



Screw Experts

precision-engineered upgrades your extrusion system



NANJING·CHINA

T. +86-25-52779188 E. info@lesunscrew.com

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www.lesunscrew.com

Focus–
SERVE GLOBALLY

ABOUT LESUN



From Nanjing to the Global Horizon: As a rising Chinese manufacturing enterprise since 2004, LESUN Screw has specialized in the manufacturing and customized development of core components for twin-screw extruders. Our clients include world-leading manufacturers in modified plastics, recycled plastics, food, pharmaceutical, powder coatings, feed processing and other industry. Together with our global partners, we empower sustainable production processes that touch the lives of 7 billion people worldwide.

For two decades, Lesun Screw have symbolized top-tier products, future-proof technology, and unwavering reliability. From design and development, manufacturing, and quality control to sales, our expert engineers and technicians can rapidly respond and prototype products to meet delivery requirements. This positions Lesun Screw as a leader in the field of core components for twin-screw extrusion compounding and modification equipment.

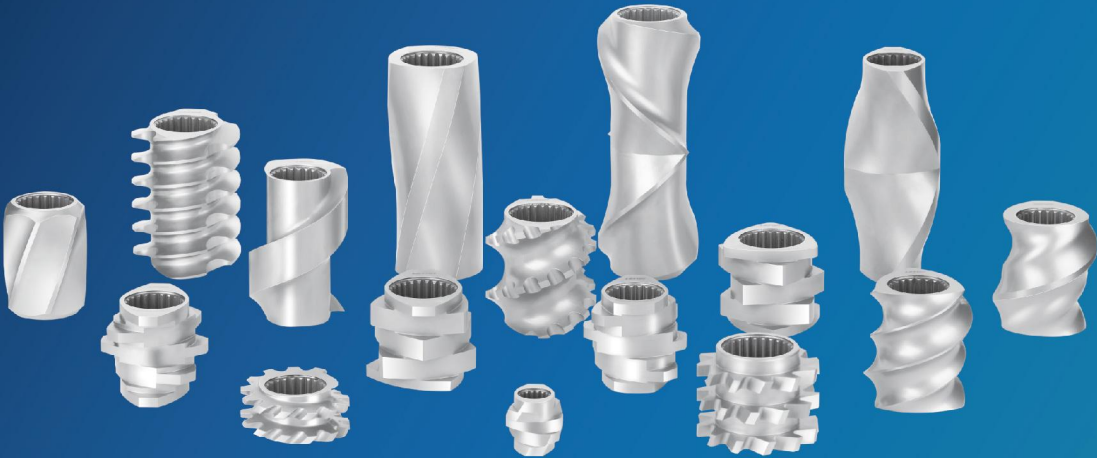


PRAGMATISM, INNOVATION AND CONTINUOUS IMPROVEMENT

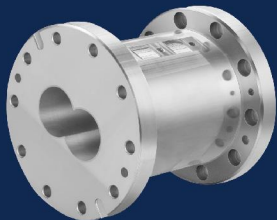
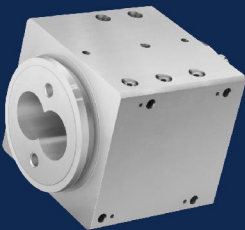
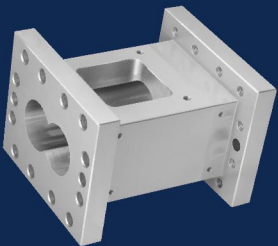
You can rely on Lesun's complete system. Our screw processing database not only ensures fast and stable product delivery, but also develops customized solutions to meet high-standard requirements for wear and corrosion resistance. This is our commitment to providing high-quality Lesun manufacturing products to global customers.



FOCUS . Serve Globally



- Compatible with 30+ brand machines
- Coperion、Leistritz、Berstorff、Toshiba、JSW、Keya、Kobe、APV、Maris、B&P、Theysohn、Century、Cletral、Comac、Entek、ICMA、Kobelco、OMC、SM、Buhler、Steer、Jwell、Useon...



