CHEMICAL PUMPS SINCE 1992

GENERAL CATALOGUE

2025 | 2026

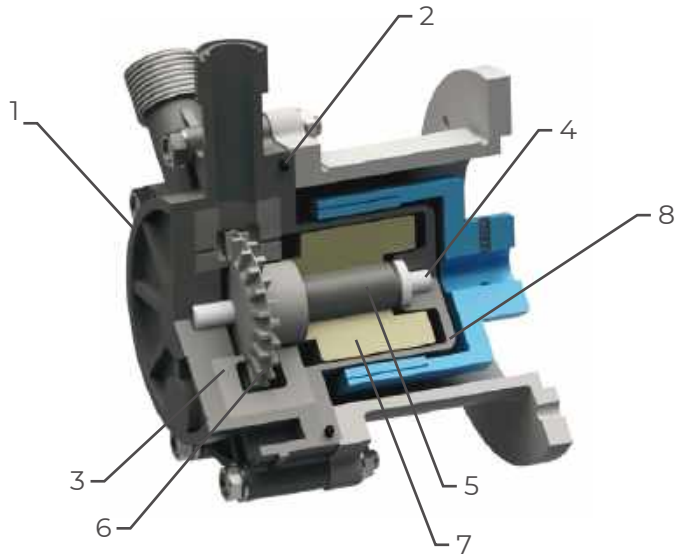
GemmeCotti®
EUROPEAN PUMPS

www.gemmecotti.com

MAG-DRIVE TURBINE PUMPS

SEAL-LESS MAG DRIVE TURBINE PUMPS

In seal-less magnetic drive turbine pumps, the external magnet is directly connected to the motor shaft and it transmits the torque to the internal magnet. The magnetic field created produces a rotation without physical contact between the parts and the turbine spins and moves the fluid. The rear casing is placed between the two magnet joints and it hermetically closes the hydraulic part from the motor.



GemmeCotti supplies three different models of mag drive turbine pumps:

HTT PP/PVDF

- Thermoplastic pumps made of PP or PVDF.
- Capacity up to 9 m^3/h.
- Head up to 48 mlc.

HTT-SP PP/PVDF

- Thermoplastic pumps made of PP or PVDF.
- Capacity up to 6 m^3/h.
- Head up to 24 mlc.
- Machined from a block.
- Self-priming up to 5 m.

HTA AISI 316

- Metallic pumps made of stainless steel AISI 316.
- Capacity up to 7 m^3/h.
- Head up to 76 mlc.

MATERIALS IN CONTACT WITH THE LIQUID			
PART NUMBER - DESCRIPTION	TURBINE PUMPS		
	HTT	HTT-SP	HTA
1 - PUMP HEAD	PP or PVDF	PP or PVDF	AISI 316
2 - O-RING	EPDM or VITON	EPDM or VITON	EPDM or VITON
3 - FRONT AND REAR DISC	PP or PVDF	PP or PVDF	PTFEC
4 - SHAFT + RING	CERAMIC Al_2O_3 99,7%	CERAMIC Al_2O_3 99,7%	HASTELLOY-C 276
5 - BEARING	PTFEC	PTFEC	PTFEC
6 - IMPELLER	PVDF	PVDF	AISI 316
7 - INTERNAL MAGNET	PP or PVDF + NdFeB	PP or PVDF + NdFeB	AISI 316 + SmCo
8 - REAR CASING	PP or PVDF	PP or PVDF	AISI 316

HTT-SP PP/PVDF

THERMOPLASTIC MAG-DRIVE REGENERATIVE TURBINE PUMPS - SELF-PRIMING

HTT-SP pumps can **prime up to 5 m** with water at ambient temperature. **The casing is made from a PP solid machined block and the impeller in PVDF** for maximum chemical resistance. The casing is machined from a solid block. The impeller in PVDF is self-balanced to eliminate thrust bearing wear and it is separate to minimize the maintenance costs. This kind of pump offers **maximum resistance with standing also external corrosion.** It handles up to 20% entrained gas and resists cavitation.

