

**CONTROL  
TECHNIQUES**



A Schulthess Professional front-loading washing machine is the central focus of the image. It is a large, grey industrial machine with a black control panel at the top. The control panel features a small digital display and several buttons. The machine's door is circular with a black frame and a silver mesh. The background shows a factory environment with various pipes, cables, and equipment.

# **SIMPLIFIED SYSTEM DESIGN**

**SCHULTHESS MASCHINEN AG | SWITZERLAND |  
COMMERCIAL AND MANUFACTURING**

**DRIVE OBSESSED**



# COMMANDER C DRIVES WITH BUILT-IN LAUNDRY FEATURES

Schulthess is the leading Swiss supplier of washing equipment. Ever since its inception in 1845, durability and performance have been at the core of the solutions designed and built by the company. The Schulthess laundry equipment is easy to operate, economical to use and boasts excellent process reliability. Each machine has been tested for 30,000 cycles – equivalent to a lifetime of 20 years.

The company is constantly investing in research and development, which has helped to secure only the highest-grade materials and processes for durable and environmentally-friendly products.

## Overview

- Improved wash and extraction
- Easy integration
- Simplified system design
- Reduced energy and water consumption
- Improved customer experience
- Excellent service and support



## The Challenge

As they've embarked on a new product development, the Schulthess team has been on the lookout for an inverter drive supplier that can meet their demands for quality and performance, while also offering a technological advantage and satisfying the regulatory requirements. Inverter drives are crucial components in the design of the laundry solution as proprietary inverter drive technology provides smooth, reliable power for better wash and extraction, reduces energy and water consumption and improves the customer experience.



## The Solution

The Swiss and UK team at Control Techniques have worked closely with Schulthess' R&D department to provide the best match to their needs. Commander C, with the built-in laundry specific software, proved to be the right solution.

Commander C can detect imbalances caused by laundry becoming tangled into large lumps and initiate a tumbling sequence to untangle the load. Thanks to this feature the wash cycle is much smoother and the machine life is extended as there is less stress to the mechanical parts.

The on-board PLC has allowed the joint teams to further expand the laundry specific capabilities while also reducing the size of the installation as an external controller was no longer required.

Commander C is built to cope with harsh environments. Control Techniques are so confident in its durability it is supplied with a free 5 year warranty, yet another valued benefit to guarantee the quality of the Schulthess machinery.



## The Benefit

"Since switching to Commander C, we have been able to simplify the system design. For example, we no longer need an imbalance sensor. Imbalance detection and broken belt detection are all built-in the PLC. Commander C's motor control performance is outstanding, and it has greatly improved our testability and troubleshooting compared to the previous drive.

Throughout this project, we have had excellent support from the Control Technique teams in the UK and Switzerland and it's been a great working partnership. We will most certainly use Control Techniques' inverters for our future projects."

### Remo Bucher

Engineering Manager, Schulthess





## CONTROL TECHNIQUES. NO ONE KNOWS DRIVES LIKE WE DO.

Our drive obsessive representatives will drive you in the right direction and give you first class support whenever you need it.

For more information, or to find your local drive centre, visit:

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