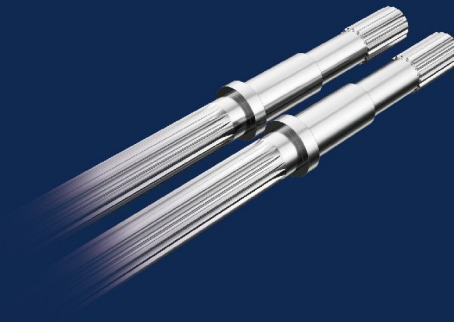
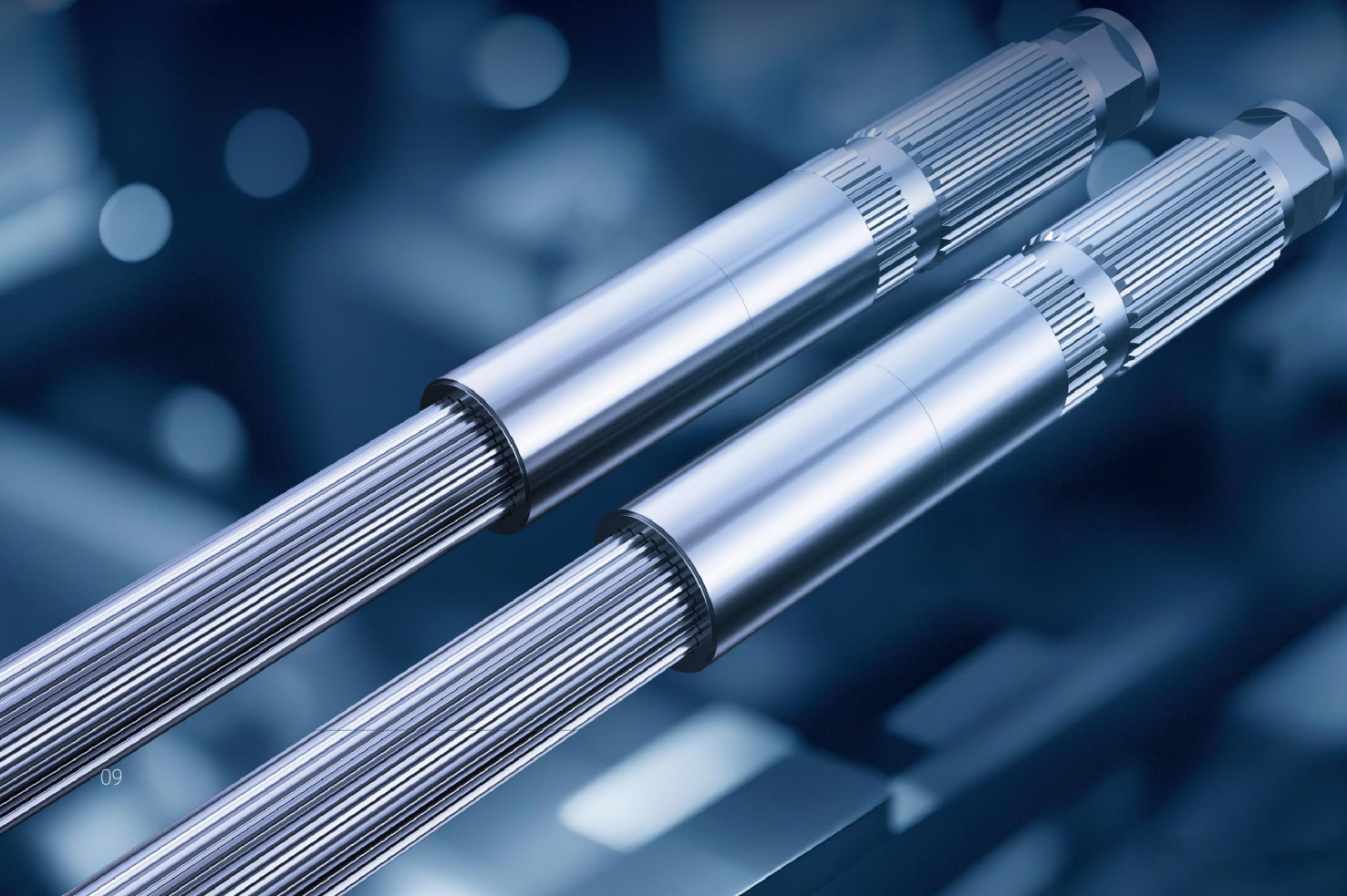
Screw Element

