



TUBO - Tailor made for slim needs

**motralec**

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www.motralec.com**GRINDEX****TUBO**

Professional pumps for use in confined spaces.

These pumps are designed for dewatering in filter tubes and other narrow spaces, down to 8" or 12".

50 Hz



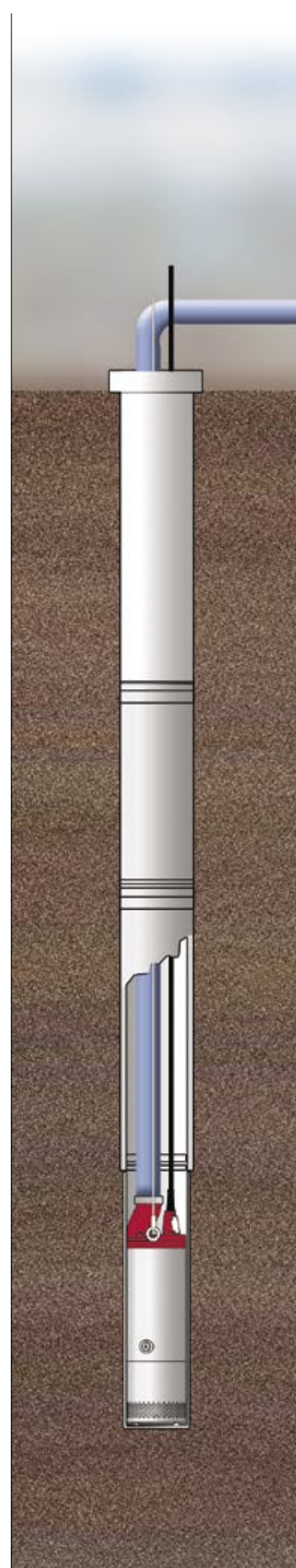
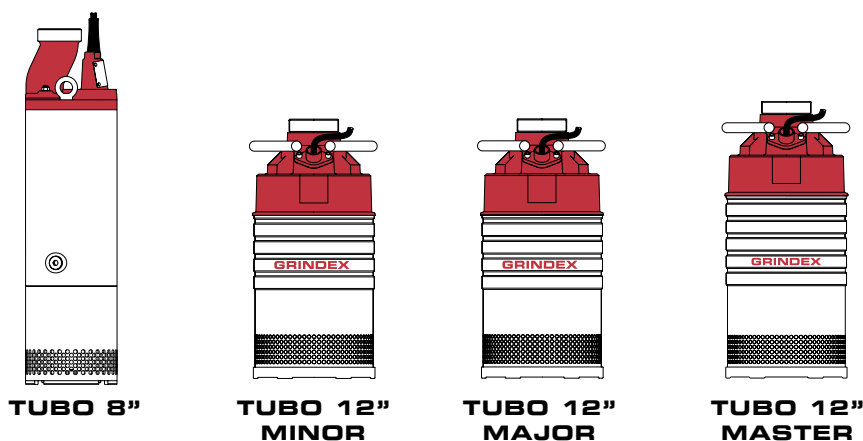
Tailor made for slim needs

Grindex Tubo pumps have been developed for the applications demanding a highly efficient pump, which can be used continuously in narrow spaces. Tubo is also useful for dewatering in confined spaces and tubular systems, as well as in pile driving work areas.

The Tubo pumps are equipped with a top discharge connection. They are balanced to be lowered and raised in shafts with a diameter of 8" (200 mm) or 12" (300 mm). These are the normal filter tube dimensions for drainage in sandy soil after a bore hole has been drilled. Tubo is the perfect solution for dewatering during the construction work on this type of soil. A number of holes with a Tubo pump inside, surrounding the construction site, keep the subsoil water at desired level.

Grindex Tubo pumps are built on the well proven Proline pumps. The 12" pumps are equipped with air-valves, allowing the pumps to run dry for extended periods without damage. The reliability of the pumps makes Tubo the perfect choice in irrigation and dewatering sites that operate for longer periods without supervision. Naturally, Tubo is developed to handle water mixed with abrasive sand and soil. The impellers are made of chrome alloyed white cast iron and the diffusers are lined with durable nitrile rubber.

