



# **MI250**

## High Displacement Motors



# MI250

## Up to 30 liter Motors

Reliability, ease of integration and performance are key selection criteria for high displacement hydraulic motors, especially for severe applications.

To meet these requirements Poclain Hydraulics launches its new hydraulic motor, the MI250, which offers all the benefits of radial piston technology, with a displacement of up to 30 liters.



### Reliability

Reliability and durability are a must for your machines. The MI250 has the benefit of more than 50 years of expertise in hydraulics, and is the result of an extensive validation process, including on field testing.

High output  
torque

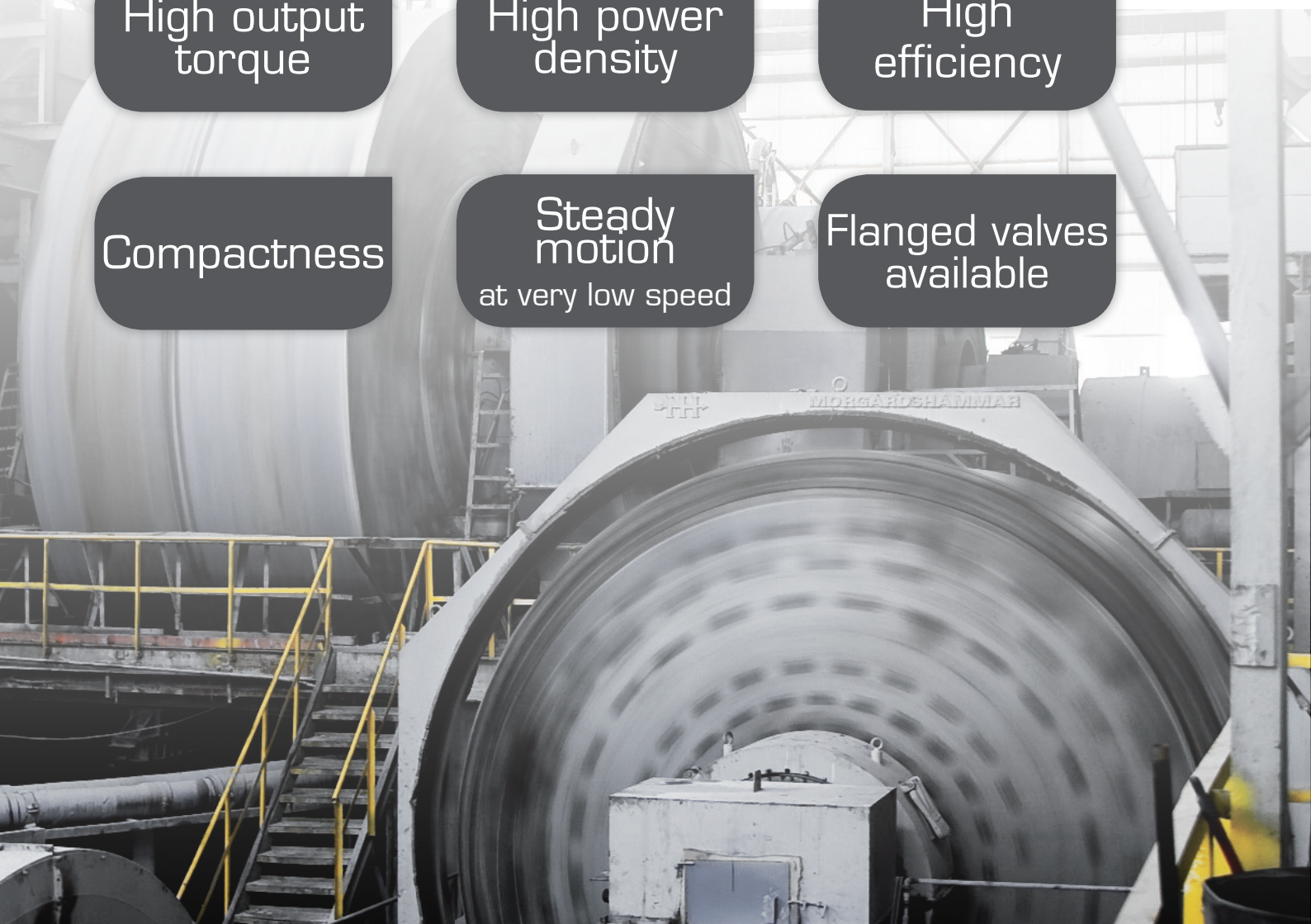
High power  
density

High  
efficiency

Compactness

Steady  
motion  
at very low speed

Flanged valves  
available

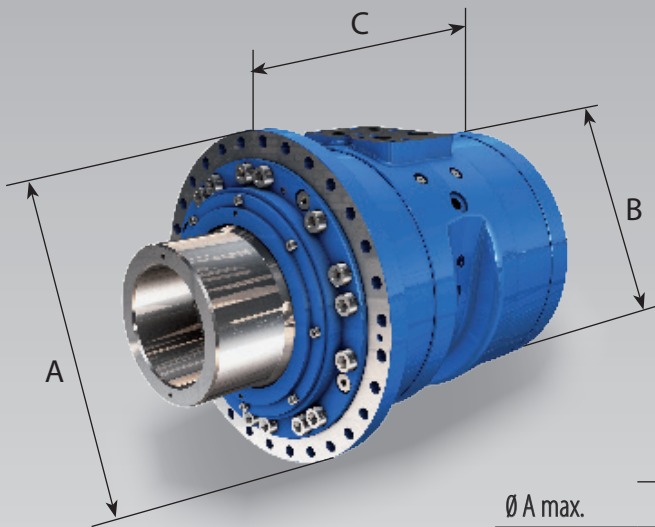


**This new motor will reinforce  
the brand image of your machines  
and contribute to customer satisfaction.**