- Range from $\Phi 18$ - $\Phi 400$
- Covers 1,000+ screw element specifications
- Proficient in 10+ powder alloy processes
- Integrated petrochemical granulation plant
- Innovative screw element design & development
- Multi-variant small-batch production with rapid delivery
- $\Phi 100$ + capable screw element mass production & delivery capability

Screw Barrel

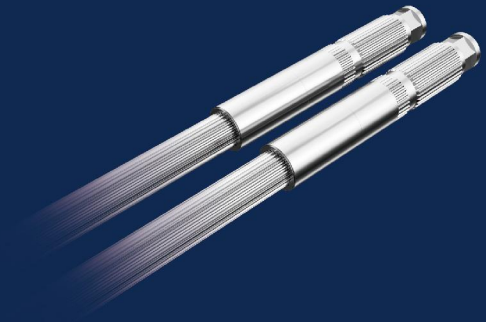
- Differential cooling channel design methodologies
- Engineering design and manufacturing of barrels with diverse heating methodologies
- Engineering design and manufacturing of barrels with diverse connection methodologies
- Engineering design and manufacturing of barrels with varied cross-sectional geometries
- 10+ base material & bushing wear/corrosion resistant solutions
- Engineering design and manufacturing of split-type barrels
- Design and manufacturing of barrels with selectable 1D-12D dimensional specifications
- A wide range of plugs customization services

