



VARIOVERTER

THE COST-EFFECTIVE CYCLOCONVERTER SOLUTION

The VarioVerter is a cycloconverter developed by Primetals Technologies that enables plants to remain at the cutting edge of drive systems without the need for excessively high investment. The VarioVerter is specifically designed to facilitate seamless integration with existing drive systems, focusing in particular on flexibility, so that individual control or power sections—or even an entire system—can be replaced without altering the existing footprint of the drive. The advantage is that you can avoid having to invest in new transformers and motors, because you can keep your existing ones. This multi-step approach allows you to upgrade to a state-of-the-art system while minimizing modernization costs.

CHALLENGE

With major original equipment manufacturers (OEMs) choosing not to continue supplying cycloconverters, it is becoming increasingly difficult for plants to maintain and service existing and aging equipment as the supply of spare parts begins to run out.

Given that transformers and motors have a much longer product life cycle (up to 40 years) than cycloconverter drives, it is often necessary to invest in new cycloconverter control systems or even to replace an entire cycloconverter system with a brand new, investment-intensive solution.

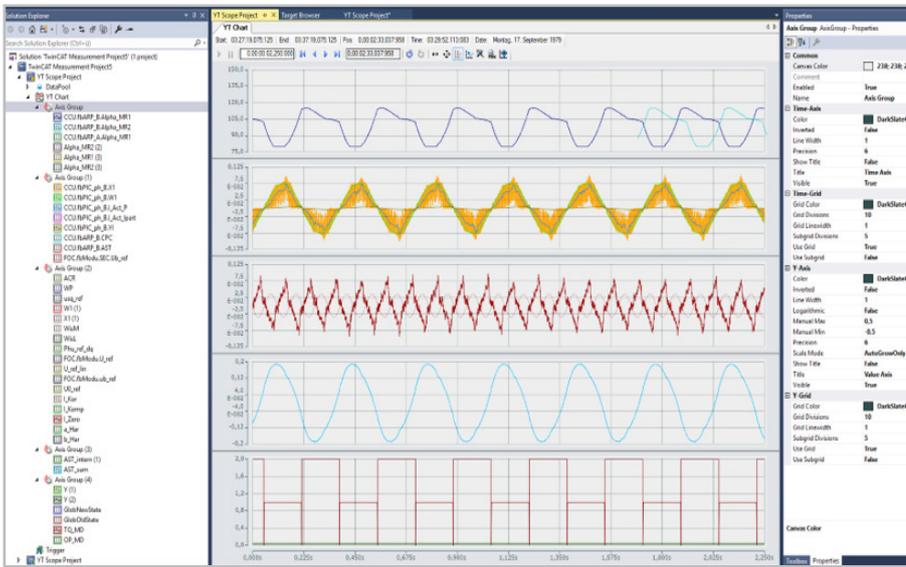
OUR SOLUTION

The VarioVerter from Primetals Technologies represents a cost-effective alternative to replacing the entire system. It allows for a modular approach to modernization, allowing

existing motors and transformers to remain in place, and slashing investment costs as a result. And because only the cycloconverter itself is swapped out, the overall footprint of the existing drive system remains unchanged.



VarioVerter Cyclo Control Cabinet



Direct access to CFC with trace possibilities



VarioVerter Cyclo Power Section

The VarioVerter has been designed to be ultra-flexible:

- Scalable performance, adaptable to existing production outputs
- Possibility for separate exchange of control cabinet and power section with new digital interface
- Exchange of obsolete control and evaluation units in the existing power section
- Modular hardware and software, fully customizable
- Existing drive system components, such as transformer and motor, can be retained
- Minimal impact on drive footprint
- Optimized downtimes for equipment exchange
- Ease-of-use and flexible monitoring through CFC software

The VarioVerter was developed specifically for modernization projects and can be flexibly integrated into existing infrastructures. The upgrade is a two-tier process: firstly, a customer-specific analysis is carried out to match the physical footprint of the new equipment to that of the existing equipment. Secondly, a technological analysis is carried out to align the existing equipment with the new technological requirements.

The control cabinet can be adapted to work with existing power sections from multiple OEMs, which means that existing motors, power sections, and transformers can be retained. It is equally possible to upgrade the control system alone, or both the control system and the power section.

MAIN BENEFITS

- Modular and partial modernization of the existing cycloconverter
- Minimal downtimes
- Lower investment costs
- Cost savings through a single system
- Excellent performance

- FEATURES**
- A solution that enables any cycloconverter to be upgraded, irrespective of OEM or application
 - Modular upgrade concept—Control, Power Section, Complete Drive
 - Reliable hardware based on current industry standards
 - High-performance embedded PC for direct converter control
 - Visualization of cycloconverter functions
 - Touch panel 15" to 19"
 - Outstanding performance

FIELDS OF APPLICATION

High torque accuracy in demanding drive applications, ideal for use in metals for all rolling mill applications, mining, and marine scenarios.

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Order No. T10-1-N710-L2-P-V1-EN
 Printed in Linz | © 2020

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