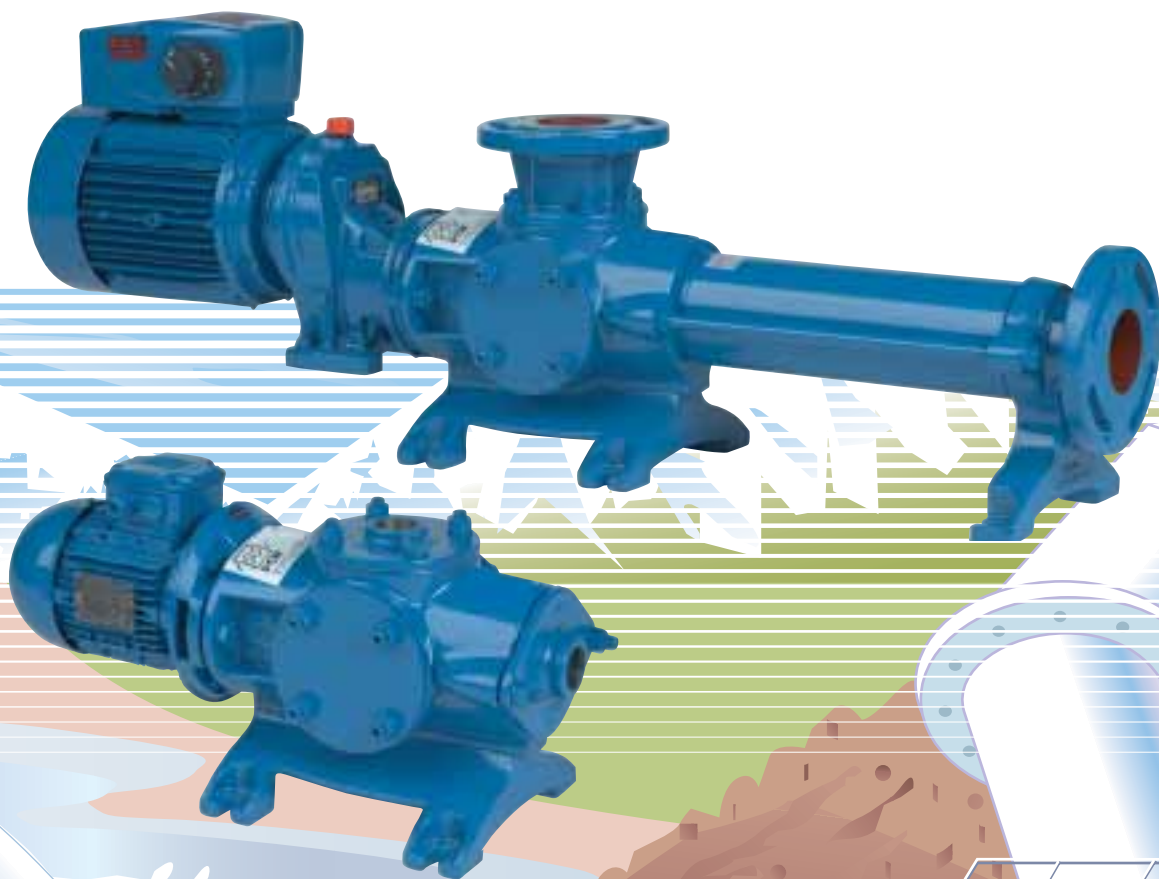


**PCM MOINEAU**

**NEW!**

# **EcoMoineau M Series**

Economical  
Ecological  
Eco-design



*improving your process*



# The EcoMoineau Range

- For liquid sludge and reagents.
- For all environmental applications.

Use of the floating stator and/or fixed stator principles leads to an optimized offering for each application.

## BENEFITS

### Of EcoMoineau range

- reduced size
- fewer parts and reduced weight
- economical and simplified maintenance

### Of Moineau technology

- respects the product
- constant, non-pulsating flow (e.g.: feed to drying units)
- easy maintenance

