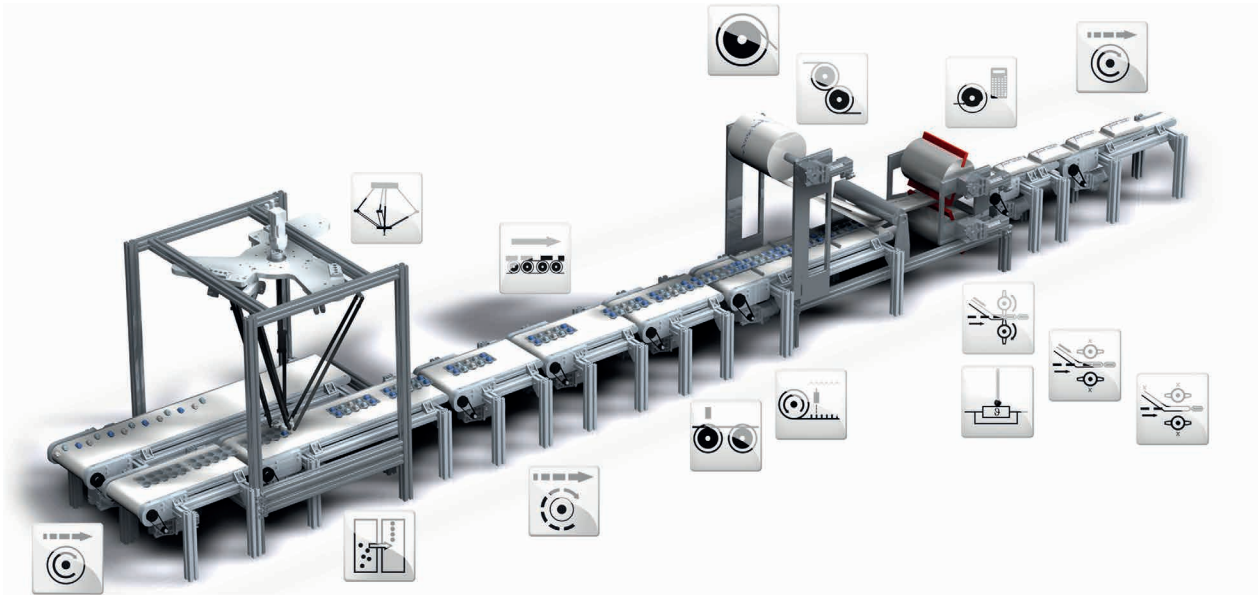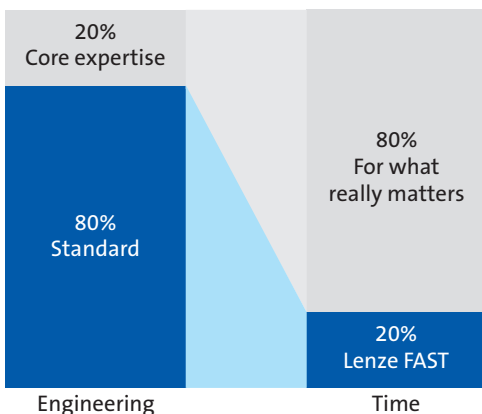# The easy way to develop something special.



**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
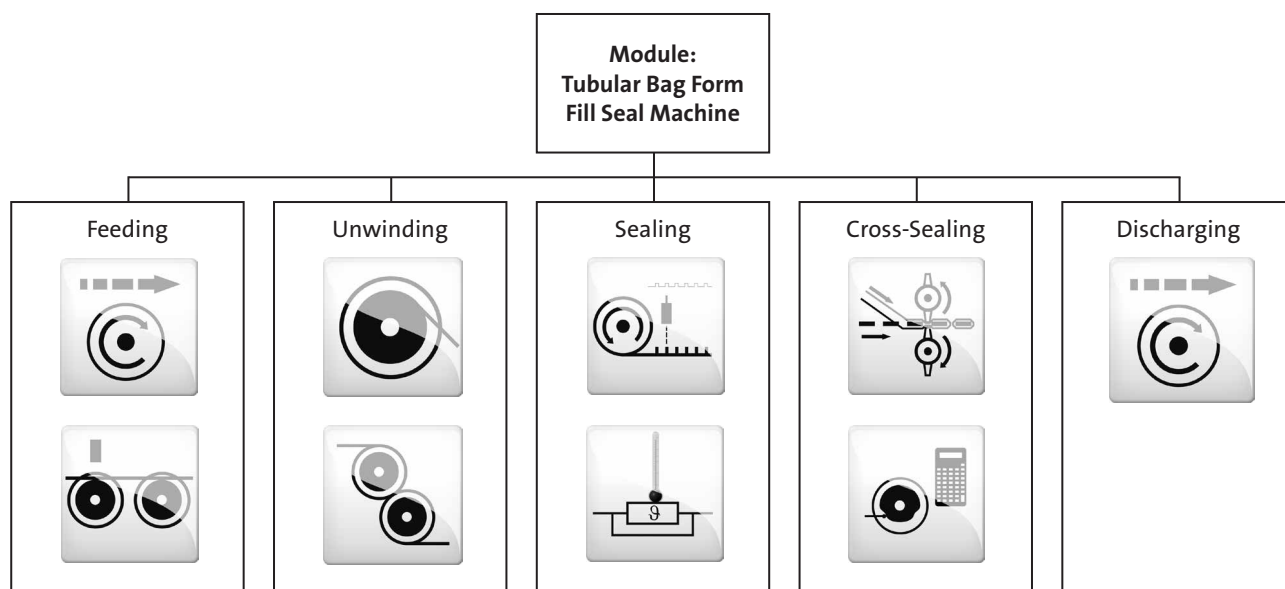- Error reduction thanks to tested software



20%
Core expertise

80%
For what really matters

80%
Standard

20%
Lenze FAST

Engineering

Time

**Lenze**

# 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.

```
                    Module:
                Tubular Bag Form
                Fill Seal Machine
```

| Feeding | Unwinding | Sealing | Cross-Sealing | Discharging |

| 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 |