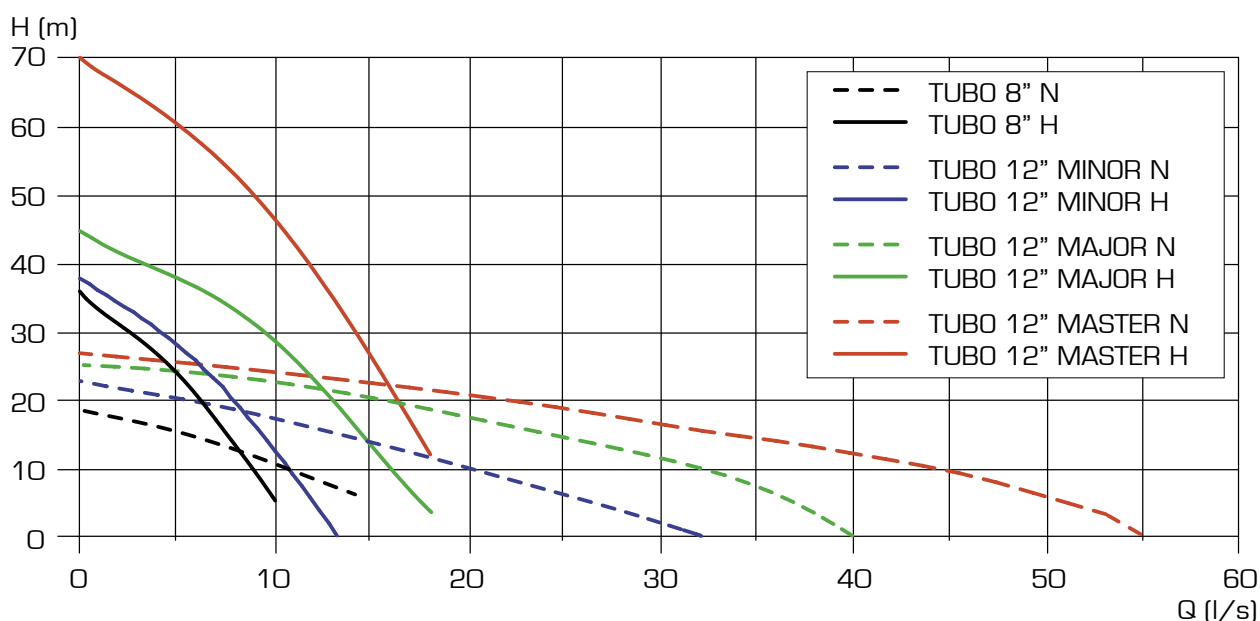
The reliability of Grindex pumps has been proven over and over again in extreme conditions all over the world. Since the Tubo pumps are made from the same foundation as the Proline pumps, spares and service are guaranteed through Grindex worldwide service network.



Facts about Grindex Turbo pumps

	Max Head	Max Flow	Discharge connection	Height	Width	Weight	Rated current at 400 V	Rated output	Max. power consumption
TUBO 8" N	18 m	14 l/s	3"	715 mm	185 mm (7.3")	28 kg	6.3 A	2.9 kW	3.5 kW
TUBO 8" H	36 m	10 l/s	2"	660 mm	185 mm (7.3")	31 kg	6.3 A	2.9 kW	3.3 kW
TUBO 12" MINOR N	23 m	32 l/s	4"	587 mm	280 mm (11")	39 kg	7 A	3.2 kW	4.4 kW
TUBO 12" MINOR H	38 m	13 l/s	4"	587 mm	280 mm (11")	39 kg	7 A	3.2 kW	4.4 kW
TUBO 12" MAJOR N	25 m	40 l/s	4"	587 mm	280 mm (11")	45 kg	12 A	6.1 kW	7.6 kW
TUBO 12" MAJOR H	44 m	18 l/s	4"	587 mm	280 mm (11")	45 kg	11 A	5.6 kW	6.9 kW
TUBO 12" MASTER N	27 m	55 l/s	4"	642 mm	280 mm (11")	56 kg	16 A	8 kW	10 kW
TUBO 12" MASTER H	70 m	18 l/s	4"	642 mm	280 mm (11")	60 kg	16 A	8 kW	10 kW

Other voltages on request



Pump type

N: Normal pressure
H: High pressure

Classification

Electrical submersible pump
Protection class: IP68
Max. submersion depth: 20 m

Power cable

H07RN-F, length 20 m
4x2.5 mm² + 2x1.5 mm²
TUBO 12 Master Y/D start on request

Electrical motor

Squirrel cage induction motor
Insulation class: F (IEC 85)

These pumps must be used with external motor protection in accordance with technical data

Discharge connections

BSP or NPT threaded

Materials

Casted parts Aluminium
Outer casing Aluminium (8")
Stainless steel (12")
Motor shaft Stainless steel
Impeller Cr-alloyed white Cast iron
Screws and nuts Stainless steel
Diffusers Nitrile rubber

Shaft seals

Double mechanical shaft seals with an oil compartment between the seals
Material lower seal: Silicon carbide - silicon carbide
Material upper seal: Carbon - silicon carbide

Bearings

Double shielded ball bearings.
Lower: Double angular contact ball bearing with C3 clearance
Upper: Ball bearing with C3 clearance

Limitations

Max. submersion depth: 20 m
Max. liquid temperature: 40°C
Max. liquid density: 1100 kg/m³
pH of the liquid: 5-8

Specifications can be changed without notice.

Grindex is certified according to
SS-EN ISO 9001
SS-EN ISO 14001



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