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EMPHASIZE DETAILS
PURSUE EXCELLENCE
E.J.S INDUSTRY CO., LTD



ABOUT US

When working with suppliers overseas is challenging, EJS was born to make your screw barrel business **Easy Joy** with a big **Success**.

Since 1992, our factory has been dedicated into production of screws and barrels. Through years of developing, a wide range of products are available now:

- 🏠 **Extruder screw barrel**
- 🏠 **Rubber screw barrel**
- 🏠 **Injection molding screw barrel etc.**

In bimetallic, nitriding, hard chrome-plated, through hardened.



Up to 40,000m² production area



More than 400 skilled full time workers



Over 300 equipments, domestic and imported, semi-automatic or fully automatic



10 experienced full-time technical engineers



Quality-Oriented mind



6 Export Sales with fluent English for easy communication



Customized VIP services

OUR MISSION

To make your screw barrel business **Easy, Joy** with a big **Success**.



OUR PHYLOSOPHY

Emphasize Details, Pursue Excellence
Keep Communicating, Keep Focusing, Keep Cooperating, Keep Improving,
We stand behind the parts we produce and provide long term support for our products.

EJS is outstanding among hundreds of screw barrel manufacturers in China.

Right now our happy customers are all over the world, from Europe, Middle East, Asia to America in different fields.

If quality is critical, you can count on EJS.
We have the energy and capability to meet your needs, whatever screws barrels you're looking for and wherever you may be.

We look forward to working with you now and forever.

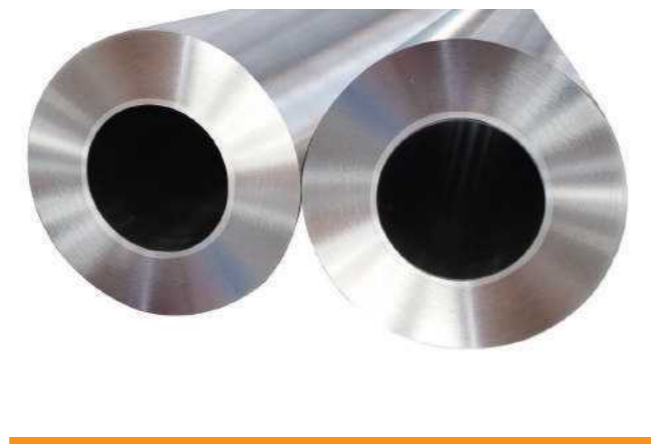
For some plastic application with fillers and fibers, the barrel and screw need to be well protected. Bimetallic barrel has a bimetallic layer which is providing a better wear protection, corrosion protection and a longer life time.

We have four kinds of alloy for different types of wear and corrosion resistance:

Alloy Type	EJS01 Alloy	EJS02 Alloy	EJS03 Alloy	EJS04 Alloy
Alloy Components	Fe+Ni+Cr+B	Ni+Cr+Co+B	Ni+Cr+Co+V+B	Ni+Wc+Cr+B
Wearing Resistance	★★★	★★	★★★	★★★★
Corrosion Resistance	★★	★★★	★★★	★★★★
Alloy Thickness	2-3mm	2-3mm	2-3mm	2-3mm
Hardness	HRC 58-62	HRC 50-58	HRC 55-60	HRC 55-60
Temperature Area (°C)	≤400	≤450	≤450	≤600
Coefficient Thermal RT~250°C	11.0x10 ⁻⁶	11.0x10 ⁻⁶	11.5x10 ⁻⁶	11.0x10 ⁻⁶
Expansion(°C) RT~400°C	11.4x10 ⁻⁶	11.4x10 ⁻⁶	12.4x10 ⁻⁶	12x10 ⁻⁶
Base Steel Vastly Used	40Cr	40Cr	40Cr	40Cr

■ Mark in the list: ★★★★★ Excellent; ★★★ Very Good; ★★Good

Bimetallic barrel by centrifugal casting



We are able to make all of our screws hardfacing by PTA welding. In addition to the quite common Ni60, we also offer Colmonoy 56, Colmonoy 83 or other Tungsten added alloy for different applications.

