

Data Sheet

GHT.203VF – 22

All the GETECH centrifuges are designed and manufactured using advanced materials and technologies to make them reliable over time.
The design makes them unique, rational, robust and compact.
The special components layout allows for easy maintenance and quick installation.
The drive with a single electric motor is located in the upper part of centrifuges to

minimize footprint area.

By adopting this solution, you will have the thirty-year experience of the whole Company and its engineers.

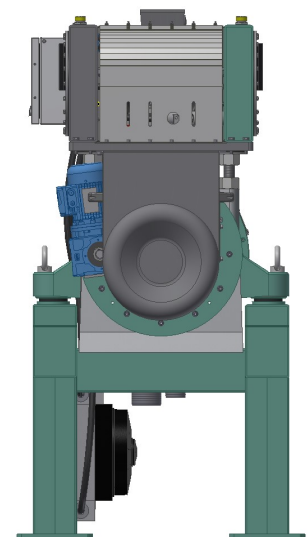
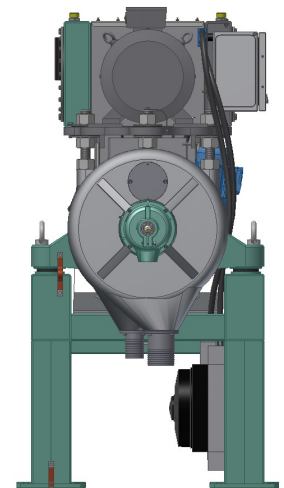
APPLICATION FIELD

Mining	Treatment for separation solid / liquid
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MAIN TECHNICAL DATA

Hydraulic Capacity	20 cm/h The effective capacity depends on the product to be treated; the percentage of solid and by the physical characteristics of separability.
Bowl Rotational Speed	Adjustable between 500 and 4300 rpm
Screw Differential Speed	Adjustable between 0,1 and 50 rpm
Maximum Working Temperature	80 °C (*)

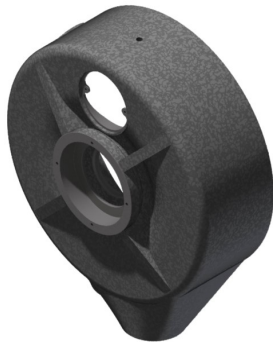
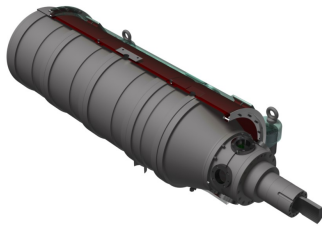
(*) optional: up to 150 °C

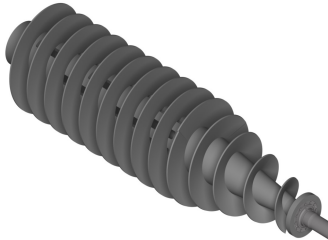
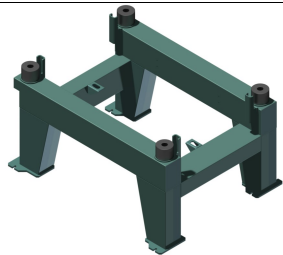
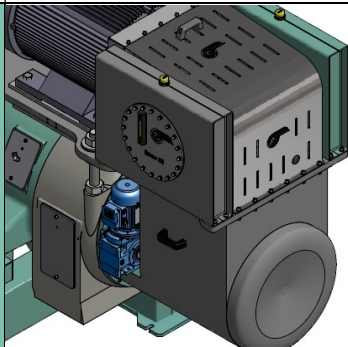


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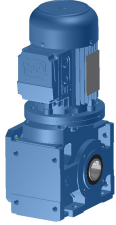
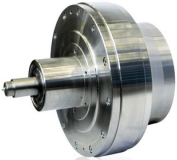
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Discover the different separation

