

Less means more.

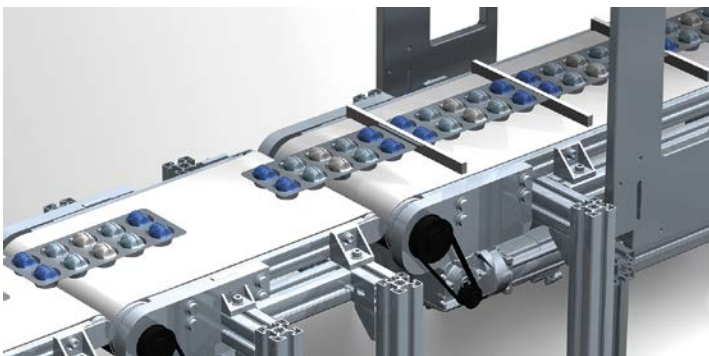


i500 is the new inverter series in the 0.33 to 175 hp (0.25 ... 132 kW) power range. Its distinguishing features: a slim design, scalable functionality and exceptional user-friendliness.

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: 2.36 in (60 mm) wide by 5.12 in (130 mm) deep, with 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. Parameterization 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
Performance data		
Line voltage: 1 AC 120 V		0.33 ... 1.5 hp (0.25 ... 1.1 kW)
Line voltage: 1 AC 230 V	0.33 ... 3.0 hp (0.25 ... 2.2 kW)	0.33 ... 3.0 hp (0.25 ... 2.2 kW)
Line voltage: 1/3 AC 230 V	0.33 ... 3.0 hp (0.25 ... 2.2 kW)	0.33 ... 3.0 hp (0.25 ... 2.2 kW)
Line voltage: 3 AC 230 V	5 ... 7.5 hp (4.0 ... 5.5 kW)	5 ... 7.5 hp (4.0 ... 5.5 kW)
Line voltage: 3 AC 480 V	0.5 ... 20 hp (0.37 ... 15 kW)	0.5 ... 175 hp (0.37 ... 132 kW)
Overload current	200% for short term transient loads, 150% for 60 seconds	
Interfaces	Digital inputs/outputs (5/1), analog inputs/outputs (2/1), relays (optional extension with i550)	
		External 24 V supply PTC/thermal contact input HTL incremental encoder (100 kHz)
	CANopen, Modbus RTU	CANopen, EtherCAT, EtherNet/IP, Modbus RTU, Modbus TCP, PROFIBUS, PROFINET, POWERLINK
		Integrated brake chopper DC bus connection (480 V devices)
Approvals	CE, UL, CSA, EAC, RoHS2, IE2 in accordance with EN 50598-2	
Functions	V/f characteristic control linear/quadratic (VFC plus) Sensorless vector control (SLVC) Energy saving function (VFC-Eco) Sensorless vector control for synchronous motors (up to 60 hp (45.0 kW))	
		Vector control (SC-ASM) with feedback V/f characteristic control with feedback
	DC braking Brake management for low-wear brake control	
		Dynamic braking through brake resistance
	S-ramps for smooth acceleration and delay Flying restart circuit, PID controller	
Safety engineering		Safe torque off (STO)