STANDARD

- High torque magnetic coupling.
- Chemical resistant PTFE/carbon sleeve bearings.
- Direct starting motors.

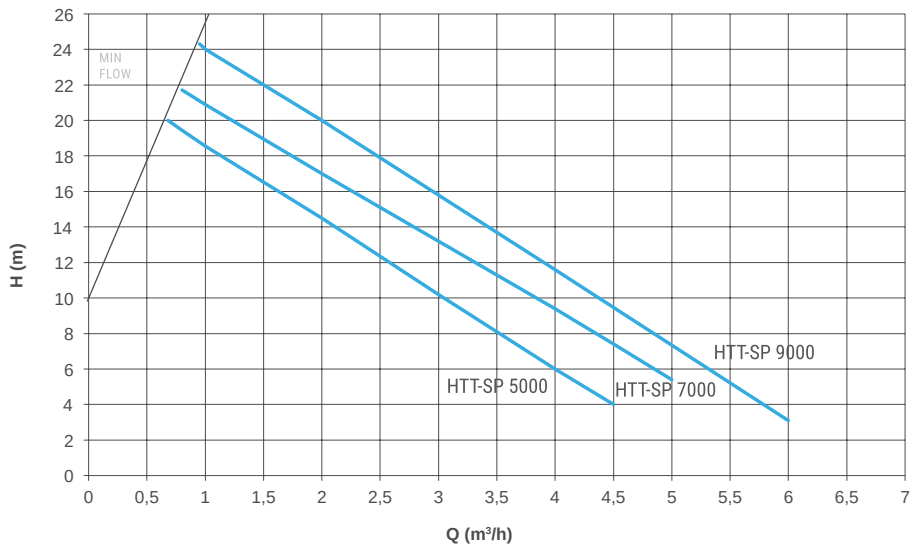
OPTIONAL

- DIN or ANSI flanges available.
- Baseplate.
- Available in ATEX version for zone 2II 3G (pump mod. EM-T SP PP/PVDF).

MAIN FEATURES

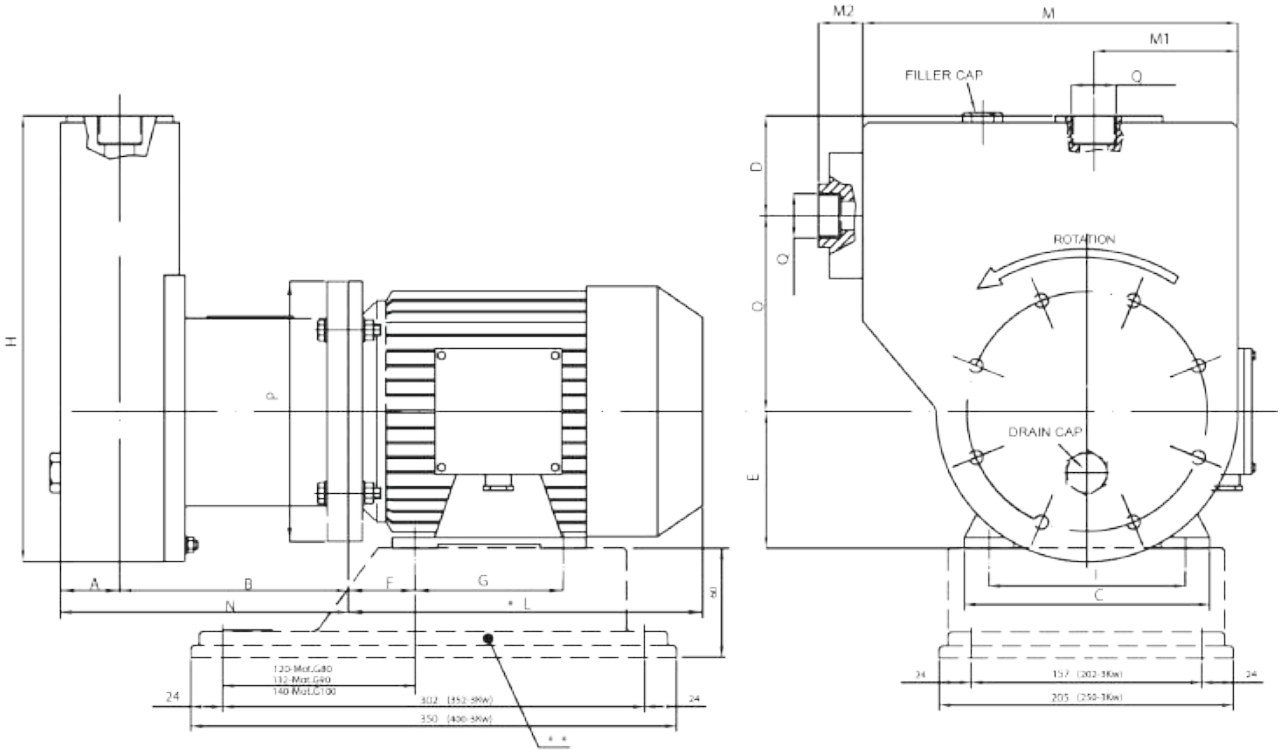
- **Materials available:** PP / PVDF.
- **Materials in contact with the liquid:**
  Pump housing: PP or PVDF; Impeller: PVDF; O-ring: EPDM (standard for PP pumps) / VITON (standard for PVDF pumps); Static shaft: ceramic Al^2O^3 99.7%; Bearing: PTFEC.
- **Max flow:** 6 m^3/h; **Max head** 24 mlc.
- **Max Temperature:** PP: 70°C – PVDF: 90°C.

