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What is a frameless motor?

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~~motor? [4 advantages]~~

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Generators | Physics Frameless High Torque Motors Magnetic

efficiency of frameless high torque motors is much higher, making the MI-F series very suitable for vehicle/bicycle propulsion. Industrial HVLS Fans A quiet environment and high efficiency operation is essential in many fan applications.

Driving the fan blades directly with an MI-F torque motor instead of an induction motor

## Frameless High Torque Motors - Magnetic Innovations

A direct drive torque motor is a permanent-magnet synchronous motor (PMSM).

Hence, the load is directly driven without the use of a gearbox or transmission. This reduces the number of moving parts, and thereby increases the operational lifetime and efficiency of the application.

Compared to induction motors with the

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same volume/weight, the peak point energy efficiency of frameless high torque motors is much higher.

## Direct Drive Torque Motor | Magnetic Innovation B.V.

The high torque frameless motors consist of two parts. The armature assembly (stator) with windings and the rotor assembly carrying the magnets that produce torque integrated into a customer specific application. A great advantage is the freedom in design and choice of bearings, shaft, housing and sensors that are required for the application.

## Frameless High Torque Motors - Magnetic Innovations

Frameless permanent magnets brushless torque motors for direct drive. STK Direct Drive motors have been designed for being integrated at the heart of

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servomechanisms with the aim to improve the performances of axis control of high torque motors. Thus, the use of ALXION's Direct Drive frameless torque motors offers adequate solutions regarding the improvement of dynamic performances and accuracy and allows to address applications with demanding constraints on volumes and weights.

Torque motor : frameless torque motors, direct drive motor ...

Based on our high torque frameless motors this water cooled PMSM outrunner was developed. A high efficiency motor with a very high power density of  $>1.2$  kW/kg is obtained by implementing water cooling in combination with an optimized electromechanical design.

Magnetic Innovations - DutchHTS  
FMI motors - Rozum Robotics - own R&D

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products are synchronous alternating-current frameless actuators featuring superior torque density. The brushless technology employed in the drives enables packing impressive power into a compact footprint, while minimizing friction-induced power losses and ensuring noise- and spark-free operation.

## Frameless Motor | Rozum Robotics

Frameless torque motors consist of a separate rotor and stator which are assembled directly inside the machine. The result is a compact, fully-integrated motor with improved dynamic performance. The rotor and stator can be modified to match your machine and the motor winding can be customized to adapt the motor speed to the application.

## Torque Motor | Frameless Direct Drive Motor | Ring Motor

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A frameless motor consists of rotor and stator components which are built into a machine assembly to transmit torque to a load. It is typically integrated with other components, including a housing, shafting, bearings, feedback device and other elements to complete the servo system.

What is a frameless motor? | Kollmorgen Allied Motion's Megaflux family of brushless torque motors includes 12 series of high performance frameless component torque motors, ranging in outside (stator) diameter from 60 mm up to 792 mm (2.36 in. up to 31.2 in.). Each motor consists of a matched rotor and stator pair. The stator is wound WYE with the three phase terminals made available.

Megaflux Frameless Torque Motors R7b -  
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Frameless High Torque Motors Magnetic  
Frameless High Torque Motors - Magnetic Innovations torque to inertia ratio This means that a high torque is required to accelerate the motor For direct drive torque motors inertia is low, which makes the motors very suitable for high speed, acceleration applications with fast starts and stops These frameless motors

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Magnetic Innovations □ large high torque

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motor MI-F-485 mm (~19 inch) uses direct drive technology which enhances its dynamic performance while it reduces costs compared to conventional solutions. Moreover, it is a frameless motor – so, a motor without a frame, housing, bearing or feedback system – which results in the possibility to optimize the motor according to your own needs.

Large High Torque Motor | 485 mm / 19 inch | Magnetic ...

With the use of our magnetic and thermal simulation software, our frameless high torque outrunner motors are designed to deliver unmatched performance.

Compared to inrunners, outrunner direct drive torque motors are capable of producing more torque and are more efficient.

Small High Torque Motor | 110mm / 4.3

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inch | Magnetic ...

Frameless PM Torque Motors. PM High Torque Motors. Permanent Magnet Alternators / Generators for Wind and Water turbines. ALXION is an undisputed leader in High Torque Permanent Magnet Motors for Factory Automation and Alternators for Wind and Water Turbines operating in Direct Drive without gear.  
00:00.

Wind turbine alternators generators, frameless high torque ...

Frameless High Torque Motors - Magnetic Innovations The high torque frameless motors consist of two parts The armature assembly (stator) with windings and the rotor assembly carrying the magnets that produce torque integrated into a customer specific application A great advantage is the freedom in design and choice of bearings, shaft ...

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magnet frameless servo low speed high  
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Magnet Frameless ...

Frameless torque motors are particularly recommended for optimizing technically and economically the direct drive applications in machine-tools, printing, plastics, rubber, electronic components industries and wind turbine or water turbine in the case of permanent magnets alternators for energy generation.

Frameless high torque motors and  
alternators | Alxion ...

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efficiency of frameless high torque motors

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is much higher, making the MI-F series very suitable for vehicle/bicycle propulsion. Industrial HVLS Fans A quiet environment and high efficiency operation is essential in many fan applications. Driving the fan blades directly with an MI-F torque motor

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