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GUANGYOU SCREW

全球机筒螺杆供应商
GLOBAL BARREL & SCREW SUPPLIER

PROFESSIONAL TECHNOLOGY, ACHIEVE EXCELLENT SCREW

国家专精特新“小巨人”企业
National Specialized and Sophisticated "Little Giant" Enterprise

浙江制造
MADE IN ZHEJIANG

浙江省“隐形冠军”企业
Zhejiang Province's "Hidden Champion" Enterprise



GLOBAL BARREL & SCREW SUPPLIER

Since **1992**

Worker **600+**

Area **100000m²**

Patent **80+**

ABOUT GUANGYOU

关于我们

专业技术，成就精品螺杆

浙江光明塑料机械有限公司，成立于1992年，经过三十余载的励精图治，公司现已发展为全球规模最大的专业生产各种机筒、螺杆的制造商之一。公司坐落于在浙江省舟山市的金塘镇西垵工业区，现有厂房面积10万多平方米，员工600多人。

公司技术力量雄厚，拥有各种精加工机筒螺杆的数控生产设备、计算机控制的氮化炉、淬火炉热处理设备及等离子全自动堆焊合金数控设备，配备德国进口的材料监控和质量检测设备，可以完成各项指标的检测分析，从而确保了产品的优良品质。

如今光友销售网络已经覆盖海内外50多个国家和地区展望未来，光友人将不断进取，努力成为全球机筒螺杆领域具有广泛影响力和良好口碑的卓越供应商。



PROFESSIONAL TECHNOLOGY, ACHIEVE EXCELLENT SCREW

Zhejiang Guangming Plastic Machinery Co., Ltd. Which was established in 1992, through 30 years of endeavour and cultivation, the company now among the world's leading manufacturer of screw and barrel. It is located in the Xihou Industry Park, Jintang, Zhoushan. The company has facilities totalling over 100,000 square metres and employs over 600 workers. we pride ourselves on advanced and numeric controlled manufacturing and fine- processing facilities, including computerised nitriding furnace, quenching furnace for heat treatment, and plasma alloy surfacing equipment that is full automatic and numeric controlled. The company equipped with material control and quality insurance facilities imported from Germany , thus guaranteed the quality of our products. Guangyou well- established sales and service network now covers 50 nations and districts.

In the future, Guangyou will never rest its pace of advancing. With an extensive influence and enviable reputation, Guangyou will continue to be outstanding screw and barrel supplier internationally.

QUALITY CERTIFICATION

品质创新

Building a digital factory

打造数字化工厂



新型机筒、螺杆专利证书

Patent certificate for screw and barrel



技术指标

技术参数	材料和工艺
调质硬度:HB260-310	38CrMoAlA(41CrAlMo7)
氮化硬度:HV850-1000	42CrMo
氮化层深度:0.45~0.7mm	34CrAlNi7 (1.8550)
氮化脆度:≤二级	40Cr
表面粗糙度:Ra 0.4	31CrMoV9 (1.8519)
螺杆直线度:0.015mm	SKD61 (H13)
氮化后表面镀铬层硬度≥900HV	Gr12MoV
镀铬层厚度:0.025~0.10mm	D2
双合金硬度:HRC50-65	冷、热喷涂硬金属工艺
双合金深度:0.8~2.0mm	先进渗氮工艺耐腐蚀
	耐磨双金属喷涂工艺

TECHNICAL INDEX

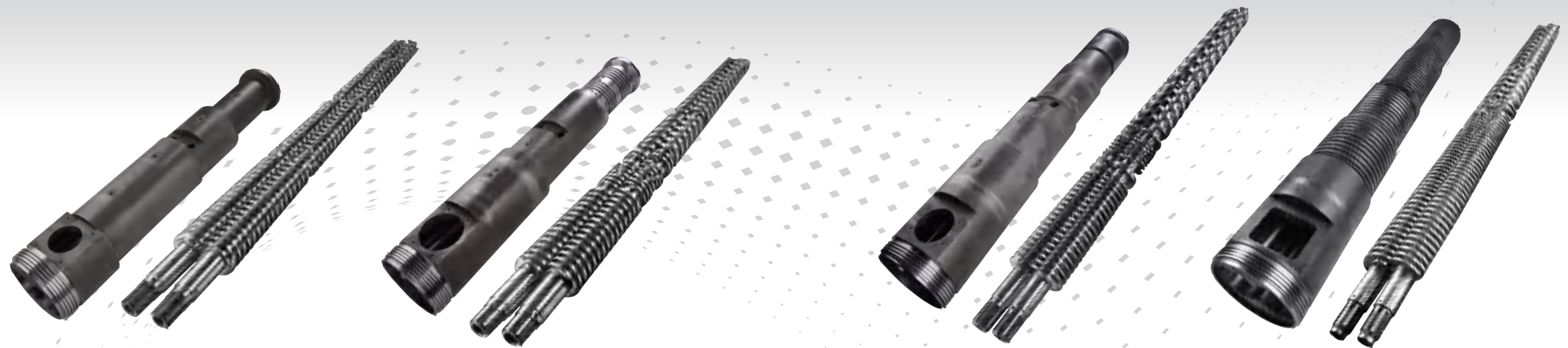
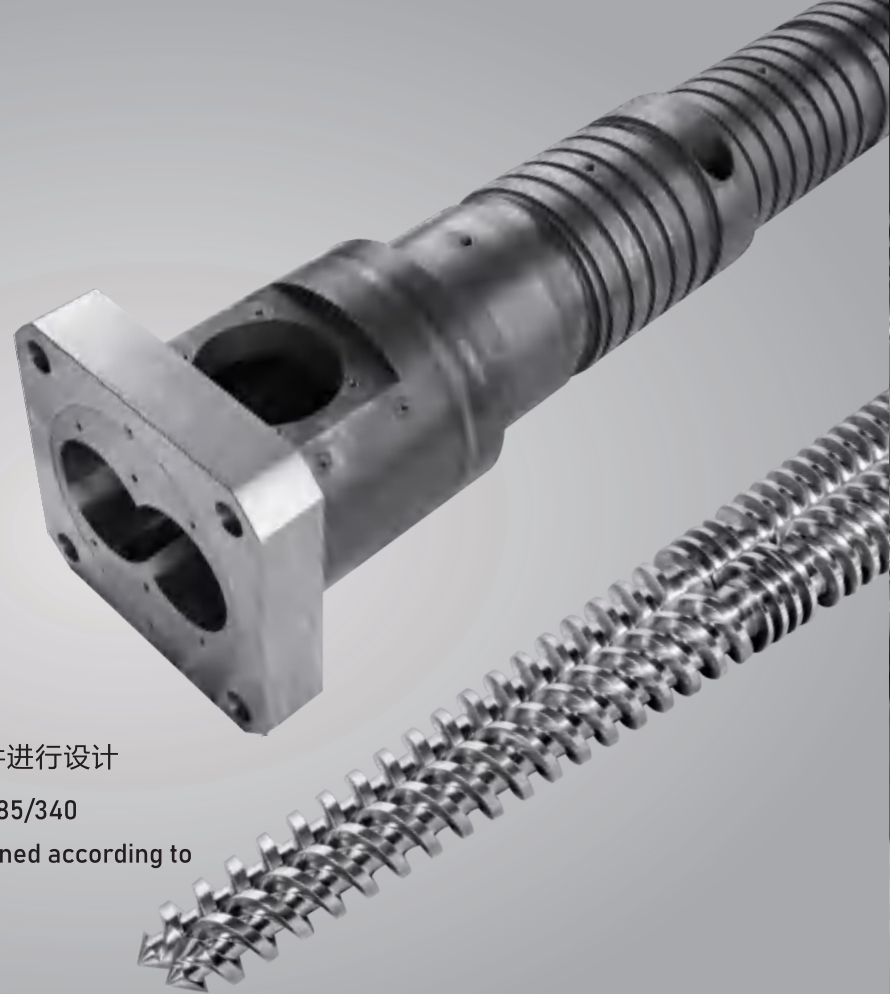
Technical Specification	Materials & Processes
Hardness After Hardening & Tempering:HB260-310	38CrMoAlA(41CrAlMo7)
Nitrided Hardness :HV850-1000	34CrAlNi7(1.8550)
Nitrided Case Depth:0.45-0.7mm	42CrMo
Nitrided Brittleness: Less Than Grade 2	40Cr
Surface Roughness :Ra 0.4	31CrMoV9(1.8519)
Screw Straightness :0.015mm	SKD61(H13)
Surface Chromium-Plating's Hardness After Nitriding:≥900HV	Gr12MoV
Chromium-plating Depth:0.025~0.10mm	D2
Alloy Hardness :HRC50-65	Cold /Thermal Spray Hard Metal Process
Alloy Depth :0.8~2.0mm	Advanced nitriding Process
	Corrosion & Abrasion Resistance Bimetal Spraying Process



