BUCHER automation

SIU24S

Servo Invert Unit



Control and drive system for all established servo invert units

Our SIU24S servo invert control system is designed to control and drive almost any servo invert mechanism established in the market today. The SIU24S HMI allows operators to preset the acceleration and deceleration of the swivel motion when an article is transferred from the blank mould to the blow mould – individually, accurately and reproducibly. Article quality is significantly improved as a result. The advanced servo technology moreover permits an ultra-fast revert motion, so that even very short cycle times are possible.

The SIU24S integrates seamlessly into our proven FMT24S machine control system as an add-on. The servo invert control system is controlled centrally via the job database menu of the FMT24S HMI. The SIU24S can be retrofitted to any existing equipment featuring an FMT24S control system without any problem.

Most important features

- Control system for all established servo invert units
- Option for machines from different manufacturers, also as a retrofit
- Revert motion times up to 400 milliseconds possible
- Freely selectable motion profiles
- Controlled acceleration and deceleration of the swivel motion
- Ultra-fast motion profiles enable shorter cycle times
- Position holding function
- Time sequences presented in a bar chart
- Built-in alarm and event reports
- Simple, intuitive operation
- Easy maintenance because standard components are used
- Multilingual HMI

Benefits

- Central control via the FMT24S interface
- Unified job database management via the FMT24S interface
- Also available in a standalone version with a separate HMI for any standard IS machine
- High repeatability
- Accurate reproducibility
- Maximum flexibility in production
- Cost-effective solution
- Significantly improved quality

Technical data

Dimensions (W x D x H)	1200 x 600 x 1800 mm
Height with base	2000 mm
Weight	max. 300 kg
Housing	Steel cabinet (Rittal)
Protection class	IP22 (optionally IP54 with air conditioner)
Power supply	400 - 480 VAC, 50/60 Hz, TN-S
Power supply tolerance	±5 %
Total connected load	ca. 8 kW
Power electronics	Bucher Automation servo converter
Control electronics	Bucher Automation JetControl 365
Drive-to-PC interface	Ethernet
Operation	Integrated into FMT24S or standalone HMI
Ambient temperature without air conditioning	max. 25 °C
Ambient temperature with air conditioning	max. 45 °C (typabhängig)
Relative humidity	max. 80 %

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