



*Engineered  
Quality*



## SEWAGE PUMPS ATP

non-clogging portable floodwater pumps  
fire & rescue, civil protection and municipalities  
up to 2.500 l/min, up to 2.0 bar

# Robust Quality.

MAST submersible sewage pumps ATP are designed for demanding applications. They are clogging safe, used without strainer to pump high polluted flood water with solids up to 80 mm. With unique technical features like the encapsulated motor winding, the full motor protection MAST MD-Electronics and the 360° rotary discharge. Reliable technology - for a long service life!

## ✓ Powerful

The performance of the ATP 20 has been tested and certified by TÜV Regensburg. MAST submersible sewage pumps ATP with a flow rate of up to 2,500 l / min (150 m³/h) are one of the most powerful pumps in their class.

## ✓ Reliable

MAST sewage pumps ATP are fully protected by the cast resin encapsulated motor winding, the pressure water tight capacitor (IP 68) at 230 V and the unique MAST MD-Electronics (400 V).

## ✓ Robust

The channel impeller is made of customized shockproof cast iron acc. to the German standard DIN 1561 suitable for even long fibrous materials with high-density.

## ✓ Clogging safe

MAST sewage pumps ATP are equipped with a clogging safe channel impeller with up to 80 mm grain passage. No strainer is needed.

## ✓ Maintenance-free

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

## ✓ Safe to run dry

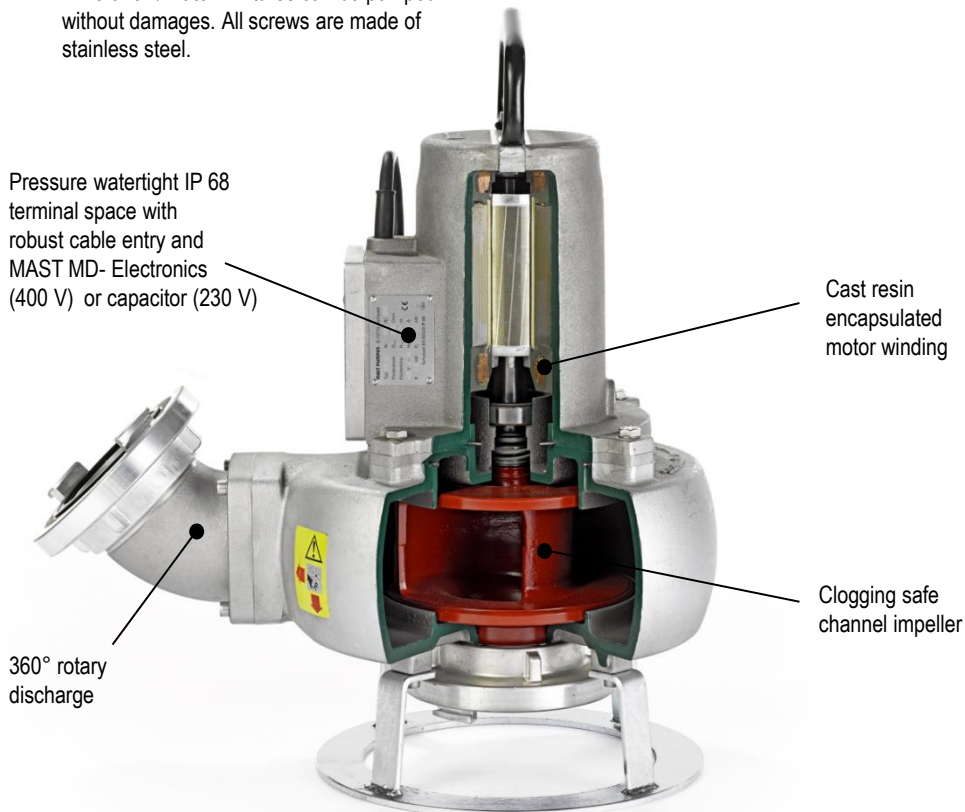
For mobile applications customized safe to run dry mechanical seals.

## ✓ Durable

Sea water resistant aluminum alloy acc. to the German standard DIN, mineral oil-resistant NBR seals, certified cable H07RN-F. Even mineral oil / water mixtures can be pumped without damages. All screws are made of stainless steel.

## ✓ Efficient

Due to the low power consumption 3 kVA (ATP 10 - series) or 5 kVA (ATP 15 and ATP 20 series) DIN power generator applications.





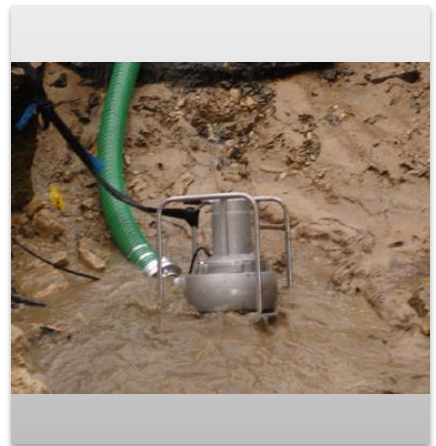
## Powerful diversity.