Conical Twin Screw & Barrel 锥形双螺杆机筒

PRODUCT DETAILS

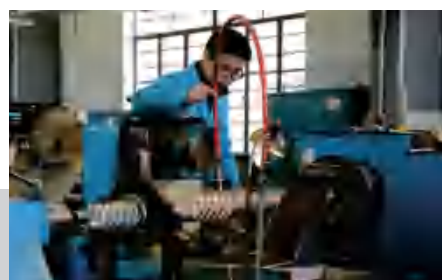
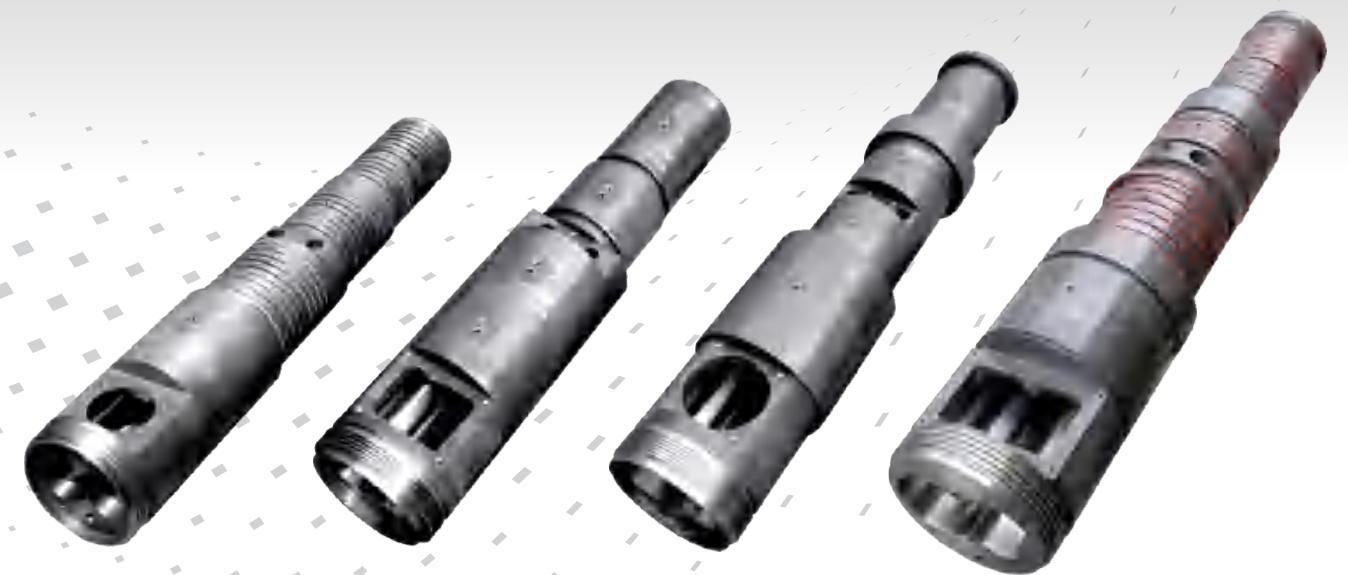
- 规格: $\varnothing 25/50 \sim \varnothing 185/340$
- 螺杆结构及压缩比可根据不同的产品及不同的配件进行设计
- Conical twin screw, barrel specifications: $\varnothing 25/50 \sim \varnothing 185/340$
- Screw structure and compression ratio can be designed according to different products and different accessories



