



*Engineered
Quality*



SUBMERSIBLE PUMPS T

wastewater

construction sites, municipal and professional applications

up to 2.400 l/min, up to 21 m

Robust Quality.

MAST submersible pumps T are designed for demanding applications. With unique technical features like the encapsulated motor winding and the full motor protection MAST MD-Electronics. Reliable technology - for a long service life!

✓ Robust

Impeller and diffuser are made of shockproof cast iron acc. to DIN 1561 to resist abrasive solids.

✓ Efficient

At the construction site power supply is limited, therefore MAST submersible pumps are optimized for maximum performance with low power consumption.

✓ Maintenance-free

No oil filling, no lubrication points, no use of sealants, no readjustment work required.

✓ Reliable

MAST submersible pumps T are fully protected by the cast resin encapsulated motor winding, overload protection, and the MAST MD electronics with automatic rotating direction at 400 V.

✓ Durable

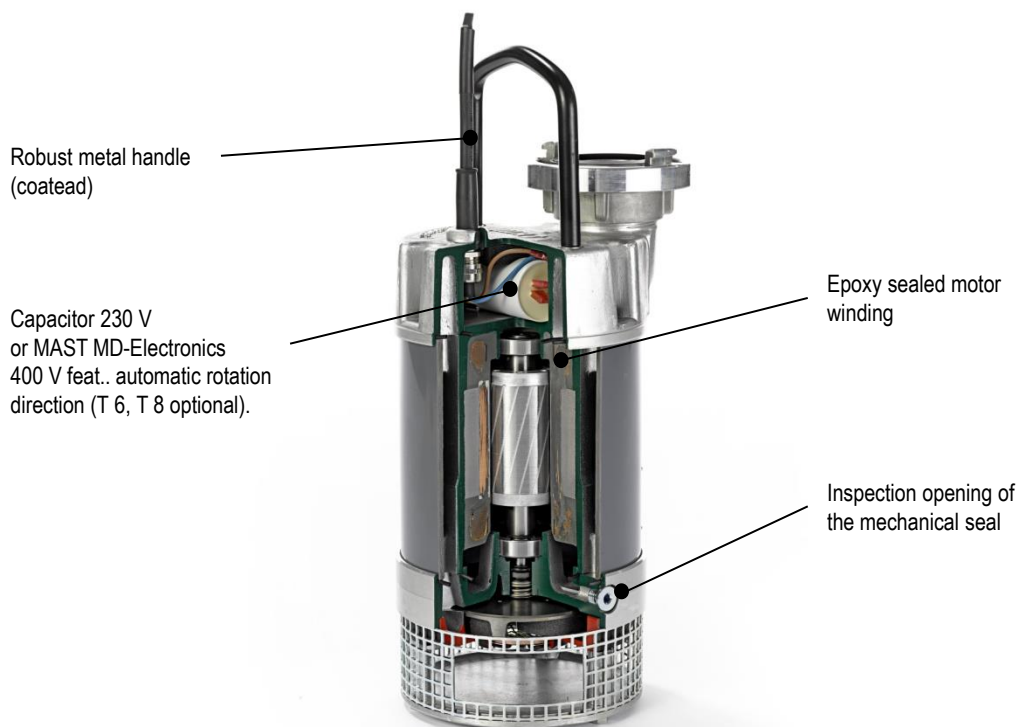
All at application highly loaded components are heavy-duty casted parts, made of seawater resistant aluminum alloy acc. to DIN EN 1706. Mineral-oil resistant NBR O-rings, certified cable H07-RN-F. Even mineral-oil / water mixtures can be pumped without damages. All screws are made of stainless steel.

✓ Safe to run dry

For mobile applications customized safe to run dry mechanical seals.

✓ Solid

Built-in strain relief with very good adhesion between the cable and seal kit No use of sealants such as Silicone.





High performing variety.

MAST submersible pumps T are powerful, robust, but lightweight wastewater pumps for construction sites, municipalities and other professional applications.

Lightweight

MAST submersible pumps T are designed for easy handling. The T 6 L (230 V) and T 6 (400 V) with 21 kg and 22 kg total weight (including cable) are one of the most lightweight pumps of their classes. The T 6 L, T 6 and T 8 is easily hold by one person. The T 12, T 16 and T 20 have a turnable discharge for easy handling of the pressure hose.

Using the Storz-coupling system, all types are available with Storz-coupling intake for connection in more stages to pump over long distances. Nevertheless, they can be used as a single stage pump.



Low level pumping

MAST submersible pumps TP can be used for slurping applications. Low water level pumping is possible down to a few millimeter (types T 12, T 16 and T 20 with optional wristband).

Ready to use

The modular design using fewer screws as well as the oil and grease-free design support the simple and quick replacement of wearing parts.

The accessories.

For MAST submersible pumps a wide range of accessories such as cable bracket, hoses, float switch and PRCD safety switch is available. The pumps are also available as a complete set of pumps with robust quality accessories.



