



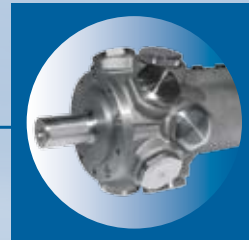
DÜSTERLOH **Fluidtechnik**

Hydraulic motors

STRONG



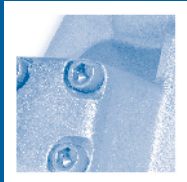
PRECISE



RELIABLE



Hydraulic motors



Many types of drives can fulfil the elementary function of driving a machine.

Düsterloh hydraulic motors have lots of additional features and characteristics which other types of drives cannot match. This is why Düsterloh hydraulic motors are the first choice for solving a wide variety of complex drive problems.



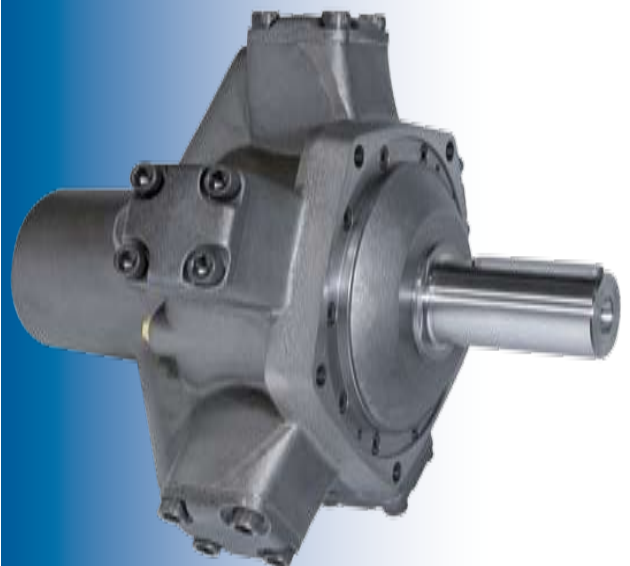
Düsterloh hydraulic motors have a **high starting torque**. This is required for safe operation of the heavy gates on the material lock

in a nuclear power plant or to hand over the weighty coils in the rolling mill.



Due to the low amount of revolving mass, the **rotational direction can be quickly changed** in Düsterloh hydraulic motors.

This feature is very important in many test benches: when performing vibration tests on motorcycle forks or when testing the adjustment of wing flaps on aircrafts. The components can perform up to 50 rotational direction changes per second.





Düsterloh hydraulic motors are characterised by a **high power density** which means that they achieve a high power level in comparison to their relatively small size.

AE16 series Düsterloh axial piston motors are used in the restricted spaces of precision cylindrical forgery machines to control the working hub on forgery tools. Our strongest RM5000 radial piston motor can move weights of 100 tonnes in steelworks transport carts.

Another outstanding feature of Düsterloh hydraulic motors is their **jerk-free start up**.

Examples of applications where this feature is significant are the operation of fire engine turntable ladders or fork-lift trucks which need to position heavy loads safely and quickly; often at extreme lifting heights.

The **low noise production** created by the Düsterloh hydraulic motors is often very important.

This means that they are often used for stagecraft in opera houses or theatres.

The generally very compact construction of the Düsterloh hydraulic motors combined with suitable roller bearings permits **high axial and radial forces on the shaft**.

An example of this is the application as a drive for screw pumps for highly viscose media.

The **high resistance to environmental influences** also opens up a world of opportunities to Düsterloh hydraulic motors.

Some examples are the rolled steel bands in rolling mills which are driven under temperatures of up to 90°C or the level control of offshore drilling platforms which are washed by salt water breakers.

- There is a wide range of practical examples for the requirement of **excellent control of speed and torque** on Düsterloh hydraulic motors.
- A typical application is the rewinder in the film blowing machine: the freshly blown film must be spooled with constant traction so that the film does not rip and so that the thickness of the film remains as constant as possible. This is a task which a Düsterloh hydraulic motor performs with outstanding success.



DÜSTERLOH has been developing fluid technology products for more than 100 years.

The drives, controls and hydraulic power units from Hattingen are appreciated throughout the world for their complete reliability; including under extreme conditions. The owner-managed company's own development and construction department and the wide range of products cater for distinctive flexibility and customer-orientation.

Products

- Hydraulic radial piston motors
- Hydraulic axial piston motors
- Pneumatic motors
- Pneumatic starters
- Hydraulic and pneumatic controls
- Hydraulic power units

Designing controls and hydraulic power units specific to the customer is our company's major strength. Vast product diversity is also available for standardised products.

Industrial areas of application

- Machine tools
- Smelting and rolling mill equipment
- Foundry machines
- Testing machines
- Shipbuilding (diesel engines)
- Offshore technology
- Printing and paper technology
- Vehicle construction
- Manipulators
- Environmental technology
- Mining equipment
- Materials handling equipment



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