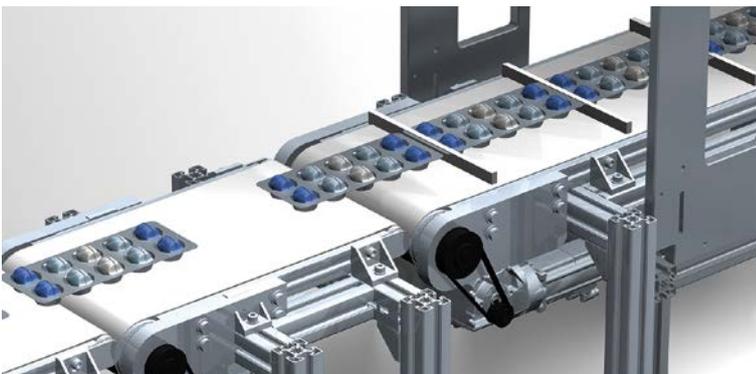i500
Inverter

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.

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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
Performance data	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
Overload current		Mode S1: 150%, mode S6: 200%	
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, IO-Link
			Integrated brake chopper DC bus connection
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) Servo control (SC-ASM) with feedback Sensorless vector control for synchronous motors (up to 22 kW)	
			Vector control 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)

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