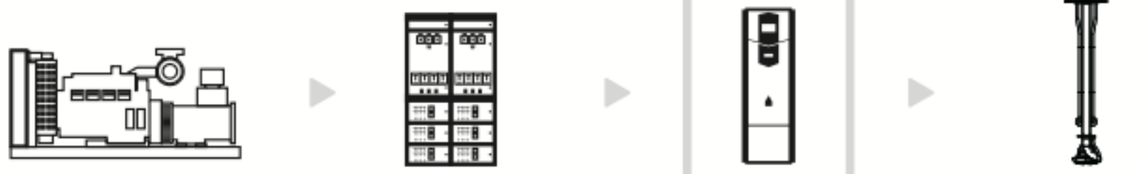
MarFlex

Full Drive
Frequency Converter System (VSDS)

" Simple and Robust system for Smart Cargo Handling "

Power system on board



VSDS stands for **"Variable Speed Drive System."** It's a technology used to control the speed of motors by varying the frequency and voltage of the power supplied to them. This helps improve energy efficiency, reduce wear and tear, and allows for better control over processes.

Vessels equipped with these two technologies, **Smart pumping** and **Full Drive System**, are cavitation-free and guarantee unparalleled efficiency when used correctly. We guarantee it with an **industry first 7-year warranty.**

VSDS — Smart Pumping® — PUMP

" We listen to the customers for solving weakpoints "

[Traditional] VSDS

Matrix

- More difficult to learn, understand and troubleshoot.
- During discharge, not all the pumps are running at the same time.
- Large amount of small supporting parts makes the system more vulnerable.
- A breakdown of cabling / components can affect a large part of the system.
- A communication fault in a matrix can disable the entire matrix until resolved.

[New release] VSDS

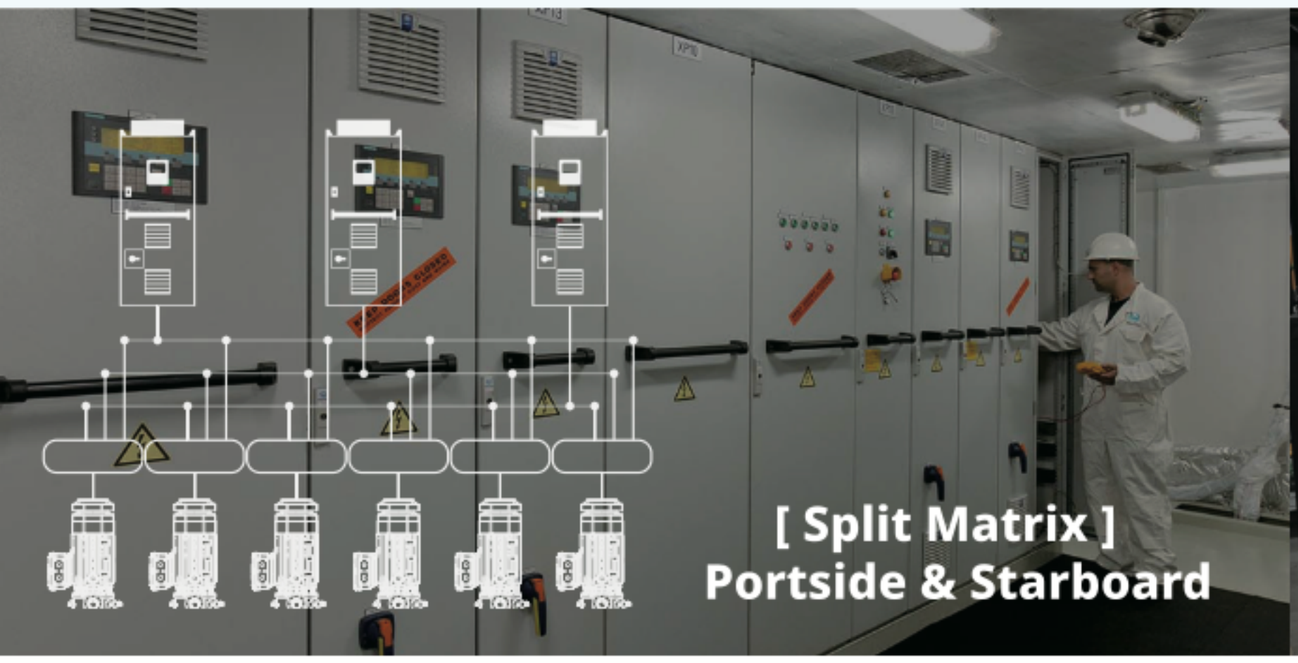
Full Drive

70~80% reduction in components

+/- 15% Less cooling power required

Up to **66%** Footprint reduction

- Easy to learn and understand.
- More space for cable installation.
- Lower Standby power requirement.
- Prepared for AI machine learning.
- No elevated platform required under the drives.
- Minimum training requirements due to intuitive UI.
- Decreased commercial risk for the operator.



MarFlex Pumping for Life

Louis Pasteurstraat 8, 3261 LZ Oud-Beijerland, The Netherlands
Tel: +31 (0)186 890 200 / Email : info@marflex.com / www.marflex.com

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