



Submersible heavy-duty pump for very high head applications in mines, quarries and tunnel projects.



**Drainage pump:**

Mega

60 Hz



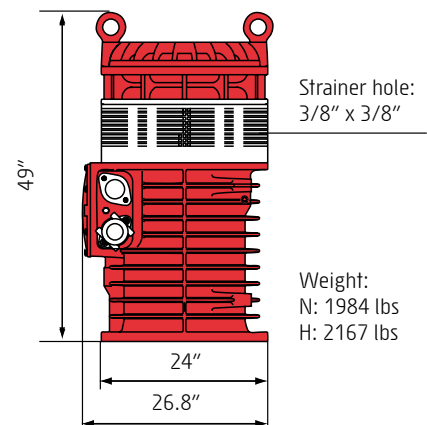
## Mega - the drainage pump for very high head applications

The Mega pump is ideal for operation in deep excavations where very high head pumping is needed, such as in open pit mines and underground mines. Other typical applications include quarries and tunnel projects. The delivery head of over 700 ft. minimizes the need of serial coupled drainage pumps.

Mega is designed to handle pH levels from 6 to 13. This cast iron pump is also the right choice for heavy-duty applications in salt water, when equipped with zinc anodes (optional). Grindex durable and reliable pumps are designed for long time operation and are easy to install and maintain.

Just like Grindex pumps spend most of their life hidden below the water surface, the greater part of total pumping cost is usually also hidden. The cost-effective and efficient Grindex pump drains the water, not the budget.

All Grindex pumps are designed for continuous, unattended operation. For 50 years, they have proven their reliable performance in a wide range of challenging applications worldwide.





## TECHNICAL DATA

### Pump types

N: Normal head  
H: High head

### Classification

Electrical submersible pump  
Protection class: IP68  
Max. submersion depth: 245 ft.

### Electrical motor

Squirrel cage 3-phase induction motor  
Insulation class: H (IEC 85)  
Motor protector  
Temperature guard with thermal contacts in the stator

### Monitoring equipment

Pt 100 sensor for main bearing temperature reading

### Power cable

SUBCAB, consult product data sheet for details

### Shaft seals

Double mechanical shaft seals with an oil compartment between the seals.

Material lower seal: Tungsten carbide - Tungsten carbide

Material upper seal: Tungsten carbide - Tungsten carbide

### Bearings

Main bearing: Two single-row angular contact ball bearing  
Support bearing: Cylindrical single-row roller bearing with C3 clearance

### Discharge connections

N: 6" (DN 150) Flange SMS, DIN, BS or ANSI

H: 4" (DN 100) Flange SMS, DIN, BS or ANSI

### Materials

Casted parts: Cast iron  
Motor shaft: Stainless steel  
Impeller: Cr-alloyed white cast iron or stainless steel  
Screws and nuts: Stainless steel  
Diffusers: Nitrile rubber

### Accessories

Zinc anodes

Limitations

Max. submersion depth: 245 ft.

Max. liquid temperature: 104°F

Max. liquid density: 68 lbs/ft<sup>3</sup>

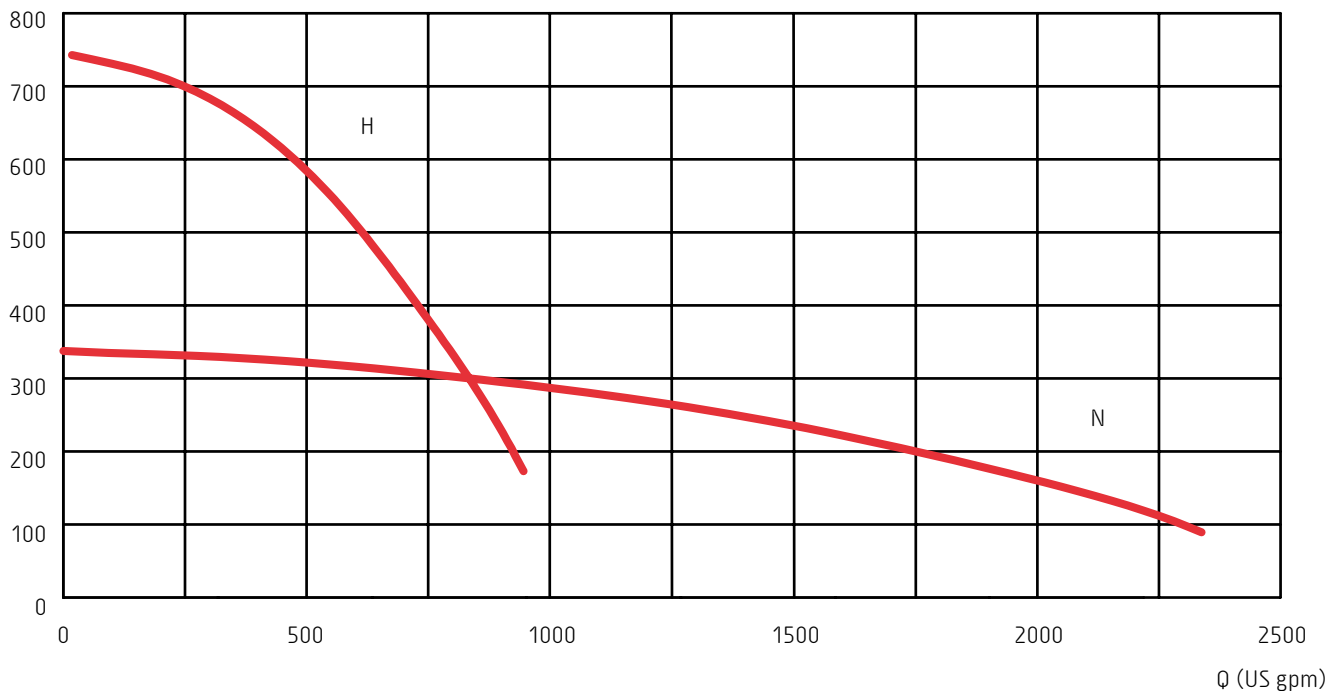
pH of the liquid: 6-13

Technical data	N	H
Discharge connection	6"	4"
Rated output	140 HP	140 HP
Max power consumption	110 kW	110 kW
Shaft speed	3560 RPM	3560 RPM
Rated current at 460 V	148 A	148 A

Other voltages on request

H (ft)

ISO 9906/A





## The Grindex team.

For some 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 are running a Grindex pump, you can rest assured that a dedicated team is watching your back. Our experts are always there to see to your every 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.grindex.com/us](http://www.grindex.com/us)