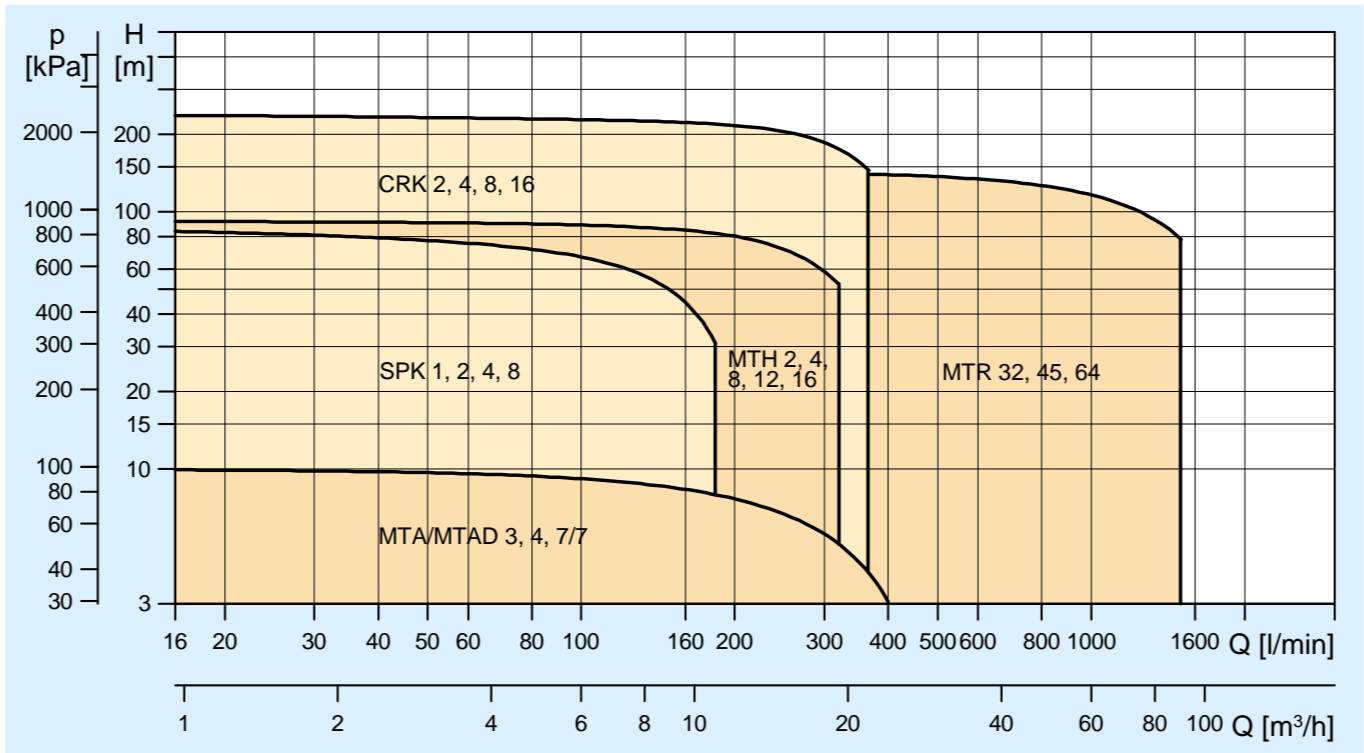


Grundfos Immersible Pumps – a complete and versatile programme

- Variants available**
- Bearings**
 - Bronze
 - Ceramic
 - Composite (Graflon)
 - Extensions**
 - Various installations depths
 - Shaft seals**
 - Tungsten carbide/tungsten carbide
 - Carbon/Tungsten carbide
 - SiC/SiC
 - Sealless (floating gap seal)
 - EPDM, FKM (Viton), Kalrez
 - Universal flange connctions**
 - DIN
 - JEM
 - Plug connector (Harting)**
 - Motor**
 - Explosion proof
 - Different voltages
 - 50Hz or 60Hz
 - MGE motor



State-of-the-art hydraulics with efficiency up to 80 %



The Grundfos pumps offer state-of-the-art hydraulics. Capacities range from 0.5 m³/h to 90 m³/h with maximum pressures of up to 25 bar. The efficiency of some of the models exceeds 80% – a figure unmatched by any other pump manufacturer.

The figure shows the performance range of the Grundfos Immersible Pumps Series MTA/MTAD, MTH/MTH Sealless, CRK/MTR and SPK.

