



PCM ECOMOINEAU™ MX



the first progressive cavity pump equipped with a maintenance in place system as standard.

The PCM EcoMoineau™ MX pump is specially designed to offer easy and fast maintenance with its integrated **in-place maintenance system as standard**. Maintenance operations can be carried out on-site without removing the pump from its installation, **reducing downtime and optimizing industrial productivity**.

Its clever modular design provides easy access to internal components, **reducing maintenance costs while ensuring long-term optimal performance**. The PCM EcoMoineau™ MX pump is more compact than similar progressive cavity pumps, requiring less space for maintenance (just 7 cm is sufficient for larger models).

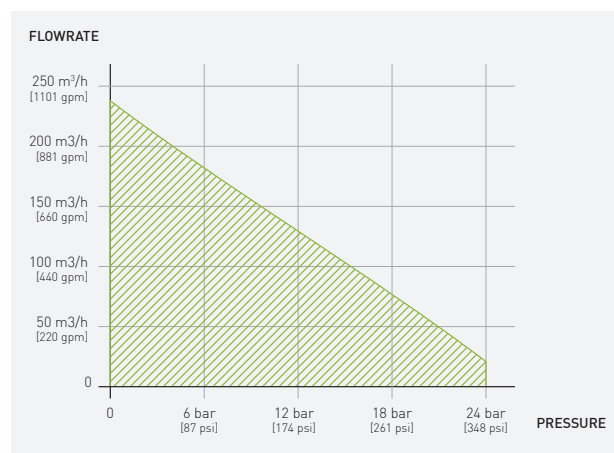
In addition to its in-place maintenance system, **this pump stands out with unmatched performance**. It combines the advantages of eccentric screw pump technology with the characteristics of progressive cavity pumps, providing optimal efficiency and proven reliability in various industrial applications.

In summary, the PCM EcoMoineau™ MX pump is the ideal choice for industries seeking a high-performance, **robust, and user-friendly pumping solution**. With its standard-equipped in-place maintenance system, **it enables productivity optimization**.

