

P RTP - P RTP/D

■ ■ Circumferential Drive Rotating Scrape Bridge

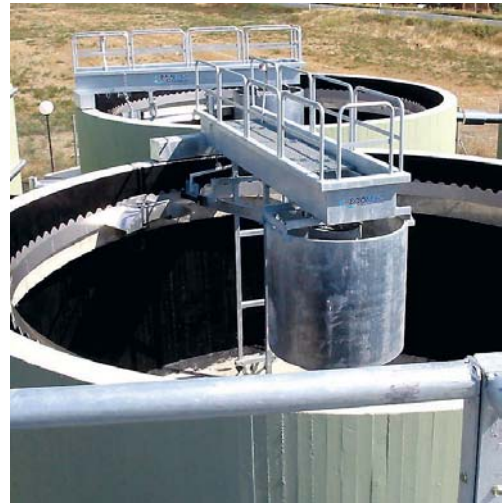
VI.I MACHINE DESCRIPTION

VI.I.I P RTP Model

The scraping rotating bridge with peripheral traction is installed in concrete circular sedimentation basins with flat bottoms. The influent is centrally fed, where an cylinder baffle plate distributes it uniformly. The sedimentation process allows to remove the settling fine parts from the effluent.

Generally it is installed in the plant at the following three stages:

- after the grit separation to remove more organic reduce the load in the following part of the plant;
- after the biological digestion separating the sludge from the liquid;
- any chemical-physical treatment to separate the flocculents from the liquid.



The settled sludge is conveyed, by convergent bottom scrapers and pumps for collection. The clarified water overflows through the Thomson weir.

Traction is provided by a drive wheel installed at the external side of the bridge that sits on an axial support in the center of the tank. Associated with the scraper (which is the main feature) is installed a skimmer to remove floatables discharged into a scum-box.

VI.I.II P RTP/D Model

The P RTP/D model differs from the P RTP/P by its geometry as it extends its bridge over the whole diameter of the tank.

Centrally is installed the support bearing and motion is provided by the two drives installed at the two end-sides of the bridge.

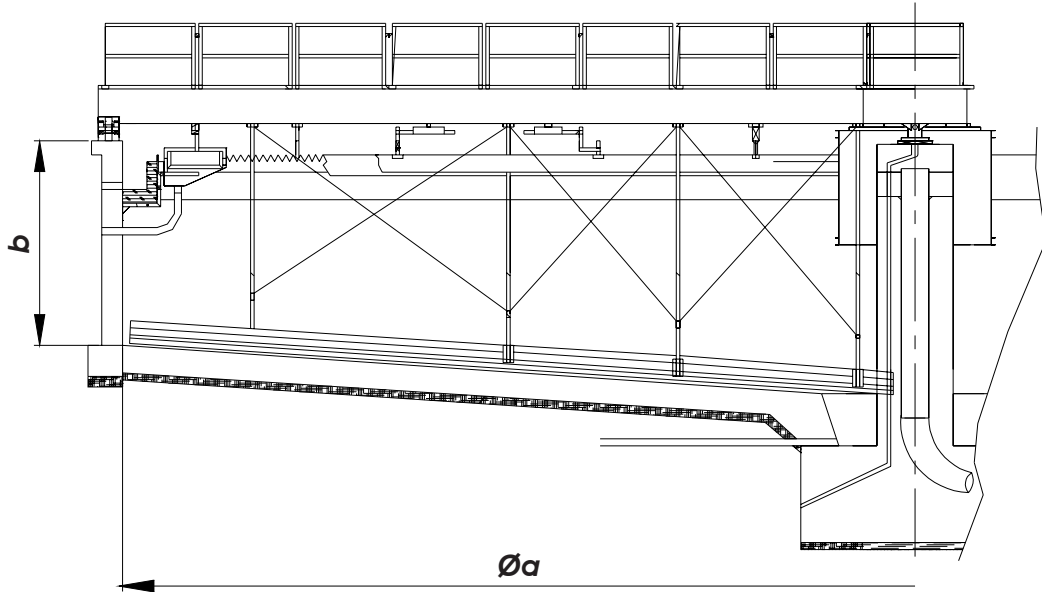
VI.II TECHNICAL DATA

n.b.: the manufacturer may modify some dimensions or sizes without prior information!