Conical Twin Screw & Barrel 锥形双螺杆机筒

PRODUCT DETAILS

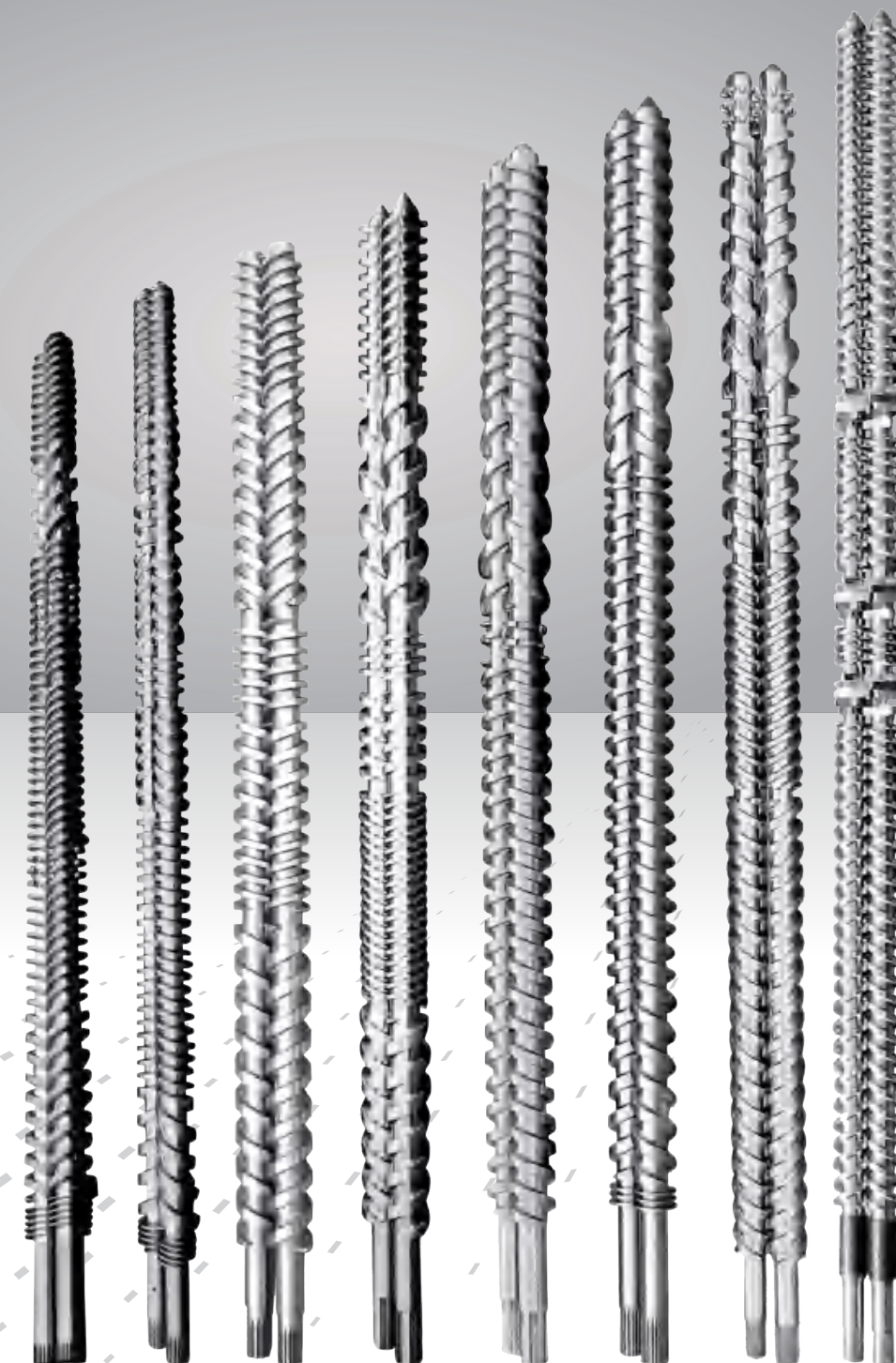
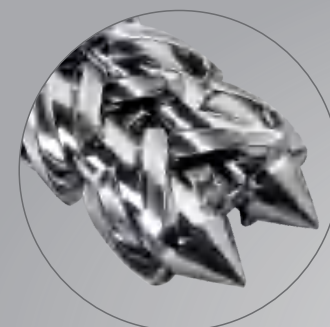
- 规格: $\varnothing 25/50 \sim \varnothing 185/340$
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- Screw structure and compression ratio can be designed according to different products and different accessories