PERFORMANCE CURVES 50Hz - 2900 RPM



HTT-SP TECHNICAL DATA

PUMP SIZE	MATERIAL	Q MAX		H MAX		SUCTION CONNECTION	DISCHARGE CONNECTION	SUITABLE MOTOR POWER (kW) 2900 rpm	MOTOR FLANGE AND FRAME
		50Hz (m³/h)	60Hz (USGPM)	50Hz (mlc)	60Hz (ft)				
HTT-SP 5000	PP- PVDF	4.5	23	18	90	1" FEMALE	1" FEMALE	0.75 1.1	80 - B3 / B5 80 - B3 / B5
HTT-SP 7000	PP- PVDF	5	27	20	98	1" FEMALE	1" FEMALE	1.1 1.5 2.2	80 - B3 / B5 90 S - B3 / B5 90 L - B3 / B5
HTT-SP 9000	PP- PVDF	6	32	24	110	1" FEMALE	1" FEMALE	2.2 3	90 - B3 / B5 100 - B3 / B5



DIMENSIONS - mm -

PUMP TYPE	MOTOR FLANGE B3 - B5	kW	A	B	C	D	E	F	G	H	I	* L	M	M1	M2	N	O	P	Q
HTT-SP 5000	80 2A 80 2B	0.75 1.1	PP = 45 PVDF = 41	175	160	70	80	50	100	325	125	215 232	270	97.5	33	PP = 220 PVDF = 216	147	200	1" FEMALE
HTT-SP 7000	80 2B 90 S 90 L	1.1 1.5 2.2	PP = 45 PVDF = 41	175	160 170 170	70	80 90 90	56	100 100 125	325	125 140 140	232 255 280	270	97.5	33	PP = 220 PVDF = 216	152	200	1" FEMALE
HTT-SP 9000	90 L 100 L	2.2 3	PP = 45 PVDF = 41	186 206	175 200	72	90 100	56 63	125 140	329	140 160	290 315	275	102	37	PP = 231 / PVDF = 227 PP = 251 / PVDF = 247	150	200 250	1" FEMALE

* Different according to the manufacturer. ** OPTIONAL UPON REQUEST: DIN or ANSI Flanges and Baseplates.

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