



EDUCATION

THOUGHT PAPER

HYDRAULIC GEAR PUMPS AND MOTORS: POWERING INDUSTRIES WITH PRECISION

Hydraulic gear pumps and motors are the backbone of fluid power systems, offering reliability, efficiency, and versatility across industries. **Roquet's** advanced engineering ensures low-noise, high-performance solutions tailored for agriculture, construction, and industrial applications.

Roquet
making moves

TALK TO US

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Executive Summary

Roquet's gear pumps and motors (0.33–150 cm³/rev) are designed for durability and precision, featuring:

- Cast-iron covers (in-house foundry) for reduced noise and extended lifespan.
- Aluminum and cast-iron bodies for lightweight and heavy-duty use.
- Specialized motors for agriculture (seeders, mowers), construction, and industrial machinery.

Key Benefits

- Optimized gear profiles (tested in anechoic chambers) for ultra-quiet operation.
- In-built valves for speed control and pressure management.
- Custom solutions like fan drive motors and proportional valves.



Technical Specifications of Roquet Gear Pumps & Motors

1. Aluminum Series

Group	Displacement (cm ³ /rev)	Series
Group 0.5	0.33–1.33	M
Group 1	1–6.63	L0
Group 2	4–26.67	G, GZ (Low Noise)
Group 3	18–56	PLA, GLA
Group 4	53.33–150	PLC

2. Cast Iron Series

Group	Displacement (cm ³ /rev)	Series
Group 3	24 – 73.33	PNA
Group 4	53.33 – 150	PNC

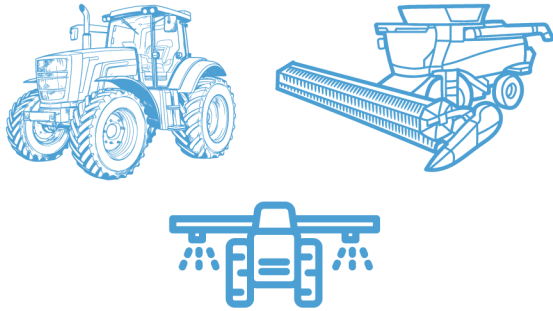
3. Specialised Motors

- Seeder Motors | Fan Drive Motors | Mower Motors
- Proportional Valves | Multiple Pumps for Construction

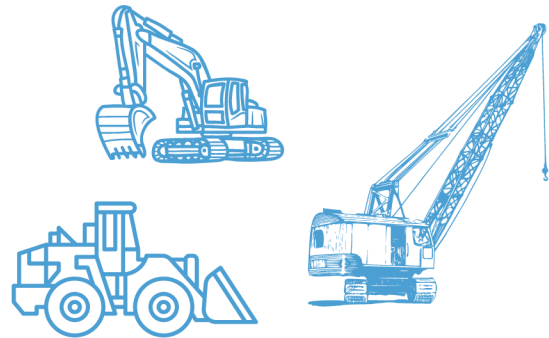


Applications

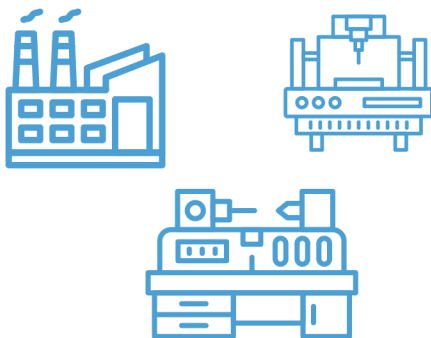
- **Agriculture:** Tractors, harvesters, sprayers



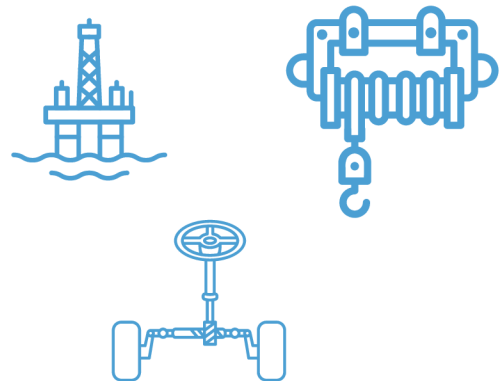
- **Construction:** Excavators, cranes, loaders



- **Industrial:** Injection molding, CNC machines



- **Marine:** Winches, steering systems



Performance Highlights

- Pressure Range → Up to 250–300 bar
- Flow Rate → Up to 150 l/min
- Torque Range → Up to 300 Nm
- Speed Range → Up to 4000 rpm



Conclusion

Why Roquet?

1. Proven Durability

- Cast-iron covers manufactured in Roquet's own foundry ensure unmatched longevity.

2. Low-Noise Technology

- Gear profiles perfected in anechoic chambers for silent operation in sensitive environments.

3. Wide Product Range

- Displacements from 0.33 to 150 cm³/rev to suit diverse industrial needs.

4. Custom Hydraulic Solutions

- Specialized motors for agriculture, construction, and marine applications.

Why HTM Hydraulics?



POWERING YOUR PROGRESS

HTM Hydraulics stands as your trusted partner for hydraulic solutions, combining technical expertise, reliable products, and unparalleled customer support. With over three decades of experience in the industry, we offer end-to-end services—from selecting the right Roquet gear pumps and motors for your application to providing localized after-sales support. As an authorized distributor of Roquet, we ensure genuine, high-performance products backed by warranties, tailored to withstand demanding Indian operating conditions like dust, heat, and heavy loads. Our commitment to customized hydraulic solutions and prompt service makes us the preferred choice for industries ranging from agriculture to construction. Partner with HTM Hydraulics for quality, reliability, and expert guidance at every step.

For Roquet Products, Contact Us



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