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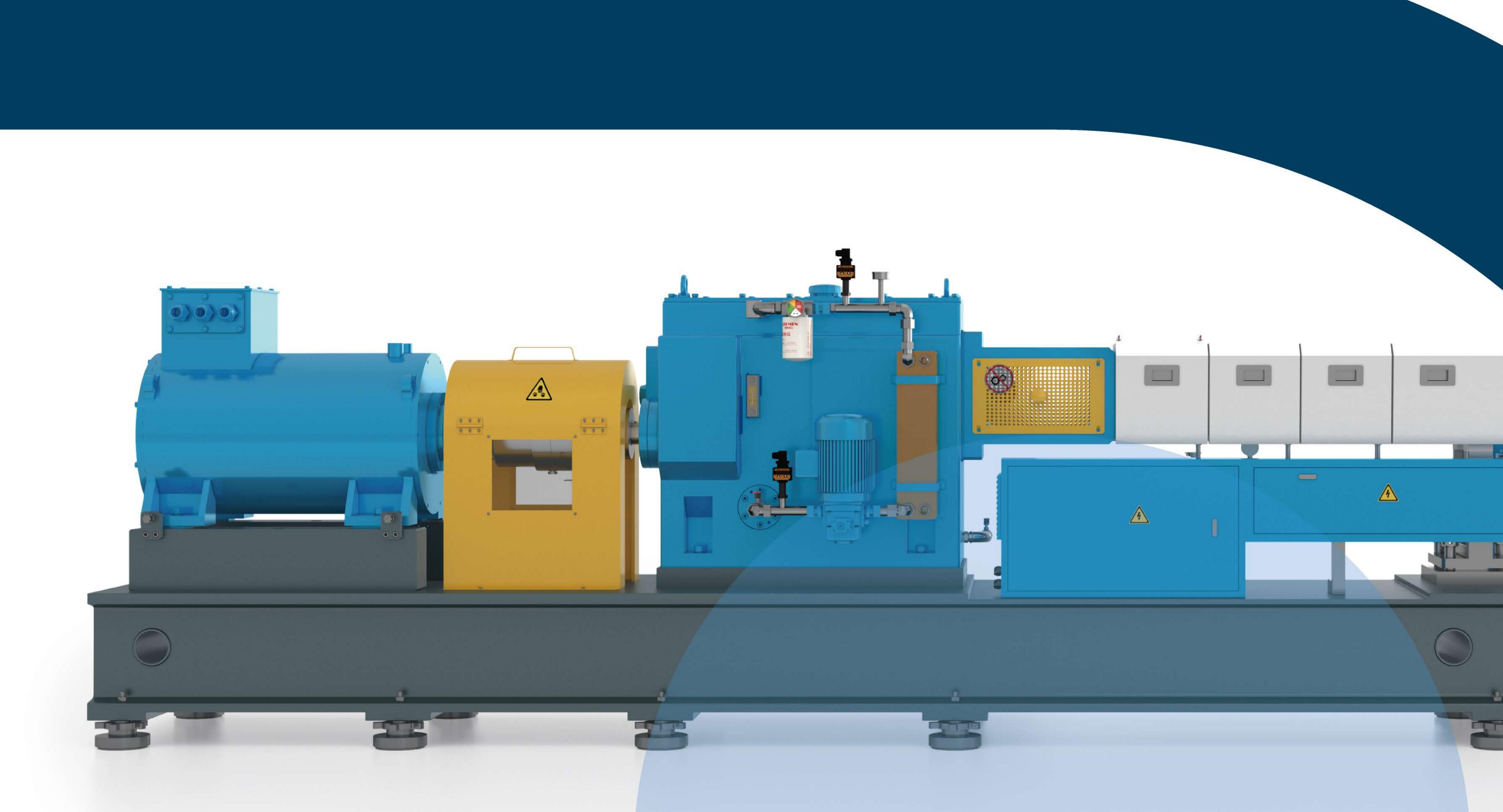


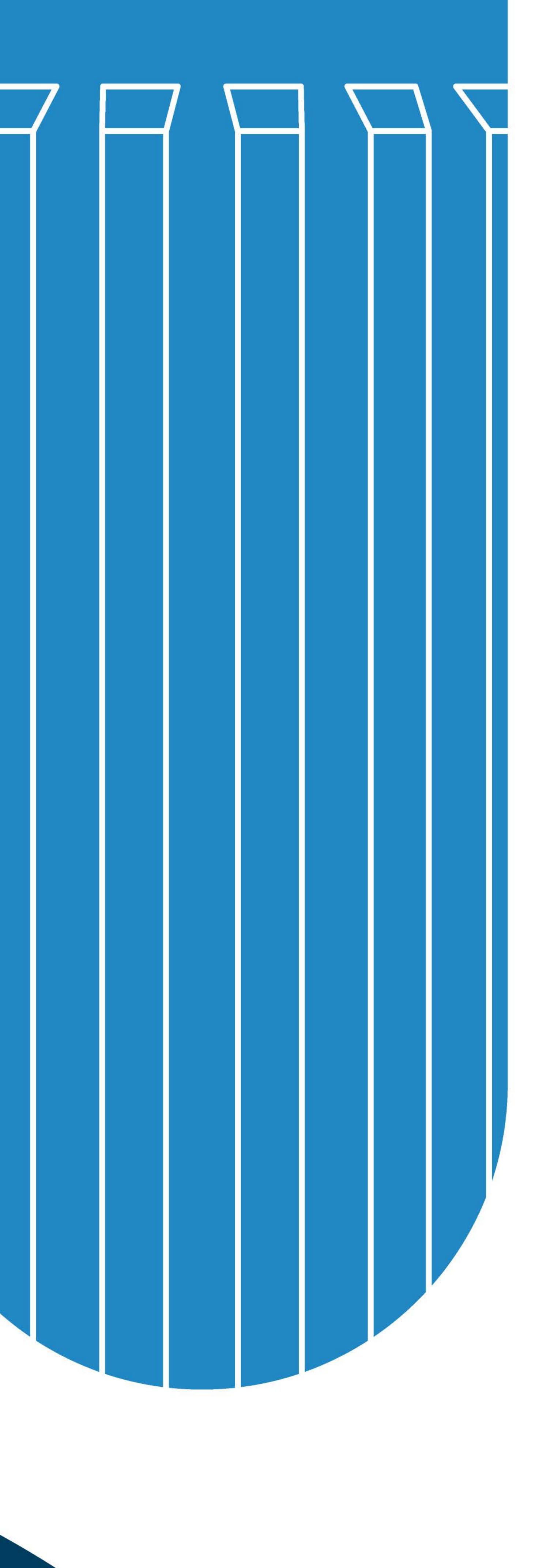


# 

Kunwei is committed to providing you with the most suitable high-performance extruders,.

We deliver outstanding experience to you and your polymers:)





