



TAK UPSTREAM HYDROCLASSIFIERS

are designed for sand classification to achieve cut points in the range of 0.1 and 2mm, and are specified to obtain sands with a grain size distribution between 0.1-0.6mm for different industries, such as glass; ceramic; paint; and foundry; in the preparation of sands of specific requirements for filtration and grit blasting; and in the separation of 0-5 mm sands into two fractions (1-5mmcoarse and 0.07-1mm fine) for various applications including hydraulic concrete and mineral classification, depending on the product requirements.







CONSTRUCTION

It comprises a cylindrical vessel with an open top, with two-piece lower section, having a convex-shaped water distribution chamber surrounding a perforated plate inside, fabricated in mild steel with protective paint and replaceable rubber liners to prevent wear due to abrasion. The vessel upper side is equipped with a peripheral channel to collect the fines discharged. An outlet pipe is centrally located in the lower section, equipped with a replaceable polyurethane nozzle, to ensure coarse product discharge.

Drilled holes, through which the upstream current flows, are located in the bottom plate, equipped with specially designed rubber nozzles, in order to ensure the free passage of material into the water distribution chamber. These nozzles only open when water pressure is above the set value, remaining closed when water pressure is too low.

The classifier is equipped with an automatic operation system which controls the level of coarse particles settled at the bottom by opening or closing the coarse product discharge in accordance with the cut size required. The outlet discharge is fitted with an automatic pinch valve driven by a level sensor signal.

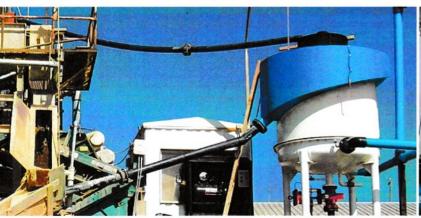
KEY ADVANTAGES OF TAK HYDROCLASSIFIERS

The elliptical design of the bottom nozzle plate ensures a uniform feed distribution and contributes to high efficiency classification.

Coarse material discharge remains constant due to its automatic pinch valve equipped with level sensor whilst, with alternative equipment, the discharge rate is variable due to on/off operation. Automatic operation control reacts very quickly to any variation, enabling consistent operation with an accurate and constant cut size.

Туре	Diameter (mm)	Height (mm)	Capacity (t/h)*
TAK 61	640	1.540	6,2 - 21,0
TAK 91	900	2.200	12,0 - 39,5
TAK 101	1.050	2.500	17,0 - 55,0
TAK 121	1.280	3.000	25,0 - 80,0
TAK 141	1.430	3.160	32,0 - 100,0
TAK 161	1.590	3.300	41,0 - 125,0
TAK 192	1.890	3.800	58,0 - 175,0
TAK 222	2.210	3.980	80,0 - 220,0
TAK 262	2.610	4.350	104,0 - 255,0
TAK 323	3.210	5.350	157,6 - 386,3

^(*) Capacity values depending of sand cut size (mm).







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