

News and Innovations 02/2026

HELIBAR® single-screw extruders

## More efficient extrusion: Higher performance, less effort.

HELIBAR® single-screw extruders provide processors with a high-performance solution for the production of pipes, hoses, profiles, medical products, cables and multilayer applications.

**Compared to conventional smooth-barrel extruders, HELIBAR® single-screw extruders operate significantly more efficiently.**

They enable higher throughput, improved melt quality and lower processing temperatures while reducing wear and energy consumption.



### Your benefits at a glance:

**+ High process stability:**

A constant flow rate that is independent of back pressure, even at high mold pressures, ensures consistent quality and reduces scrap.

**+ Energy-efficient and cost-effective:**

Reduced friction in the feed zone lowers energy consumption, cooling requirements and start-up loads.

**+ Low-maintenance and durable:**

Reduced wear extends service life. High-quality materials and coatings enable the processing of demanding materials.

**+ Simple and intuitive operation:**

- Touchscreen operation
- Recipe management
- automatic ramp functions
- Trend displays
- Alarm management
- Remote maintenance via Ethernet
- easy data acquisition and process monitoring

**+ Versatile for a wide range of materials:**

- PE, PP, TPU, ABS, PET, PVC
- Regranulates, flakes
- Glass-fiber-reinforced materials
- filled materials
- Multilayer and specialty materials

**+ Retrofit instead of new investment:**

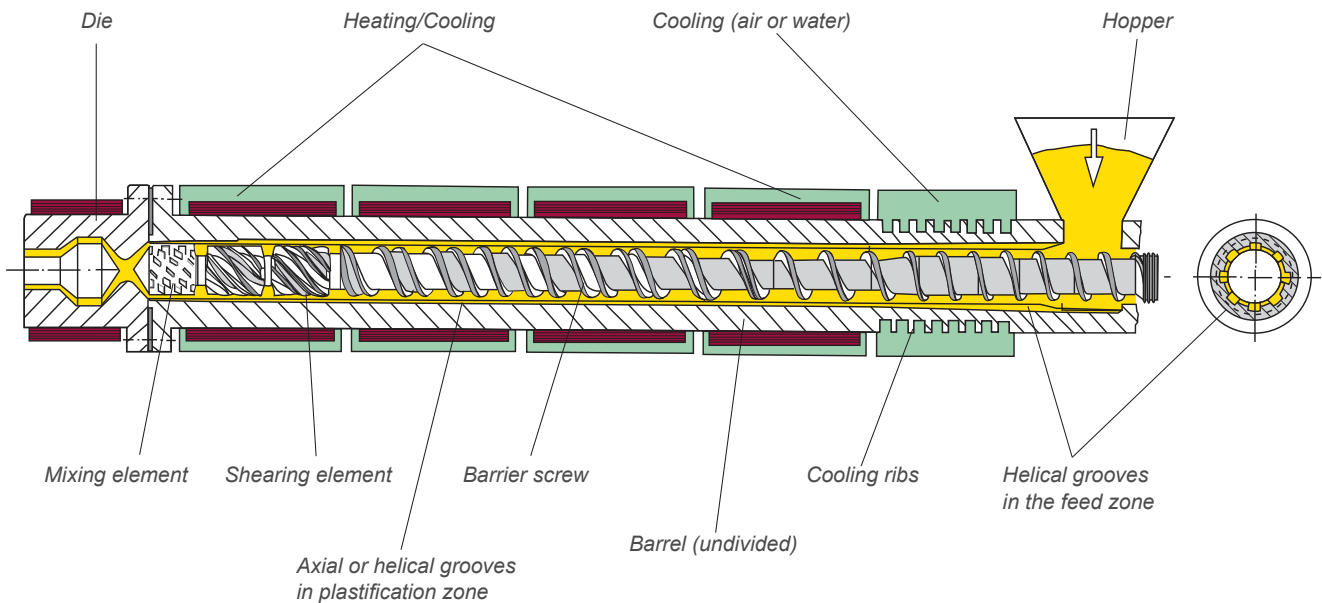
Existing systems can be easily modernized with HELIBAR® process units.

**+ Service and Support:**

- Commissioning
- Training
- Maintenance support
- fast spare parts delivery
- technical consulting

## The principle:

What makes HELIBAR® technology unique is the combination of grooved feed zones, special plasticizing cylinders with axial or helical grooves and barrier screws with shearing and mixing elements.



### HELIBAR® systems are used worldwide for:

- Medical and catheter tubing
- Plumbing and automotive pipes
- Multilayer pipes
- Cable jackets
- Technical Profiles
- Corrugated pipes
- Hot-melt applications
- Custom Solutions and Co-Extrusions

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