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## How to Define

# A High Performance Extruder

07

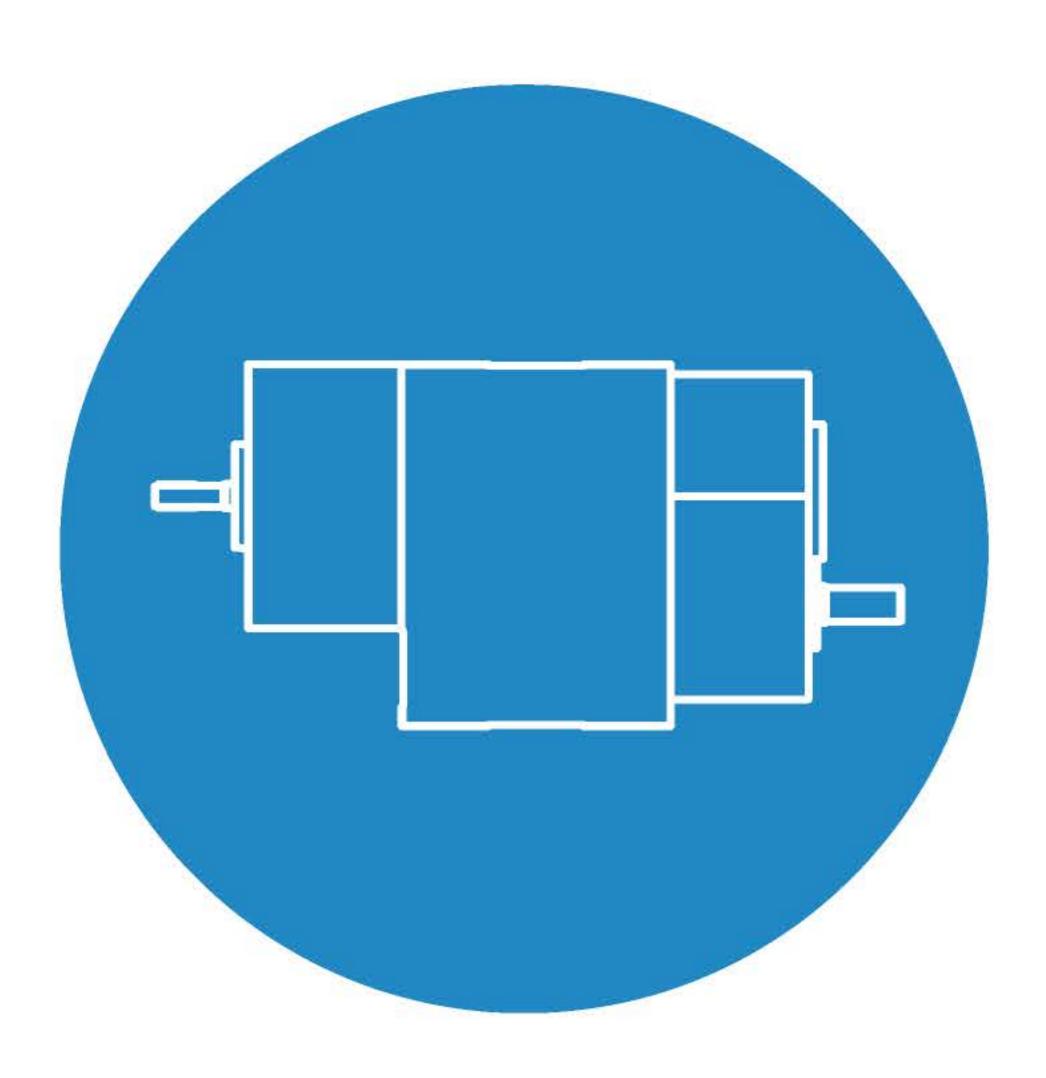
### High Specifications

- Specific torque 14N·m/cm<sup>3</sup>
- Max. screw speed 1200rpm
- Max. process temp ≥ 450°C

02

### **High Stability**

- Proven design
- High quality components
- High precision assembly



03

### **High-End Materials**

- Wear and corrosion resistance
- Strict heat treatment
- Super long service life



#### High Intelligence

- Unique intelligent control
- Auto-tuning temperature control
- Flexible and customizable

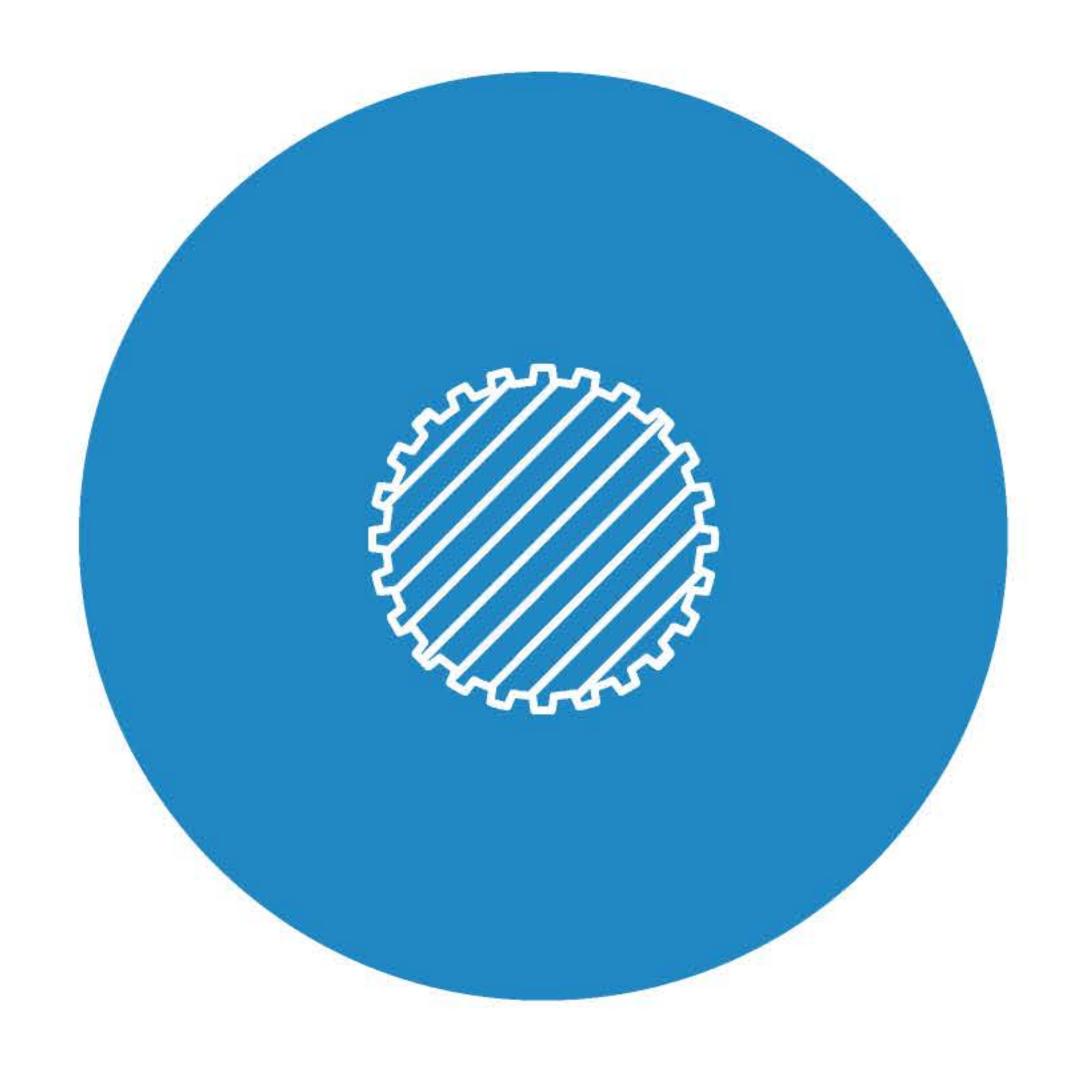
#### Gearbox

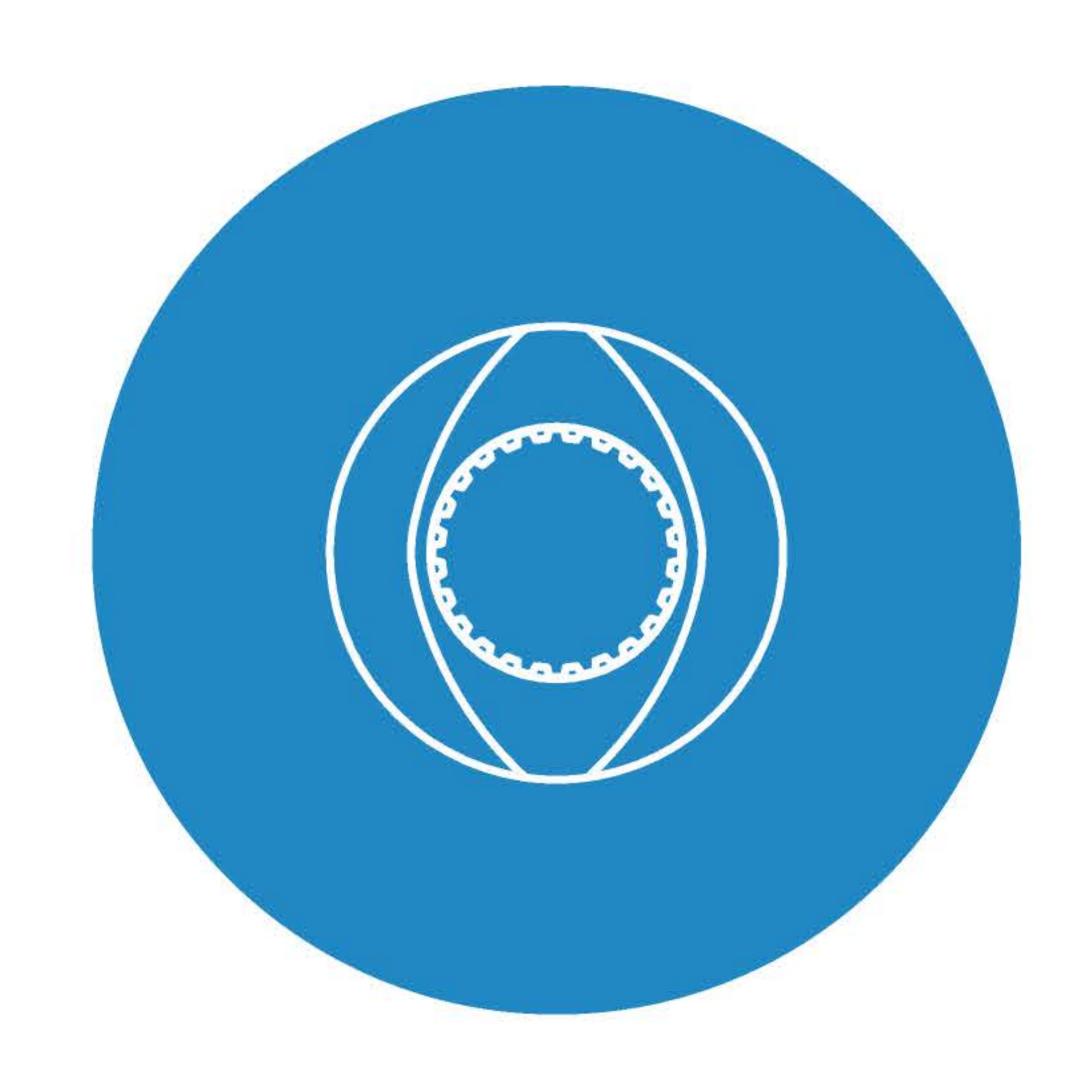
- Made in-house
- Balanced torque transmission
- Claasic 4-layered structure
- 3-year warranty