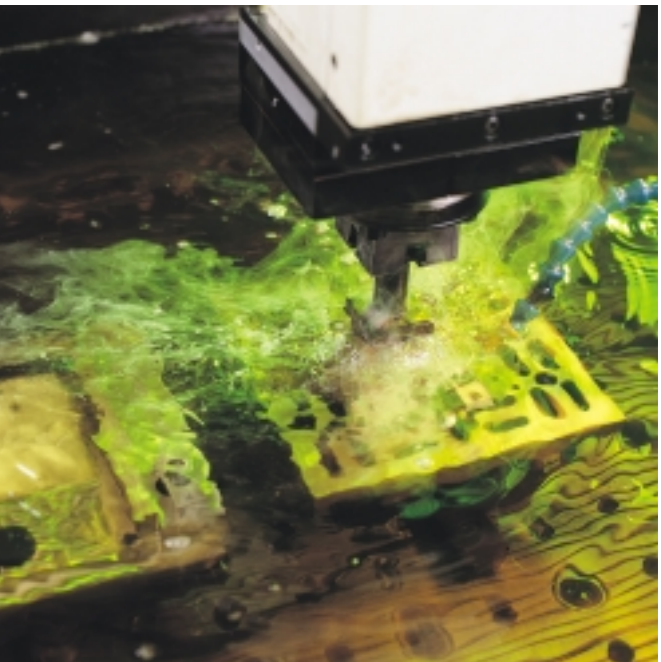
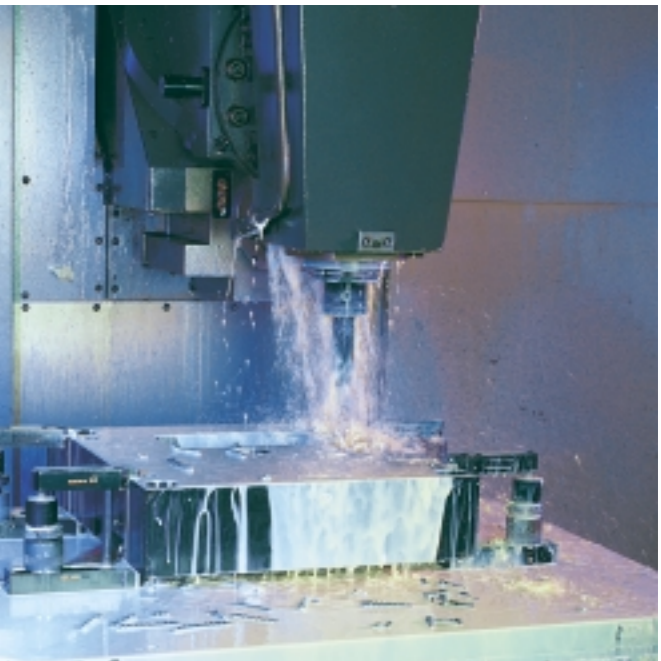
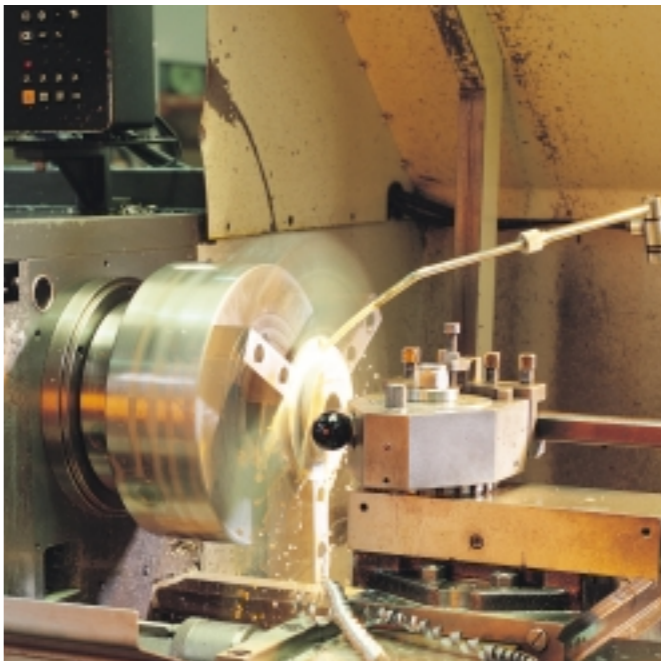
Pump Type	Boring	Sawing	Milling	Grinding	Spark erosion	Circulation	Turning	Cooling	Washing
MTA	•	•	•	•				(•)	
MTH & CHK	(•)		•	•	•	•	•	•	(•)
CRK & MTR	(•)		•	•	(•)	•	•	•	•
SPK	(•)		•	•	(•)	(•)	•	•	•

Suitable for a variety of industrial applications

The Grundfos programme of immersible pumps are suitable for a variety of industrial applications as indicated in the table.