	P RTP 60	P RTP 80	P RTP 100	P RTP 120	P RTP 140	P RTP 160	P RTP 180	P RTP 200	P RTP 220	P RTP 240	P RTP 260	P RTP 280
$\varnothing a$ (m)	6	8	10	12	14	16	18	20	22	24	26	28
$b - m$ (Height)	from 2 to 3.5											
Perifer. speed (m/min.)	from 1 to 2											
Installed power - (kW)	0.18	0.18	0.18	0.18	0.18	0.37	0.37	0.37	0.37	0.55	0.55	0.55

■ **Circumferential Drive Rotating Scrape Bridge**

PRTP model

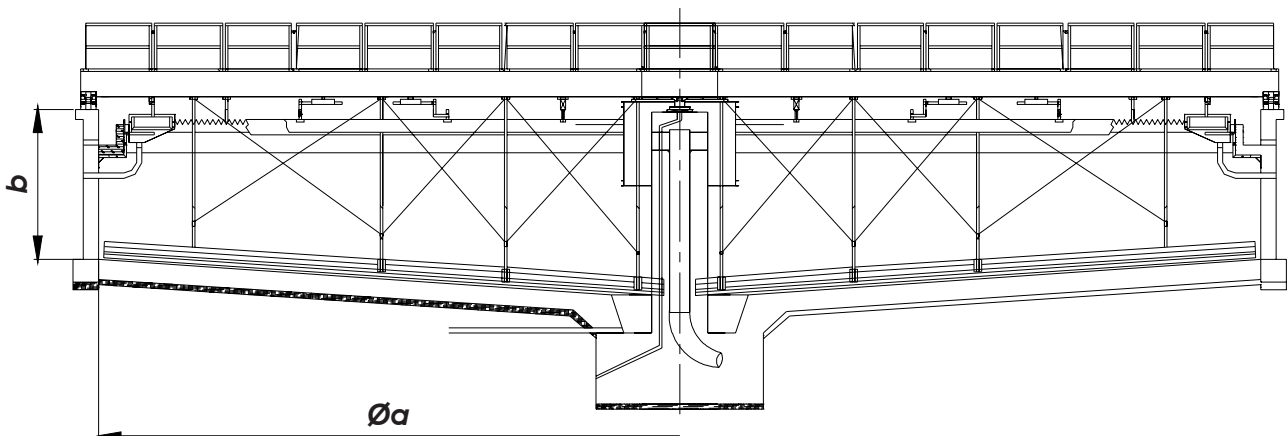


* Inclusion: 8%

	PRTP/D 180	PRTP/D 200	PRTP/D 220	PRTP/D 240	PRTP/D 260	PRTP/D 280	PRTP/D 300	PRTP/D 320	PRTP/D 340	PRTP/D 360	PRTP/D 380	PRTP/D 400
Øa (m)	18	20	22	24	26	28	30	32	34	36	38	40
b - m (Height)	from 2 to 3.5											
Perifer. speed (m/min.)	from 1 to 2											
Installed power - (kW)	0.18 + 0.18						0.37 + 0.37					

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PRTP/D model



* Inclusion: 8%

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VI.III SUPPLY COMPONENTS

Circumferential Drive Rotating Scrape Bridge - PRTP - PRTP/D

Structure made of carbon steel sheets painted or galvanized

Central cylindrical diffuser

Scraping undercarriage in carbon steel (painted or galvanized) to double axis with wheels in cast iron covered in wear-resistant self-lubricating rubber or polyurethane and bearings

Waterproof gearmotor

Galvanized grating walkway complete of parapet and handrail made of carbon steel (painted or galvanized)

Convergent bottom scraping blades with wear-resistant rubber pads connected to the rotary bridge with tubular profiles