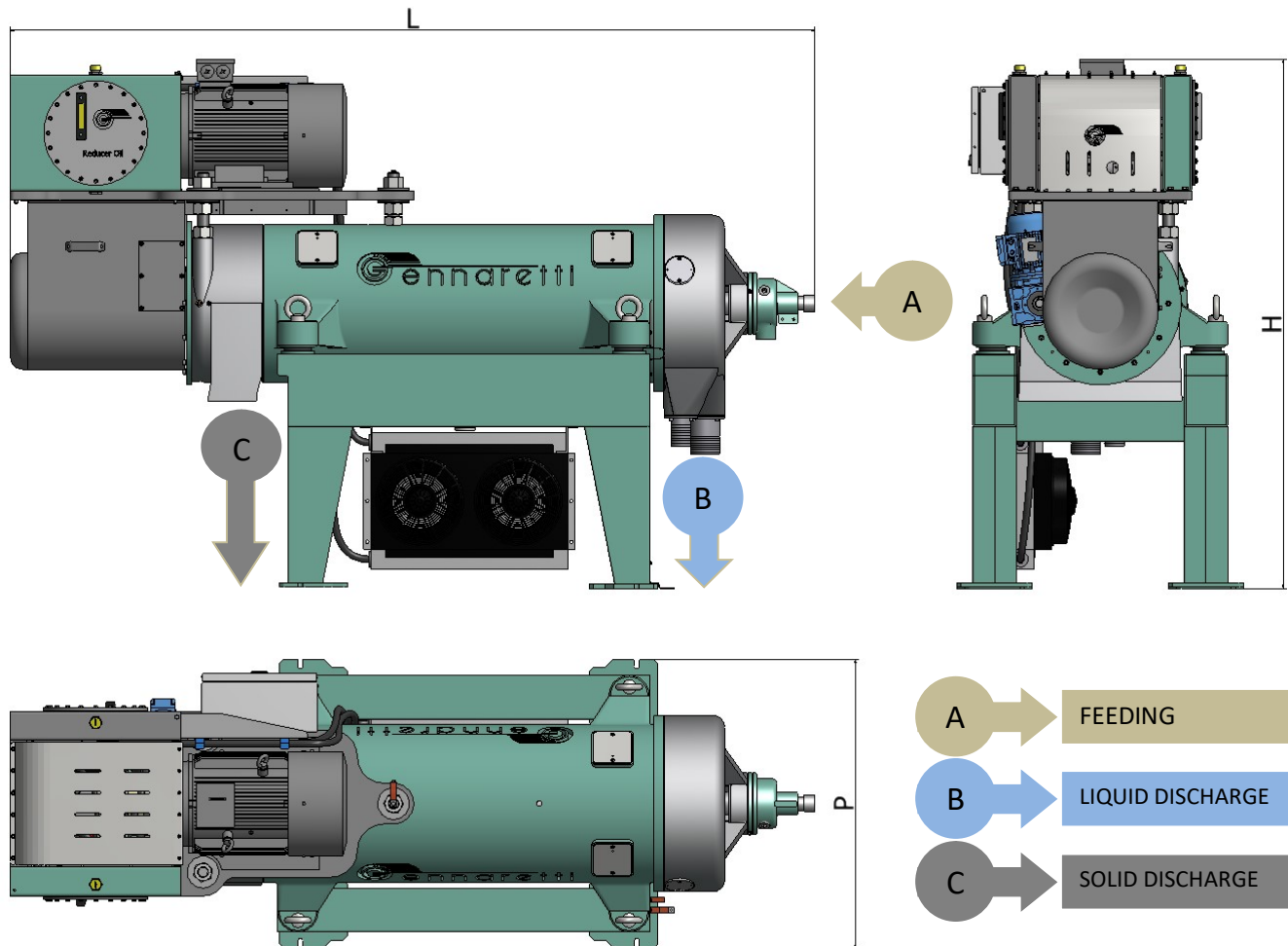
CENTRIFUGE STRUCTURE

Main Body	Heavy thick fusion made of spheroidal cast iron type 400/12, unique in the industry of manufacturers of centrifuges. Stable over time, allows a great compactness, synonymous of high reliability at high rotational speed. Guaranteed for life as a basement of a machine tool.	
Liquid Discharge Case	Heavy thick fusion made of stainless steel AISI 304, unique in the industry of manufacturers of centrifuges. Stable over time, allows a great compactness, synonymous of high reliability at high rotational speed. This part in STAINLESS STEEL allows liquid to be carried out to the output while maintaining the contact surfaces not oxidized and free from contaminants. Different materials are available.	
Solid Discharge Case	Heavy thick fusion made of stainless steel AISI 304, unique in the industry of manufacturers of centrifuges. Stable over time, allows a great compactness, synonymous of high reliability at high rotational speed. The architecture allows for easy positioning of the equipment for the evacuation of the solid. All the driving system is supported by this component. Anti-dumping system are interposed to isolate the drive system from the machine itself. This part in STAINLESS STEEL allows solid to be carried out to the output while maintaining the contact surfaces not oxidized and free from contaminants. Different materials are available.	
Bowl	Bowl cylindrical and tapered thick in stainless steel aisi 304. Internal dimensions Diameter: 353 mm Length: 1255 mm Supported by strong bearings housed in replaceable housings.	

Sintered Closing Bushing	Are inserted in the outlet part of the solid. Can be changed easily from the outside.	
Screw	Screw shaft made by a rod of aisi 304 stainless steel; spirals also are made in aisi 304, with high thickness. This solution allows to obtain a wider clarification band to optimize the liquid clarification and let make an easier refurbishing.	
Chrome wear	The chromium coating has been for decades the industrial electrochemical technology that allows for maximum wear resistance and excellent resistance to oxidation. Our screws are chrome plated with a thickness of more than 1.0 mm over the entire contact surface of the product to be separated (covering the entire edge of the spiral). The chrome coating has a hardness of: Rockwell ~ 69 HRC; Vickers ~1000 HV The tungsten coating (stellite, just ahead of the spiral) used by most of the manufacturers has a hardness of ~ 48 HRC.	
