FOOD

PCM RANGE OF FOOD PUMPS AND SYSTEMS

www.pcm.eu

PCM | keep it moving

PROGRESSING CAVITY PUMPS

PCM Moineau™

PCM HYCARE™

Hygiene and food safety

Performances

- **Pressure:** 16 bars
- **Flowrate:** from 20 l/h to 50 m³/h
- **Particles size:** 32 mm
- **Range:** 22 models

Benefits

- Protection of products quality and texture
- Hygienic design including a flexible Duraflex shaftline
- Reduced maintenance

PCM IVA/LVA/GVA

Transfer of viscous products

Performances

- **Pressure:** 52 bars
- **Flowrate:** from 10 l/h to 50 m³/h
- **Hopper:** from 500 to 1500 mm

Benefits

- Versatility: pumping of high viscosity, non-homogeneous or sticky products through its feed screw

PCM ECOMOINEAU™ C WITH FIXED STATOR

Space and time saving

Performances

- **Pressure:** 16 bars
- **Flowrate:** from 3 l/h to 180 m³/h
- **Particles size:** 40 mm
- **Range:** 35 models

Benefits

- Respect of fragile and viscous products
- The shortest progressing cavity pump on the market
- Easy maintenance through its revolutionary joint and its patented connecting system

PCM ECOMOINEAU™ C WITH FLOATING STATOR

Space and time saving

Performances

- **Pressure:** 4 bars
- **Flowrate:** from 10 l/h to 6 m³/h
- **Particles size:** 6 mm
- **Range:** 7 models

Benefits

- Compact, easy integration
- Low life cycle costs
- Versatility: pumping of viscous fluids

PCM VISCOFEEDER

Transfer and dosing of very viscous products

Performances

- **Pressure:** 16 bars
- **Flowrate:** up to 24 m³/h
- **Viscosity:** 15 000 000 cPo
- Hopper cleanable in place

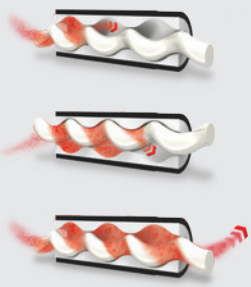
Benefits

- Transfer and dosing of hyper-viscous and/or sticky products
- Respect of products
- Continuous and accurate dosing
- High level of hygiene

MOINEAU™ TECHNOLOGY PRINCIPLE

From the name of the inventor and PCM co-founder: René Moineau

A Moineau™ pump consists of a helical rotor turning into a helical stator. When the rotor turns inside the stator, the honeycomb progresses spirally along the axis of the pump without changing either shape or volume. This action transfers the product from the pump intake to the pump discharge without degrading the product.



EHEDG certification (for European Union) and **3A standard** (for the United States) guarantee that PCM has applied the hygienic rules from the choice of materials to the design and manufacturing of equipments .

HOSE PERISTALTIC PUMPS

PCM Delasco™

PCM DL / DSC SERIES

Dosing of abrasive and corrosive fluids

Performances
- **Pressure:** 15 bars
- **Flowrate:** 65 m³/h
- **Viscosity:** 40 000 cPo

Benefits
- Self-priming
- Versatility
- Reinforced hose for high pressure
- Rollers and hose guides for a longer hose lifespan

PCM Z SERIES

Dosing of reagents

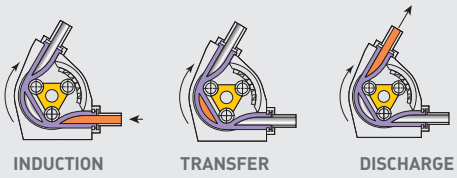
Performances
- **Pressure:** 3 bars
- **Flowrate:** 20 m³/h
- **Viscosity:** 15 000 cPo

Benefits
- Self-priming
- Versatility
- Dry running
- Easy and quick maintenance

DELASCO™ TECHNOLOGY PRINCIPLE

The ideal choice to reduce maintenance costs

The peristaltic pumping principle is based on the capacity of a soft elastomer hose to accept a deformation and subsequently recover its initial shape. Peristaltic pumps are provided with either high and low pressure hoses, covering a wide range of applications which need versatility and flexibility.



INLINE MIXERS

PCM DOSYMIX™

Dynamic mixer

Performances
- **Pressure:** 10 bars
- **Flowrate:** 6 m³/h
- **Particles size:** 25 mm
- **Range:** 5 models

Benefits
- Mixing of non-homogeneous and sensitive products without shearing
- Hygienic design
- Cleanable in place

PCM DOSTAM

Static mixer

Performances
- **Flowrate:** 0.5 to 30 m³/h
- **Range:** 5 models

Benefits
- Mixing of homogeneous fluids
- Easy to install
- Operation without energy (static without drive)

DIAPHRAGM DOSING PUMPS

PCM LAGOA™

Diaphragm dosing pump

Performances
- **Pressure:** 12 bars
- **Flowrate:** 350 l/h per pumphead
- **Speed:** 48 and 120 strokes/min
- **Accuracy:** +/- 1%

Benefits
- Simple and robust
- Reliable
- Versatile
- Reduced maintenance

LAGOA™ TECHNOLOGY PRINCIPLE

Accuracy and reliability: ingredients of a successful dosing

The Lagoa™ pump is composed of a membrane connected to a piston of which the alternating movement successively fills and empties the pumphead.

1- The backward movement of the membrane opens the bottom check valve and allows the entry of fluid, which fills the pumphead.