Parallel Twin Screw And Barrel 平行双螺杆机筒

PRODUCT DETAILS

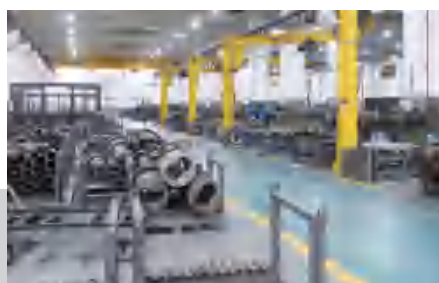
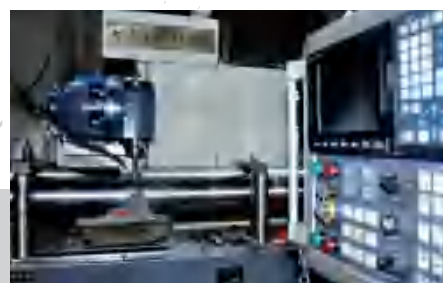
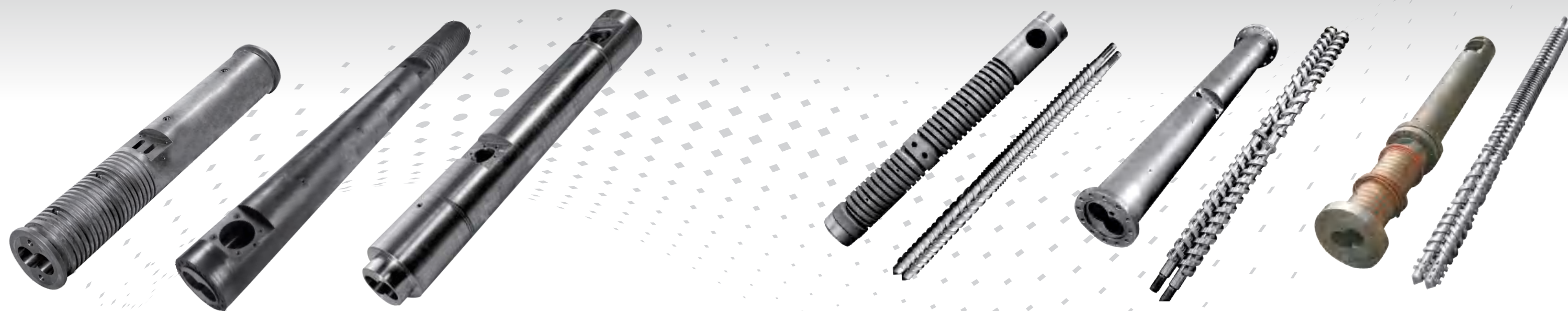
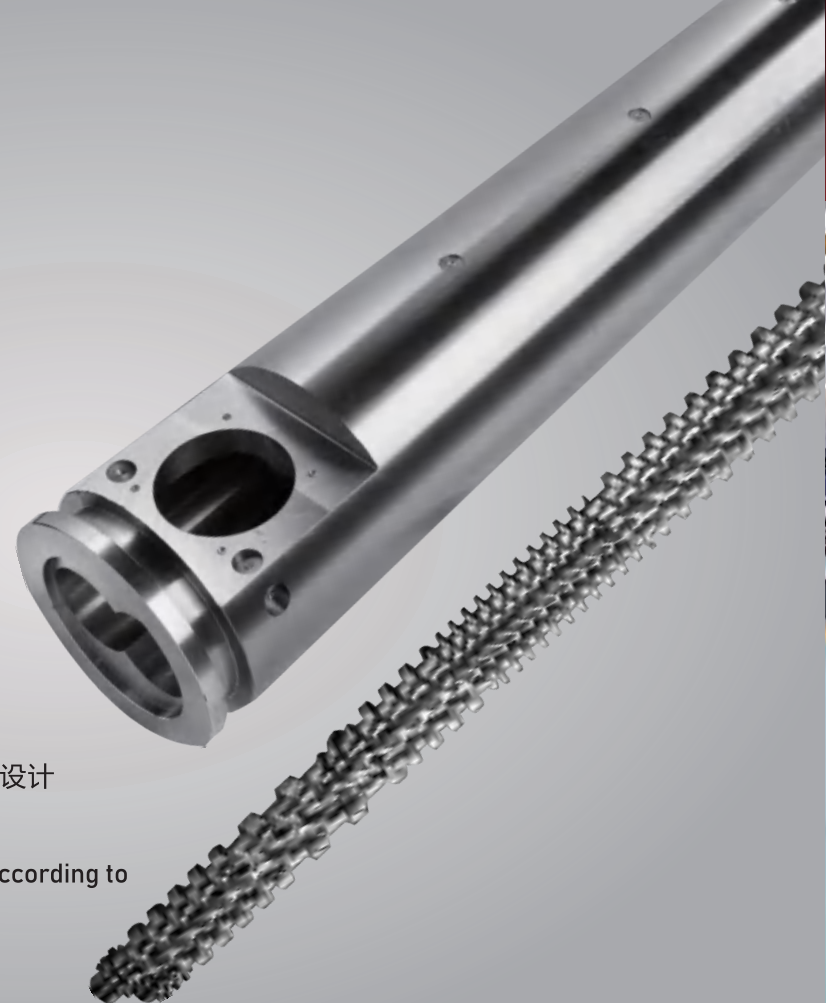
- 规格: $\varnothing 45/2 \sim \varnothing 350/2$
- 螺杆结构及压缩比可根据不同的产品及不同的配件进行设计
- Specifications: $\varnothing 45/2 \sim \varnothing 350/2$
- Screw structure and compression ratio can be designed according to different products and different accessories