Basement	Painted steel. Vibration dampers are integrated close to the axis of rotation of the centrifuge. This solution is unique in the field of manufacturers of centrifuges.	
Tanks and transmission	The hydraulic drive of the screw allows adjustment up to 0,1 rpm optimizing the process of separation of the solid. All the transmission system is designed to maximize the recovery of energy during operation. In case of sudden lack of electricity, the screw will continue to evacuate the solid until the complete stop of the machine. The design integrates the transmission and electrical components in a protected area.	

Operating

Main Motor	It is located in the upper part of the machine to prevent the ventilation produces turbulence dusty ground level. Power: 22 kW Voltage: 400/440 Volt; 50/60 Hz; multi-tensione. Driven by inverter. N° 4 poles - B3 Class F- tropicalized. IP 55	
Scraper Reduction Gear	Power: 0,18 kW Speed: 4 rpm The slow rotation, combined with a high value of torque, allows to have a constant takeaway of the deposited material. The rotation of the scraper in AISI 304 is totally independent from the rotation of the bowl, this allows to decrease the noise and wear.	
Hydraulic Pump	LINDE piston displacement 55 cm³, with variable PWM control. The hydraulic circuit requires only a small amount of oil (14-liter tank) with consequent reduction of the cost of management	
Hydraulic Motor	PARKER HANNIFIN a stroke inclined. Fixed displacement 30 cm³	
Reduction Gearbox	Cycloid type. Ratio 1:59 Able to transmit for a long period time high torque. Lubrication forced with oil.	



TECHNICAL INFO			
Lenght :	L = 2500 mm	Costruction Standards : 22006/42/CE MACHINE DIRECTIVE 2006/98/CE LOW VOLTAGE DIRECTIVE 2004/108/CE ELECTROMAGNETIC COMPATIBILITY DIRECTIVE (EMC)	
Width:	P = 990 mm		
Width:	H = 1820 mm		
Weigh:	1750 kg		

PAINTING	Central Body and Basement	Motors and Protection
Smooth Coating	GETECH GREEN	RAL 7030

Technical data refer to the latest version of the centrifuge. We reserve the right to make modification.

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