2- The forward movement of the membrane closes the bottom check valve, opens the top check valve and expels the dose.

The compliance with **1935-2004 standard** (for European Union) and **FDA standard** (for the United States) ensure suitability for food contact materials and equipments traceability.

DOSING, FILLING AND INJECTION SYSTEMS

PCM Dosys™

PCM DOSYFRUIT™

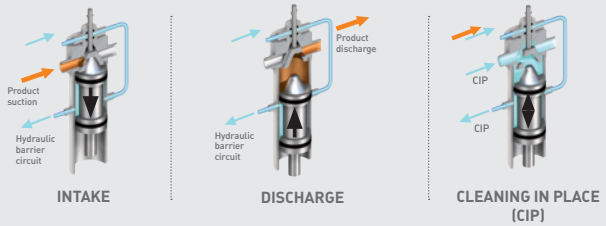
Performances
- **Pressure:** 20 bars
- **Speed:** 40 strokes/min
- **Accuracy**: +/- 0.5%
- **Particles size:** 48 mm

Benefits
- Fully automatic multi-ingredients station
- Productivity
- Accuracy and flexibility
- Cleanable in place
- 3 models: basic, premium, compact

DOSYS™ TECHNOLOGY PRINCIPLE

The keys of a perfect dosing and filling

Dosys™ pump automatically synchronizes dosing volumes with the filling station for optimal performance. It also meters the ingredients with precision, thanks to the servo-driven piston and a patented flow-control valve. Dosys™ pumps are designed to handle liquids, semi-solids and viscous products without degrading their texture.



PCM DOSYUNIT

Performances
- **Pressure:** 20 bars
- **Speed:** 40 strokes/min
- **Accuracy**: +/- 0.5%
- **Particles size:** 48 mm

Benefits
- Semi-automatic mono-ingredient station
- Productivity

PCM MULTI-INJECTION STATION

Performances
- **Pressure:** 5 bars
- **Speed:** 40 strokes/min
- **Accuracy**: +/- 0.5%
- **Particles size:** 48 mm

Benefits
- Synchronization
- Versatility

PCM POUCH FILLING STATION

Performances
- **Pressure:** 20 bars
- **Speed:** 60 strokes/min
- **Accuracy**: +/- 0.5%
- **Particles size:** 48 mm

Benefits
- Food safety
- Efficiency
- Versatility
- Autonomous

PCM FLAVOR FILLING STATION

Performances
- **Pressure:** 20 bars
- **Speed:** 60 strokes/min
- **Accuracy**: +/- 0.5%
- **Particles size:** 48 mm

Benefits
- Semi-automatic mono or multi-station for aromas and other liquid additives dosing
- Easy and operational system
- Food safety
- Productivity

PCM CHEMSKID

Additive dosing system for CIP

Performances
- **Pressure:** 12 bars
- **Flowrate:** 350 l/h per pumphead
- **Speed:** 48 and 120 strokes/min
- **Accuracy:** +/- 1%

Benefits
- Continuity of services
- Installation and operators securing
- Low life cycles costs
- Simplified maintenance

PCM HOPPER STATION

Performances
- **Pressure:** 20 bars
- **Speed:** 40 strokes/min
- **Accuracy**: +/- 0.5%
- **Particles size:** 48 mm

Benefits
- Semi-automatic mono-ingredient station
- Cleanable in place
- Productivity

ATEX certification (for the European Union) indicates that the equipment complies with explosive atmosphere.

AT YOUR SERVICE

All of our services are designed with one goal in mind: optimizing the performance of PCM pumps and systems. From preventive maintenance to spare parts management, from equipment upgrading to training, we strive to best contribute to the productivity of our customers.

In order to provide the best use of our pumps and pumping systems, we offer a wide range of pre and post sales services:

Tests
Making the right choice

Installation, Commissioning, Training
Ensuring trouble-free operation

Maintenance
Guaranteeing efficiency

Equipment upgrading
Extending lifespan

Installation audits
Delivering lowest operating costs

Spare parts
Rapid worldwide distribution

SPARE PARTS

A rapid worldwide distribution

Operating in more than 90 countries, you can obtain genuine PCM spare parts quickly. Using PCM spare parts ensures that PCM products last as long as possible, benefit from warranty protection and maintain their CE conformity.

Delivery time and responsiveness

Standard spare parts are dispatched within 24 hours.
The orders received before 4:00 pm are processed the same day. A dedicated spare part expert is at your disposal for any information or order request.

Unmatched component quality

Using genuine PCM spare parts is the smart choice. It is the only way to ensure that our products remain covered by our warranty and maintain their CE conformity until their end of life.

Expertise in elastomers

We formulate and manufacture our own elastomers. Because we know elastomers play a critical role in our products' life cycle costs, we have developed hundreds of formulas to adapt to the most difficult fluids, while other pumps manufacturers use third-party elastomers.

ABOUT PCM

Founded in 1932 by René Moineau, the inventor of the Progressing Cavity Pump, and Robert Bienaimé, from Gevelot Group, PCM is today **one of the world's leading manufacturer of positive displacement pumps and fluid-handling equipments**.

Our specialty is developing solutions for the lifting, transfer, dosing, mixing and filling of abrasive, fragile, viscous, corrosive, hot or heavy products. **Present around the world**, we provide solutions to three main sectors: **Oil & Gas, Food and Industry**.

For further information:
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