WHEN
CUSTOMISATION,
MODULARITY,
AND RELIABILITY
ARE KEY
A SMALL PUMP
WITH GIGANTIC POTENTIAL

It was once said that great things come in small packages. When you meet the Grundfos CM/CME pump for the first time, you’ll certainly agree. This horizontal multistage pump has been created with compactness and modularity as two of its central features. Add reliability and quiet operation to the mix, and another innovative pump solution from Grundfos is born.

The Grundfos CM/CME is designed to be used in a variety of applications. These include:
- Washing and cleaning
- Temperature control
- Water treatment
- Chemical and pharmaceutical industries
- And more...

Three main models are offered with a number of variants available thanks to a series of optional components. These main models are constructed in:
- Cast iron (Type A)
- AISI 304/DIN 1.4301 (Type I)
- AISI 316/DIN 1.4401 (Type G)

THE CM/CME ABBREVIATION DERIVES FROM THE MOST BASIC DESCRIPTION OF THE PUMP:

Centrifugal Modular. The pump is basically composed of a series of interchangeable modules, all of which have been designed to work together seamlessly, whatever the application.

The CM/CME pump is primarily used as a built-in pump in OEM solutions. Its compactness and flexibility make it an optimal solution for installation and interaction with other components in a larger product. It can also be used as a system pump, connected in complete system solutions or even as a stand-alone pump.

Wide temperature range
Thanks to the numerous configuration possibilities and range of materials, the Grundfos CM/CME pump can operate over a wide range of temperatures: from -30°C to 120°C. If you require different pumps for different applications, this flexibility and streamlining helps keep maintenance and spare parts costs to a minimum.

Water treatment
Pressure boosting
Temperature control
Washing and cleaning

Washing and cleaning
Chemical and Pharmaceutical industries

CM 3-8-A
CM 5-4-I
CM 5-8-A
CM 3-2-A
CM 3-3-I
CM 5-2-I
CM 5-8-G
CM 3-8-G
CM 10-8-G

CM 1-3-G
CM 5-2-I
CM 3-8-A
ALL YOU’VE EVER WANTED, IN A SIZE YOU APPRECIATE

Innovation is at the heart of all Grundfos product solutions. And the Grundfos CM/CME pump is no exception. But innovation sometimes requires more than marching to the beat of your own drum. We have listened to customer feedback and have incorporated this into the product.

Compactness
Certain dimensions have been reduced by more than 30% compared to corresponding pumps without compromising the overall pump performance.

The Grundfos CMS-4 features for example dimensions that take up less physical space:
- Width: reduced by over 30%
- Height: reduced by almost 25%
- Length: reduced by almost 10%

Reducing the pump dimensions was only possible due to the use of advanced processes and technologies.

Reliability
The Grundfos CM/CME has high reliability built in. A well-defined and rock-solid clamping of the pump impellers combined with a NORD-LOCK washer at the other end of the pump stack creates a robust and reliable design.

And what is more, industry-wide problems with shaft seals sticking where SiC-SiC seal faces are used have been eliminated. The new CM/CME solution builds on both the implementation of a rotation stop on the stationary ring and the presence of different surfaced finishings on the stationary and the rotating ring.

Flexibility
The Grundfos CM/CME pumps are designed for use in a variety of applications, including:
- Washing and cleaning
  Degreasing and washing of production equipment
  Washing machines
  Mobile washing units
  Units for CIP (Cleaning In Place)
- Temperature control
  Electronic data processing
  Laser equipment
  Industrial refrigeration
  Heating and cooling in industrial processes
- Water treatment
  Reverse osmosis
  Ultra-filtration systems
  Softening, ionising, demineralising systems
  Dead-end filtration
- Chemical and Pharmaceutical industries
  Distilling systems
  Dosing/Mixing
  Evaporation
  Liquid boosting and transfer

Flexible range of connections
A flexible range of connections ensures that the customer can utilise the connection systems in his or the end-user’s solution. This provides an excellent flexibility and simplicity, creating a customised solution without the normal waiting time.

Connections include:
- Standard thread NPT or Rp
- A combination flange with your choice of flange in DIN, JIS and ANSI standards
- A PJE connection, particularly well-suited for high-pressure applications
- A Tri-clamp solution

New E-motors
CME now with the state-of-the-art E-drive, featuring IE4 efficiency incl. VFD

The compact CME design is now available with up to 2.2 kW with many new features which enable tailor-made operation and customer benefits. The new design is more reliable, offering IP68, if needed.

Materials
Different materials suit different applications. The modular concept of the Grundfos CM/CME pump allows you to select the material that best suits your needs.

- Cast iron
  Solid and reliable, it is perfect for washing and cleaning, pressure boosting and chillers.
- AISI 304/DIN 1.4301 stainless steel
  AISI304 stainless steel is the perfect choice for water and non-corrosive liquids used in water treatment, temperature control, pressure boosting, and washing and cleaning.
- AISI 316/DIN 1.4401 stainless steel
  AISI 316 stainless steel offers high corrosion protection against aggressive liquids used in chemical, pharmaceutical, food & beverage and water treatment applications.

Quiet operation
CM/CME pumps are often used in small spaces where loud operation is undesirable. Aside from sounding better, quiet operation eliminates the need for extra insulation around the product.
From end to end, Grundfos’ proven quality and attention to detail is the difference between Grundfos CM/CME and competing pump solutions.

