

Data Sheet

THORX Motors

CLM C

Mobile Machine Management

Since the 1960s, Danfoss has been developing state-of-the-art components and systems for mobile machinery used in off-highway operations around the world. Danfoss has become a preferred supplier by offering the best of what really matters, the hardware inside your vehicle application.

Product Highlights

The CLM C motor is designed to fit perfectly for road building machines with drum drives, such as Tandem Vibratory Rollers, using existing and proven technology that Danfoss has refined to meet the high demand of today. These motors have been optimized by taking into account the following factors: physical size, lifetime, features, and installation cost.

Application Development

The CLM C motor is a radial piston motor, also known as a cam lobe motor, and is most commonly used in closed circuit medium power propel applications. These motors are designed primarily to be combined with other products in systems to transfer and control hydraulic power.

Features

Main Features

- Robust design with tapered roller bearings
- Hollow shaft available
- Integrated multi-disc parking brake
- Proven reliability and performance
- Possible to use with speed sensor

OEM Benefits

- Designed with tapered roller bearings to ensure a robust shaft support and allow for higher radial loads
- Designed to be the most compact drive solution to make installation easier
- Reduce wasted energy by generating less heat that needs to be cooled away
- Worldwide sales and service

Operator Benefits

- Experience a smoother operation at low speed with CLM 5 C series thanks to a higher efficiency
- Bearing design eliminates risks of leakage and increases serviceability
- Long-lasting durability of parking brake, thanks to its multi-disc design



Comprehensive technical literature is
online at www.danfoss.com

Technical Data

THORX CLM C		
Frame size		5
Displacement range	cm ³ [in ³]	272 - 545 [16.6 - 33.3]
Maximum speed	rpm	120
Maximum pressure	bar [psi]	400 [5,800]
Maximum theoretical torque	Nm [lbf·in]	3,470 [30,710]
Brake torque	Nm [lbf·in]	3,170 [28,050]
Optional features		Dust seal Hollow shaft Speed Sensor

Maximal load capacity

CLM C series is designed with two tapered roller bearings, allowing for maximal load capacity and longer lifetime of the motor.

Easy-to-fit design

THORX motors are designed to be compliant with industry standards, featuring interchangeable mounting, hollow shaft, and speed sensor options, making the CLM C series easy to integrate on your machine.

Integral multi-disc parking brake

THORX motors offer the strongest parking brake in the market. The brake is designed to withstand 100 dynamic emergency stops during its lifetime. The spring applied multi-disc brake design ensures long-lasting durability.

World class performance

Achieve better performance at low RPM and improve your high-speed efficiency with THORX motors. High performance and efficiency mean more is going directly to power, resulting in less heat to cool away.

Wide program

The THORX family of motors features a wide range of mounting interfaces and shaft options to suit perfectly onto your machine.



**THORX
CLM 5 C**



Available with
Hollow shaft

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.