## PERFORMANCE

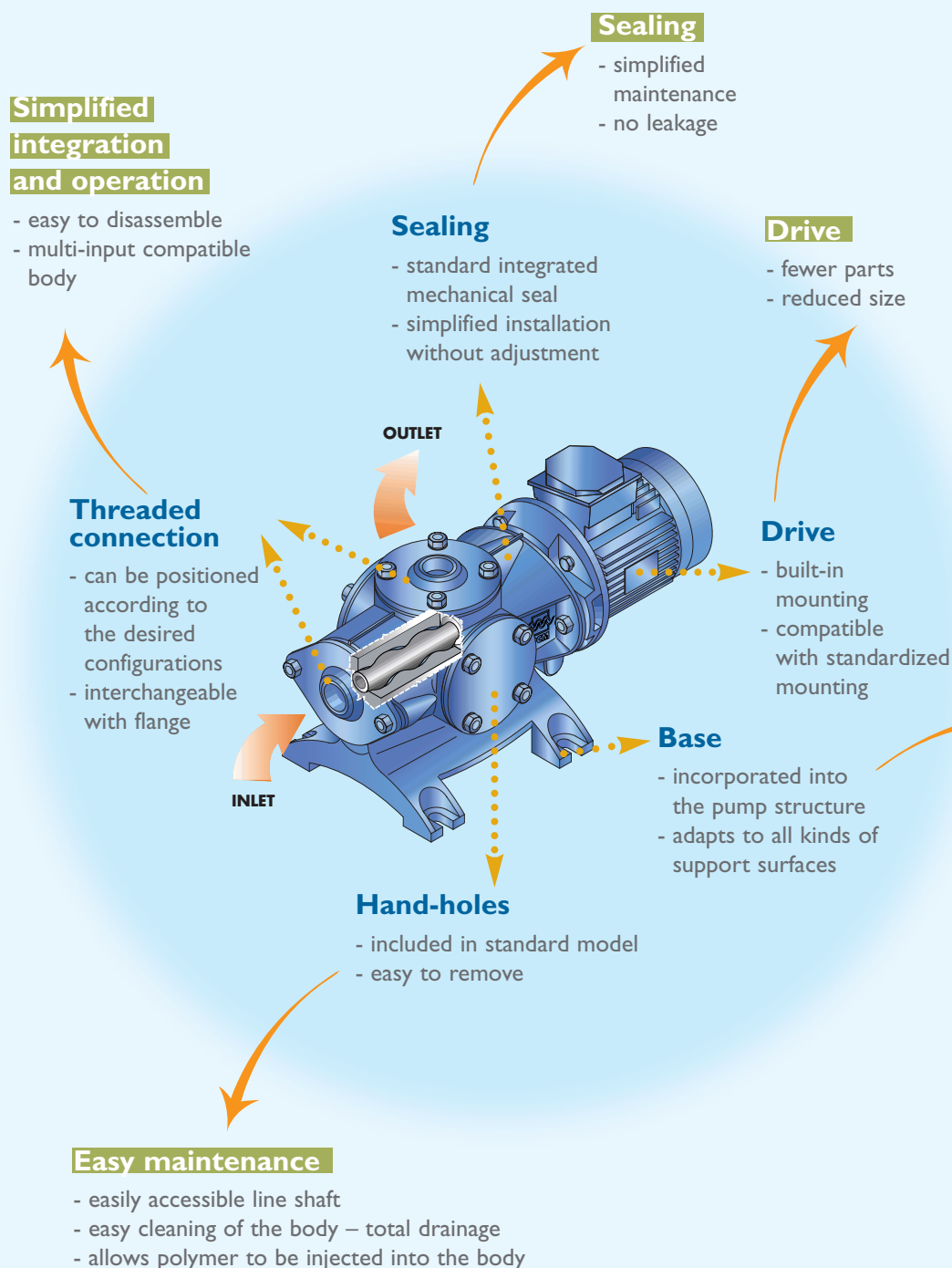
### Wastewater treatment process

	Floating Stator on M	Fixed Stator on M	Fixed Stator on I
Maximum flow rate	up to 16 m³/h	up to 30 m³/h	up to 250 m³/h
Maximum pressure	10 bar	24 bar	24 bar
Maximum temperature in continuous operation	90 °C	90 °C	90 °C

## M Series: Floating Stator

Held in place simply by the discharge flange, the stator remains free to move with the rotor.

Use of the floating stator principle with Moineau technology leads to a much shorter design for the same level of performance.



## M Series: Fixed Stator

The stator is secured in a steel frame and the line shaft absorbs the eccentric movement.

The conventional design of a fixed stator makes it possible to meet the needs of a variety of applications for large flow rates and/or high pressures.

### Simplified integration and operation

- easy to disassemble
- compatible with multi-input "PN or Class" designated flanges

### Flange connection

- can be positioned according to the desired configurations
- design compatible with multiple standards

### Sealing

- standard integrated mechanical seal
- simplified installation without adjustment

### Sealing

- simplified maintenance
- no leakage

### Drive

- fewer parts
- reduced size

### Drive

- built-in mounting
- compatible with standardized mounting

### Hand-holes

- included in standard model
- easy to remove

### Base

- incorporated into the pumps structure
- adapts to all kinds of support surfaces

### On-site installation with Civil Engineering

- made easy due to base design
- option for attachment parts

### Easy maintenance

- easily accessible drive line
- easy cleaning of the body – oval design allows drainage
- allows polymer to be injected into the body

### Drives: The M series pumps are intended for fixed or variable flow rates

Mechanical variable speed drive for manual variation: MV



Gear motor for fixed flow rate or external speed control: MR



Gear motor with built-in speed control: VMA



Compatible installation for standard/IEC and NEMA compatible drives

# EcoMoineau range applied to your needs for

The EcoMoineau is ideally suited for the Water Treatment and Environment markets. It offers an optimized solution for the most diverse applications thanks to simple functions built into the design of the pump.

