

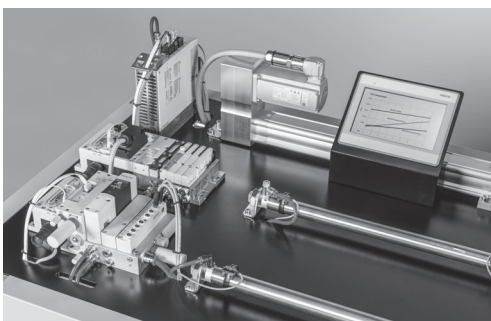
Pneumatics: highly energy-efficient operation for the first time exactly as required

FESTO

Dynamic Display
D-EE2203

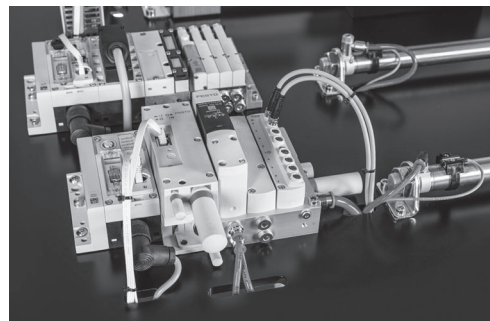


Energy-efficient pneumatics – achieve even better results with Controlled Pneumatics and Motion Terminal VTEM! Compressed air is supplied in absolute accordance with actual demand – exactly as much as necessary for the required motion. The display shows a comparison of different drives used for the same application: a mass of 15 kg is moved from end position to end position within 0.5 seconds over a 400 mm stroke. Significant differences are apparent with regard to compressed air and energy consumption, investment costs, space requirements and end-position performance of the three drives. Even compared to a well-designed drive with exhaust air flow control, this solution reduces consumption by up to 70%.



In comparison at the display:

- Electric drive with CMMT+ESBF
- Pneumatics with exhaust air flow control and MPA
- Demand-driven pneumatics with VTEM and corresponding motion apps



Even in the case of a drive with exhaust air flow control and valve terminal MPA, the combination with VTEM is significantly more energy-efficient.

Technical information about the Festo products used in this display can be obtained from the information counter at our exhibition stand or from our information service in Esslingen.

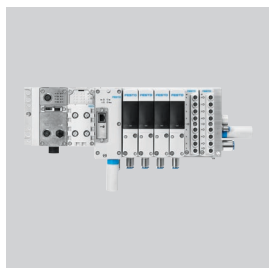
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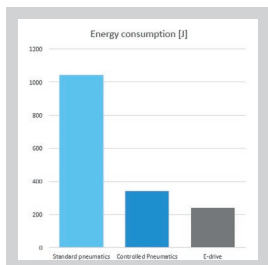
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Festo Motion Terminal VTEM – digitised pneumatics



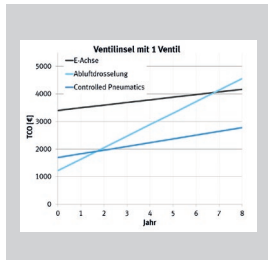
- Controlled by motion apps – making it the ideal platform for energy-efficient operating strategies
- Facilitates innovative, mechatronic pneumatics
- Controlled Pneumatics

Pneumatics – as efficient as electric drives



- With Controlled Pneumatics, pneumatics becomes almost as efficient as an electric drive.
- Savings of up to 70% as compared to a well-designed drive with exhaust air flow control
- Shorter cycle times
- Gentler motion without end-position impact thanks to mechatronic braking
- Reduced pressure when motion ends

It pays to save energy



- Operating costs can be significantly reduced.
- Short amortisation times of roughly 1 to 2 years as compared to pneumatics with exhaust air flow control