



Submersible compact, lightweight pumps for construction, tunneling, mining and clean-up jobs.



**Drainage pumps:**

- Micro
- Macro

**Sludge pumps:**

- Solid

60 Hz

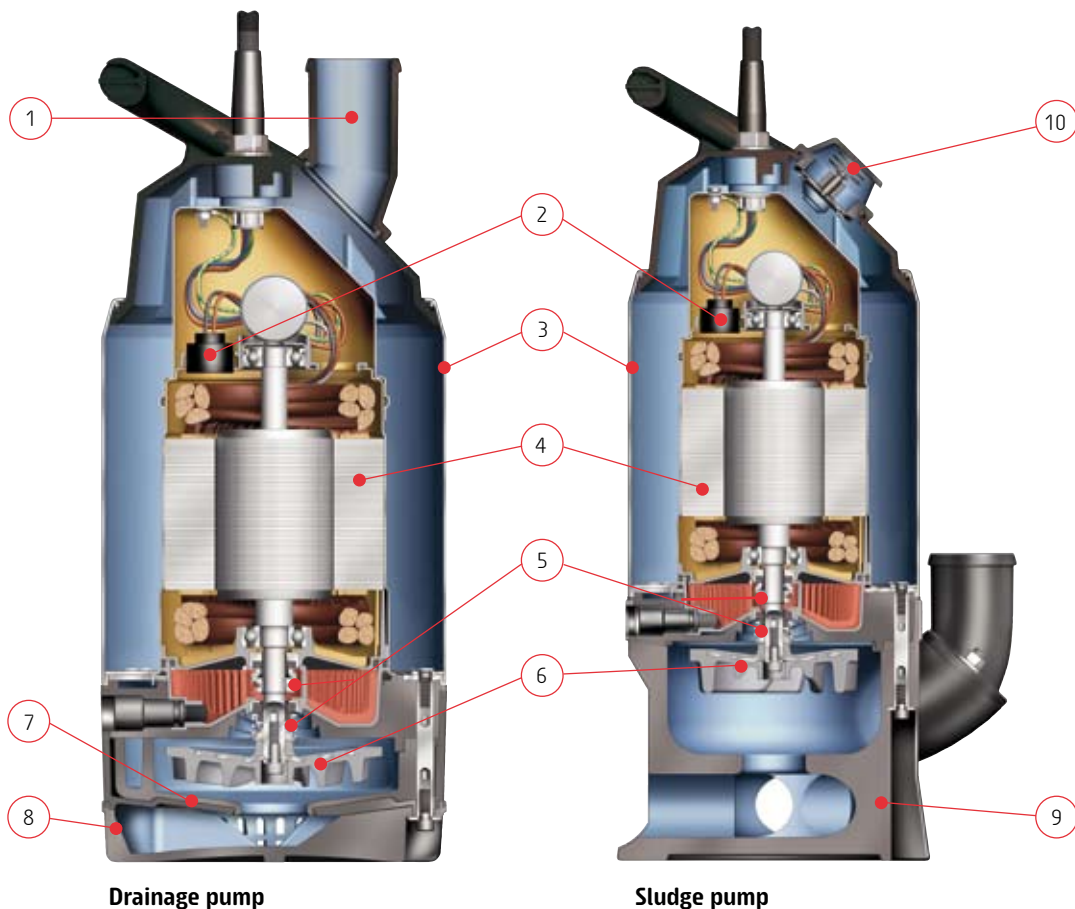
## Micro, Macro and Solid. Think small. Win big.

You need a tough, portable submersible pump. One that can be depended on in an emergency situation. Or handle an ongoing dewatering job. A pump that can handle the very worst of conditions, from removing sludge from construction sites and tunneling projects to dewatering mines.

Micro, Macro and Solid pumps from Grindex can do all this and more. These compact pumps are extremely lightweight relative to their capacity. Engineered with stainless steel, composite materials and polyurethane for strength and impact resistance, they're untroubled even by sand, gravel and sludge particles.

The design of these pumps makes servicing quick and easy. And service kits with easy-to-follow assembly instructions simplify things even further.

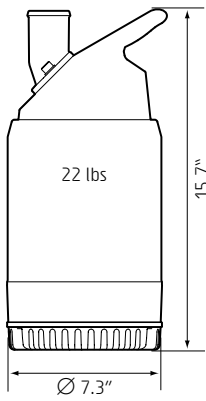
### This is what makes Micro, Macro and Solid unique:



1. Discharge connection, vertical/horizontal
2. Overheating protection
3. Outer casing of stainless steel
4. Squirrel cage induction motor
5. Double mechanical shaft seals

6. Polyurethane impeller
7. Polyurethane diffusers
8. Shockproof rubber strainer
9. Shockproof polyurethane pump housing
10. Air valve

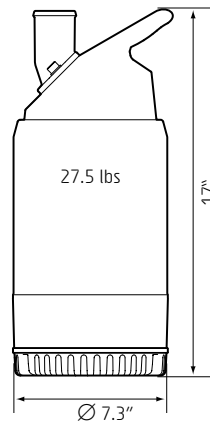
## MICRO



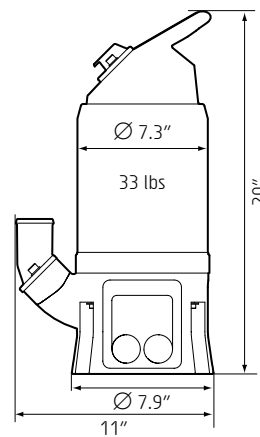
### Drainage pumps

Micro and Macro excel in applications where speed and easy handling are essential. They are built to handle contaminated water, pH 3-9, and water containing relatively abrasive solids up to the size of the strainer holes.