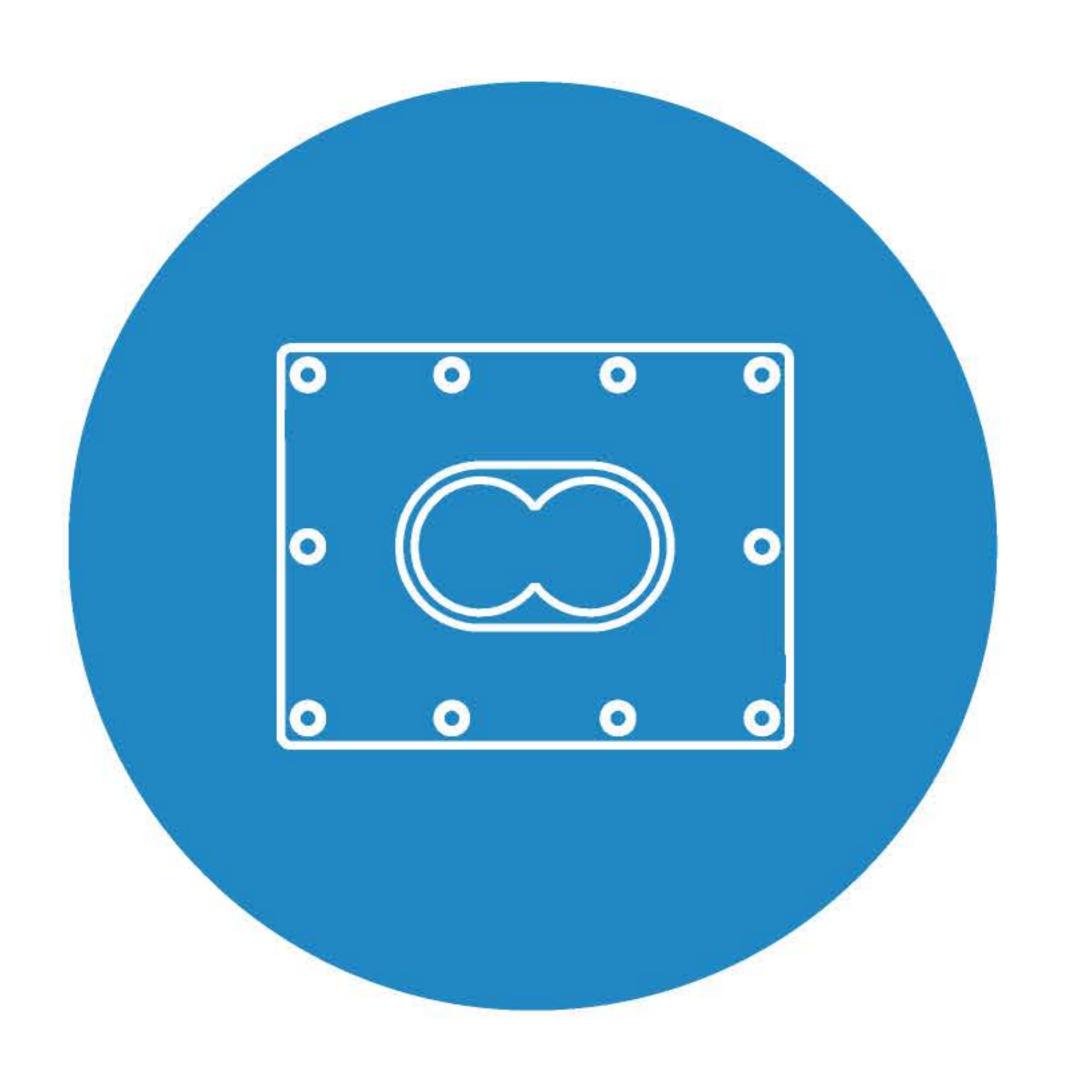


# **Exquisite Details in Key Components**

## **Exceptional Performance for Success**







#### Shaft

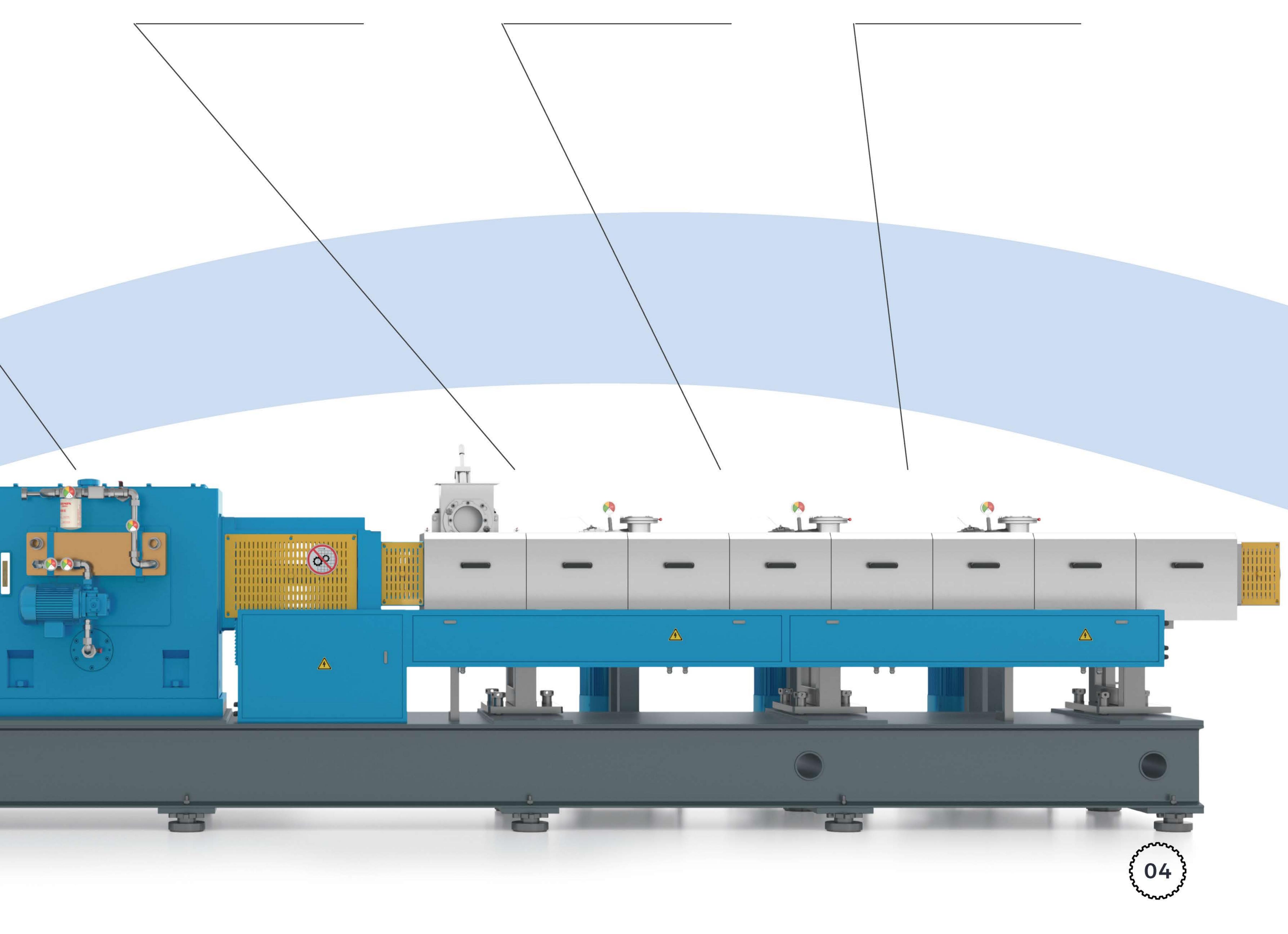
- Exclusively developed special material
- Explore new territory of torque
- Guaranteed safety margin
- Superior high-temp performance

#### Screw Element

- High-accuracy shape
- Special design for extralarge process window
- Match splined shaft perfectly

#### Barrel

- State-of-the-art manufacturing
- Superb straightness of process section
- Minimized step between barrels
- CMM data for each barrel available