MAST sewage pumps ATP are available with stainless steel tubular frame customized for flood water treatment by fire fighters and civil protection organizations, or vertically designed with ground plate customized for municipal sewage treatment.

### Lightweight

Despite robust construction and high performance MAST submersible sewage pumps are light in weight. The total weight with cable and plug begins at 27 kg.

The robust stainless steel tubular frame is designed with no sharp edges. The pumps can easily be carried by two persons.



### Low level pumping

MAST sewage pumps are suitable for low level pumping. With tubular frame, simply turn the pump on the input coupling (available in combination with Storz coupling). The pump with ground plate only needs a mounted A/B or B/C Storz adapter on the input coupling.

## The accessories.

For MAST submersible sewage pumps ATP a wide range of accessories such as cable holder, rubber hoses, float switches and PRCD-safety switches is available.



# 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.



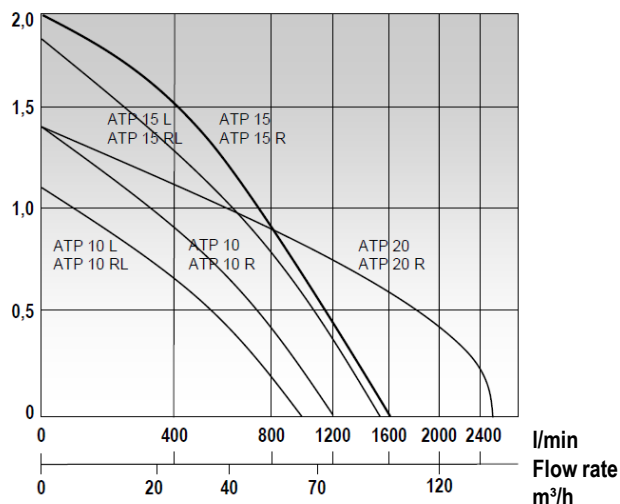
# The Specifications.

MAST submersible sewage pumps are available in 4 power stages. The types with 230 V are marked with an "L". The types in stainless steel tubular frame are also marked with an "R". If with or without frame, the types can be converted into each of the different versions later on.

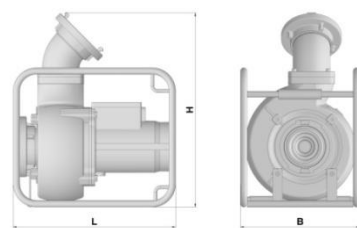
Type		ATP 10 L ATP 10 RL	ATP 15 L ATP 15 RL	ATP 10 ATP 10 R	ATP 15 ATP 15 R	ATP 20 ATP 20 R
Protection class		DIN EN 60529 - IP 68				
Voltage	V	230		400		
Power consumption	P <sub>1</sub> kW	1,8	2,7	2,0	3,1	2,9
Rated power	P <sub>2</sub> kW	1,3	2,0	1,5	2,6	2,3
Rated current	A	8,4	13,4	3,6	5,4	5,2
Grain passage	Ø mm	65				80
Discharge connection		G 2½" / STORZ B				G 4" / STORZ A
Incoming Connection		G 3" / STORZ B				G 4" / STORZ A
Wire H07RN-F	20 m	3 G 1,5		4 G 1,5		
Plug		DIN 49443 IP 68		CEE 16A IP 45		
Fluid temperature	°C	max. 60°C				
Total weight	kg	26	33	27	38	47
Total weight with frame	kg	27	34	28	39	49
Dimensions	cm	L 41 x B 23 x H 56	L 41 x B 23 x H 59	L 41 x B 23 x H 56	L 42 x B 23 x H 59	L 58 x B 35 x H 65
Dimensions with frame	cm	L 44 x B 26 x H 43	L 46 x B 26 x H 43	L 44 x B 26 x H 43	L 46 x B 26 x H 43	L 50 x B 36 x H 58

Typ	U	flow rate Q l/min. at flow pressure p bar							
		0	0,3	0,5	0,7	1,1	1,4	1,8	2,0
ATP 10 L ATP 10 RL	230 V	1000	780	500	300	0			
ATP 15 L ATP 15 RL	230 V	1500	1250	1100	910	580	320	0	
ATP 10 ATP 10 R	400 V	1200	1030	780	550	270	0		
ATP 15 ATP 15 R	400 V	1600	1300	1150	990	660	570	130	0
ATP 20 ATP 20 R	400 V	2500	2280	1920	1300	680	0		

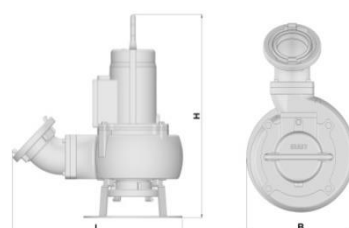
Flow pressure p bar



ATP with tubular frame



ATP floor standing



# 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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