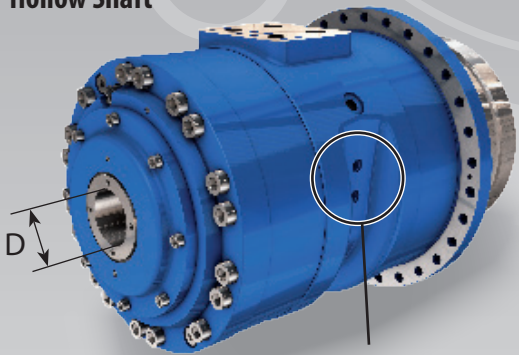
# Integration

To address the strict constraints on machine manufacturers, the MI250 offers high performance while keeping reduced dimensions and weight, resulting in easier integration on machines. Designed as a torque arm motor, the MI250 is available with different shaft interfaces (shrink discs, Male splines) and flat ports surface for valve flanging to facilitate its installation (see page 6).



	mm	in
Ø A max.	620	24.41
Ø B	520	20.47
C max.	690	27.16
D max.	100	3.94

Hollow Shaft

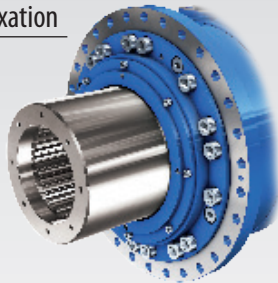


- 2 x drains ports
- 2 x pressure-measuring ports

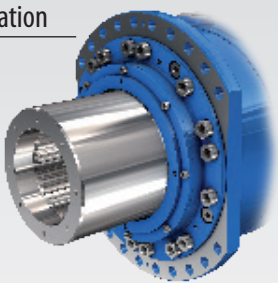
## Female splines

- DIN 5480 Splines
- Nominal dia.: 200 mm [7.87in]
- Module = 5
- Z = 38

Circular fixation

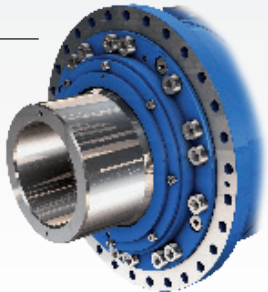


Ears fixation



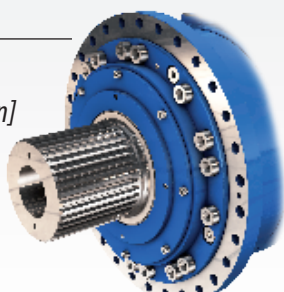
## Shrink disc

- External dia.: 280 mm [11 in]
- Internal dia.: 210 mm [8.26 in]



