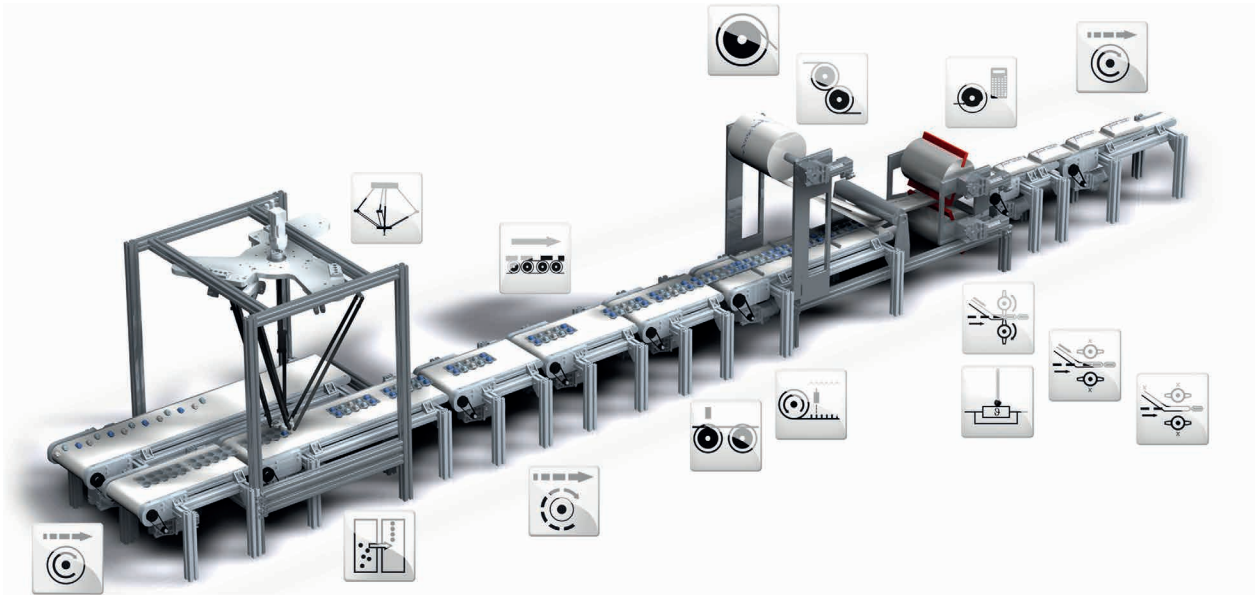


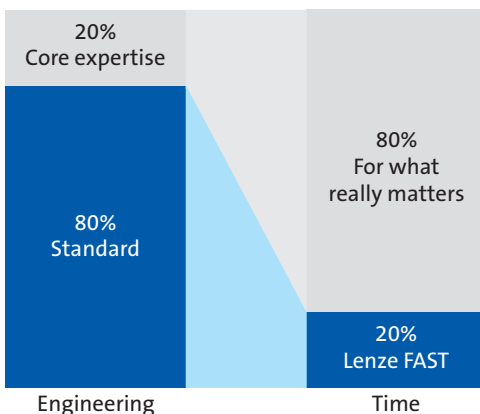
# The easy way to develop something special.



Software is becoming increasingly important in developing machines as mechanical engineers are focusing more attention on efficient processes for creating the applications they need. Lenze's standard software modules make it easy to develop modular mechanical control by simply adding the modules using the application template.

## Highlights

- Up to 80% of software engineering requirements are covered by Lenze FAST
- Significant reduction in development times for basic functions
- The time saved here can be invested in further developing the machine's special features.
- Pre-configured and tested software modules which are easy to re-use
- Structured programming layout via the Application Template
- Error reduction thanks to tested software

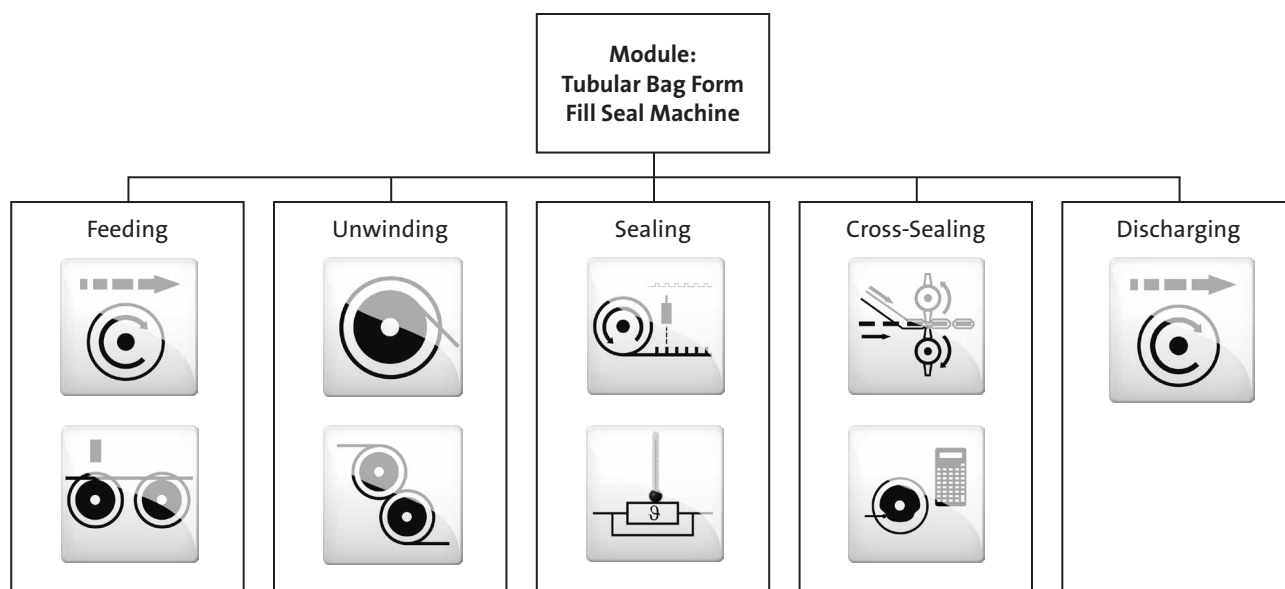


# The modules for your machine

## Modular programming

When using FAST, automation specialists can work the way they are used to – with a basic architecture. The functions are encapsulated in the individual modules.

The modules are autonomous and can easily be exchanged and tested completely independently. This makes engineering fast, easy and reliable.



Lenze FAST	Description
Basic Motion	Basic functions for the drive
Virtual Master	Basic module for general machine tasks, virtual master axis in the machine
Electrical Shaft Position	Positioning products, positionally-accurate synchronisation and coupling of axes
Electrical Shaft Velocity	Synchronism across multiple stations, speed-accurate synchronisation and coupling of axes
Winder Tension	Tension-controlled winding and unwinding of material, with and without sensor
Winder Dancer	Dancer-controlled/regulated winding and unwinding of material, with and without sensor
Table Positioning	Table positioning for approaching several predefined positions with precision
Cross-Sealing/Cutting	Synchronised movement of drives for cross-sealing and/or cross-cutting of products
Register Control	Register control with pressure-mark detection
Flying Saw	Cutting of workpieces as they pass through
Flex Cam	Flexible management of curves created online and offline
SmartTrack	Single-step conveyors for establishing correct product spacing
MagicTrack	Multi-chain control for grouping and further packaging of products
Temperature Control	Intelligent temperature control for the production process