As standard the pumps are built for specific installation depths, however, by adding empty chambers most of the models can be tailored to suit practically any depth required.

Grundfos Immersible Pumps

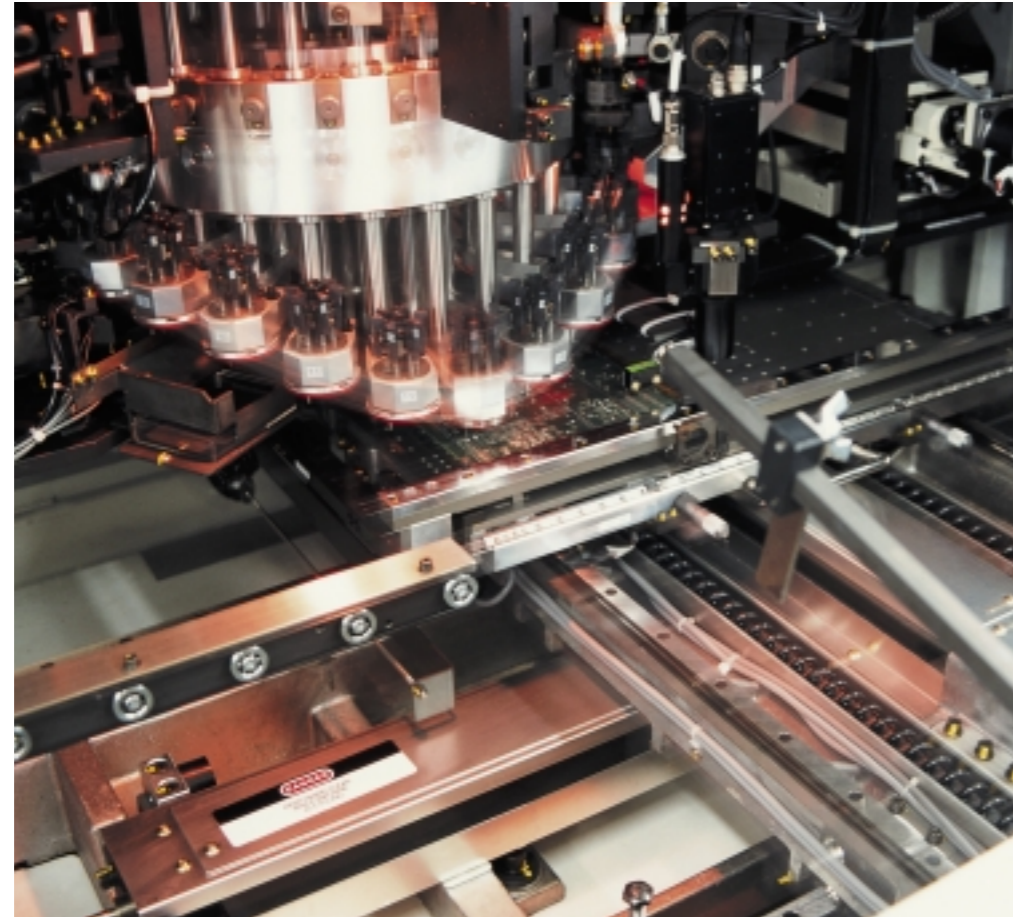


Purpose designed for machine tool coolants and condensate transfer

The Grundfos programme of immersible pumps comprising the MTA/MTAD, MTH/MTH Sealless, CRK/MTR and SPK series is specially designed for circulation of coolants and lubricants for machine tools, transfer of condensate, and other specific purposes where an immersible pump is advantageous – such as washing systems and component cleaning equipment.

Each pump model has its own unique characteristics, however, for special requirements customised pumps can be provided. Customisation includes such features as MGE motors and special voltages, shaft seals, flanges and pump lengths.

The Grundfos immersible pumps are easy to install and service, and no special tools are required. The standard range comprises four series of models of high-performance centrifugal pumps, capable of delivering from 0.5 to 90 m³/h at a pressure of up to 25 bar.



Grundfos pumps offer unique features

- State-of-the-art hydraulics with efficiency of up to 80% in some models.
- High efficiency provides considerable savings on energy consumption and, thus, on the long term running costs of the pumps.
- Additional energy savings and improved operation characteristics can be obtained by the use of MGE motors for automatic pressure control.
- Designed for reliable, trouble-free operation under the most demanding circumstances that industrial applications entail.
- Plug connector (Harting) for easy and quick installation.
- All models are available for 50Hz as well as 60Hz.

