press (option)
- 1.1 up to 3 kW thermostat controlled heating system for outside installation (option)

## FEATURES

Selectable screenings discharge side

Selectable influent and effluent side

Hermetic closure with removable cover for odour reduction

Inlet surge box for influent energy dissipation

Rake mechanism with life lubricated anti-friction bearings

Increased throughput by 40% (with screenings press option and minor design modification)

Pipe connections sides to be agreed

## CONSTRUCTION

Support frame EN 1.4301 grade or equivalent stainless steel

Screen plate: EN 1.4301 grade or equivalent stainless steel

Cover: EN 1.4301 grade or equivalent stainless steel

Bottom tank: EN 1.4301 grade or equivalent stainless steel

Bearings: stainless steel

Bearing mount: Pa6

Seals: EPDM

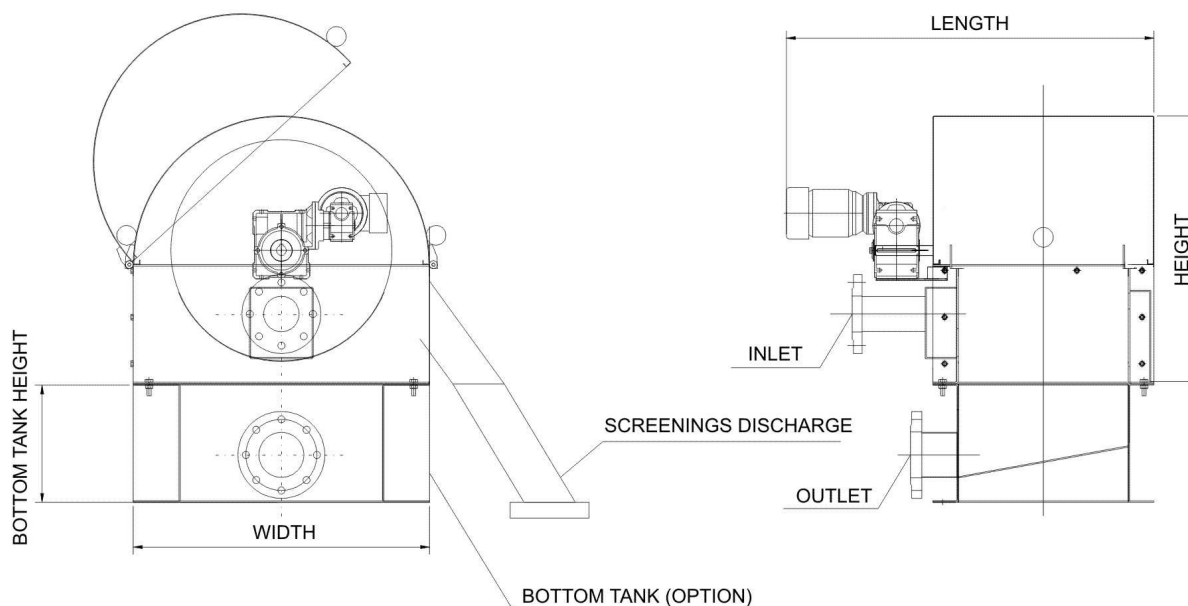
Rakes PPN

## APPLICATION

Wastewater treatment plants, laundries, chemical production, malt-houses, bottle/jar washing plants, paper mills, dairies, poultry farming/processing, animal slaughterhouses, cooling water, fur processing plants, leather manufacture, fish processing plants, textile industry, food processing, canned food plants.



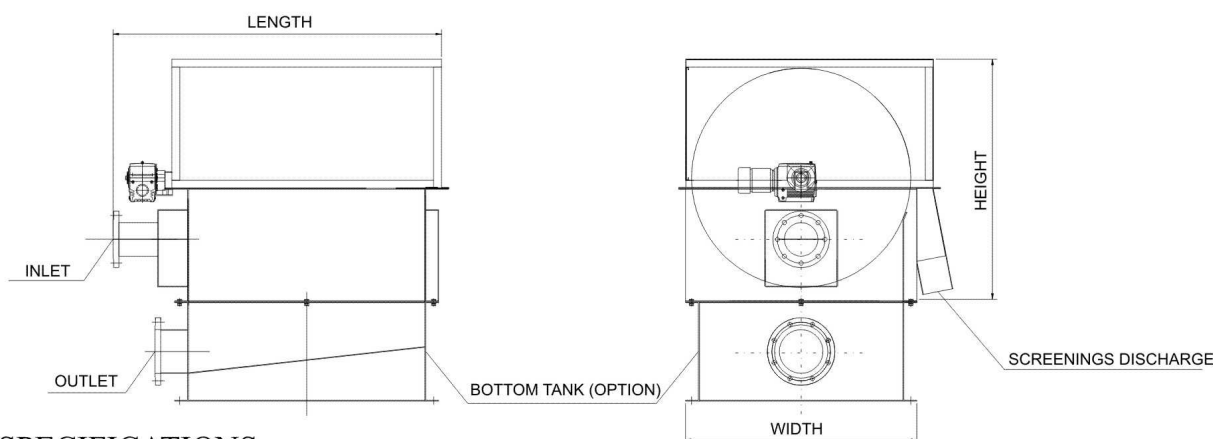
## MECHANICAL BRUSH SCREEN DF B



### SPECIFICATIONS

Version	wastewater, cooling water [m <sup>3</sup> /h]	municipal wastewater [m <sup>3</sup> /h]	industrial wastewater [m <sup>3</sup> /h]	animal slaughter-house sewage [m <sup>3</sup> /h]	Length (A) [mm]	Width (B) [mm]	Height (H) [mm]	Motor power [kW]	Inlet pipe DN	Outlet pipe DN	Bottom tank height (option) [mm]
B2	40	7	5	4	930	750	680	0,12	80	100	300
B4	80	15	10	7	1300	750	680	0,12	100	150	300
B5	120	20	15	11	1400	750	680	0,12	150	200	300
B6	150	25	18	13	1690	750	680	0,25	150	200	300

## MECHANICAL BRUSH SCREEN DF D



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D8	240	45	30	22	1390	1165	1230	0,25	200	250	360
D12	360	68	45	33	1640	1165	1230	0,25	250	300	500
D16	480	90	60	45	2020	1165	1230	0,37	350	400	600
D20	560	105	70	52	2420	1165	1230	0,37	350	400	600
D24	720	140	90	67	3160	1165	1230	0,55	*	*	*
D45	1360	260	170	127	3200	2000	2200	0,75	*	*	*
D60	1800	340	225	170	4000	2000	2200	0,75	*	*	*
D75	2240	430	280	210	4710	2000	2200	1,1	*	*	*
D90	2800	540	350	260	5460	2000	2200	1,5	*	*	*

\* to be agreed