Parallel Twin Screw And Barrel 平行双螺杆机筒

PRODUCT DETAILS

- 规格: $\varnothing 45/2 \sim \varnothing 350/2$
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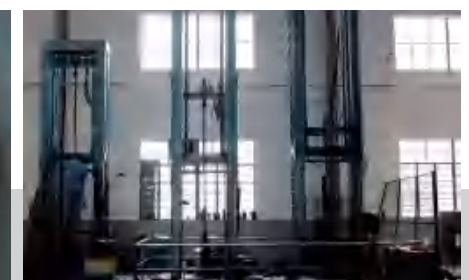
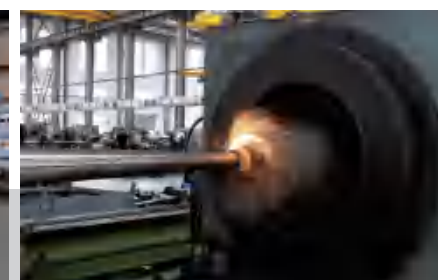
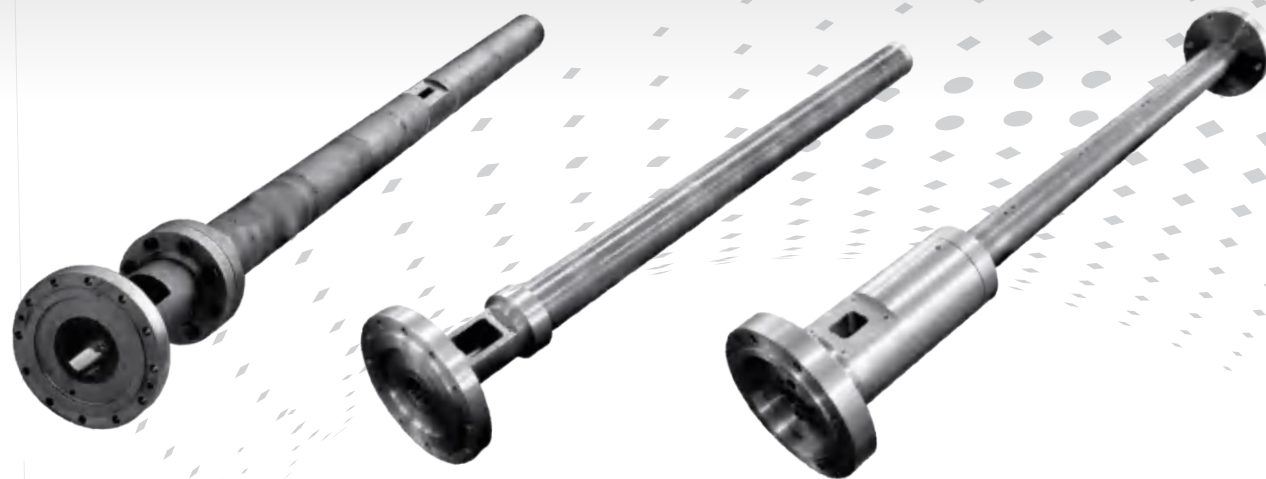
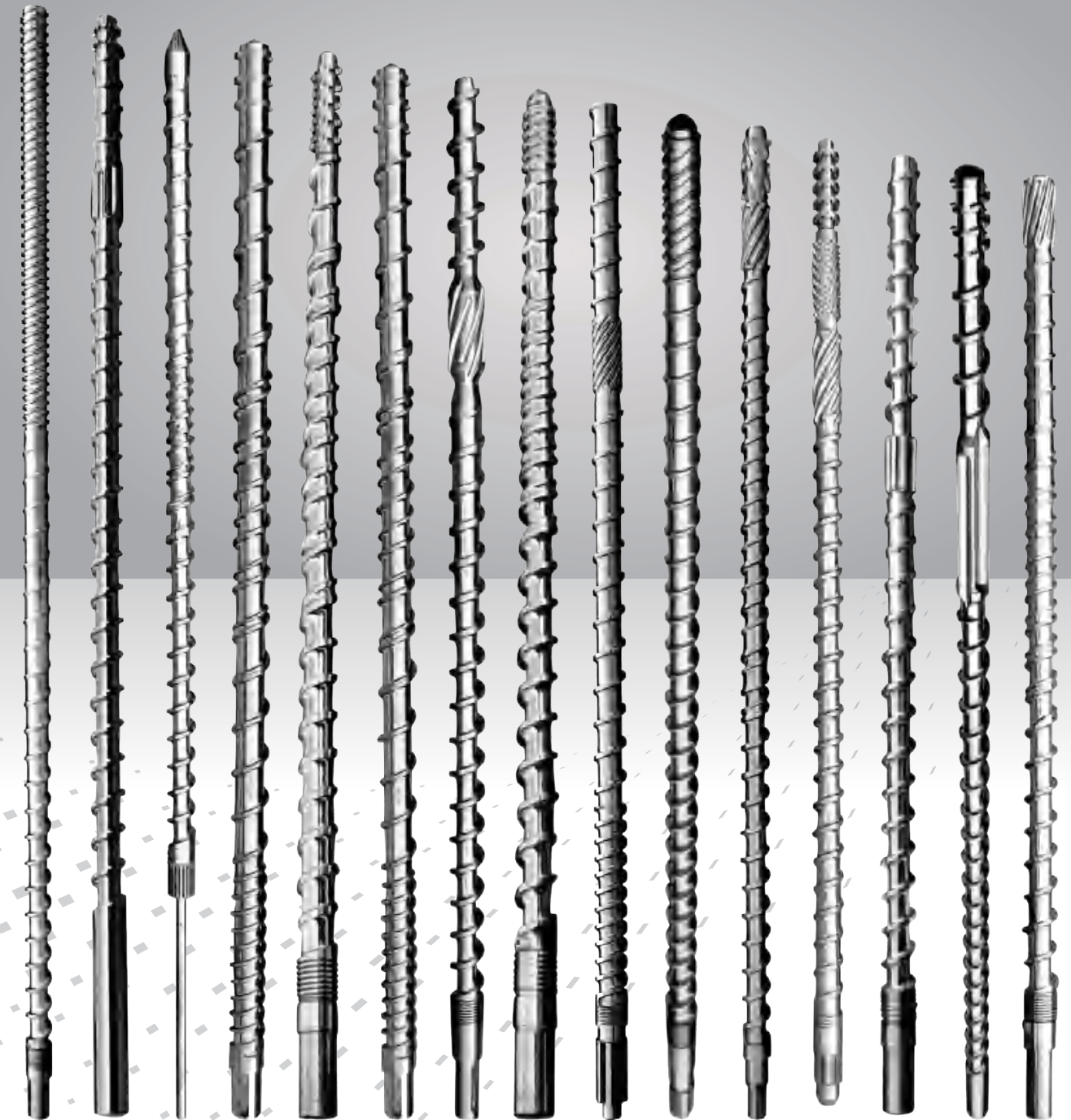


Single Screw Extruders Screw And Barrel

单螺杆挤出螺杆机筒

PRODUCT DETAILS

- 规格: $\varnothing 20 \sim \varnothing 500 \text{mm}$
- 长径比: $L/D = 15 \sim 55$
- Standards of single screw and cylinder of extruder machine:
 $\varnothing 20 \sim \varnothing 500 \text{mm}$
- Ratio of length to diameter: $L/D = 15 \sim 55$