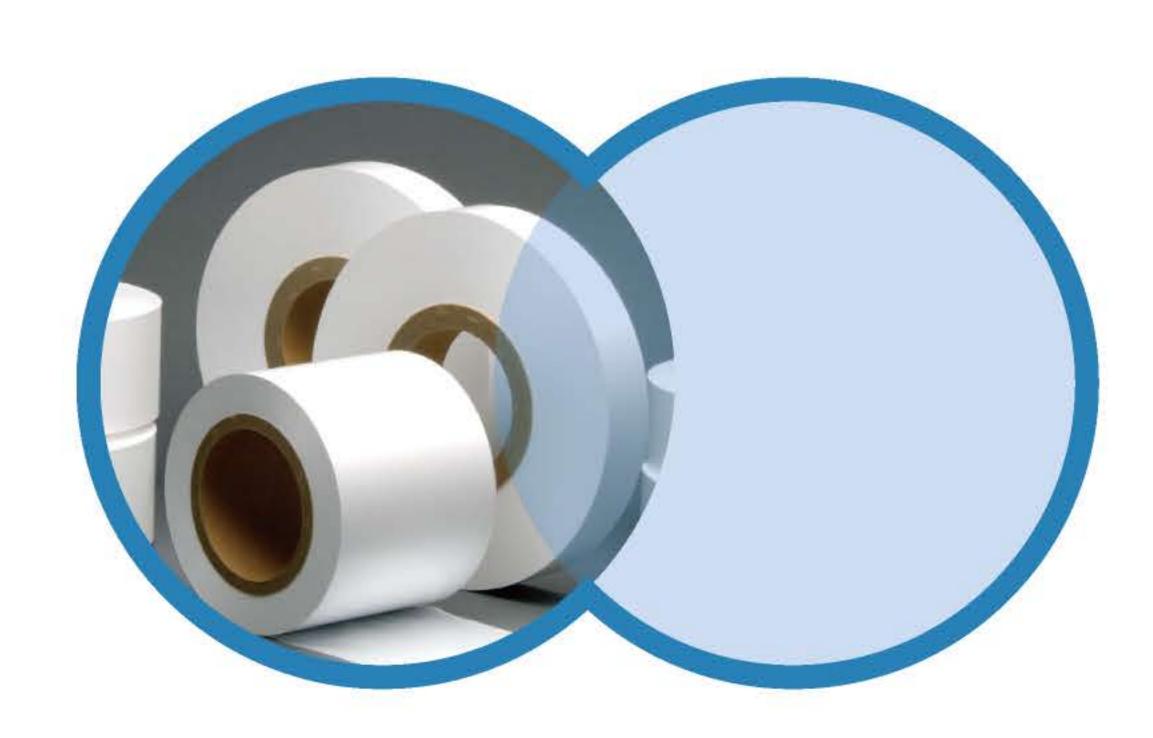
# Process - Top Priority

Twin screw extruders are used for various applications with widely different processing characteristics.

A tailored solution is the prerequisite for sucessful operation.

With years of industry experience and top technical resources, we are your competent partner to solve the mystery of process.





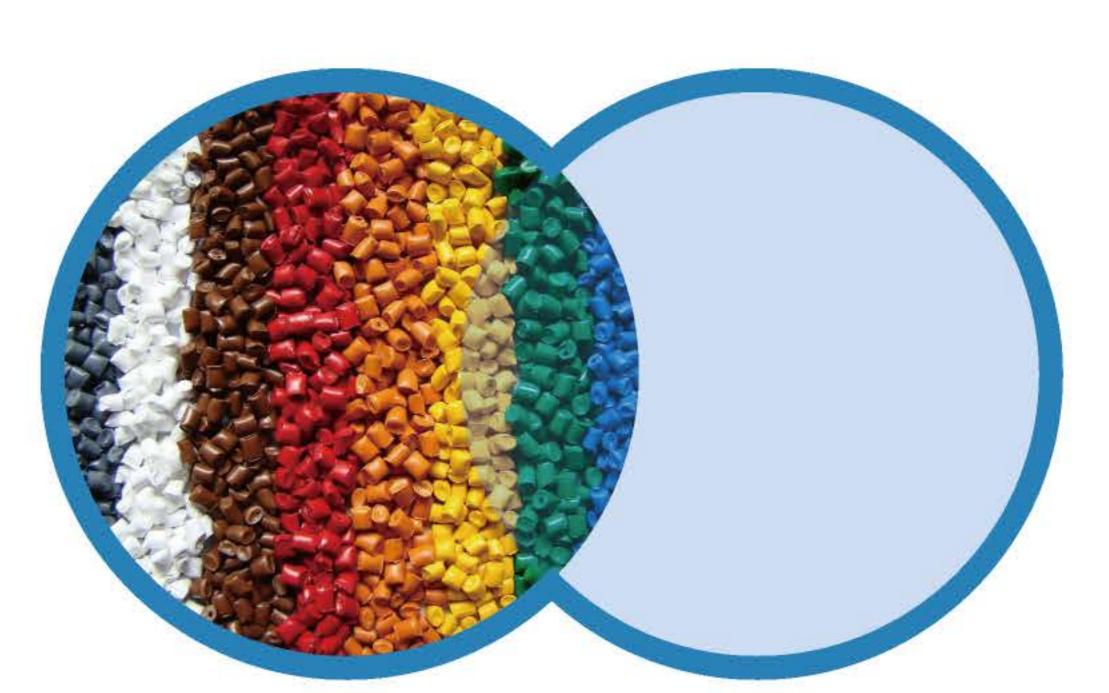
#### Lithium Battery Separator Film

- Special compounding system
- Crucial up- and downstream design
- Minimized gels and black spots
- Better melt, better film



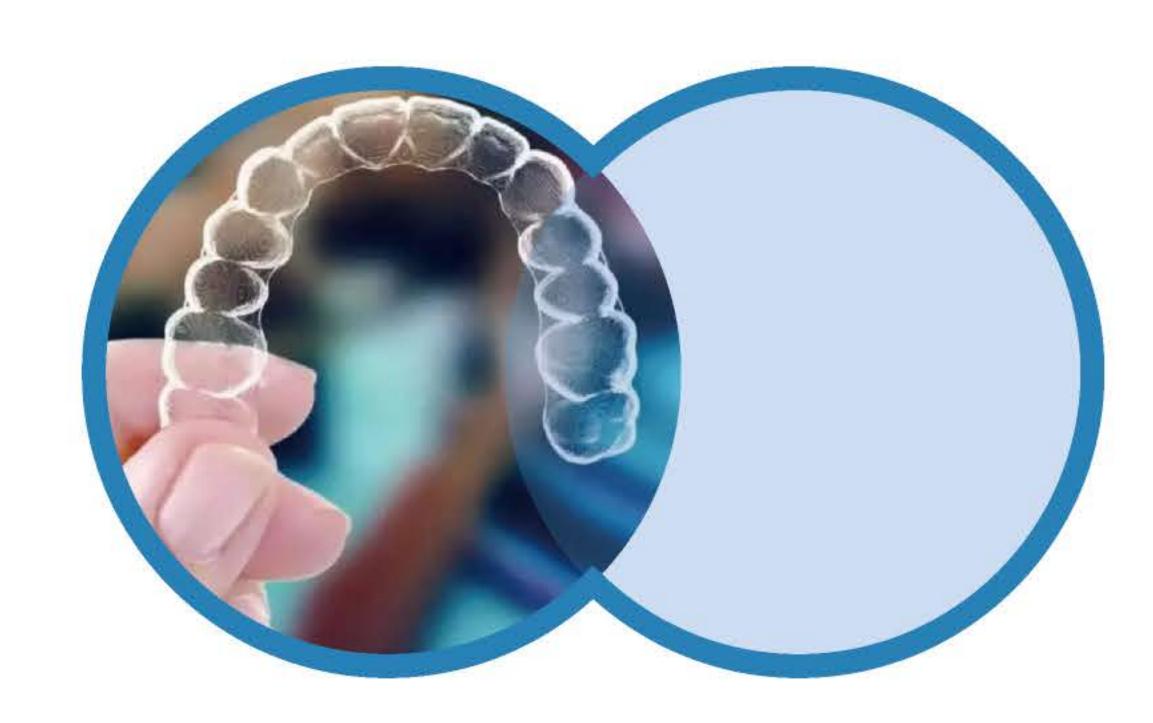
#### **BO Films**

- High reliability
- High throughput
- Efficient devolatilization
- Stable pressure



#### Masterbatch

- Superb dispersion
- Optimized shear-rate results in lower melt temperature
- Attention to details



#### **TPU Reactive Extrusion**

- Narrow residence time distribution
- Strong cooling and heating
- Sufficient mixing of additives



#### Special Engineering Plastics

- Wear and corrosion resistant process section
- Extended process window
- Performance well maintained in high temperature



#### **HME for Pharmaceuticals**

- Excellent dispersion and distribution of API
- Precise temperature control
- Easy cleaning

## Optimize Your Process

Kunwei's lab offers capabilities for advanced trials.

