

Addressing material handling and logistics applications such as automated warehousing, airport baggage handling and postal and parcel centers, Lenze provides automation solutions. Some of the latest technologies include:



- **FAST Robotics Modules** allow a pick-and-place or complex movement to be as easy to position as a single-axis movement task. The standardized and reusable robotics software modules are a supplement to Lenze's FAST application toolbox for automation and control designs. Using the complete robotic modules from Lenze FAST, mechanical engineers can quickly integrate kinematics into machines tailored to specific material handling tasks. By blending expertise in robotics and motion control, Lenze FAST robotics modules eliminate requirements for proprietary systems and complex interface programming for path planning. The new robotics software modules make it easy to integrate robots into an overall automation system and control them accordingly.
- **Lenze's Smart Motor** offers a highly versatile and powerful package, delivering maximum standardization and drastically reducing (by up to 70 percent) the number of different motor variations customers might otherwise need. Equipped with control intelligence in the terminal box, the Smart Motor provides design flexibility for speeds from 500 to 2,600 rpm, while maintaining constant torque. The easy-to-install motor enables mains and starter applications to be handled with greater ease than with conventional motors. The Smart Motor complies with IES2, the top efficiency class for drive systems, while maintaining a small footprint. Among its standard functions, the Smart Motor enables speed switchovers and the ability to set individual start-stop ramps. Integrated ramps ensure smooth acceleration and deceleration to protect the system mechanics and product being handled. The Smart Motor features full motor protection, eco mode for energy savings, and digital outputs for speed selection, direction and status messages.
- A powerful, compact drive unit - the **g500 gearbox with the Lenze Smart Motor** - delivers motor speed transformed into torque as intelligently and accurately as possible. The finely tiered series of g500 gearboxes enable efficiency of over 94 percent across the entire transmission range. The new g500 gearboxes minimize losses, so the motor can generate less energy, improving the bottom-line efficiency of the entire system. The lower level of generated heat increases the overall service life.

For over 60 years, Lenze has delivered innovations that increase productivity and ensure reliability. "A committed approach is Lenze's foundation - we work to create the best possible solution and set ideas in motion for optimizing an existing machine or developing a new one," said Doug Burns, director, business development at Lenze. "