



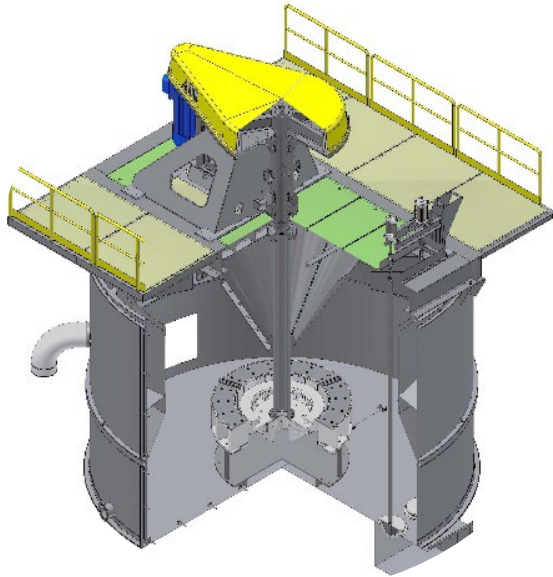
PNEUMATIC MECHANICAL FLOTATION TANK CELLS RIF

Saint-Petersburg, 2020



FLOTATION TANK CELLS

Pneumatic mechanical flotation cell RIF is designed **for processing of non-ferrous metal and rare metal ores by froth flotation** with a solid content in the pulp of up to 50% by weight and a size of at least 45% of class -0.074 mm with an ore density of up to 4.7 t/m³.



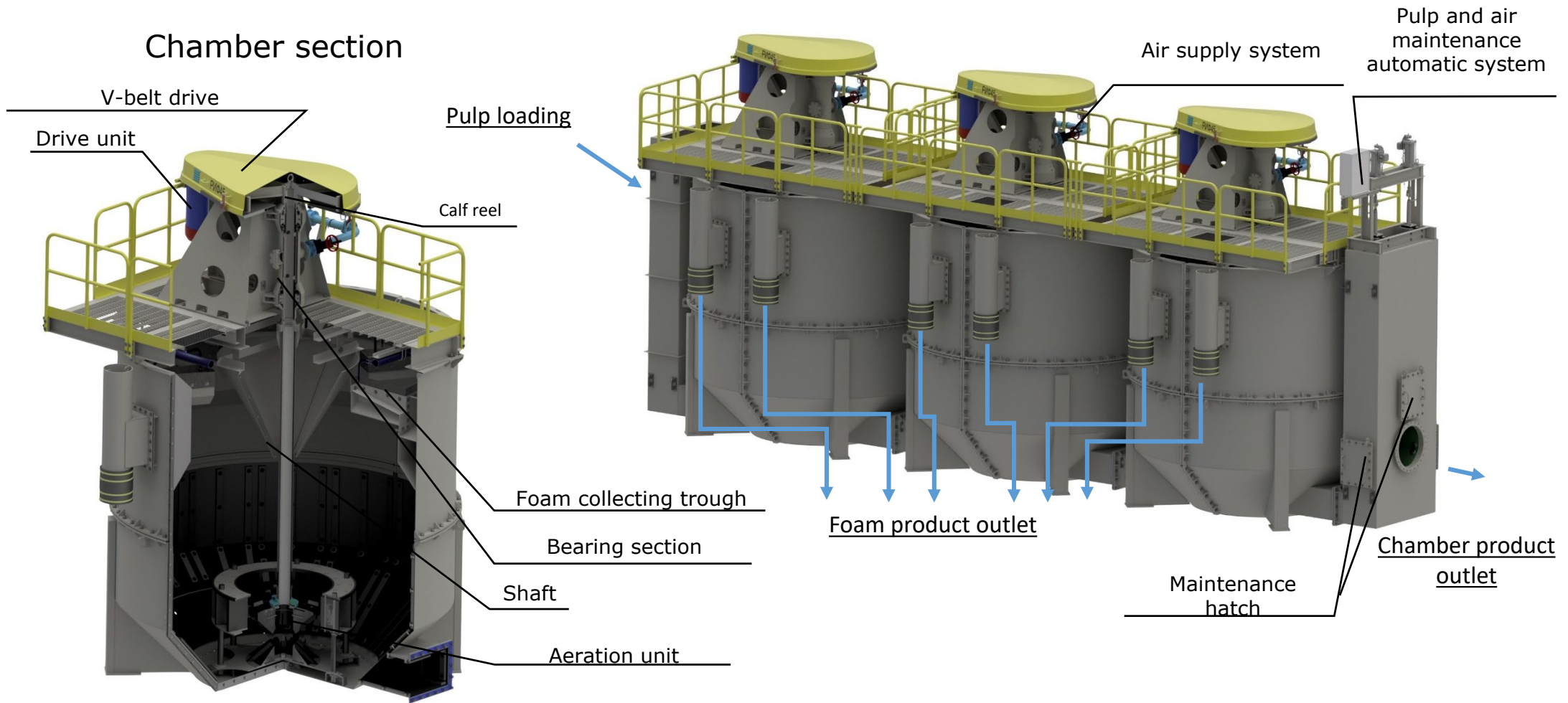
RIVS Company produces pneumatic mechanical flotation tank cells with a chamber capacity from **5m³** to **300 m³**.



STRUCTURAL FEATURES

- + Increase of foam removal rate due to reduction of foam mirror area;
- + Automated control of chamber capacity;
- + Aeration unit and the configuration of the bottom part of the chamber create effective hydrodynamic conditions;
- + Optional: a device for foam removing to the peripheral troughs;
- + Protection against abrasive wear by lining;
- + Automated system for keeping within specified limits the pulp level and air flow rate supplied to the chamber;
- + Automated control of foam product removal;
- + Bottom gates are pneumatically driven for quick and reliable pulp level control.

COMPLETE SET



BASIC PARAMETERS

Name of basic parameter and size	RIF 5Ц	RIF 10Ц	RIF 20Ц	RIF 30Ц	RIF 50Ц	RIF 70Ц	RIF 80Ц	RIF 100Ц	RIF 130Ц	RIF 200Ц	RIF 300Ц
1. Volume, m ³	5	10	20	30	50	70	85	100	130	200	300
2. Throughput capacity, m ³ /min, up to	3,8	7,5	15	25	40	55	60	75	100	150	225
3. Power of the aerator drive electric motor per chamber, kW, max at ore density less than 3.0 t/m ³	18	30	37	45 55	55 75	110 132	110 132	110 132	132 160	160 200	250 315
4. Volume of air supplied to the aerator per chamber, m ³ /min, up to	3,5	8,0	11,0	16,0	21,0	21,0 25	21,0	25,0 31	25,0	31	38
5. Tank											
Diameter, mm	2000	2550	3050	3500	4300	5000	5500	6000	6000	6800	7600
Height to the threshold, mm	1900	2250	3050	3580	4440	4160	3580	4300	4900	6800	7600
6. Excessive air pressure at the air manifold inlet, kPa, within limits	30	35	45	50	55	60	60	65	70	85	110
7. Rated motor supply voltage, V	380 (+29) (-38)	380 (+29) (-38)	380 (+29) (-38)	380 (+29) (-38)	380 (+29) (-38)	380 (+29) (-38)	380 (+29) (-38)	380 (+29) (-38)	380 (+29) (-38)	380 (+29) (-38)	380 (+29) (-38)
8. Number of chambers in a direct-flow cascade, max	6	6	4	3	3	2	2	2	2	1	1



THANK YOU FOR YOUR ATTENTION!

**RIVS Scientific and Design Association
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