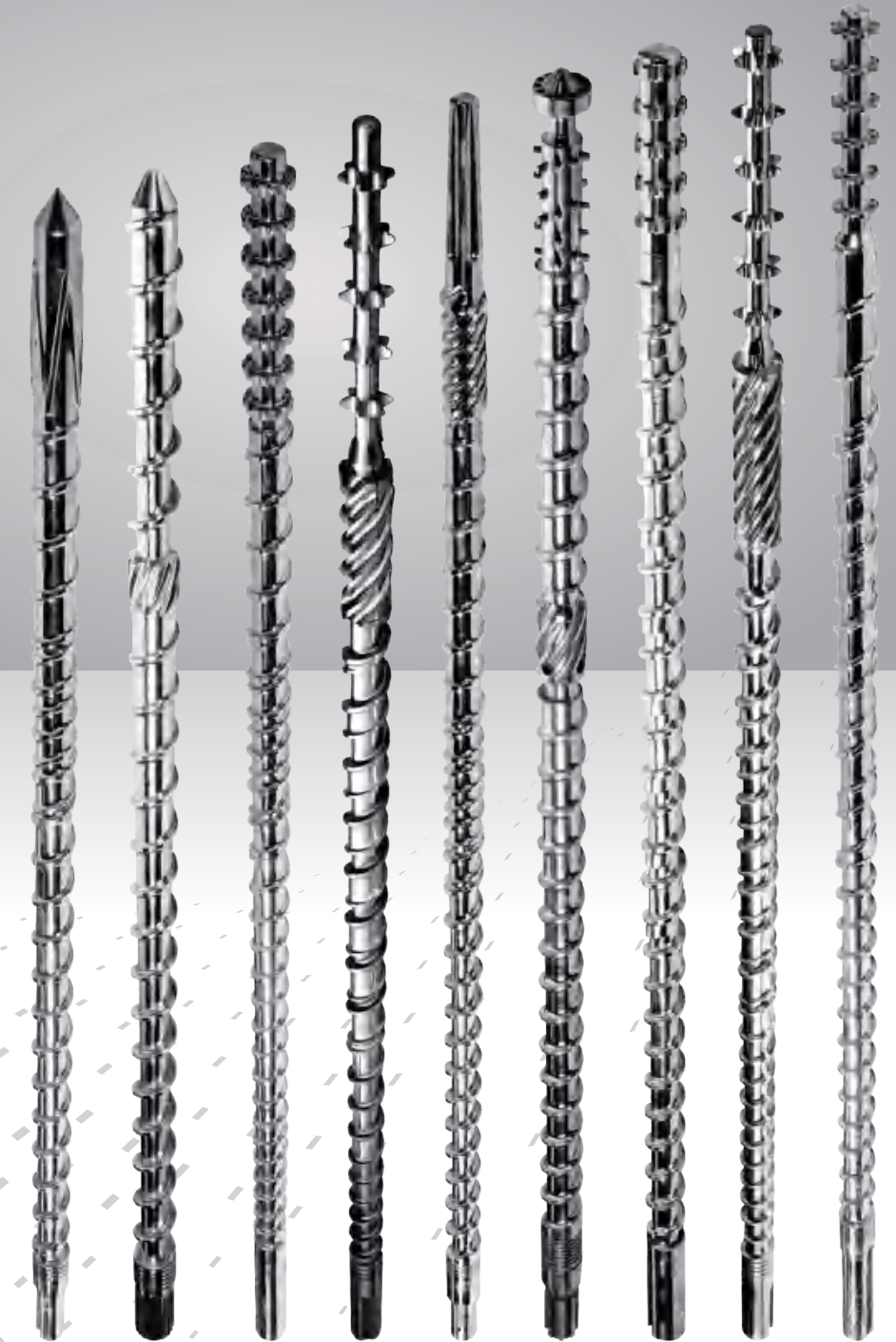
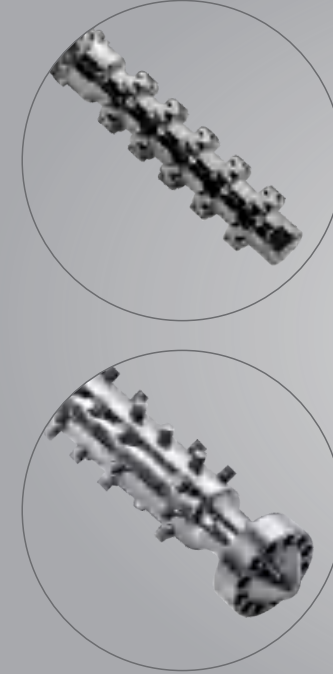


Single Screw Extruders Screw And Barrel

单螺杆挤出螺杆机筒

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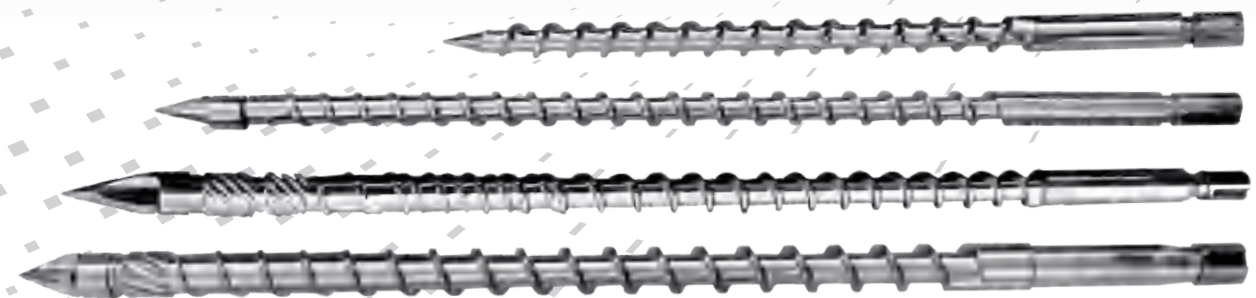
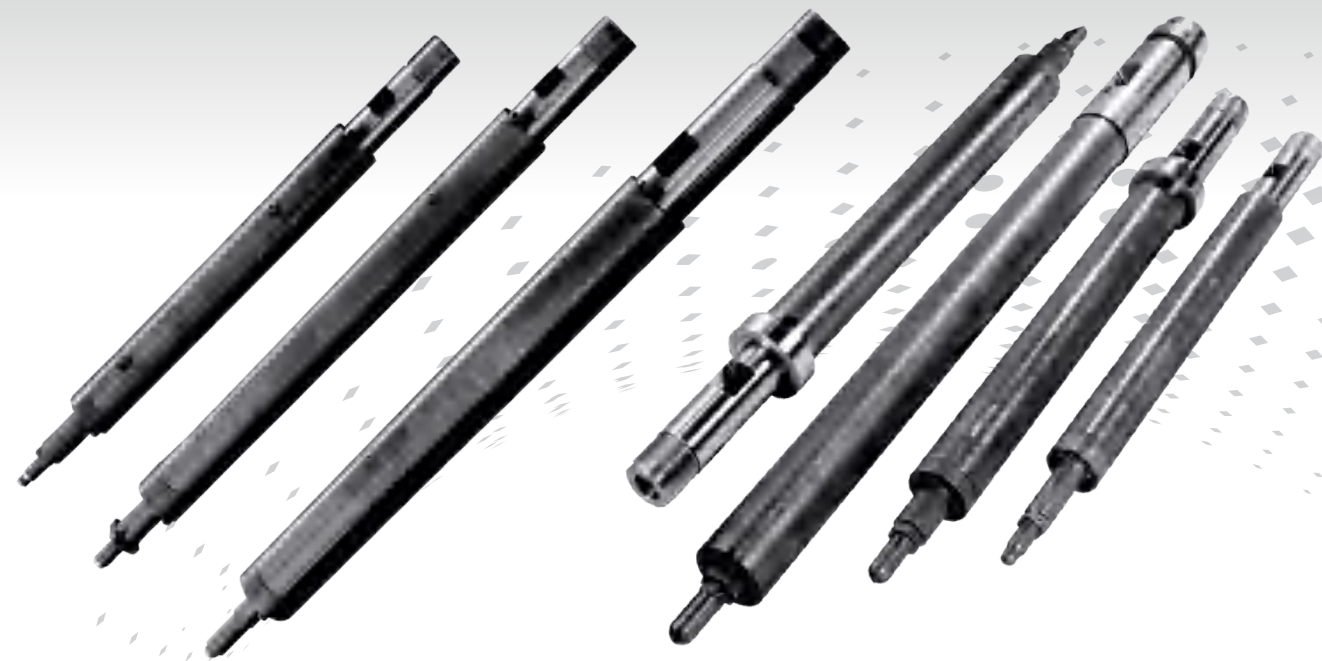