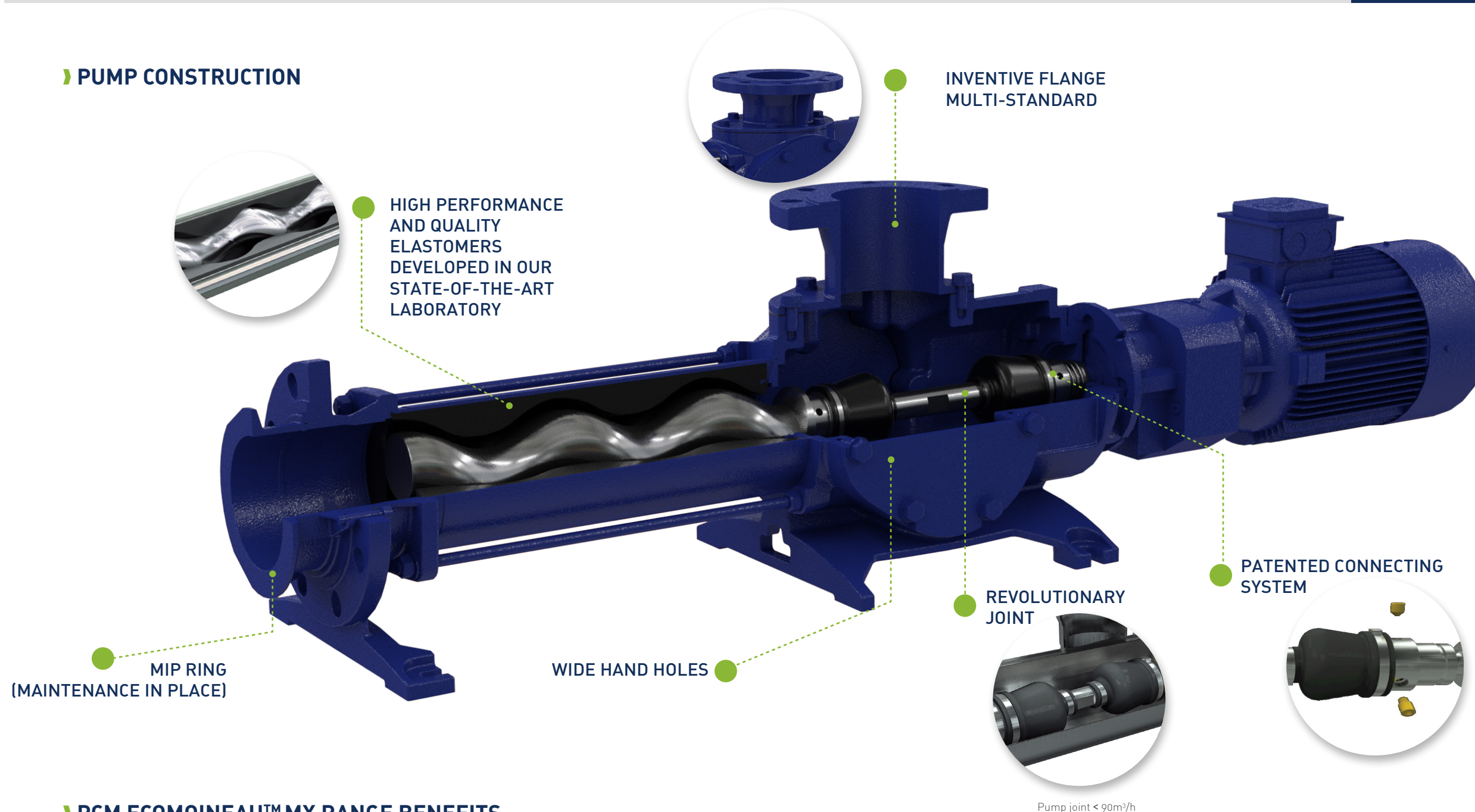
EXAMPLES OF APPLICATIONS

- Sludge drainage (environment)
- Filter-press feeding (mines and quarries)
- Starch transfer (paper)
- Biomass circulation (new energies)
- Polymer production (chemistry)
- Used oil treatment (mechanics)

TECHNICAL PERFORMANCES



PUMP CONSTRUCTION



JOINT ASSEMBLY BENEFITS

- **Cost and stock savings:** same joint assembly for all models from the same module
- **Maintenance time saving:** 3 screws only to dismantle the joint. No sheath dismantling nor usage of grease or oil.
- **Patented connecting system**
- **Durable and robust design:** lifespan increase for non corrosive and non abrasive applications



PCM ECOMOINEAU™ MX RANGE BENEFITS

SPACE SAVING

- Revolutionary joint 80 % shorter than other PCPc on the market
- Revolutionary joint coupling rod length reduced and hardened for long life operation
- Patented connecting system: only 7 cm of clearance required to dismantle the stator of the biggest models
- Replaceable in place of the PCM EcoMoineau™ M (see next page): The floor mounting system and the center distance between the two flanges are the same which allows easy replacement

EASY AND QUICK MAINTENANCE

- Patented connecting system with 3 screws only
- Wide hand holes to ease pump body access, declogging, cleaning and pump operation observing
- It is possible to unscrew the rotor from the stator using a wrench thanks to the added of a flat on the head of the rotor.
- Reduced maintenance time and therefore cost savings
- Sealing maintenance by just removing the drive from the back
- Maintenance in place system in standard on all pump (see next page)

ECO-DESIGN PUMP

- Less power consumption compared to most Progressing Cavity Pumps on the market
- Less raw materials

VERSATILE CONSTRUCTION

Integrated construction

- Shortest design
- Fewer parts, no drive shaft
- Self-positioning mechanical seal
- Standard mechanical seals eliminate leaking, tightening and adjustment
- Reduced mechanical seal diameter lowers spare parts costs
- Ideal for non sticky and low abrasive fluids

Monobloc and bearing construction

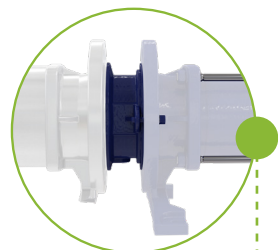
- Reduced dimensions
- Built-in drip tray
- Versatile configurations (seals and stators)
- Spacer with improved access to the sealing system
- Rubber deflector (protects the drive and bearing therefore reducing maintenance)

Hopper option

- Recovery and transfer of thickened sludges (up to 120 g/l) from dripping table

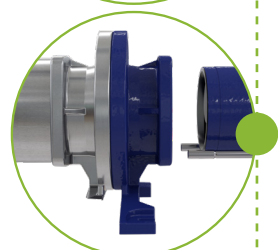
MAINTENANCE IN PLACE SYSTEM

The new maintenance system in place as standard on the entire PCM Ecomoineau™ MX range allows the stator and/or rotor to be replaced in just 5 steps and without having to remove the pump from its installation. Maintenance time is considerably reduced, which in turn reduces downtime and life-cycle costs.



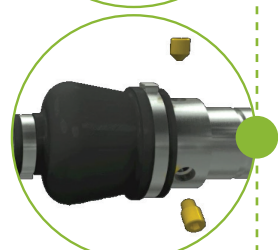
STEP 1 :

Unscrew the two screws on the MIP ring to remove it. Then unscrew the tie rods on the suction pipe and remove the top two.



STEP 2 :

Unscrew the suction flange. Shift it towards the pipe to hold and support it.



