1. Product Introduction

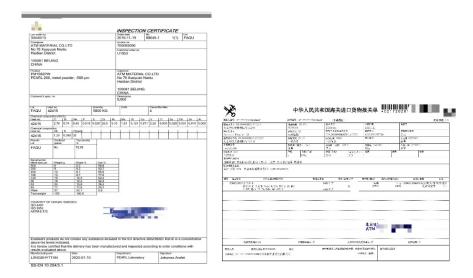
Compared with traditional metallurgy process, such as casting, forging, the materials made by PM-HIP have fine grain, uniform microstructure, and higher bonding strength with base materials. Therefore, the properties, such as wear resistance, strength and toughness have been enhanced significantly, which improved the service life of key parts of machine, such as screw and barrel. The PM-HIP has become one of important technologies in the advanced screw and barrel manufacturing.

As a leading enterprise in the field of new materials in china, AT&M has been committed to the research and development of high wear resistance and corrosion resistance alloy system in the field of plastic machinery for many years. At present, AT&M has provided customers with HIP all-alloy screw and bimetallic composite barrel in batch. Its annual production capacity is >1000 sets, which can completely replace imported products.

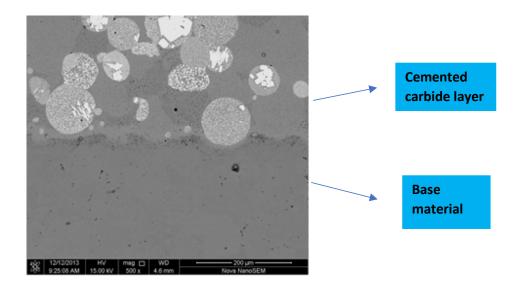
		specification	
Extruder machine	screw	diameter φ14mm~φ70mm,length≤2000mr	
	barrel	4. com	
Injection molding machine	screw	cemented carbide layer thickness>1.5mm, innerda meterφ15~φ70mm, length≤2300mm	
	barrel		

2. Advantage

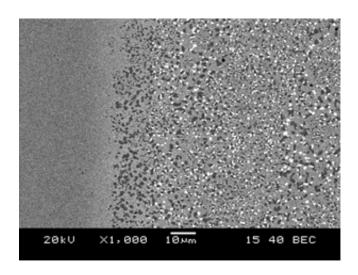
1. The use of raw materials is consistent with that of international well-known suppliers, and we keep purchasing and updating quarterly.



2. The HIP process is basically the same as that of foreign merchants, the metallographic structure as follows:



microstructure of Ni-based products



microstructure of Co-based products

3. Products have strict ex-factory inspection and attached with qualified label.





4. Reasonable price and short delivery time (about 30days)

5. product performance

HIP high performance screw, barrel

	main component			corrosion
No.	of the cemented	hardness	wear resistance	resistance
	carbide layer			
ATM-	Co-based metal	50HRC		
BMS-1	ceramic			
ATM-	Co-based metal	55HRC		
BMS-2	ceramic			
ATM-	Co-based metal	59HRC		
BMS-3	ceramic			
ATM-	powder alloy	60HRC		
BMS-4	steel			
ATM-	powder alloy	64HRC		
BMS-5	steel			
ATM-	powder alloy	58HRC		
BMS-6	steel)			
ATM-	Co-based metal	55HRC		
BMT-1	ceramic			
ATM-	Co-based metal	59HRC		
BMT-2	ceramic			
ATM-	Ni-based metal	55HRC		
BMT-3	ceramic			
ATM-	Ni-based metal	59HRC		
BMT-4	ceramic			
ATM-	Ni-based ceramic	62HRC		
BMT-5				

6. Pictures



2100mm injection molding machine barrel blanks



extruder machine screw blanks



injection molding machine barrel blanks



injection molding machine screw