Unique motor protection.

The MD-Electronics (motor and direction of rotation monitoring electronics) is an invention of MAST. It offers a unique motor protection for pumps in version 400 V. The first generation was in 1978 applied for a patent, implemented and constantly evolving. It has been proven in thousands of demanding applications.

The latest generation is controlled by a micro-processor that ensures highest reliability. The MD-Electronics protects the electric motor 100 % from environmental risks. Learn more about the features of the MD Electronics below.

Automatic rotating direction

The automatic rotating direction feature always switches the motor in the right direction, regardless of the phase sequence of the power supply. A motor damage due to incorrect direction of rotation is excluded. There is no reversing switch required. Easy handling and secure application.

Overload protection

An built-in temperature sensor (PTC-thermistor) protects the motor from overheating damage in case of overload. In danger of overheating the pump turns off automatically. After cooling, the pump can be switched on again.

Low voltage protection

In case of low voltage the MD-Electronics prevents the pump from starting. If the voltage drops below a defined value, the pump turns off. The pumps runs only when sufficient voltage is present.

Mechanical seal monitoring

A regular review of the mechanical seal is not required. A sensor in the motor compartment detects a critical water intrusion and automatically turns off the pump at risk of breakdown. The motor is protected from harm. Only the worn out mechanical seal has to be replaced.

Phase failure protection

If one of the 3 phases breaks down, the pump will shut off automatically. A damaging 2- phase operation is not possible.



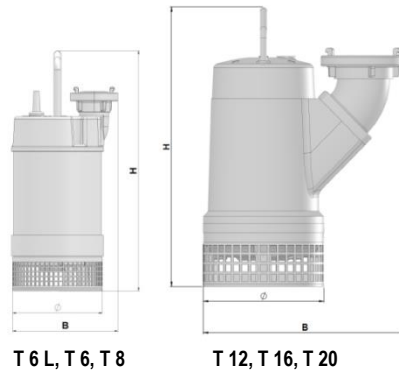
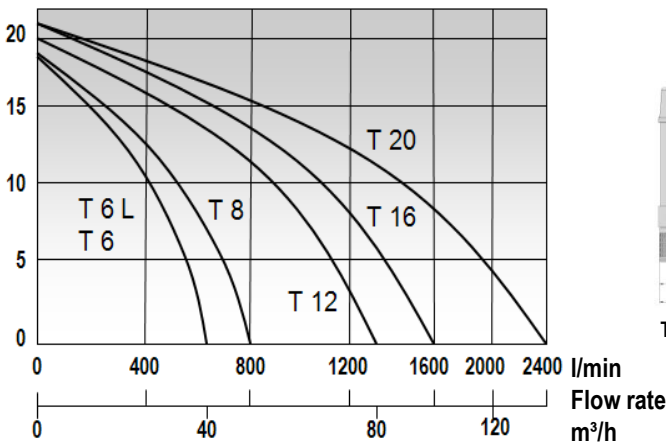
The specifications.

MAST submersible pumps are available in 5 power stages. The Type 230 V is marked with an "L".

Type		T 6 L	T 6	T 8	T 12	T 16	T 20
Protection class		DIN EN 60529 - IP 68					
Voltage	V	230					400
Power	P ₁ kW	1,6		2,0	3,0	3,7	5,3
	P ₂ kW	1,2		1,5	2,4	3,0	4,5
Rated current	A	8,1	2,9	3,8	5,5	6,5	9,3
Grain passage	Ø mm	8			15		
Discharge conn. / coupling		G 2" / STORZ C		G 2½" / STORZ B		G 4" / STORZ A	
Wire H07RN-F	20 m	3 G 1,5	4 G 1,5	4 G 1,5		4 G 2,5	
Plug		Schuko IP 44	CEE 16A IP X4				
Fluid temperature	°C	max. 60°C					
Total weight	kg	21	22	23	39	42	45
Dimension	cm	Ø 19 x B 23 x H 50			(abw. B 39)	Ø 26 x B 44 x H 57	

Typ	U	flow rate Q / l/min.at flow height meter						
		0	5	10	15	18	20	21
T 6 L / T 6	230 / 400 V	660	560	400	160	0		
T 8	400 V	800	690	500	210	0		
T 12	400 V	1300	1150	870	440	170	0	
T 16	400 V	1600	1400	1060	600	310	120	0
T 20	400 V	2400	1980	1520	850	340	140	0

Flow height meter



T 6 L, T 6, T 8

T 12, T 16, T 20

Flow rate
m³/h

The company.

The MAST PUMPEN company was established in 1948 and is still intergenerational owner-operated.

Decades of experience combined with cutting-edge technologies form a synthesis that produces exceptional products.

Computer Based developed and produced on the latest CNC machines, MAST pumps fulfill all the demands placed on a quality product. MAST pumps are designed and manufactured in Germany.



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