

Danfoss FlexMotion™

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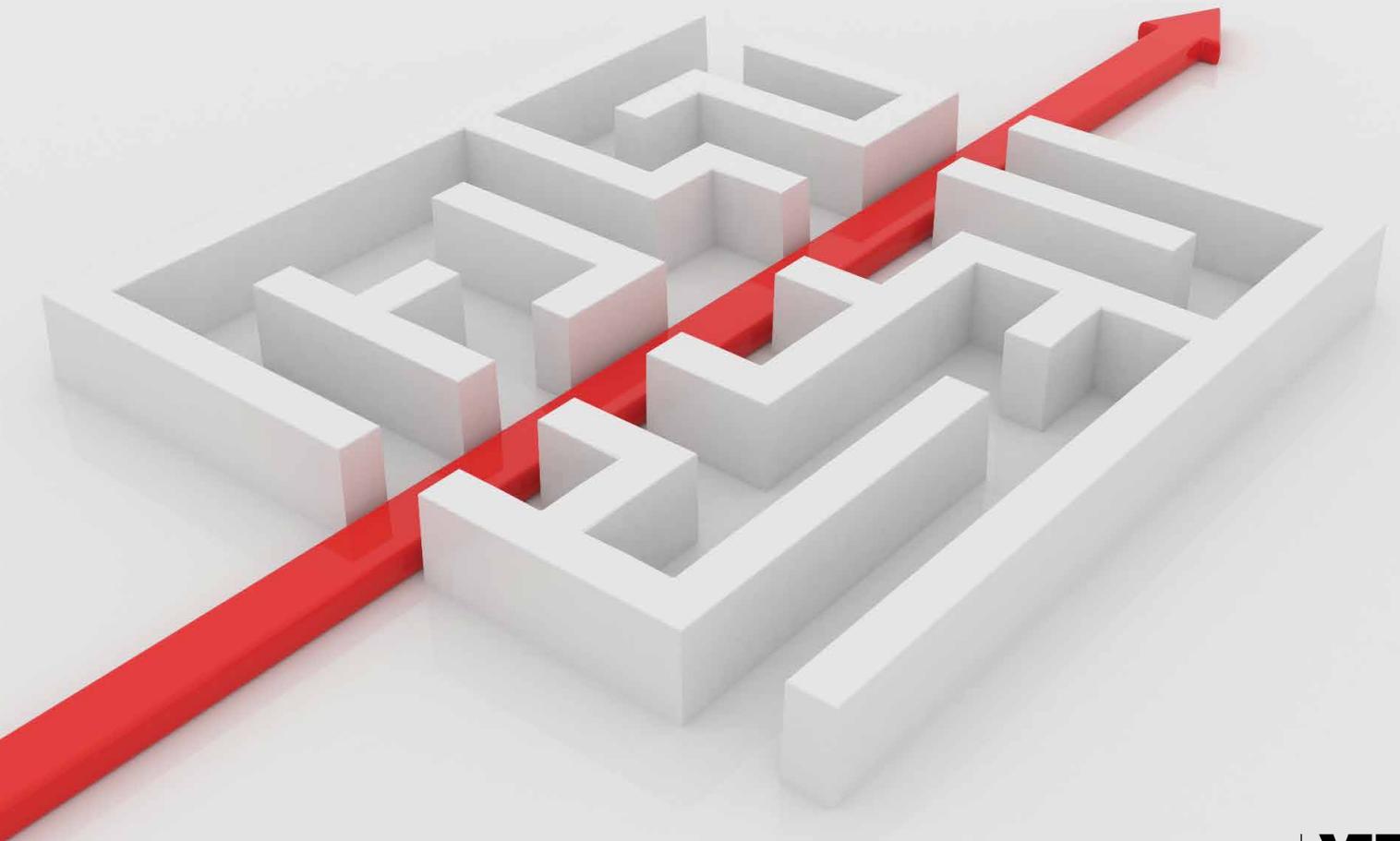
Think differently.

Fast and simple installation

Danfoss FlexMotion™ is a general-purpose servo drive solution. It consists of three different servo drive product lines, each with their own unique benefits. But, as they are based on the same platform, the user interface is identical and programming, installation and maintenance are equally quick and easy.

**User-
friendly
and open**

servo motion
solution



Developed specifically for the food and beverage, packaging, pharmaceutical and material handling industries, Danfoss FlexMotion™ consists of:

- VLT® Integrated Servo Drive ISD® 510
- VLT® Decentral Servo Drive DSD 510
- VLT® Multiaxis Servo Drive MSD 510

Mutual benefits

- System independence – the unique open system architecture means that all three product lines are compliant with most real-time Ethernet fieldbuses, such as EtherCAT®, POWERLINK® and PROFINET® IRT, and 3rd-party masters can be used
- Coherent central and decentral solutions – provide optimal flexibility and machine design
- Safe Torque Off (STO) – ensures enhanced functional safety throughout the whole platform

A closer look at the VLT® Integrated Servo Drive ISD® 510

The VLT® Integrated Servo Drive ISD® 510 is a fundamental part of a flexible, high-performance decentral servo motion solution. It consists of

a central power supply (VLT® Servo Access Box SAB®), which generates a 565-680 V DC supply and ensures a higher power density, drive modules and a hybrid daisy-chain cabling concept that significantly reduces the number of cables required.

The removable VLT® Local Control Panel (LCP) ensures user-friendly operation and enables direct connection to the advanced servo drives for fast commissioning, diagnosis and service.

A closer look at the VLT® Decentral Servo Drive DSD 510

The VLT® Decentral Servo Drive DSD 510 extends the selection of a decentral servo drive concept. It delivers a rated power up to 4.5 kW and can be used with a wide range of PM servo motors. And, for optimal control of speed and position, it is equipped with the following feedback encoders:

- Resolver
- BiSS single- and multi-turn
- EnDat 2.1* and 2.2*
- Hiperface* and Hiperface DSL*

* In preparation

It has excellent vibration resistance making it ideal for rotating machine parts. And the IP67 enclosure design ensures a high degree of protection.

A closer look at the VLT® Multiaxis Servo Drive MSD 510

The VLT® Multiaxis Servo Drive MSD 510 is a generic multi-axis system that allows perfect integration of decentral drives. It comprises a Power Supply Module (PSM 510), Drive Modules (SDM 511, SDM 512), Decentral Access Module (DAM 510) and an Auxiliary Capacitors Module (ACM 510). Modules are available in two frame sizes with a width of 50 mm and 100 mm. It supports EtherCAT®, POWERLINK® and PROFINET® IRT Ethernet-based protocols and features an internal brake resistor and a mounting plate that includes a DC link and auxiliary voltage. The 'click and lock' solution for the mounting plate makes installation simple and safe.



VLT® Integrated Servo Drive ISD® 510



VLT® Decentral Servo Drive DSD 510



VLT® Multiaxis Servo Drive MSD 510