Injection Molding Machine Screw And Barrel

注塑机螺杆机筒

PRODUCT DETAILS

- 100KN~35000KN锁模力
- 30~30000g注塑量
- 螺杆直径: Ø20mm~Ø300mm
- 螺杆结构及压缩比可根据不同的产品及不同的配件进行设计
- 100KN ~ 35000KN clamping force
- 30~30000g injection volume
- Screw diameter: Ø20mm ~ Ø300mm
- Screw structure and compression ratio can be designed according to different products and different accessories



Injection Molding Machine Screw And Barrel

注塑机螺杆机筒

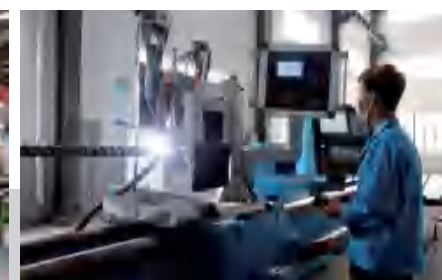
PRODUCT DETAILS

- 100KN~35000KN锁模力
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- 螺杆直径: Ø20mm~Ø300mm
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- 30~30000g injection volume
- Screw diameter: Ø20mm ~ Ø300mm
- Screw structure and compression ratio can be designed according to different products and different accessories



Accessories Of Injection Molding Machinescrew And Barrel

注塑机螺杆机筒附件



Rubber Machine Screw And Barrel

橡胶螺杆机筒

PRODUCT DETAILS

- 销钉螺杆、机筒规格: $\varnothing 20\text{mm} \sim \varnothing 650\text{mm}$
- 冷、热喂料螺杆规格: $\varnothing 20\text{mm} \sim \varnothing 650\text{mm}$
- 螺杆结构及压缩比可根据不同的产品及不同的配件进行设计
- Pin screw, barrel specifications: $\varnothing 20\text{mm} \sim \varnothing 650\text{mm}$
- Cold and hot feeding screw specifications: $\varnothing 20\text{mm} \sim \varnothing 650\text{mm}$
- Screw structure and compression ratio can be designed according to different products and different accessories

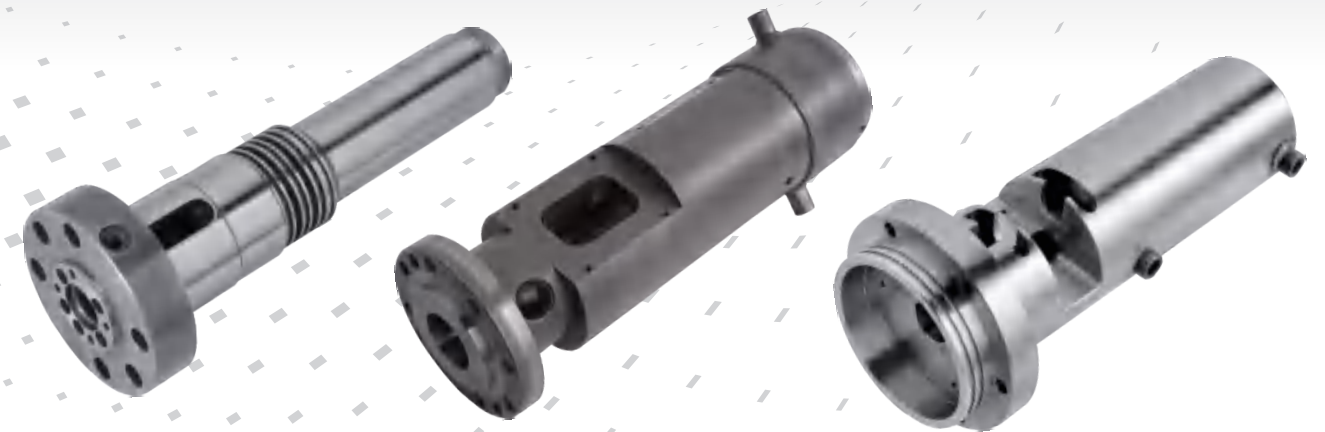
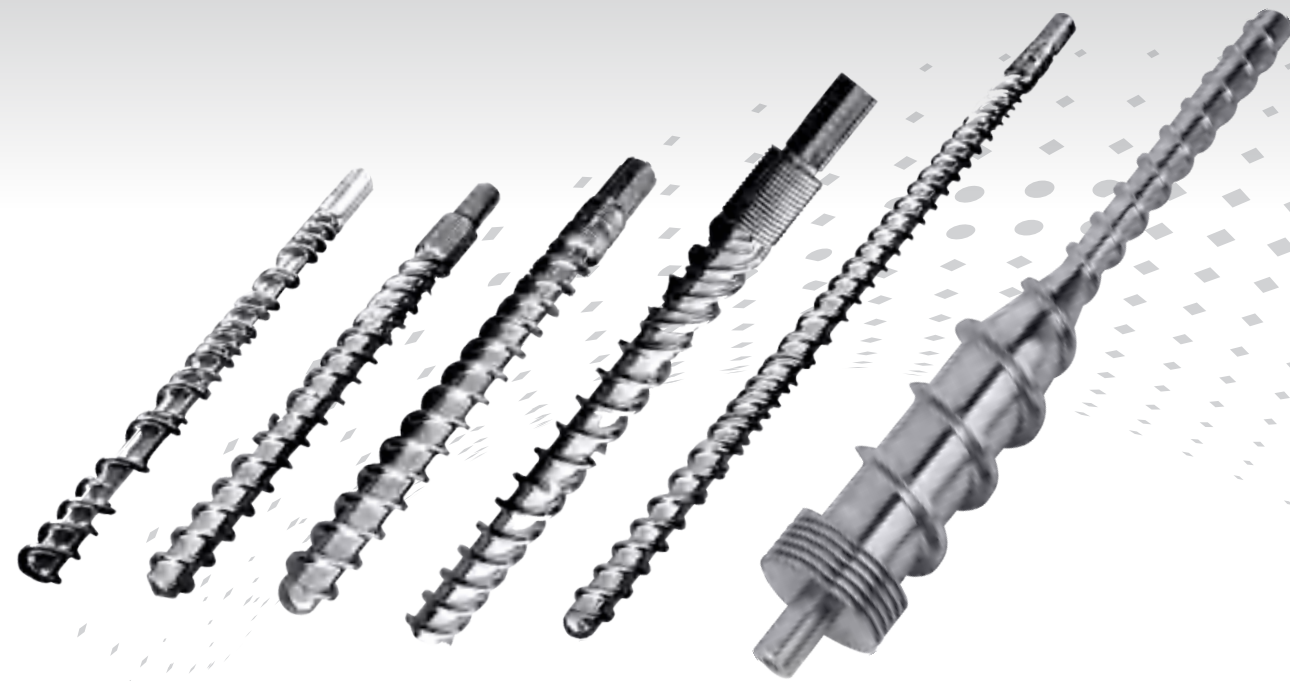