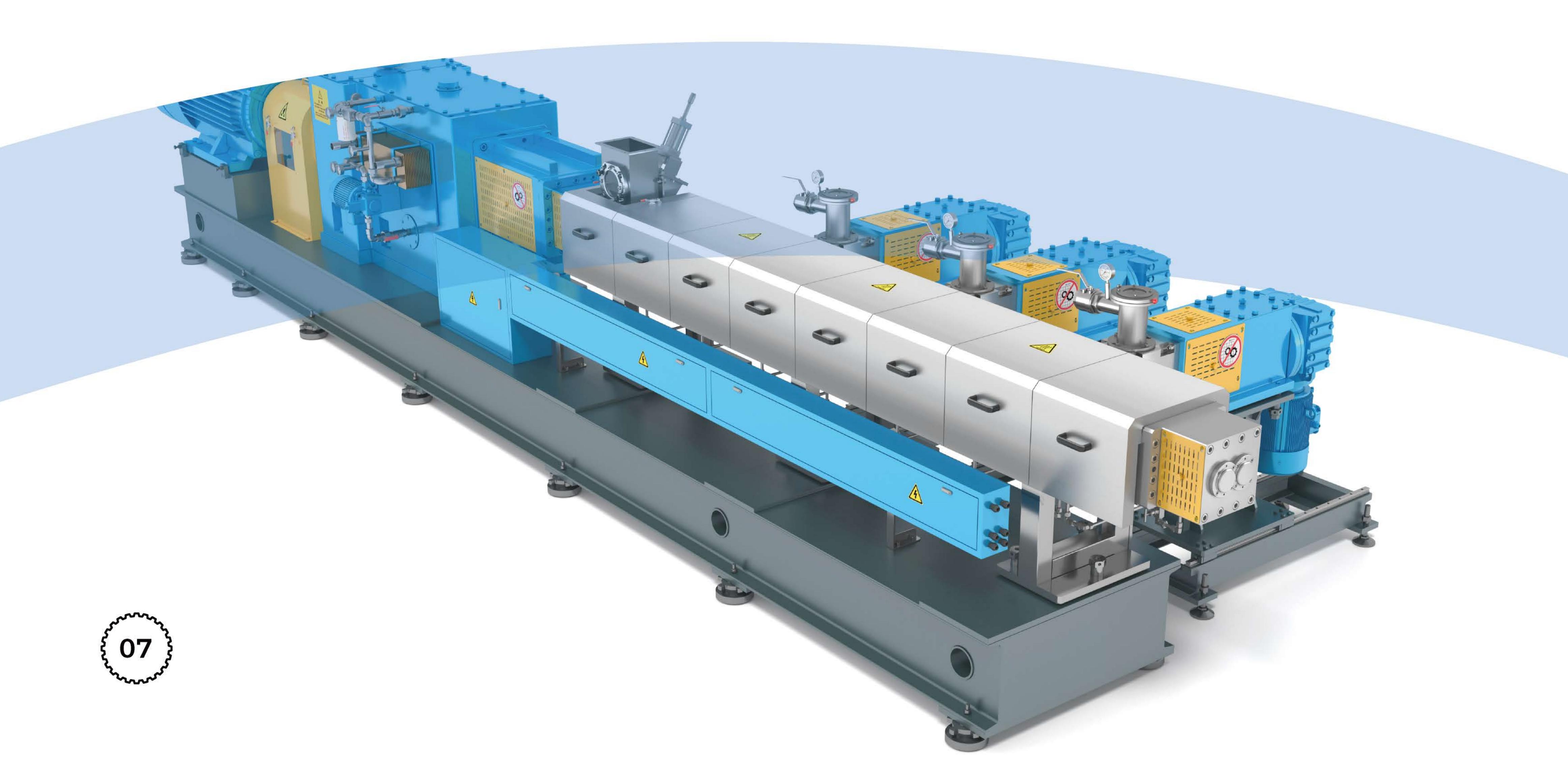
Scale up is ensured by our vast experience.

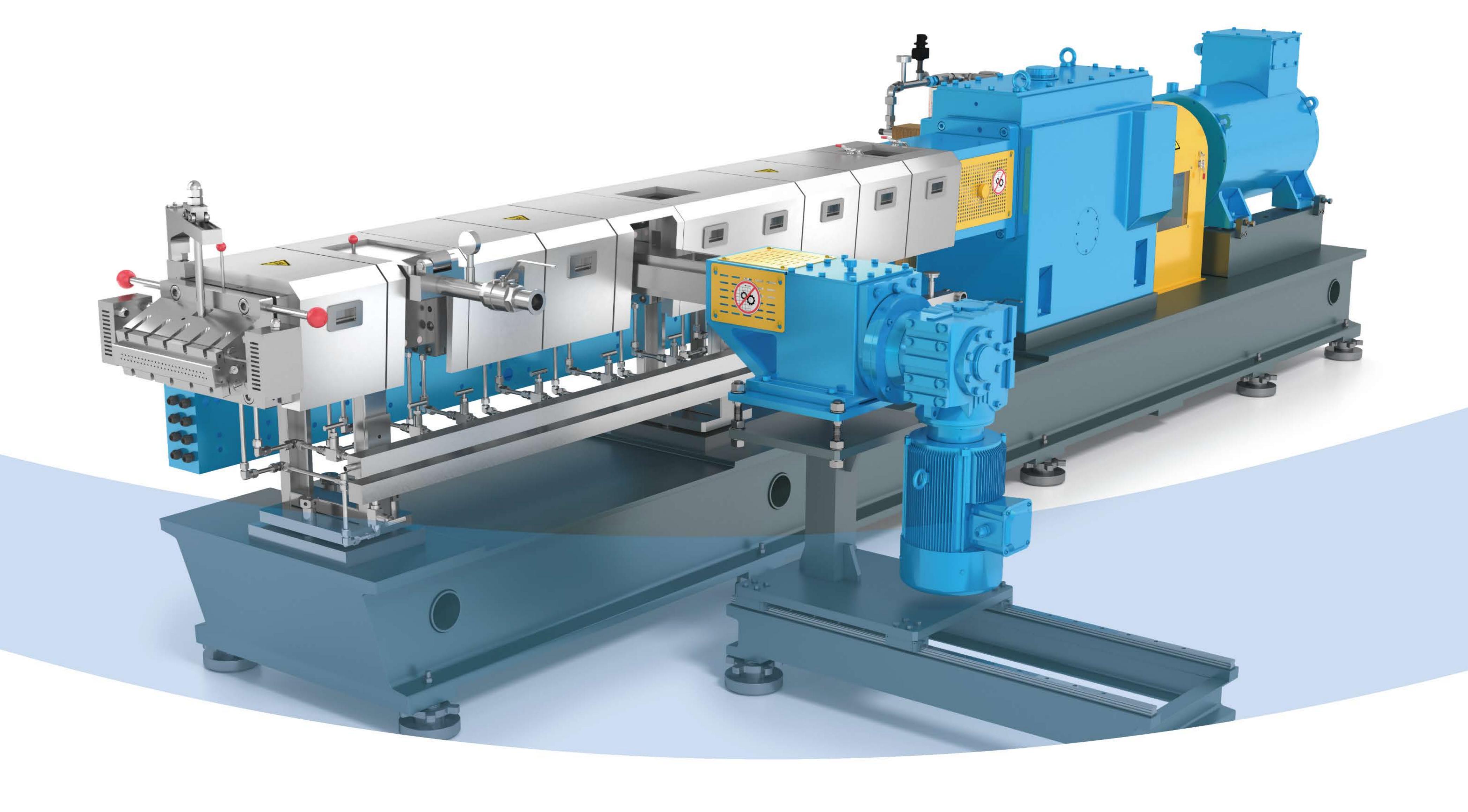
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# KTS High Performance Series Specifications

Model	Ratio [Do/Di]	Specific Torque [Nm/cm³]	Max. Speed [rpm]	Max. Torque [Nm]	Max. Motor Power [kW]
KTS 27	1.52		1200	2x120	30
KTS 35	1.51	13.5	1200	2x 358	90
KTS 50	1.55	14	1200	2x 995	250
KTS 65	1.55	14	900	2x 1883	355
KTS 75	1.51	14	900	2x 2918	550
KTS 96	1.55	14	600	2x 6367	800
KTS 110	1.55	14	400	2x 10744	800
KTS 135	1.55	14	400	2x 16713	1400
KTS 145	1.55	14	300	2x 22283	1400
KTS 175	1.55	14	300	2x 38200	2400





Model	Ratio [Do/Di]	Specific Torque[Nm/cm³]	Max. Speed [rpm]	Max. Torque [Nm]	Max. Motor Power [kW]
KTD 35	1.68	11.3	1200	2x 298	75
KTD 50	1.68	11.3	1200	2x 843	250
KTD 65	1.68	11.3	900	2x 1671	315
KTD 75	1.68	11.3	900	2x 2445	450
KTD 96	1.68	11.3	600	2x 5457	700
KTD 110	1.68	11.3	400	2x 8953	800