Worldwide Service

Grundfos offers an efficient worldwide service network through subsidiaries and agents in more than 50 countries on five continents. Experienced service technicians and all necessary spare parts can be made available at short notice practically anywhere, regardless of where a pump may finally be employed.

MTA series – a whole new concept

The Grundfos MTA series represents a whole new concept in low pressure immersible pumps. The MTA pumps have an “open” stainless steel impeller, which allows for pumping of moderate amounts of solids and fibres as well as high-viscosity liquids. The use of stainless steel makes the pumps very corrosion-resistant.

The bearing system in the MTA models is a graphite/composite combination, which allows for dry running. The system also serves to balance the shaft. The tank flange on the MTA pumps fits both DIN and JEM standards. The pumps are fitted with a diverting disc, which effectively prevents the pumped liquid from entering the motor.

MTH Sealless – more up-time and reduced service costs

The new MTH Sealless models are an extension to the existing, very reliable Grundfos MTH series with mechanical shaft seals.

The MTH Sealless models are constructed without a “normal” shaft seal. Instead these pumps feature a new concept: a floating gap seal that allows for a small amount of pumped liquid to return to the tank. The result is reduced service costs and less downtime.

The MTH Sealless models handle both water and water-soluble coolants and cutting lubricants with a small content of grinding particles. In addition, these models are designed to withstand shorter periods of dry running.

MTAD – two pumps in one

The Grundfos MTAD pump is a two-chamber version of an MTA pump – in reality two pumps in one.

The two-chamber principle provides unique possibilities for hydraulic combinations and flexibility, and it makes the MTAD a space saving and highly price competitive alternative to a two-pump solution.

Grundfos Immersible Pumps
MTA 3 & 4 and MTAD
Capacity: from 0.5 to 7.2 m³/h (MTA)
and 3 to 12/24 m³/h (MTAD)
Max. pressure: 1 bar.

MTH series – compact and space saving

The Grundfos MTH immersible pump series is the correct choice when emphasis is on compactness and high performance. Motor and pump form an integral, compact unit consisting of only a few components.

The standard models can be customised to suit individual requirements according to specifications.

Grundfos Immersible Pumps
MTH 2 & 4 Sealless – MTH 2, 4, 8, 12, 16
Capacity: from 1 to 22 m³/h (MTH)
and 1 to 8.5 m³/h (MTH Sealless)
Max. pressure: 9 bar



CRK series – state-of-the-art hydraulics

Grundfos CRK models are suitable for applications in the medium flow range, and the pumps are designed for long periods of trouble-free operation. The CRK 2 and 4 models can be supplied with additional empty chambers making installation depths of up to 1005 mm possible.

A special priming screw protects against dry running. However, the CRK pumps can withstand shorter periods of dry running.

As standard the CRK pumps are available in a stainless steel version with pump parts made of high-grade stainless steel. These models are designated CRKI.

SPK series – flexible solution for medium flow rates

The Grundfos SPK series of immersible pumps is designed for the low to medium flow range. The steep performance curve offered by the SPK models makes these pumps particularly suitable for applications requiring a uniform flow at varying pressures.

The SPK pumps are very flexible with regard to installation depth as empty chambers can be fitted. In addition, the pumps can be fitted with an extension pipe providing installation depths of up to 1005 mm.

MTR series – innovative pump technology

The MTR series completes the Grundfos immersible pump programme in the high flow range.

The MTR models are “heavy-duty” pumps that offer a unique hydraulic design and a performance range unequalled by any other pump manufacturer in this field. Cartridge shaft seal and a universal flange system are other special features offered by the MTR pump. Thus, the MTR pumps not only perform better, they save on energy consumption and cut the long-term operating costs.

Grundfos Immersible Pumps
CRK 2, 4, 8, & 16 – MTR 32, 45 & 64
Capacity: from 1 to 22 m³/h (CRK)
and 20 to 90 m³/h (MTR)
Max. pressure: 25 bar (CRK) and 15 bar (MTR).

A special priming screw protects against dry running. However, SPK pumps are capable of withstanding shorter periods of dry running.

The SPK pumps are available in a stainless steel version, designated SPKI. All pump parts are made of high-grade stainless steel.

Grundfos Immersible Pumps
SPK 1, 2, 4, & 8
Capacity: from 0.5 to 12 m³/h
Max. pressure: 9 bar