Suitable for	Single Screw, Twin Parallel Screw, Twin Conical Screw		
Alloy Type	Ni60	Colmonoy 56	Colmonoy 83
Alloy Components	Ni+Cr+Fe+Si	Ni+Cr+Si+Fe	Ni+Wc+Cr+C
Anti-Wearing Level	★★★	★★★	★★★★
Anti-Corrosion Level	★★★★	★★★★	★★★★
Alloy Thickness	1-1.5mm	1-1.5mm	1-1.5mm
Hardness	HRC 56-62	HRC 53-58	HRC 50-55
Base Steel Vastly Used	38CrMoAlA(1.8509), 34CrAlNi7(1.8550), 31CrMoV9(1.8519), 42CrMo(AISI4140)		

■ Mark in the list: ★★★★★ Excellent; ★★★ Very Good; ★★Good

Hardfacing on screw flights



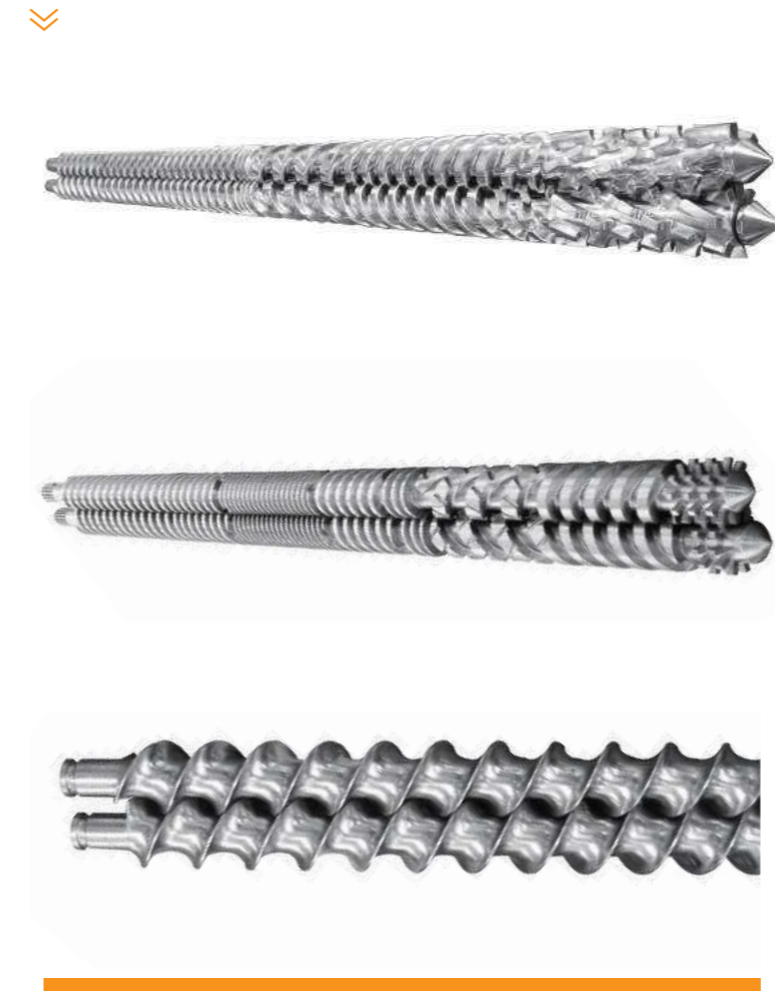
Parallel twin screw barrel are for extrusion machines making profile, tube, sheet, foam, plastic compounding etc, processing all kinds of polymer with a larger output, which is able to reach tons per hour at a specific size.

Bore Diameter Available	Φ20- Φ250 mm
Materials Available for Base Steel	38CrMoAlA(1.8509), 34CrAlNi7(1.8550), 31CrMoV9(1.8519), 40Cr, 42CrMo, SKD61, SS304
Range of Working Length	Bimetallic Screws: 10 meters long max Nitriding Screws: 10 meters long max Nitriding Barrels: 10 meters long max
Surface Treatment	Bimetallic, Nitriding, Through-hardened, Chrome-Plated
Surface Roughness	Ra0.4μm
Surface Straightness	0.015mm
Thickness of Bimetallic Layer	Bimetallic Screws: 1.0~1.5mm; Bimetallic Barrels: 2.0~3.0mm
Thickness of Nitriding Layer	0.4~0.7mm



Both parallel twin screw and twin barrel could be made in bimetallic treatment. Bimetallic screw is hardfacing on the screw flights and overall Nitrided. For bimetallic parallel twin barrel, we first produce bimetallic liners and then lining into the barrel housing.

