



W6Mo5Cr4V2 Twin Screw Extruder Components for PEEK PPS Specialty Plastics Processing High Torque Wear Resistance

Our Product Introduction

for more products please visit us on extrudergranulator.com

Basic Information

- Place of Origin: Nanjing China
- Brand Name: HLD
- Certification: SGS/ISO9001/CE
- Model Number: H-TSE35B/H-TSE50B/H-TSE65B/H-TSE75B/H-TSE95B
- Minimum Order Quantity: 1/set
- Price: face to face /set
- Packaging Details: Bubble wrap/ Wrap film/ Wooden box
- Delivery Time: 35~45 Days
- Payment Terms: T/T,
- Supply Ability: 200~500 set/year



Product Specification

- Name: Twin Screw Extruder
- Feeding System: Volumetric/Gravimetric
- Screw Design: Twin Screw
- Screw Elements Material: W6mo5cr4V2
- Electrical Brand: Siemens/ABB/Schneider/Delta/Omron/Other
- Screw Rpm: 60-600
- Heater: Copper Or Aluminum Heater/Heating Rods
- OEM: Support
- Transport Package: Wooden Box, Bubble Film, Wrapping Film
- Output: 60kg/h~custom
- Raw Material: PEEK PPS Or Other
- Pelletizing System: Strand Pelletizing/Die Face Pelletizing/Underwater



More Images



Product Description

Product Description

W6Mo5Cr4V2 alloy twin-screw extruder components deliver unmatched durability for high-temperature engineering plastics. Engineered with vacuum gradient heat treatment (HRC67-69 hardness) and laser-cladded titanium carbide coating (0.3mm thickness), these screws achieve 45% higher wear resistance than conventional H13 steel, ensuring stable processing of PEEK, PPS, and PEI at 600°C+ for 8,000+ hours. The helical self-cleaning design eliminates material buildup, reducing downtime by 30% in carbon fiber-PEEK compounding.

Applications

- Medical Device Molding:** Processes ISO 10993-certified PEI/PPSU for surgical tools, withstanding 134°C autoclaving for 500+ cycles.
- EV Battery Components:** Enables continuous production of carbon fiber-reinforced PEEK trays (600°C, 48h non-stop), cutting energy costs by 18%.
- High-Load Industrial Parts:** Processes PA66+50% GF composites with <50ppm metal contamination for automotive gears.

After-Sales Service

- Lifetime Technical Support:** 24/7 remote diagnostics for screw wear analysis and process optimization.
- Global Spare Parts Network:** Guaranteed 72-hour delivery of matched barrel-screw sets (10-year inventory backup).
- 3-Year Warranty:** Extended coverage for heat/corrosion damage, including free recoating services.

Model	L/D	Output
H-20B	28~60 :1	5~20kg/h
H-36B/40B	28~60 :1	60~150kg/h
H-50B/52B	28~60 :1	150~250kg/h
H-65B	28~60 :1	300~500kg/h
H-75B	28~60 :1	500~750kg/h
H-95B	28~60 :1	800~1500kg/h

Applications

Filling modification	PE, PP, EVA, ABS, PC, PS, etc.+calcium carbonate, talc, glass beads,
	SiO ₂ , aluminum hydroxide. Magnesium hydroxide, brocade oxide, sulfuric acid
	PP, PA, ABS, etc. + iron powder, magnetic powder, aluminum powder, stainless steel wire, ceramic powder
Blending modification(rubber and plastic compounding, plastic alloy	PE, PP, PS+SBS, PP, PA+EPDM, POE, PP+NBR, EVA + silicone rubber, etc.
	PA, PC+ABS: ABS+TPU: PBT+PET: PP+PE, etc.
Masterbatch	PE, PP, ABS, EVA, PS, PBT, PET, etc. + pigments and other additives
	Biodegradable masterbatch: PE, PS, PP + starch, etc.
	Flame retardant masterbatch: PE, PP, PA, ABS, PBT, etc. + flame retardants and other additives
Functional masterbatch	Polyethylene master batch,anti-fog and anti-aging, high thermal insulation masterbatch, cooling masterbatch, rheology modified masterbatch
	anti-rust masterbatch, stiffening masterbatch, antistatic masterbatch, antibacterial masterbatch
	Carbon black masterbatch: PE, EVA, ABS, PET, etc. + carbon black
Glass fibre (Carbon fibre)Reinforcement (MD model short fibre)	PP, PBT, ABS, AS, PA, PC, POM, PET, PEEK, PPO, PES, etc. + long glass fiber or short glass fiber
	PP, PBT, ABS, AS, PA6, PA66, PC, POM, PET, etc. + long carbon fiber or short carbon fiber
Thermoplastic elastomer	TPR, TPU, TPV, SBS, SEBS, SIS, etc
	EVA, PU hot melt adhesive, silicone adhesive, UHMWPE spinning
	Fluororubber, fluoroplastics, LCP, PEEK, PES, PL, PSU, etc.
Special material	Optical cable covering material, acetate fiber, PP cigarette filter material, conductive plastic
	TPR, PU, EVA foam sole material
	Luminous plastics, antibacterial plastics, anti-UV plastics, PE cross-linkable pipe materials food, pet feed
Various cable materials	HDPE, LDPE, LLDPE, MDPE, PP, EVA Insulation material, sheath material, PF Radiation cross-linked cable material, PE Silane cross-linked cable material
	Flame retardant polyolefin cable materials, low smoke halogen-free flame retardant cable materials
Reactive extrusion	Low smoke and low halogen flame retardant PVC cable material
	Polyamide polycondensation reaction, polyester melt polymerization reaction, polyurethane polycondensation reaction, polycarbonate polycondensation reaction, polyoxymethylene bulk continuous polymerization reaction, PMMA polymerization
Devolatilization	Chlorinated polypropylene, chlorosulfonated polyethylene, fluorine rubber, butadiene rubber, SBS, EPDM, SEBS, SIS, etc.
Powder coating	Polyester type, epoxy type, acrylic vinegar type, polyurethane type, acrylic vinegar, phenol resin, etc.





FAQ

1:How many years of experience do you have?

Over 15 years experience in extruder industry.

2:Are you traders or manufacturers?What is the area of the factory?

We are manufacturer,The factory is over 5000 square meters.

3:Screw and barrel accessories, who is produced?

Our factory manufactures it ourselves

4:Can I have a sample order for extruder?

Yes, we welcome sample order to test and check quality. Mixed samples are acceptable.

5:How to proceed an order for ?

Firstly ,let us know your requirements or application.

Secondly ,We quote according to your requirements or our suggestions.

Thirdly ,customer confirms the samples and places deposit for formal order.

Fourthly, We arrange the production.

Finally, arrange delivery

6: Provide technology and formula?

For orders over a certain amount, we will provide the technology and formula to help you complete the project.

7: Have a catalogue?

[HLD Album.pdf](#)



Nanjing Henglande Machinery Technology Co., Ltd.



+86 15251884557



jayce@hldextruder.com



extrudergranulator.com

NO.11,Qinghu Road,Hushu Town,Jiangning District,Nanjing,china.