Surface scraper made of stainless steel AISI 304

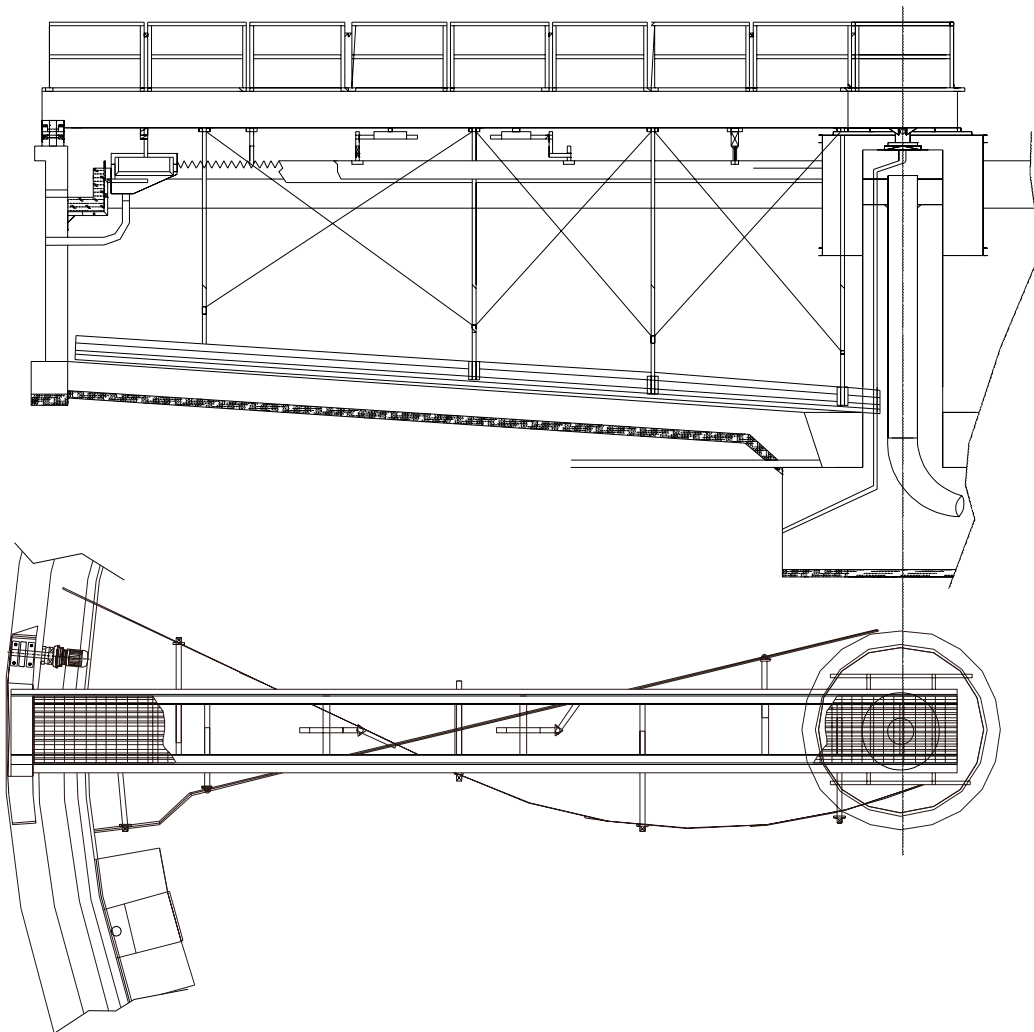
Central axial bearing and support

Rotary electric contact for power connection

Perimetral Thomson weir made of stainless steel AISI 304

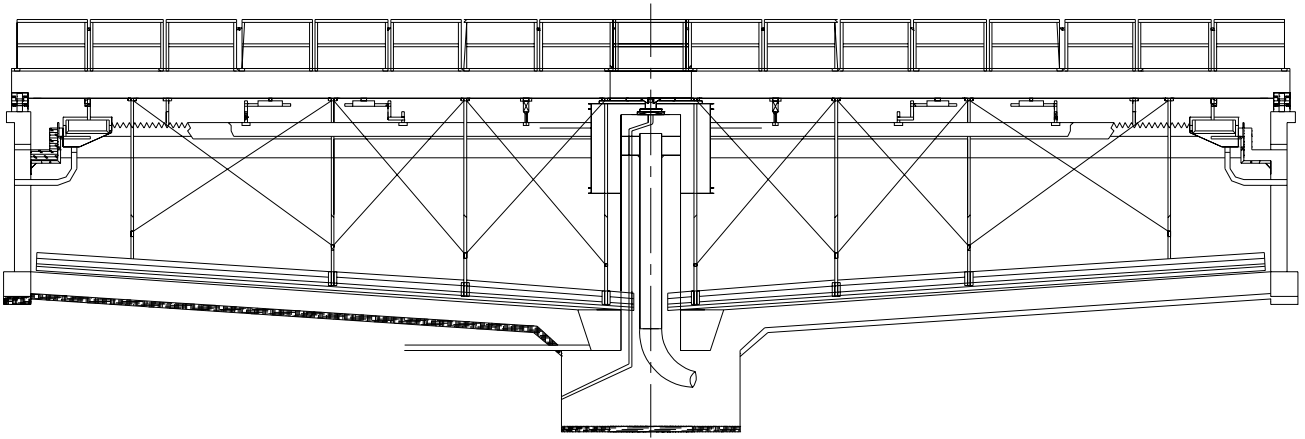
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PRTP model



■ **Circumferential Drive Rotating Scrape Bridge**

P RTP/D model



VI.IV ACCESSORIES

- AISI 304 stainless steel construction;
- AISI 304 wetted parts construction;
- Submersible pumps.