Bore Diameter Available	Φ20- Φ250 mm
Materials Available for Base Steel	38CrMoAlA(1.8509), 34CrAlNi7(1.8550), 31CrMoV9(1.8519), 40Cr, 42CrMo, SKD61, SS304
Range of Working Length	Bimetallic Screws: 10 meters long max Nitriding Screws: 10 meters long max Nitriding Barrels: 10 meters long max
Surface Treatment	Bimetallic, Nitriding, Through-hardened, Chrome-Plated
Surface Roughness	Ra0.4μm
Surface Straightness	0.015mm
Thickness of Bimetallic Layer	Bimetallic Screws: 1.0~1.5mm; Bimetallic Barrels: 2.0~3.0mm
Thickness of Nitriding Layer	0.4~0.7mm





Our standard conical twin screw barrel are 35/80, 45/90, 50/105, 55/110, 65/132, 80/143, 92/188, 110/220 ect.

Per different additive, for example low CaCo₃, medium CaCo₃, high CaCo₃, we design differently to offer the best performance and a service time as longer as possible.

Bore Diameter Available	30/70 – 188/330
Materials Available for Base Steel	38CrMoAlA(1.8509), 34CrAlNi7(1.8550), 31CrMoV9(1.8519), 40Cr, 42CrMo, SKD61, SS304
Range of Working Length	Bimetallic Screws: 10 meters long max Nitriding Screws: 10 meters long max Nitriding Barrels: 10 meters long max
Surface Treatment	Bimetallic, Nitriding, Through-hardened, Chrome-Plated
Surface Roughness	Ra0.4μm
Surface Straightness	0.015mm
Thickness of Bimetallic Layer	Bimetallic Screws: 1.0~1.5mm; Bimetallic Barrels: 2.0~3.0mm
Thickness of Nitriding Layer	0.4~0.7mm



The conical twin screw barrel are widely used on processing granulation, panel, PVC profile, PVC pipe etc.

A large quantity of co-rotating and counter-rotating conical twin screws barrels are produced every year in our factory. We keep some types semi-finished in stock like 55/110,65/132, which enable us to provide a much shorter delivery time.

Bore Diameter Available	30/70 – 188/330
Materials Available for Base Steel	38CrMoAlA(1.8509), 34CrAlNi7(1.8550), 31CrMoV9(1.8519), 40Cr, 42CrMo, SKD61, SS304
Range of Working Length	Bimetallic Screws: 10 meters long max Nitriding Screws: 10 meters long max Nitriding Barrels: 10 meters long max
Surface Treatment	Bimetallic, Nitriding, Through-hardened, Chrome-Plated
Surface Roughness	Ra0.4μm
Surface Straightness	0.015mm
Thickness of Bimetallic Layer	Bimetallic Screws: 1.0~1.5mm; Bimetallic Barrels: 2.0~3.0mm
Thickness of Nitriding Layer	0.4~0.7mm





We do customized single screw barrel for the extrusion machines processing almost all kinds of polymers and recycled plastics. The diameter could be from Dia.14mm to Dia.500mm. The length could reach as long as 10,000mm

Bore Diameter Available	Φ14- Φ500 mm
Materials Available for Base Steel	38CrMoAlA(1.8509), 34CrAlNi7(1.8550), 31CrMoV9(1.8519), 40Cr, 42CrMo, SKD61, SS304
Range of Working Length	Bimetallic Screws: 10 meters long max; Nitriding Screws: 10 meters long max Nitriding Barrels: 10 meters long max
Surface Treatment	Bimetallic, Nitriding, Through-hardened, Chrome-Plated
Surface Roughness	Ra0.4μm
Surface Straightness	0.015mm
Thickness of Bimetallic Layer	Bimetallic Screws: 1.0~1.5mm; Bimetallic Barrels: 1.5~3.0mm
Thickness of Nitriding Layer	0.4~0.7mm



The screw mixer takes an important role on the screw plasticizing, various mixers are available for designing, such as Maddock Mixer, Pineapple Mixer, Saxton Mixer etc. We produce also the feeding section for barrel, including the feed housing, feed liner, water jacket.



