Lenze Automation Platform

Servo inverter i950 as a Key Element
Scalable for modular machine concepts

Lenze Automation Platform

Cloud Connectivity

Ethernet

EtherCAT

Motion

One cable technology

Heart Interface

Wide Area Network

[Diagram of Lenze Automation Platform showing connectivity and components]

Cloud-based portal:
- Transparent VPN connection
- Clientless access
- Data reports
- Live monitoring & alerting
- API-application programming interface

User & device management
- Authentication & authorization

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Servo inverter i950

Parameter setting vs programming

Power range: 0.37 kW (230 V) up to 110 kW (480 V)
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Fieldbus communication:
Ethernet/IP, Profinet, EtherCAT

Feedback system:
Single cable technology, Resolver, Encoder
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Safety onboard:
STO or extended safety

Industry 4.0 / IoT enabled

Extended safety

Overview of functional safety:
- PROFIsafe via PROFINET
- FSoE via EtherCAT
- Safe torque off (STO)
- Safe stop 1 (S51)
- Safe stop 2 (S52)
- Safe operating stop (SOS)
- Safety-limited speed (SLS)
- Safe maximum speed (SMS)
- Safety-limited increment (SUI)
- Safe direction (SDD)
- Operation mode switch (OMS) with enable switch (ES)
- Safety-limited position (SLP)
- Safe cam (SCA)
- Position-dependent safe speed (FDSS)
- Safe brake control (SBC)
- Safe in- and outputs
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Servo inverter i950 – Technology applications

Technology Applications are part of the standard firmware

- CiA 402 basic
- CiA 402 advanced
- Speed control
- Table positioning
- Electronic gear
- Synchronism & correction
- WinDrives: dancer-controlled & tension-controlled

One hardware, three usage modes.

Parameterization
Program
PLC

Customized FAST TA
Customer’s individual TA

CiA402

Easily choose ready-to-use technology applications
Note: This drive family has consistency of parameter naming and functionality. Parameter number, name and functionality are the same, with i950 having most functionality, i550 the least.
Lenze Automation Platform
Your machine concept decides: Controller-Based or Drive-Based Automation
Lenze Automation Platform
Tailor-made system solutions for your machine
Thank you for your attention!

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