## 1 PRIMARY PROCESSING

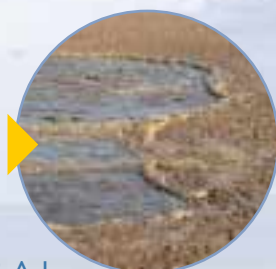
- transfer of liquid sludge
- extraction of clarifiers
- pumping of surface foam and floating matter



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## 2 BIOLOGICAL PROCESSING

- recirculation into biological treatment
- extraction of excess sludge
- pumping of surface foam and floating matter



## 3 SLUDGE DIGESTION

- feed to digesters
- recirculation and extraction of digested sludge



## SOME CUSTOMER REFERENCES

**Our customers throughout the world:** Degremont – Véolia – Stéreau – Sogéa – GTM Environnement – Andritz – Faure Equipements – United Utilities – Anglian Water – etc.

**A worldwide presence:** France – Great Britain – Germany – China – Tunisia – Spain – Portugal – Greece – Turkey – etc.

**Municipal plant references:** Les Mureaux – Vierzon – Saint Petersburg – Shanghai – Budapest – Buenos Aires – Eskisehir – Birmingham – Liverpool – Newcastle – etc.

**Industrial plant references:** L'Oréal – Danone – Yoplait – Sollac – Hoechst – Sanofi – Liebig Campbel – Rhom & Hass – Bel – etc.

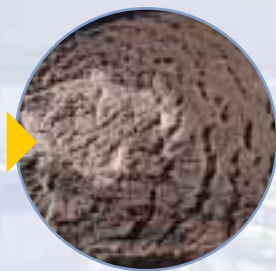


## 5 DEWATERING

- feed to dewatering machines
  - belt thickener – belt filter – centrifuge – filter press
- sludge conditioning
  - polymer and lime slurry metering



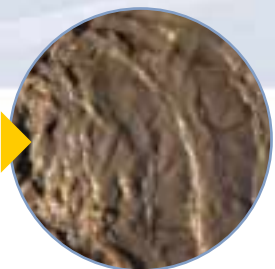
Mureaux wastewater treatment plant - Operated by Degrémont Services



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mps

## 4 THICKENING

- feed to thickening units
  - belt thickener - centrifuge - filter press - thickener
- reagent injection
  - polymer metering



Reagent pumping  
- polymer injection  
- lime milk pumping  
- transfer of activated charcoal

# EcoMoineau: A new concept

PCM has been firmly committed to an environmental approach for a number of years.

This company policy has been confirmed by the ISO 14001 certification. This approach is also reflected in the EcoMoineau range, which takes into account the demands of sustainable developments: eco-design and the overall Life Cycle Costs (LCC) are at the heart of this new range.

## ECO-DESIGN

Eco-design reduces the products impact on the environment through all stages of its life cycle, starting with the design phase.



### Raw materials

Reduced number of different parts and materials  
A compact and lighter pump

### Manufacturing

An ISO 14001 certified factory  
Chrome-free rotor  
VOC-free paint

### Logistics

A compact and lighter pump

### Use

Reduced LCC  
High energy efficiency  
Long life cycle of pumps and parts  
Reduced servicing time  
Lower production losses

### Recycling

Fewer parts  
Easy dismantling  
Recycling service provided by PCM

A new concept

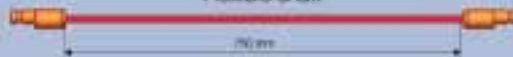
New

International  
patent

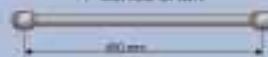
Fastening system for joints

Example for a flow rate of 25m<sup>3</sup>/h

Flexible shaft



I series shaft



M series shaft



# PCM range for wastewater treatment plants

## Reagent metering

Polymers



M Series



Lagoa Series

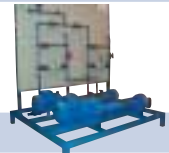
Lime milk



DL Series



M Series



LimeSkid

Other reagents



Lagoa Series



ChemSkid

## Sludge pumping

Liquid sludge



M Series



I Series

Thickened sludge



GTA Series



GCA Series

Dewatered sludge



GCA-GVA Series



GBB Series

## Accessories

Pump and equipment protection

Safer installations

Process reliability



Pressure gauge



Dry running  
protection device



Pressure switch

## Services: a relationship of trust based on expertise.

The PCM Services team is available to help you get the best performance out of your equipment:

PCM Services can provide you with research, start-up assistance or review of your installations, training, maintenance contracts, repairs and express delivery of spare parts.



*improving your process*

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