

# Less means more.

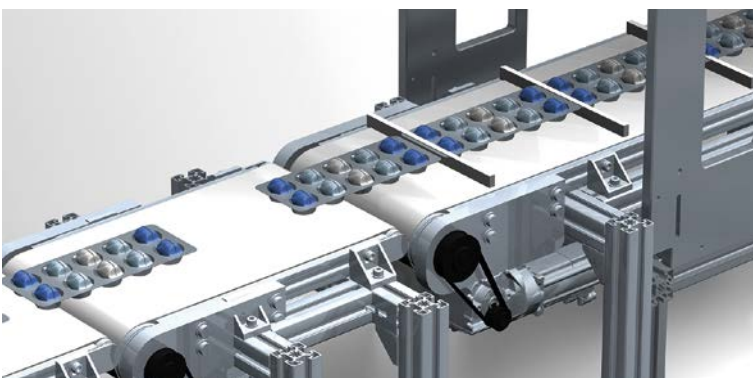


**i500 is the new inverter series in the 0.25 to 132 kW power range. Its distinguishing features: a slim design, scalable functionality and exceptional user-friendliness.**

i500 provides a high-quality inverter that already conforms to future standards in accordance with the EN 50598-2 efficiency classes (IE). Overall, this provides a reliable and future-proof drive for a wide range of machine applications.

## Features

- Space saving design: 60 mm wide, 130 mm deep, also zero-clearance mounting.
- Innovative interaction options enable better set-up times than ever.
- The wide-ranging modular system enables various product configurations depending on machine requirements.
- i500 is recommended for applications for pumps, fans and conveyor, traction, winding, forming, tool and hoist drives.



# This is how easy it is to integrate i500

## Three set-up methods

Thanks to Lenze's engineering philosophy, the high functionality is still easy to grasp. Parameterisation and set-up are impressive thanks to clear structure and simple dialogues, leading to the desired outcome quickly and reliably.

- Keypad

If it's only a matter of setting a few key parameters such as acceleration and deceleration time, this can be done quickly on the keypad.

- Smart keypad app

It is easily adapted for simple applications such as conveyor belts using the intuitive smartphone app for Android or iOS-based operating systems.

- EASY Starter

If functions such as the motor potentiometer or sequence control for a positioning application need to be set, it's best to use the EASY Starter engineering tool.



## Technical data

|                           |                     | i510   | i550   |
|---------------------------|---------------------|--|--|
| <b>Performance data</b>   | Mains: 1AC 120V     |  | 0.25 ... 1.1 kW  |
|                           | Mains: 1 AC 230 V   | 0.25 ... 2.2 kW  | 0.25 ... 2.2 kW  |
|                           | Mains: 1/3 AC 230 V | 0.25 ... 5.5 kW  | 0.25 ... 5.5 kW  |
|                           | Mains: 3 AC 400 V   | 0.37 ... 15 kW   | 0.37 ... 132 kW  |
| <b>Overload current</b>   |                     | Mode S1: 150%, mode S6: 200%   |  |
| <b>Interfaces</b>         |                     | Digital inputs/outputs (5/1), analog inputs/outputs (2/1), relays (optional extension with i550)   |  |
|                           |                     | External 24 V supply<br>PTC/thermal contact input<br>HTL incremental encoder (100 kHz)   |  |
|                           |                     | CANopen, Modbus RTU  | CANopen, EtherCAT, EtherNet/IP, Modbus RTU, Modbus TCP, PROFIBUS, PROFINET, POWERLINK, IO-Link |
|                           |                     | Integrated brake chopper<br>DC bus connection  |  |
| <b>Approvals</b>          |                     | CE, UL, CSA, EAC, RoHS2, IE2 in accordance with EN 50598-2   |  |
| <b>Functions</b>          |                     | V/f characteristic control linear/quadratic (VFC plus)<br>Sensorless vector control (SLVC)<br>Energy saving function (VFC-Eco)<br>Servo control (SC-ASM) with feedback<br>Sensorless vector control for synchronous motors (up to 22 kW) |  |
|                           |                     | Vector control with feedback V/f characteristic control with feedback  |  |
|                           |                     | DC braking<br>Brake management for low-wear brake control  |  |
|                           |                     | Dynamic braking through brake resistance   |  |
|                           |                     | S-ramps for smooth acceleration and delay<br>Flying restart circuit, PID controller  |  |
| <b>Safety engineering</b> |                     | Safe torque off (STO)  |  |