SHAFT SPLINE MANUFACTURING STEPS INTO THE COLD FORMING ERA



Screw Shaft

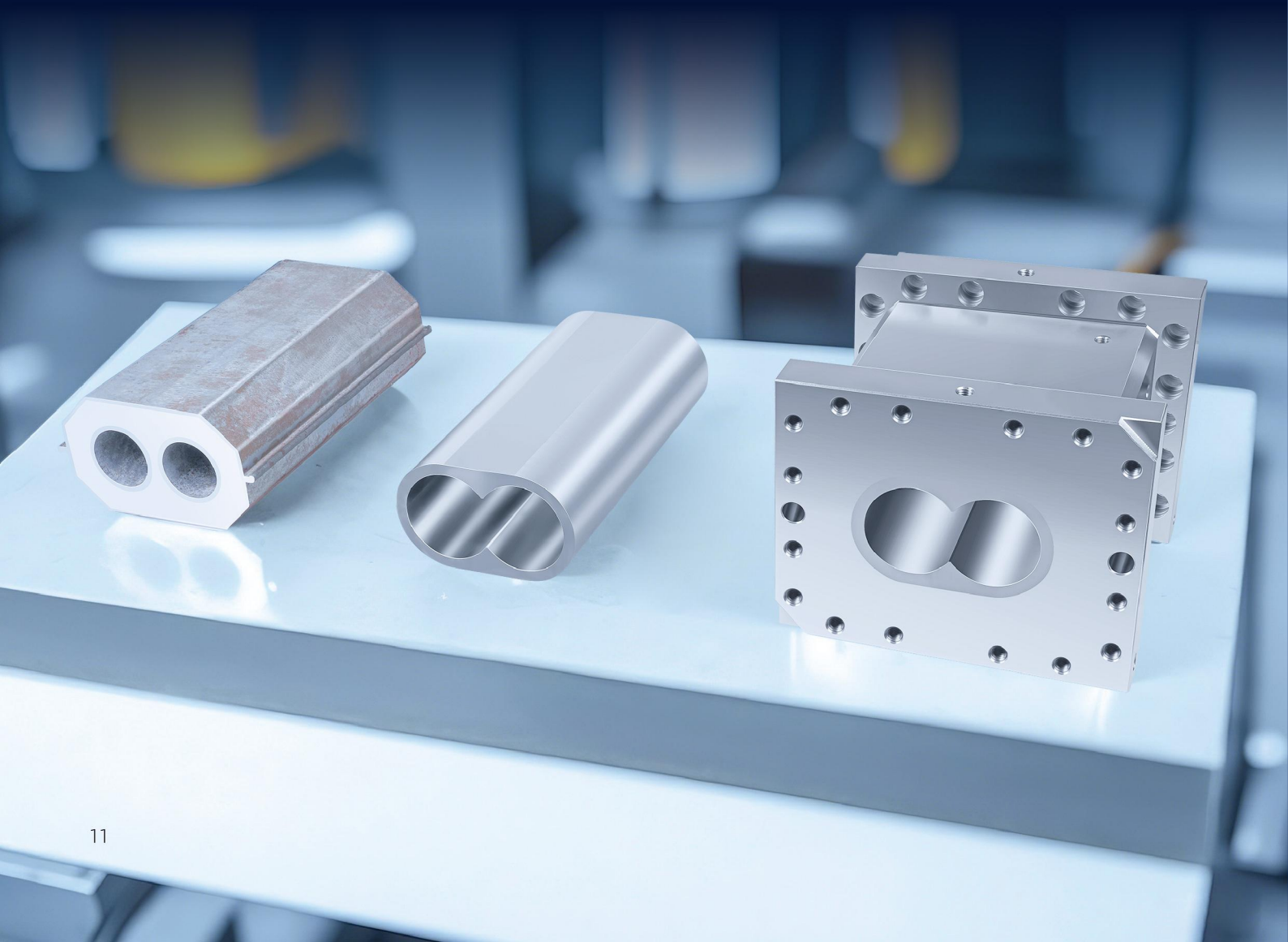
- Various spline types (single key, rectangular, hexagonal, involute)
- Diameter range 10~200mm
- Machinable length range 1-12 meters
- Customized service of various coupling
- Available in a variety of materials for torque grades 5-18



Cold forming technology (Non-milling process)

- Maximum load torque capacity of **18 Nm/cm³**, ensuring longer service life
- Higher machining accuracy and consistency, eliminating screw assembly errors
- High-pressure plastic deformation of materials achieves higher strength
- Better spline surface roughness
- Uniform stress distribution effectively enhances fatigue resistance

CORROSION & WEAR RESISTANCE



Wear and corrosion resistant screw barrel

	Material code	Material	Process	Hardness	Wear	Corrosion
SCREW ELEMENT	N00	Nitrided steel	Surface hardened	HV950-1050	★	★★
	D2	Die steel	Through hardened	HRC58-60	★★	★
	W6	High-speed tool steel	Through hardened	HRC60-62	★★★	★
	H9	Powder metallurgy alloy steel	HIP	HRC59-61	★★★★	★★★★
	H10	Powder metallurgy alloy steel	HIP	HRC60-62	★★★★★	★★★
	H26	Powder metallurgy alloy steel	HIP	HRC60-62	★★★★	★★★★★
	SUS	Stainless steel	Solid-solution	HRC52-54	★	★★(★)
BARREL SLEEVE	D11	Die steel	Through hardened	HRC58-60	★★	★
	W6	High-speed tool steel	Through hardened	HRC60-62	★★★	★
	H6+	Nickel-based alloy with tungsten carbide	Sintering	HRC52-55	★★(★)	★★★★
	H26	Powder metallurgy alloy steel	HIP	HRC60-62	★★★★	★★★★★

QUALITY DNA ENGRAVED IN EVERY PRODUCTION PROCESS



Through cross-validation of five critical inspection dimensions, we have established a full-life-cycle quality control network covering “material structure-mechanical properties-processing precision”, ensuring every product withstands the scrutiny of electronic magnifiers and the test of time.