



GHT Type V

DECANTER CENTRIFUGE

MECHANICAL DEHYDRATION
OF SLUDGE

GHT Type P & V

FIELDS OF APPLICATION:

MINES & QUARRIES :

- dehydration of sludge produced by sand & gravel washing processes.

ENVIRONMENT :

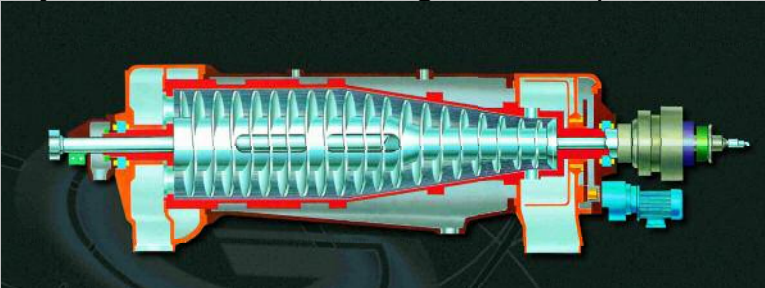
- dehydration of sludge from soil washing plants, lake or river cleaning processes,
- dehydration of sludge from industrial settling lagoons.

UNDERGROUND WORKS :

- dehydration of flocculated bentonite slurry,
- separation at 20~25µm without flocculant to recycle bentonite.

PRINCIPLE OF OPERATION

- separation by high energy centrifugation in a bowl, rotating around its axle,
- concentration and evacuation of dehydrated sludge by a cylindro-conical screw, running at variable speeds.



TWO SERIES :

- "P" for "Proportional" Type, for constant density sludge applications : the speeds of the bowl and the screw vary proportionally, controlled by the PLC.
- "V" for "Variable" Type, for variable densities sludge applications : the speeds of the bowl and the screw vary independantly, both controlled by the PLC.

INSTALLATION :

MS designs, manufactures and/or installs the required additional equipment : flocculant preparation unit, homogenising tank, density control and dilution, recovery of dehydrated sludge, cover building.

STRONG POINTS, the result of many years of R&D carried out by Gennaretti Spa :

DESIGN :

- separate motor for bowl and screw, installed above the machine => less absorbed power and greater reliability
- anti-vibration dampers on the same axis as the machine => perfect balance, vibration and noise reduced to minimum

MATERIALS : high quality materials, ensuring resistance and reliability :



- Spheroidal cast iron body,
- AISI 304 for inlet and outlet parts,
- AISI 304 for bowl and 316 for screw spiral.

DRIVE & TRANSMISSION :

- bowl : by electric motor with inverter,
- screw : by hydraulic motor, varying speed according to the pressure (V series), or by the bowl motor (P series).



ADVANCED TECHNOLOGY :

- Guaranteed lasting performance due to the technology of the chosen components : electronic sensors, PLC, inverters, colour touch screens, connection by modem and GSM, specific software studied by R&D department...



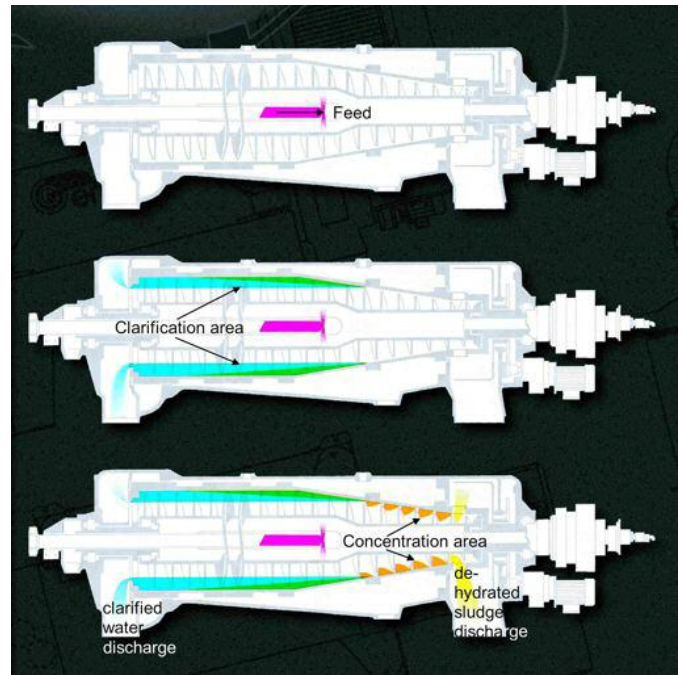
SAFETY

The MS / Gennaretti plants and equipment comply with CE standards of personnel safety and ergonomics

PRINCIPLE OF OPERATION :



GHT Type P



TECHNICAL DATA														
	GHT 1xx		GHT 2xx		GHT 3xx		GHT 4xx		GHT 5xx		GHT 5xx-600		GHT 6xx	
Type :	102 P	103 V	202 P	203 V	302 P	303 V	402 P	403 V	502 P	503 V	502-600P	503-600 V	602 P	603 V
Ø Bowl (mm)	250		357		357		500		500		590		750	
Bowl length (mm)	863		1255		1597		1797		2160		2160		3373	
Max. rotation speed (t/mn)	7000		4300		4300		3500		3500		3200		2800	
Max. centrifugal force (g)	6850		3700		3700		3425		3425		4083		3280	
El. motor (kw)	7.5		15		18.5		45		55		75		132	
Noise level (dB)	75.5		77.5		77.5		80.2		80.5		80.5		84.7	
Overall size (mm)	1268x620 x1358	1628x620 x1358	2425x800 x1820	2425x800 x2050	2750x880 x1750	2750x880 x1900	3140x1280 x2080	3140x1280 x2210	3520x1280 x2200	3520x1280 x2290	3520x1280 x2200	3520x1280 x2290	4800x2000 x2700	4800x2000 x2790
Weight (kgs)	600	650	1550	1850	2000	2250	4100	4350	5100	5350	6080	6380	15100	15600
PERFORMANCES*														
Solids capacity (dry t/h)**	0.8~1		1~2		2~3		6~7		9~11		14~16		32~38	
Max. fed volume (m ³ /h)	6		15		20		45		60		90		200	
Expected dryness	from 45 to 65% solids (% weight) depending on the fed material (*)													
Flocculant consumption	from 100 grammes to 1 kg per ton of dry solids depending on the fed material (*)													

* subject to confirmation after tests
** for s.g. 2.65 and low viscosity.

Mobile Plant for pilot tests on site



High dryness of dehydrated sludge : no further release of water

Gennaretti spa
CENTRIFUGAL SYSTEMS

Distributor for France :
2 rue Pierre Gilles de Gennes
PRA DE SERRE
63 960 VEYRE-MONTON

Tél : 33 (0)4 73 28 52 70
Fax : 33 (0) 4 73 28 52 71
E-mail : info@m-s.fr
Site : www.m-s.fr