Rubber Machine Screw And Barrel

橡胶螺杆机筒

PRODUCT DETAILS

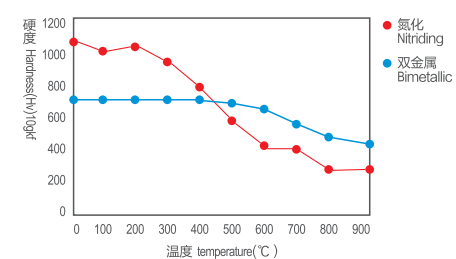
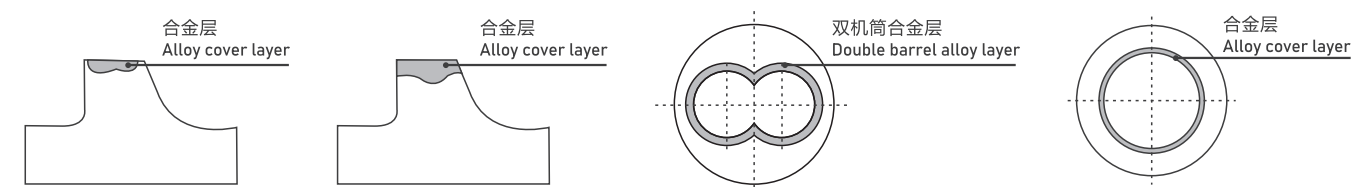
- 销钉螺杆、机筒规格: $\varnothing 20\text{mm} \sim \varnothing 650\text{mm}$
- 冷、热喂料螺杆规格: $\varnothing 20\text{mm} \sim \varnothing 650\text{mm}$
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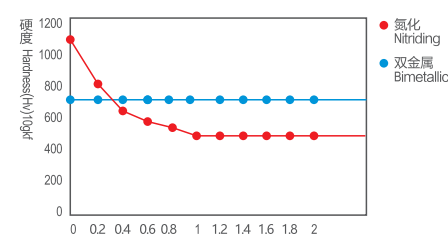
Alloy Barrel & Screw 合金螺杆机筒

PRODUCT DETAILS

双金属机筒就是在机筒内壁浇铸一层2-5mm的耐磨的、耐腐蚀的、耐高温的合金，其有效使用寿命比普通氮化机筒大大提高，对于加工工程塑料、氟塑料、聚砜、PPO特殊类型的塑料等，双金属的优越性尤为明显。本公司生产的双金属螺杆，采用特殊合金粉末在螺杆螺棱部分喷焊合金，可以针对不同功用的螺杆，采用不同的合金焊接方式。



耐高温硬度表
Hardness table of high-temperature alloy



深硬性能表
Table of deeper layer hardness property



The bimetallic barrel for single screw is a kind of barrel moulding 2-5 mm-thick alloy coat on the barrel inner wall which has excellent corrosion resistance, abrasion resistance and high working temperature. And its useful service life is greatly improved contrast to the common nitrided barrel. Bimetal has more obvious advantages when processing special plastics to enhance the abrasion life, such as engineering plastics, fluorine plastics, PPO, and etc. The company uses special alloy powders being sprayed and welded on the screw's ridge, and uses different alloys and welding methods for the screw of different functions.

合金粉参数 ALLOY POWDER PARAMETERS

牌号 MODEL	粉末硬度 HRC	成份 INGREDIENTS	用途 USE TO	备注 NOTES
GY83	51-52	Cr,Fe,W:35%, Ni:Bal	SCREW (螺杆)	WC:35%
GY83-1	48-49	Cr,Fe,W:20%, Ni:Bal		WC:20%
GY56	56-57	Cr22%,B,Fe,Ni:Bal		
GY55	56-57	Cr19%,B,Fe,Ni:Bal		
GY60	57-58	Cr21%,B, Fe , Ni:Bal		
GY001	59-60	Cr,B,Fe,W15%, Ni:Bal		WC:15%
GY108	57-60	Cr,B,Ni12%,Fe:Bal	BARREL (机筒)	
GY107	55-58	Cr,B,Ni10%,Fe:Bal		
GY105	58-61	Cr,B,Ni,Mo,W,Co,Fe:Bal		
GY300	56-60	Cr,B,W:15%,Ni:Bal		WC:15%
GY301	56-60	Cr,B,W:25%,Ni:Bal		WC:25%
GY303	56-60	Cr,B,W:35%,Ni:Bal		WC:35%
GY310	56-60	Cr,B,W:10%,Ni:Bal		WC:10%