## Male splines

- DIN 5480 Splines
- Nominal dia.: 200 mm [7.87 in]
- Module = 5
- Z = 38



Reliability  
Efficiency  
and High Power Capacity

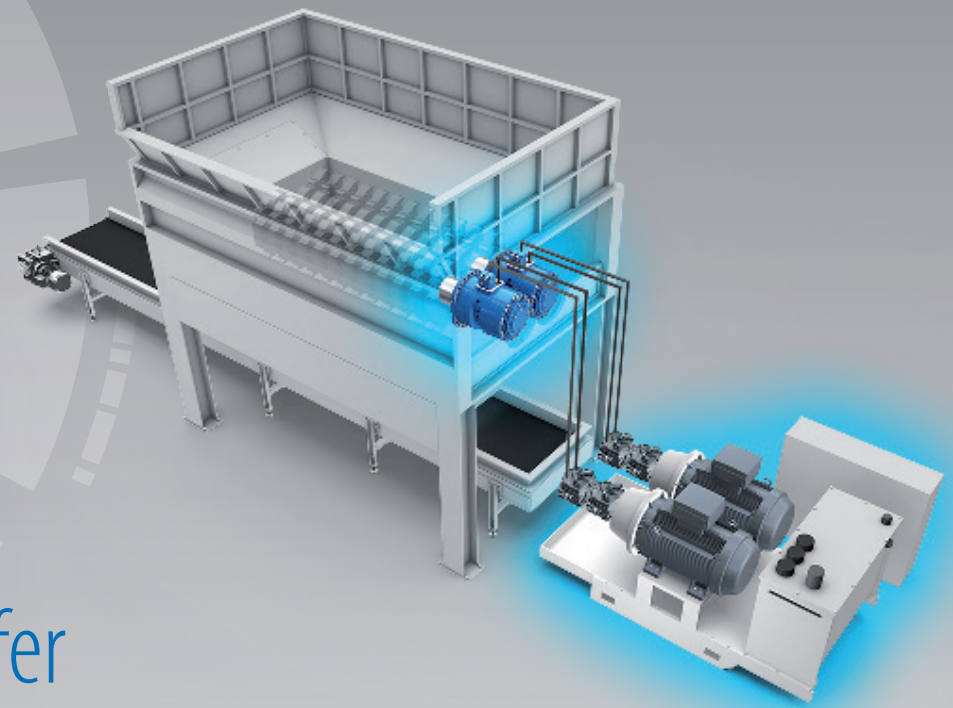
# Performance

In order to achieve optimized performance on your machine, you need to pay attention to every component installed and make sure they will contribute positively to the performance.

This is why the MI250 has been designed to provide high speed (up to 100 rpm) and output Torque (up to 140 kN.m) allowing coverage of a large range of heavy duty applications. With an efficiency over 90%, the MI250 clearly contributes to energy savings when operating the machine, helping in reducing its total cost of ownership.

Displacement	cm <sup>3</sup> /rev [cu.in/rev]	17 500 - 30 000 [1037-1831]
Max. Speed	rpm	up to 100
Max. Pressure	bar [PSI]	350 [5076]
Max. Torque	kNm [lbf.ft]	up to 140 [103258]
Weight	kg [lb]	950 [2094]





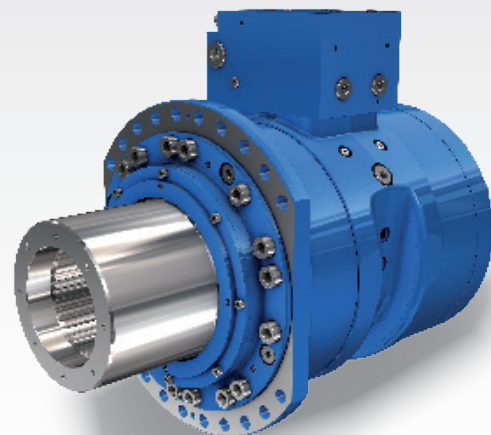
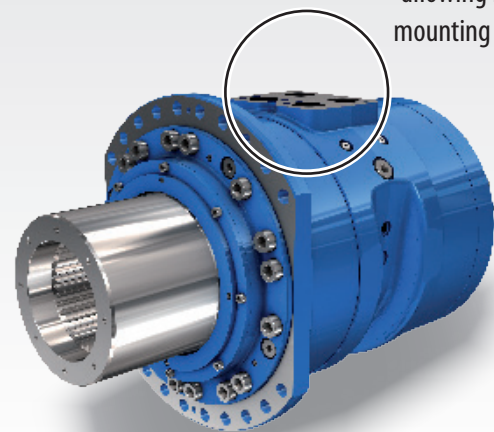
## Flanged valve offer

Poclain Hydraulics proposes a specific range of valves such as overpressure and anti-cavitation valves to protect your production line.

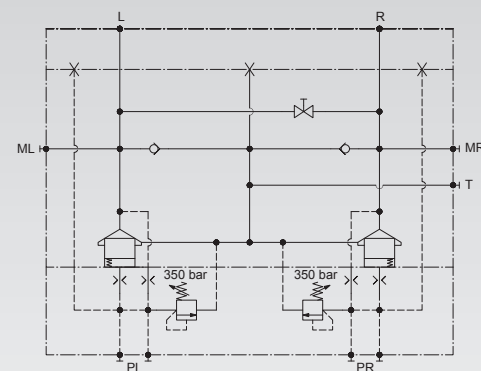
### Cross-over relief and anti-cavitation valves



4 x DN38 ports  
with support surface  
allowing for direct  
mounting of valves



Hydraulic schematic



## System offer

With Hydraulic Power Units we complete our offer as a single source supplier of transmission systems to industrial markets. Their modular design allows us to satisfy a variety of the demands required for single-piece deliveries.

The power units are available for closed loops as well as for open loops and are driven by an electric motor with large power capacity. Specific hydraulic control blocks can be included to enhance the functionality of the complete transmission system.





■ Plant



Logistic center

● Sales subsidiary



R&D center



- > 10 plants on 3 continents
- > More than 20 subsidiaries and remote offices
- > Over 150 distributors around the world
- > 2,000 people worldwide

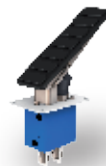
[www.poclain-hydraulics.com](http://www.poclain-hydraulics.com)



Motors



Pumps



Valves



Electronics

