



MASCOT[®]
DRIVES

ENGINEERED FOR ENDURANCE



Hi-Performance Hydraulic Drives

ABOUT US

Maha Hydraulics Private Limited is a leading engineering company specializing in the manufacture of multi-cam, high-torque low-speed (HTLS) hydraulic drives and systems. For over two decades, we have been delivering precision-engineered hydraulic solutions from our fully integrated manufacturing facility located in the SIPCOT Industrial Area, Irungattukottai, Sriperumbudur, near Chennai.

Our products are marketed under the brand **MASCOT DRIVES** a trademarked name registered as intellectual property with the Government of India. Under this brand, we design and supply advanced hydraulic drives and systems to a wide range of industries, including Power, Steel, Cement, Mining, Marine, Sugar, Pulp & Paper, and other process sectors.

We are proud to serve an extensive and prestigious clientele, including bluechip companies such as L&T, ThyssenKrupp, NTPC, NLC, NMDC, SAIL, NALCO, ADANI, Vedanta, AMNS, JSW, and JSPL, among many others.

MASCOT DRIVES

MASCOT DRIVES is a multi cam-lobe radial piston motors introduced in 2007. These motors are designed for reliability, durability, and consistent performance in demanding conditions. Built for heavy-duty applications, they operate effectively even in extreme environments.

We recognize the importance of adjusting machine speed to meet the requirements of different industrial applications. By considering the specified speed and torque provided by our customers, we are able to optimize motor and pump combinations for best performance.

MASCOT DRIVES is a dependable choice for high-torque applications and is engineered to deliver long-term, reliable service.





MASCOT LD SERIES

The **MASCOT** LD Series comprises compact, high-speed, and durable low-displacement hydraulic motors, with displacements from 1200 to 12000 cc/rev and specific torque from 20 to 210 Nm/bar. A front-mounted brake delivers holding torque equal to the motor's maximum working torque, while dual ports ensure optimal speed and performance.

Designed for demanding applications such as Wagon Tippers, Side Arm Chargers, Slew Drives, and Paddle Feeders, these motors offer high axial and radial load capacity, lightweight construction, and easy installation.

Key Features: customizable shafts, high-speed variants, low noise, dual displacement, long life, and high mechanical efficiency.

MASCOT LD Series is built for reliability, performance, and versatility in high-speed operations.





MASCOT 820 SERIES

The **MASCOT** 820 Series delivers high torque at medium speeds, ideal for Wagon Tipplers, Shredders, and Inclined Conveyors. With displacements from 12,000 to 36,000 cc/rev and specific torque between 190–560 Nm/bar, these motors ensure powerful and efficient performance.

A compact, front-mounted hydraulic brake provides up to 120,000 Nm of torque, equal to the motor's maximum working torque. Designed for marine cutter drives and material handling systems, the 820 Series offers 10–30 L/rev displacement and dual ports for speeds up to 130 rpm.

Key Features: High torque output, compact design, integrated brake, and dual ports for maximum efficiency.



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MASCOT HD SERIES

The **MASCOT** HD Series delivers high torque for heavy-duty, low-speed applications in harsh environments. With displacements from 32,000 to 150,000 cc/rev and specific torque between 510–2400 Nm/bar, these radial piston motors are ideal for Bucket Wheels, Apron Feeders, Belt Feeders, Dredging Cutters, and Dewatering Drums.

Featuring a rotating cylinder block, torque arm mounting, and optional brake, the HD Series ensures reliability and alignment-free operation.

Key Features: customizable design, high-speed variants, ultra-smooth low-speed (<1 rpm) performance, low noise, submersible, thermally resistant, and highly efficient.



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MASCOT AV SERIES

MASCOT AV Series is a next-generation hydraulic drive. These motors fall into two categories: AV-500 (equivalent to the LD Series) and AV-800 (equivalent to the 820 Series). These drives are more compact compared to their predecessors. The weight of these motors is 40% lighter without compromising displacement, making them an excellent choice for power-to-weight ratio.

These motors have a modular design and can be customized based on customer requirements. AV Series motors are capable of working in extreme environmental conditions and are more reliable. The moment of inertia of the functional rotating elements is low, and these motors can operate at very high RPM further enhances their versatility and performance in demanding scenarios.

Key Features: High power to weight ratio, Compact, Low maintenance, High efficiency, Low inertia, Fewer moving parts, Dual-speed options





MASCOT CR SERIES

MASCOT CR Series motors are designed for special applications where the shaft is fixed and the motor housing are the rotational elements. Primary application of these motors are Marine winches, Conveyors, Manlift chair cars in underground mines and Dewatering Wheels in steel plants etc.,

The displacements of these motors' ranges between 4000 cc/rev to 40000 cc/rev. These motors can work in extreme environmental conditions. Special sealing is also integrated with the motor which is capable of working in submerged atmosphere. CR Series can be operated continuously under various loading conditions. The motors can be installed inside winch/ pulley/ sheeve/ wheel drums and can be an integral part of the machine





Hydraulic Power Units (HPU)

MASCOT Hydraulic Power Units provide complete, customizable drive solutions for both open- and closed-loop systems, integrating the latest instrumentation and smart I/O for seamless PLC communication.

Each unit combines an electric motor, pump, tank, control system, hydraulic motor, and piping assembly into a compact, efficient package. The closed-loop design ensures dynamic performance, while custom-built options meet specific operational needs.

All HPUs feature a fully sealed stainless-steel reservoir that prevents dust and moisture ingress. Welded return line fittings above the tank enhance cleanliness and durability, while high-capacity filters ensure effective oil filtration. Tank-mounted components simplify maintenance and minimize fluid loss.

Safety and monitoring systems include oil level indicators, temperature sensors, pressure switches, transducers, and limit switches, all compactly integrated for reliability.



Our Clientele





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