**Flow**

- 50Hz: 1m³/h - 25m³/h
- 60Hz: 1m³/h - 30m³/h

**Power**

- 0.25 - 7.5 kW
- 0.3 Hp - 10 Hp

**Temp**

- -30°C - +120°C
- -22°F - +248°F

**Pressure**

- Head: 12 bar/174 PSI
- System pressure: 16 bar/232 PSI

**Stainless steel hydraulics**

- Across the entire range provide the highest performance in the long term. Pump variants are available in AISI 304/ DIN 1.4301 and AISI 316/DIN 1.4401 stainless steel.

**Installation indicator**

- A standard feature on all three-phase CM/CME pumps. It shows whether the motor has been connected properly.
- Remember: Your installation runs better when the pump rotates in the right direction.

**A double protection device**

- For our motor bearings is in place to minimise maintenance.
- Remember: You can rely on Grundfos for top performance, even in harsh environments.

**Our goal of compact and easy handling**

- Is realised with the new CM/CME pump design.
- Remember: Compactness allows the CM/CME pump to fit in everywhere.

**The broad motor programme**

- Is available for global usage. It contains both single- and three-phase motors, including E-versions and a wall-mounted VFD solution. Grundfos motors are or can be directly protected by E Coll, PTC and PT100 or by the frequency drive itself. The motor is IP55 as standard, and for condensing environments we supply you with a tropicalised variant. Remember: We can meet all your motor needs!

**Our sleeve O-ring assembly device**

- Features a safe and simple design for temperatures from –30°C to +120°C. Remember: Under tough conditions, Grundfos CM/CME provides extra high reliability.

**The suction and discharge ports**

- Are designed to withstand corrosive liquids. NPT and RP threading are standard, facilitating the use of a wide range of threaded flanges and clamp adapters. Remember: Prepared for O-ring. However, prejudices to put things together, Grundfos makes it easy.

**A unique O-ring shaft seal**

- Is designed to provide excellent dry running, non-sticking capabilities. Remember: Under tough conditions, Grundfos CM/CME provides extra high reliability.

**A highly reliable combination of joint elements**

- Keeps the pump in shape and enables assembly and disassembly from the pump side only. And scheduled service is easy and fast.

**The Grundfos filling and draining plug**

- Is sealed by an O-ring which eliminates leakage.

**The details make the difference**
**ACCESSORIES**

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Adapter for JIS</strong></td>
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<tr>
<td>Flexible adapter according to all three standards (DIN, JIS, ANSI).</td>
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<tr>
<td><strong>Adapter for Tri-clamp</strong></td>
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<tr>
<td>Hygienic Tri-clamp connection design with a sanitary coupling for use in the pharmaceutical and food and beverage industry. The connection is in accordance with EN/DIN 32676.</td>
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<tr>
<td><strong>Adapter for VICTAULIC</strong></td>
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<tr>
<td>Pipe-to-socket coupling, for use in a wide range of industrial applications.</td>
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<tr>
<td><strong>Remote control, R100</strong></td>
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<tr>
<td>(product number: 625333)</td>
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<tr>
<td>Used for wireless communication with the CME pump.</td>
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<tr>
<td>IR communication.</td>
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<tr>
<td><strong>New Grundfos GO remote control for E-pumps</strong></td>
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<tr>
<td>Used for wireless communication with the pumps.</td>
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<tr>
<td>Grundfos GO is available in various variants.</td>
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<td>For more information please contact Grundfos.</td>
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<tr>
<td><strong>Potentiometer for CME</strong></td>
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<tr>
<td>(product number: 625468)</td>
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<tr>
<td>Used for setpoint setting and start/stop of the CME pump.</td>
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<tr>
<td><strong>CIU communication interface unit for CME</strong></td>
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<tr>
<td>The CIU units enable communication of operating data, such as measured values and setpoints, between CME pumps and a building management system. The CIU unit incorporates a 24-240 VAC/VDC power supply module and a CIM module. It can either be mounted on a DIN rail or on a wall.</td>
</tr>
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</table>

**CM pumps are always part of a bigger picture. Grundfos offers a full range of accessories to support the CM range. Here are a few selected examples – the complete range can be found on WebCAPS.**

**Grundfos WebCAPS is an online product selection tool, but it offers much more than that. The site compiles all the product-related information you could ever need.**

**What you can find in WebCAPS**

- **Catalogue** — includes all products available in your region, complete with technical information, drawings, descriptions, performance curves, etc.
- **Literature** — find everything from data booklets through installation & operating instructions to product brochures.
- **Service** — the place to find service instructions (including video tutorials), service parts lists, assembly drawings, etc.
- **Sizing** — enter your system requirements for instant recommendations. Includes Life Cycle Cost calculations.
- **Replacement** — enter the make and model of your old pump for an instant replacement recommendation.
- **CAD drawings** — download DXF and DWG files as required.

For offline use, WinCAPS is a CD-ROM version of WebCAPS. Contact Grundfos to order.
THE GRUNDFOS CM/CME PUMP

When customisation, modularity, and reliability are key, turn to the new Grundfos CM/CME pump. This horizontal multistage pump is a compact, modular, reliable and quiet pump solution from Grundfos.

The Grundfos CM/CME is designed to be used in a variety of applications including:
- Washing and cleaning
- Temperature control
- Water treatment
- Chemical and pharmaceutical industries
- And more...

Three main models are offered with a number of variants available through optional components. These main models are constructed in:
- Cast iron ASTM A48: Class 30B/EN-JL 1030
- AISI304/DIN 1.4301 Stainless Steel
- AISI316/DIN 1.4401 Stainless Steel.