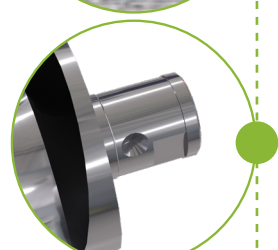
STEP 3 :

Remove the inspection hatches from the body. Then unscrew the 3 screws on the shaft line to release the rotor head.



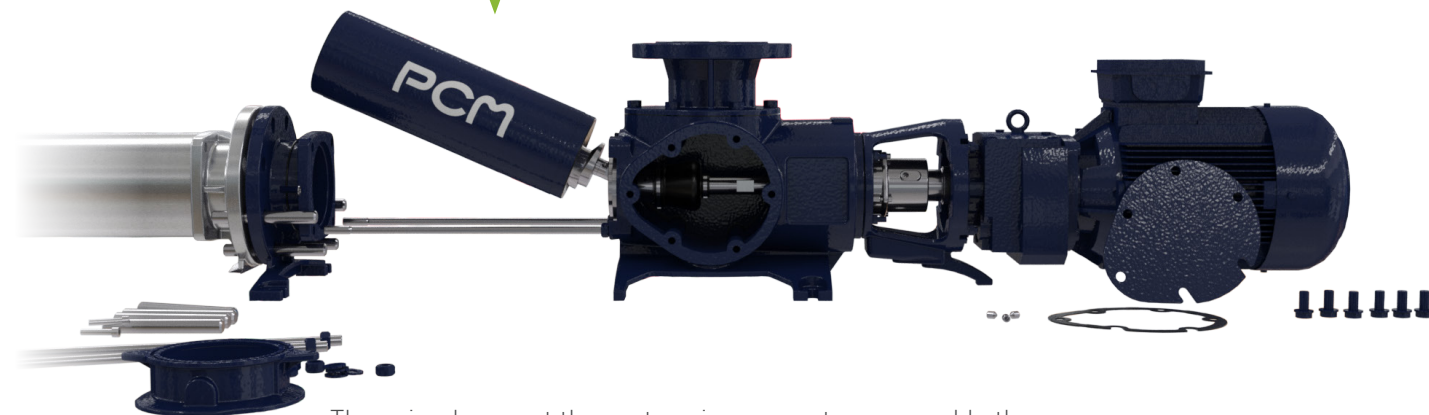
STEP 4 :

The rotor/stator assembly is now free. The space left by the MIP ring makes it easy to remove them.



STEP 5 :

The rotor head has two flats. These allow the rotor to be removed from the stator using a simple spanner.

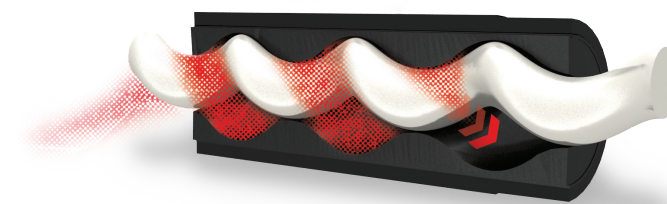


Then simply repeat these steps in reverse to reassemble the pump.

Maintenance is now completed!!!

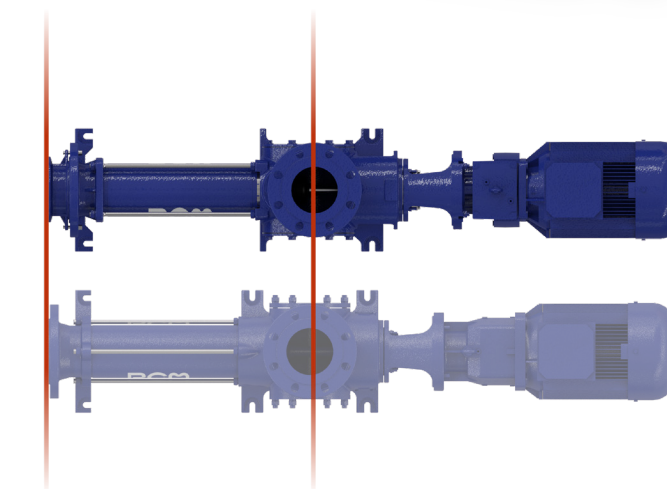
PERFORMANCE CONTROL:

The PCM hydraulics (stator with armature) are unchanged, which gives us better control of leakage rates than a solution with two half-shells or with an unglued elastomer stator. Whatever the pressure, the pump's performance is unchanged.



SIMPLIFIED INSTALLATION :

The centre-to-centre distance between the suction flange and discharge flange is the same as that of the PCM Ecomoineau™ M which allows it to be replaced in place, thus reducing installation costs in the event of a pump replacement.



ADAPTABILITY TO THE PROCESS :

Accessories can be added to the MIP ring using the stitch provided.



UPGRADE :

Your PCM Ecomoineau™ M can be upgraded to PCM Ecomoineau™ MX using an adaptation kit..