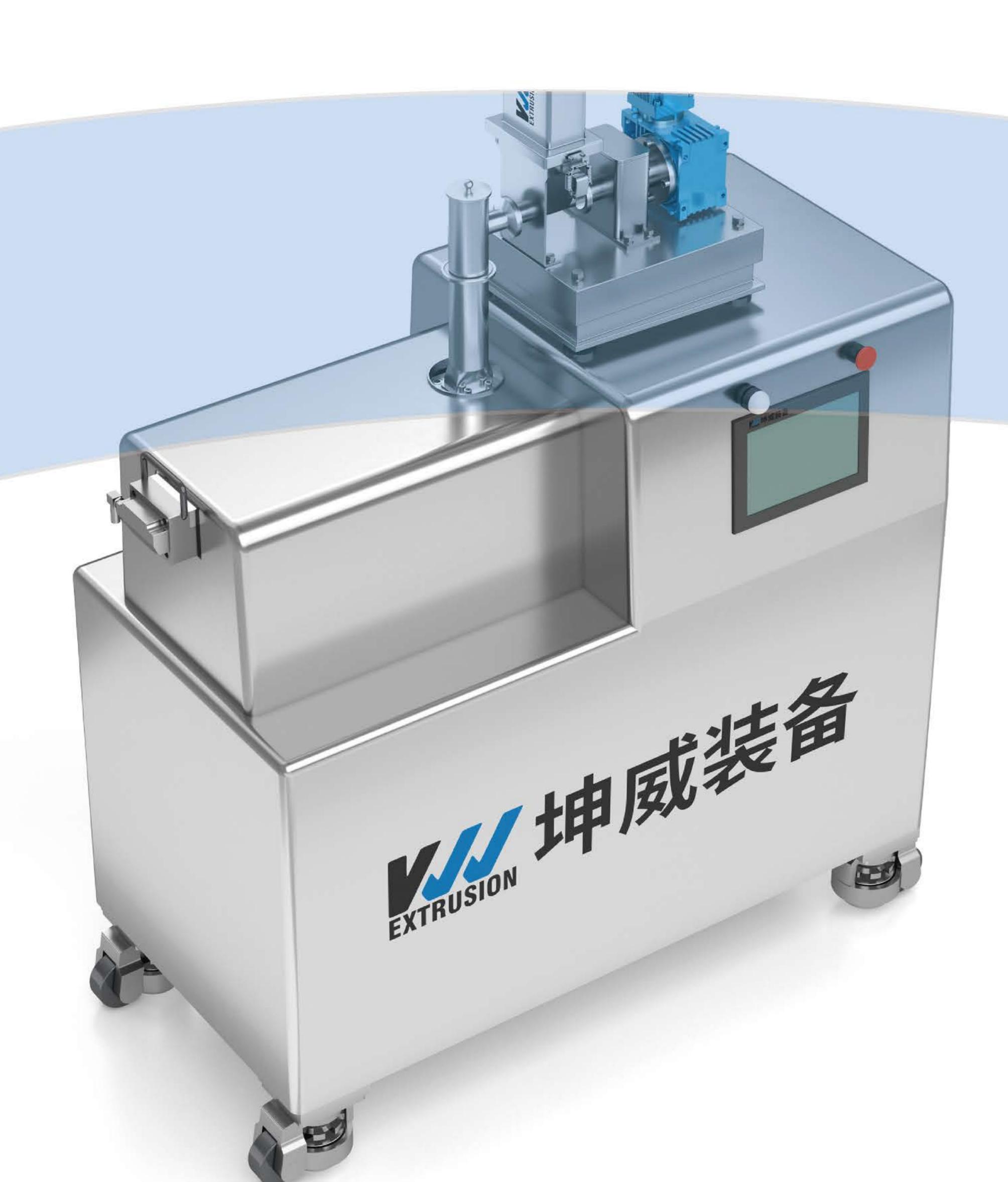
# KTD High Volume Series

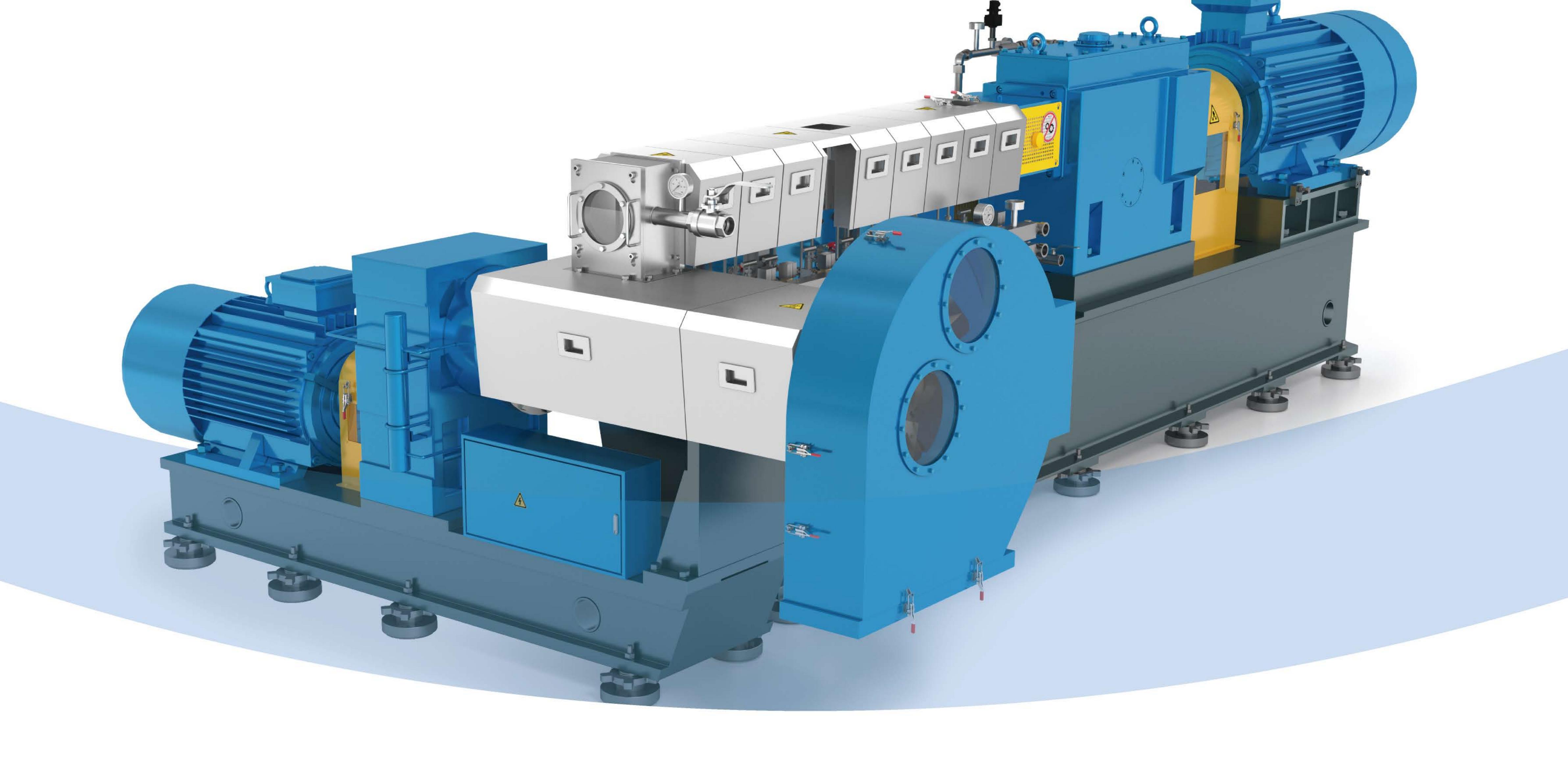
Specifications

# KTS Pharmaceuticals HME Series

# Specifications

Model	Ratio [Do/Di]	Specific Torque [Nm/cm³]	Max. Speed [rpm]	Max. Torque [Nm]	Max. Motor Power [kW]
KTS 8	1.55	5	600	2x 2	0.2
KTS 11	1.55	5	600	2x 3	0.35
KTS 18	1.55	5	600	2x 16	2.0
KTS 20	1.55	5	600	2x 22	2.8





Model	Ratio [Do/Di]	Specific Torque [Nm/cm³]	Max. Speed [rpm]	Max. Torque [Nm]	Max. Motor Power [kW]
ECO 35	1.51	9	900	2x 238	45
ECO 50	1.55	9	900	2x 584	110
ECO 65	1.55	9	900	2x 1167	220
ECO 75	1.51	9	900	2x 1883	355
ECO 96	1.55	9	600	2x 3979	500
ECO 50 / 150 (	T+S) /	/	600 (T) / 70 (S)	1	90 (T) / 45 (S)
ECO 65 / 180 (	T+S) /		600 (T) / 70 (S)		160 (T) / 55 (S)
ECO 75 / 200 (	T+S) /		600 (T) / 70 (S)	1	250 (T) / 75 (S)
ECO 96 / 250 (	T+S) /		600 (T) / 70 (S)		500 (T) / 110 (S)

# ECO Cost-Effective Series

Specifications

# Compounding Plant Turnkey Project

We deliver complete compounding solutions

## Hone Your Competitive Edge

- Set up a new extrusion line
- Further optimize process flows



## System Partnership

From consulting during process and production optimization, installation, system set-up and start-up right through to the verification of the specific product quality.