## MACRO



## SOLID



### Sludge pumps

When the job is beyond the capabilities of a drainage pump, Solid takes over. It's built to handle contaminated water, pH 3-9, and water containing sand and gravel with particle sizes up to 1.5".

## Technical data

### Pump type

Single phase

### Classification

Electrical submersible pump  
Protection class: IP68

### Power cable

SOW 16AWG/3, length 50 ft

### Discharge connections

2", NPSM (standard) or hose barb (optional)

### Materials

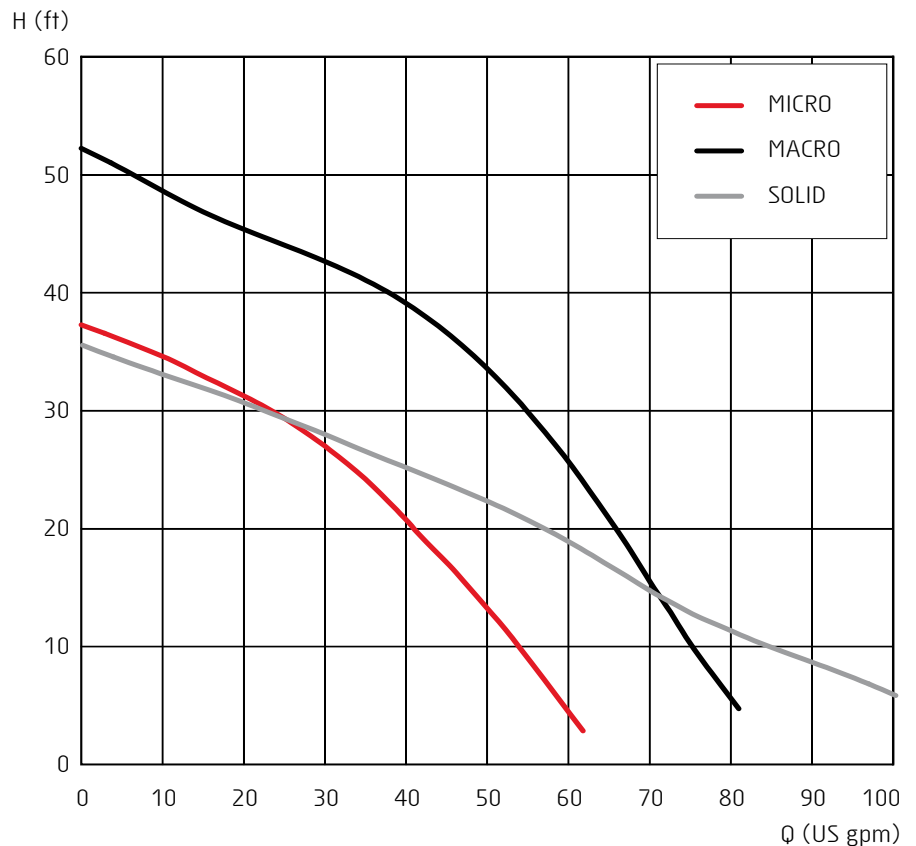
Pump top: *Stainless steel/reinforced polymer*  
Diffusers (drainage): *Polyurethane wear parts*  
Pump housing (sludge): *Polyurethane wear parts*  
Outer casing: *Stainless steel*  
Stator housing: *Stainless steel*  
Motor shaft: *Stainless steel*  
Shaft seals upper: *Carbon/aluminium oxide*  
Shaft seals lower: *Silicon carbide/Silicon carbide*  
Impeller: *Polyurethane*  
Screws and nuts: *Stainless steel*

### Limitations

Max submersion depth: 33 ft  
Max liquid temperature: 95°F  
Max liquid density: 68 lbs/ft<sup>3</sup>  
pH of the liquid: 3-10

### Accessories

Float switch  
Low suction collar (drainage)



| 115 V, 230 V / 60Hz         | MICRO       | MACRO     | SOLID     |
|-----------------------------|-------------|-----------|-----------|
| HP-rating                   | 0.6 HP      | 1.1 HP    | 1.1 HP    |
| Max power consumption       | 0.65 kW     | 1.1 kW    | 1.1 kW    |
| Rated current at 230 V      | 2.9 A       | 4.8 A     | 4.8 A     |
| Shaft speed                 | 3300 RPM    | 3400 RPM  | 3400 RPM  |
| Strainer holes / throughlet | .2 x .4     | .2 x .4   | Ø 1.5"    |
| Weight                      | 22 lbs      | 27.5 lbs  | 33 lbs    |
| Dimensions Ø/H              | Ø 7.3/15.7" | Ø 7.3/17" | Ø 7.9/20" |



## The Grindex team.

For more than 50 years, Grindex has specialized in designing and manufacturing electrical submersible pumps for professionals. Durable and dependable, they are used in the most demanding and specialized applications worldwide. We have delivered over 300,000 pumps in more than 100 countries.

We offer pumps for almost any application. Our range includes drainage pumps, sludge pumps, slurry pumps and stainless steel pumps.

When you're running a Grindex pump, you can be secure in knowing that you have a dedicated team behind you. Our experts are always on hand to help with anything you need. Through our global network of sales and service centers we provide the best level of support possible—day and night, seven days a week. It's all part of the service.

For more information, please visit [www.grindexpumps.com](http://www.grindexpumps.com)