All mixers are available for a better plasticizing performance





Rubber screw barrel are for rubber extrusion machines making all kinds of rubber products, like rubber pipe, rubber film, tire, cable rubber coating etc. Pin screw barrel and conical feed screw barrel are two widely used types among rubber screw barrel. We do customized and also refurbishment.

Bore Diameter Available	Pin Screw Barrel: $\Phi 60\text{-}\Phi 500\text{mm}$ Hot/Cold feed rubber screw barrel: $\Phi 60\text{-}\Phi 650\text{mm}$
Materials Available for Base Steel	38CrMoAlA(1.8509), 34CrAlNi7(1.8550), 31CrMoV9(1.8519), 40Cr, 42CrMo, SKD61, SS304
Range of Working Length	Bimetallic Screws: 10 meters long max; Nitriding Screws: 10 meters long max Nitriding Barrels: 10 meters long max
Surface Treatment	Bimetallic, Nitriding, Through-hardened, Chrome-Plated
Surface Roughness	Ra0.4 μm
Surface Straightness	0.015mm
Thickness of Bimetallic Layer	Bimetallic Screws: 1.0~1.5mm; Bimetallic Barrels: 2.0~3.0mm
Thickness of Nitriding Layer	0.4~0.7mm



We produce injection screw barrel per drawing or per some machine brands or codes. All accessory parts are available, such as

- Screw Tip
- Non-Return Valve
- Nozzle
- Check Ring
- End Cap

Bore Diameter Available	$\Phi 16\text{mm}\text{-}\Phi 317\text{mm}$
Materials Available for Base Steel	38CrMoAlA(1.8509), 34CrAlNi7(1.8550), 31CrMoV9(1.8519), 40Cr, 42CrMo, SKD61, SS304
Mould Clamping Force	250T~3200T
Injection Capacity	30g~25000g
Range of Working Length	Bimetallic Screws: 10 meters long max; Nitriding Screws: 10 meters long max Nitriding Barrels: 10 meters long max
Surface Treatment	Bimetallic, Nitriding, Through-hardened, Chrome-Plated
Surface Roughness	Ra0.4 μm
Surface Straightness	0.015mm
Thickness of Bimetallic Layer	Bimetallic Screws: 1.0~1.5mm; Bimetallic Barrels: 2.0~3.0mm
Thickness of Nitriding Layer	0.4~0.7mm





Screw element, shaft and barrel section could be customized or designed as per request.

Steel for screw elements: W6Mo5Cr4V2, 38CrMoAlA

Steel for barrel sections: 40Cr, 38CrMoAlA, SKD61

Treatment: Quenching, Nitrided, Bimetallic

Bore Diameter Available	Φ15.6mm-Φ250mm
Materials Available for Base Steel	38CrMoAlA(1.8509), W6Mo5Cr4V2, SS304, SS316
Range of Working Length	Any length requested
Surface Treatment	Bimetallic, Nitriding, Through-hardened, Chrome-Plated
Surface Roughness	Ra0.4μm
Surface Straightness	0.015mm
Thickness of Bimetallic Layer	Bimetallic Screws: 1.0~1.5mm; Bimetallic Barrels: 1.5~3.0mm
Thickness of Nitriding Layer	0.4~0.7mm



Pump screw, barrel and gear are widely used for the following industries:

-  Oilfield
-  Petrochemical Industry
-  Shipbuilding Industry
-  Thermal Power Plants
-  Paints Industry



Planetary screw barrel are for Rigid, Semi-Rigid and Soft PVC products.

Comparing to normal screw barrel, it has a better performance on plasticization and self-cleaning.

The big output could be 500-5000kgs/h.