- System planning
- System logistics
- Basic design of building and infrastructure
- Interface coordination with third parties
- Project development
- Training, production support and servicing



## One Stop-shopping

#### For pelletizing

- Raw material handling
- Dosing
- Compounding
- Pelletizing
- Pellet silo storage
- Packaging and storing

For biaxial oriented films or BSF manufacturing

- Raw material handling
- Dosing
- Compounding
- Filtration
- Die head
- Control system and communicaion

## Process Know-how

From individual machines to turnkey solutions. As a system partner, Kunwei offers customers a high degree of reliability through:

- Innovative technical solutions for specific tasks
- Extensive engineering resources
- Highly skilled project management
- Skilled suppliers and partners

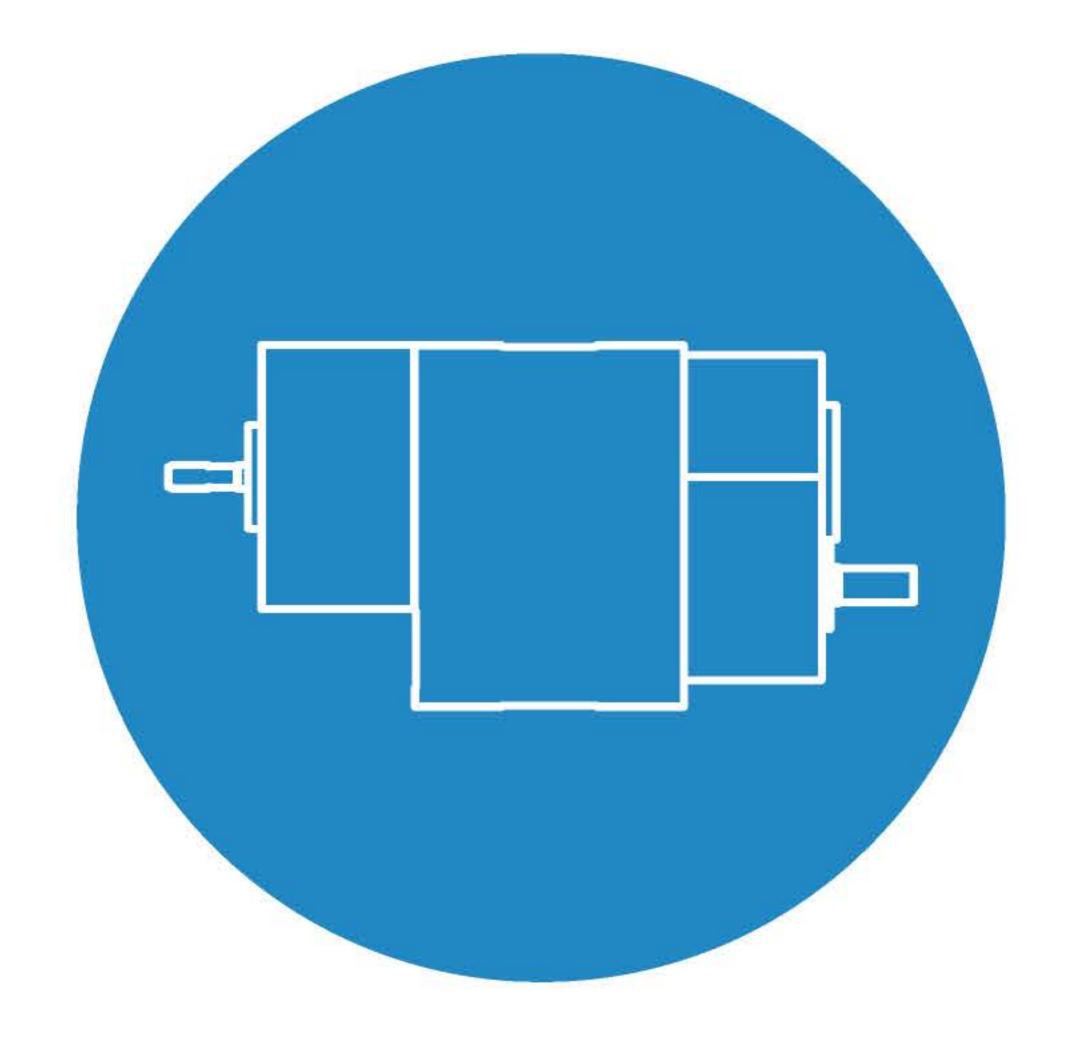
# Extruder Service

# More Than Just Machine Maintenance Kunwei Offers Full Cooperation



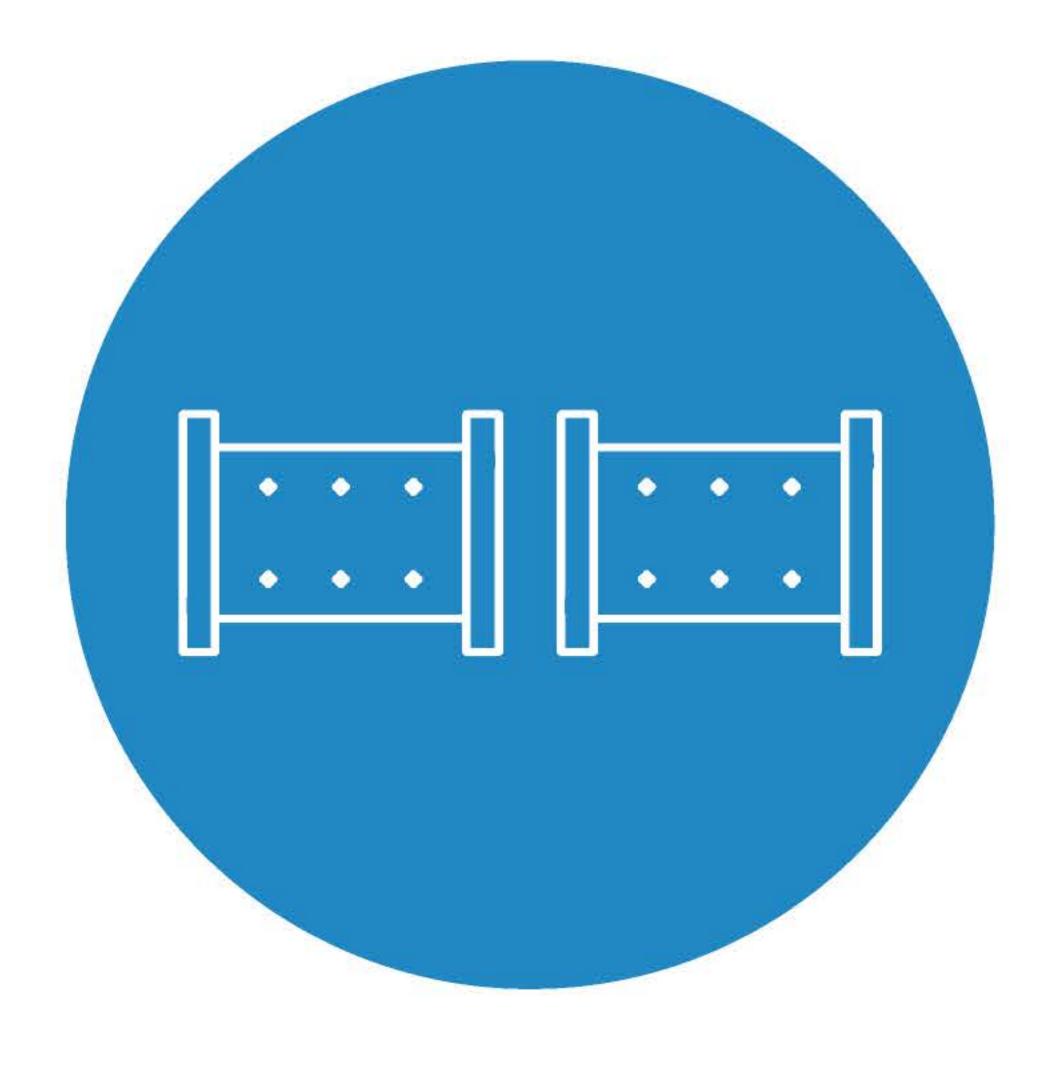
## Spare Parts

- Dynamic stock management
- Traceability of key components
- Fast response



## Repair & Replacement

- Service for imported gearbox
- Specialized mapping
- Fine assembly and tuning



### Modernization

- Mechanical & Electrical
- Control system
- Entire machine

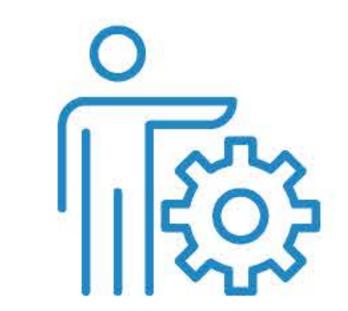


# Experts Consulting



## Technical Consulting

- Advice for investment
- Analysis of existing machine
- Detect potentials and optimize solution



## Personnel Qualification

- Mechanical, electrical and software professionals
- Experts of transmssion
- Extensive field experience

