# Guided drive DFM


# Sturdy and reliable!

**Highlights**

- Resilient: 100% increase in payload
- Precision guidance
- Optimum price/ performance ratio
- Flexible thanks to variants
- Optionally available with reduced copper, zinc and nickel content for use in battery production

**Reliability is the name of the game with the DFM. This impressive guided drive has the best price/performance ratio in the market and offers optimum guide characteristics, sturdiness and flexibility. It is reliable, adaptable and resilient – even with high torques.**

**100% increase in guide capacity**
With its two different guide variants, the DFM can move in average over 100% higher loads than its competitors

**Flexible**
It adapts flexibly to every application thanks to a choice of assembly and air port options.

**Compact design**
The combination of linear drive and powerful guide unit means that the DFM can reliably move high loads, even in tight spaces.

**Always available**
The DFM is part of our core product range★ and therefore ready for dispatch worldwide within 24 hours.

**Reliably sturdy**
Thanks to its superior guide characteristics, the DFM is much more resilient and durable than competitor products.

**★ The Festo core product range**
Covers 80% of your automation applications.
- **Worldwide**: always in stock
- **Superb**: Festo quality at an attractive price
- **Easy**: simplified procurement and warehousing

# Guided drive DFM

**Overview of sizes and strokes (plain-bearing guide and ball bearing guide)**

only plain-bearing guide

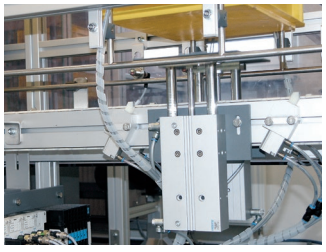
| Strokes | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 80 | 100 | 125 | 160 | 200 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DFM-6 | | | | | | | | | | | | | |
| DFM-10 | | | | | | | | | | | | | |
| DFM-12 | | | | | | | | | | | | | |
| DFM-16 | | | | | | | | | | | | | |
| DFM-20 | | | | | | | | | | | | | |
| DFM-25 | | | | | | | | | | | | | |
| DFM-32 | | | | | | | | | | | | | |
| DFM-40 | | | | | | | | | | | | | |
| DFM-50 | | | | | | | | | | | | | |
| DFM-63 | | | | | | | | | | | | | |
| DFM-80 | | | | | | | | | | | | | |
| DFM-100 | | | | | | | | | | | | | |

| Technical data | Piston Ø [mm] | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 10 | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
| Medium | Compressed air, filtered, lubricated or unlubricated | | | | | | | | | | | |
| Max. permissible operating pressure [bar] | 8 | | 10 | | | | | | | | | |
| Temperature range [°C] | –10 ... +60 | | –20 ... +80 (plain-bearing guide) | | | | | | | | | |
| | — | | –5 ... +60 (ball bearing guide) | | | | | | | | | |
| F* [N] | 0,6 ... 1,1 | 2,1 ... 3,7 | 19 ... 31 | 49 ... 73 | 35 ... 110 | 61 ... 110 | 150 ... 188 | 127 ... 180 | 174 ... 257 | 174 ... 257 | 245 ... 352 | 400 ... 568 |
| M* [Nm] | 0,006 ... 0,011 | 0,034 ... 0,057 | 0,40 ... 0,65 | 1,14 ... 1,68 | 1,70 ... 3,00 | 2,90 ... 4,2 | 5,00 ... 7,3 | 5,55 ... 7,9 | 9,6 ... 14,15 | 10,7 ... 15,9 | 19,0 ... 27,2 | 37,6 ... 53,4 |
| Material information | F1a variant: Metals with copper, zinc or nickel as main constituent are excluded from use.<br>Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. | | | | | | | | | | | |

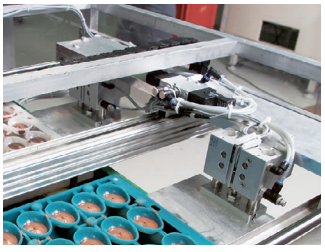
* Maximum permissible load for guide depending on stroke length

## Application examples

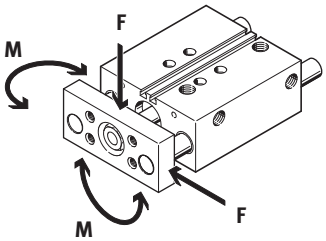
**Clamping**
The DFM is perfectly suited to clamping components for reliable further processing.



**Lifting**
The DFM transports and lifts loads, even of over 200 kg, powerfully and dynamically.



**Stopping**
Loads of up to 150 kg are stopped reliably and safely, making the DFM a resilient and sturdy stopper cylinder.




**More functions? Guided drive module DFM-...-B**
If you need wear-free pneumatic cushioning (PPV), shock absorber variants, precision adjustment of the end positions, ATEX or other functions that the DFM does not offer, it is worth having a look at the guided drive module DFM-...-B – either on the Internet or in the virtual catalogue on CD-ROM.



142519 en 2021/03 – Errors and omissions excepted