# Intelligent Control System

PC control terminal
Beckhoff AI 3.0
SCADA 3D



- Mega data storage and analysis
- Compatible with all industrial bus protocol
- Machine-learn algorithm to predict malfuncton and optimize parameters

# Wear and Corrosion Resistant Solutions

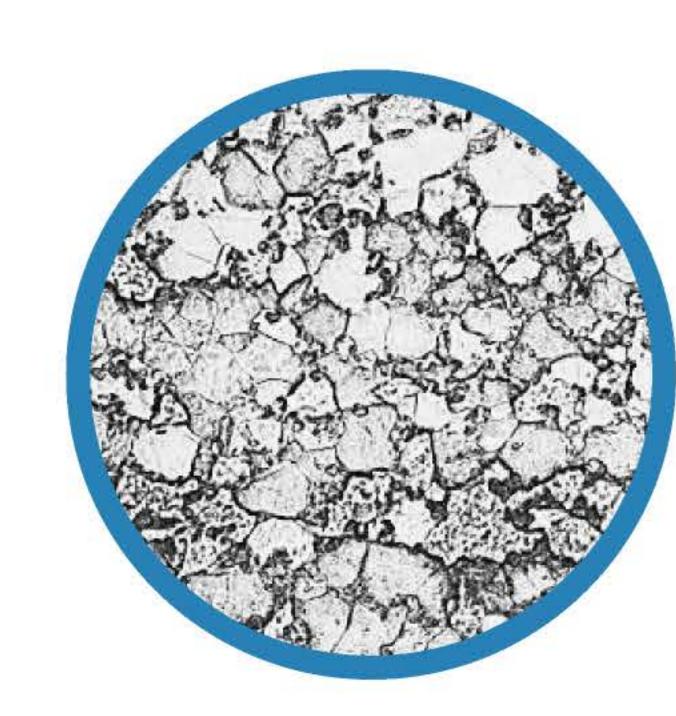
We offer wide range of MoC for barrels, screw elements and shafts.

With our exclusively developed extremely wear and corrosion resistant material, the service life of barrels could be extended several times compared to HIP material for compounding polymers with glass and carbon fibers, ceramic and metal masses, and inorganic fillers.



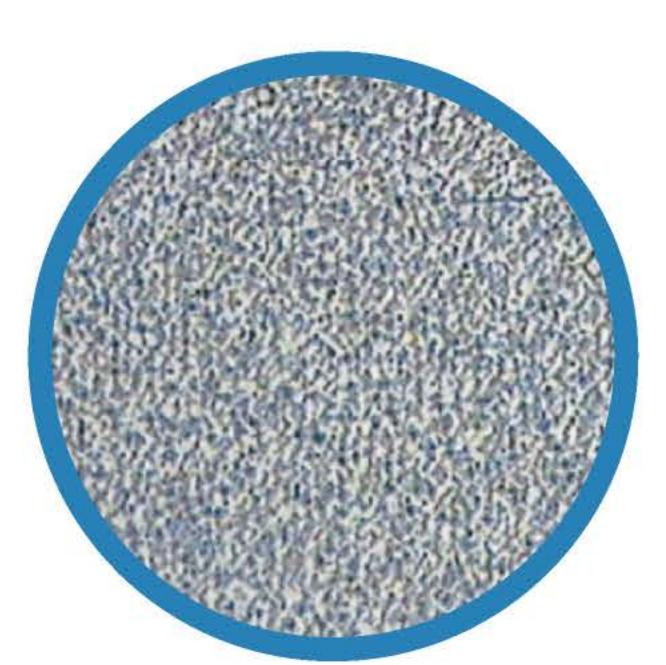
### Nitrided Steel

- Strictly controlled nitriding
- Fine ground surface
- High impact value



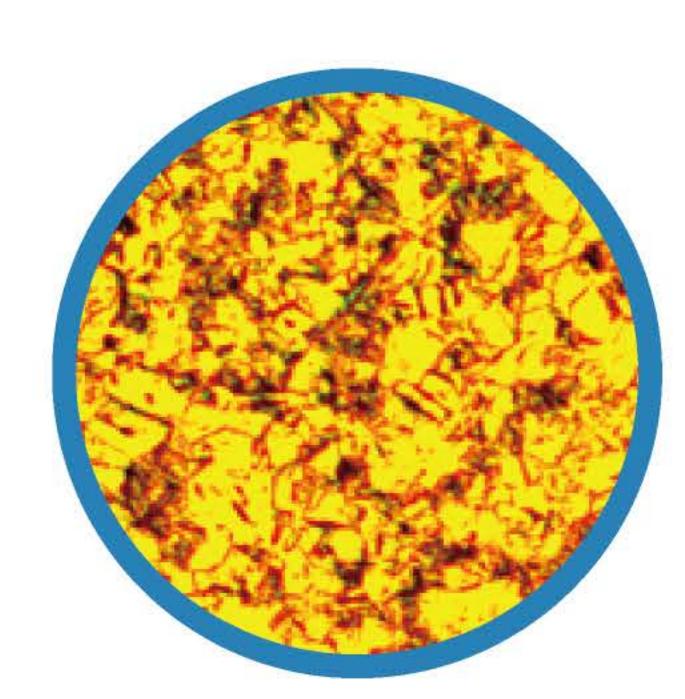
## Special Stainless Steel

- Germen DIN standard
- Special welding process
- For pharma and food



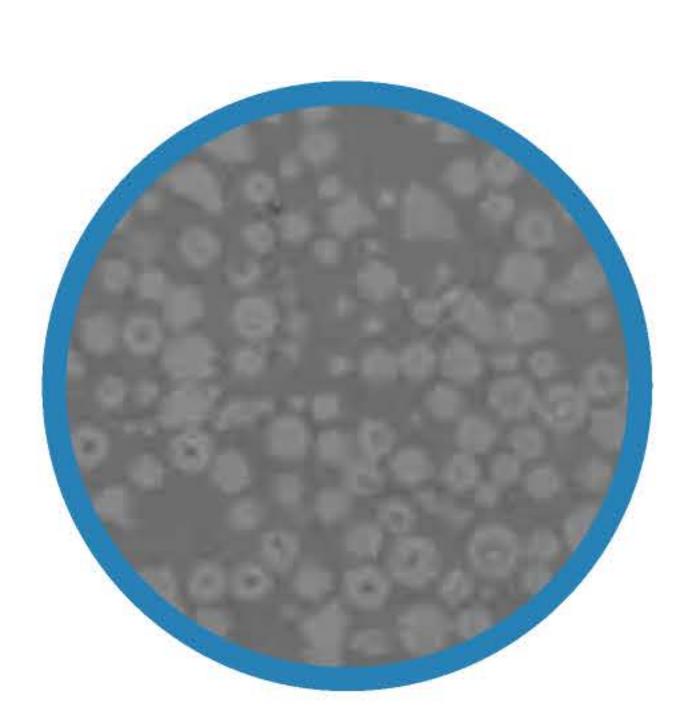
## SAM26 / WR13

- HIP (hot isostatic pressing) material
- One-piece liner
- Wear and corrosion resistant



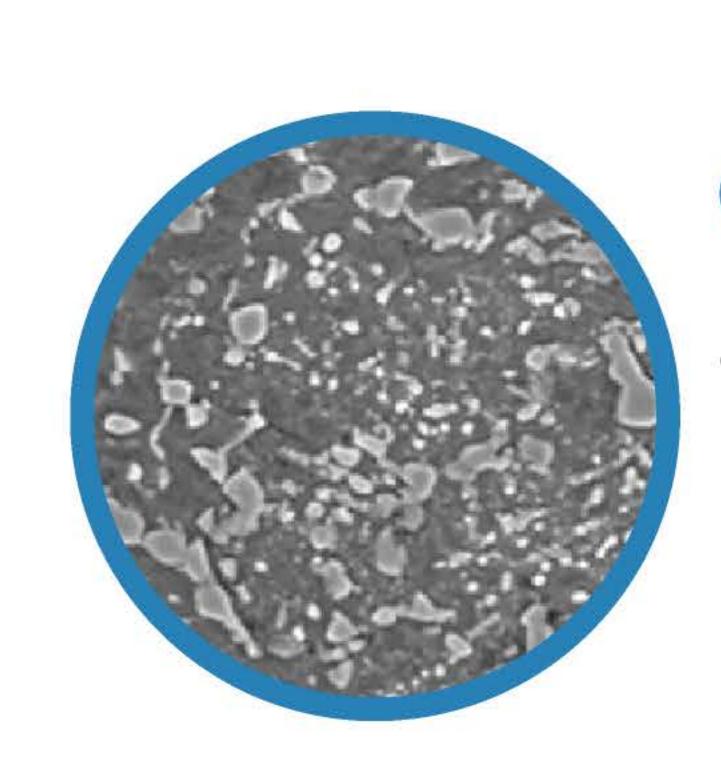
## Hastelloy

- Extremely corrsion resistant
- High temperature application
- Special designed barrel



Nickel-based WC

- Extremely wear resistant



### Cobalt-based WC

- Extremely wear and corrosion resistant