

SCREWS PROFESSIONAL MANUFACTURER

Super Wear Resistant Screw Barrel
Nitrided & Chrome Plated Tie Bar



OUR ADVANTAGES



FAST TURNAROUND

Based in the dynamic port city of Ningbo, we complete and ship your orders quickly. You can count on us to deliver high quality products on time.



FULL YEAR WARRANTY

We are confident with providing a one-year warranty on materials and workmanship on all our products.



COST EFFECTIVE

We strive to exceed client expectations with our products and services. Comprehensive pre-planning insures all work is done in cost-effective manner.



MEASUREMENT DEVICES

DW Machinery offers a complete line of highly accurate bore gauges and wear measurement devices.



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DW MACHINERY

Newly founded in the year of 2020 as part of East Prospects Int'l Trading Group (short as East Prospects), Ningbo DW Plastics Machinery Co., Ltd. (short as DW Machinery) is specialized in the production and trading of various precision parts used on plastic injection molding and extrusion machinery, including screws, barrels, tie bars, pistons and related machining parts.

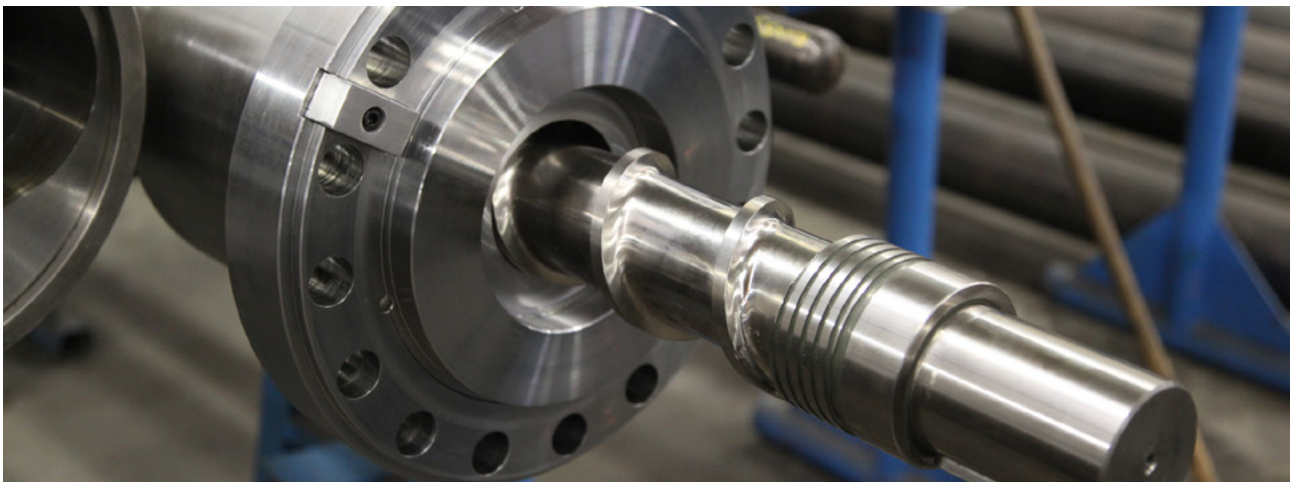
For providing quality precision parts with super wear-resistance, corrosion-resistance, high-pressure and high-speed resistance, our team consists a number of engineers, technicians and sales personnel who possess extensive industry experience and expertise.

In order to meet our customers' needs, DW Machinery independently develops, designs and innovates, and has obtained a number of product patents. Also, as an ISO9001 certified company, we continue to improve Quality Control System through precise inspection during every step of the production.

DW Machinery owns series of advanced equipment, such as CNC Machining Center, CNC Turning Machine, Inner Hole Grinding Machine, 13 Meters Deep Hole Boring Machine, NC drilling machine, Nitriding Furnace Computer Control System, Centrifugal Casting Furnace, PTA Bimetallic Spraying Equipment, gear milling machine and so on.

We believe that high quality products, as well as excellent sales and after-sales service, are the key to building long-term customer relationship. Our customer service team strives to help you to solve any problems that you may encounter.

DW Machinery is aiming to earn the reputation as an innovator and industry leader in the manufacturing of precision parts. Customers ranging from start-up ventures to Fortune 500 corporations, all will receive the same innovative service and personal attention that is DW Machinery.



DW EQUIPMENT

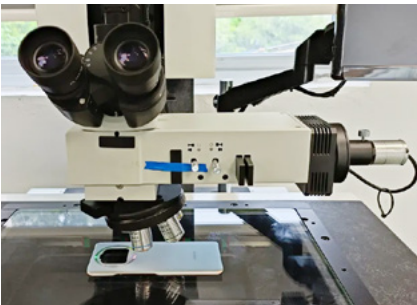
CENTRIFUGAL CASTING EQUIPMENT

Imported centrifugal casting equipment, can produce various Fe-based, Ni-based & Co-based bimetallic barrels as per requirement.

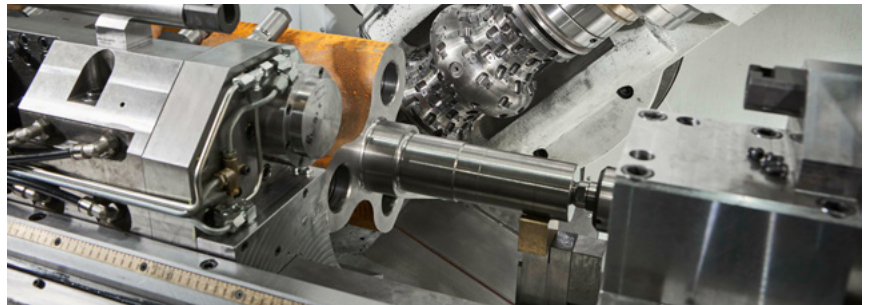


PLASMA TRANSFERRED ARC WELDING MACHINE

Replacing traditional manual spray, PTA can significantly improve production efficiency & bimetallic precision.



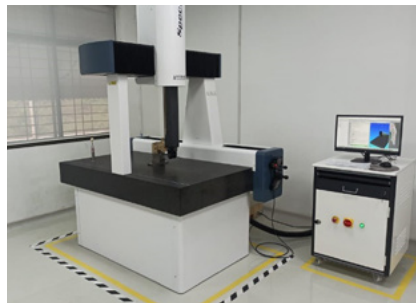
Metallographic Microscope



CNC Grinding Machine



Rockwell Hardness Tester



Coordinate Measuring Machine



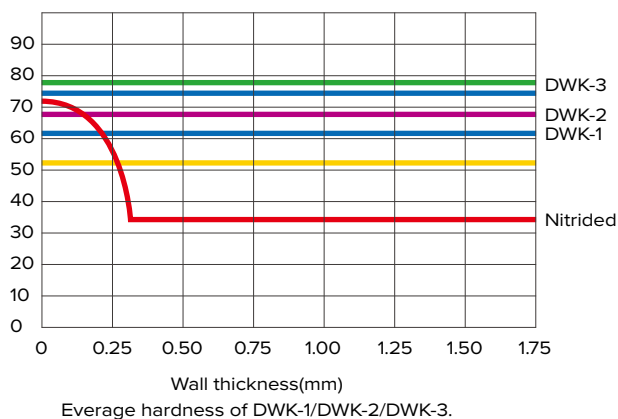
Bruker Spectrometer

FOR BARRELS

DW Machinery invested in metallurgical research and this allowed us to offer an exclusive range of bimetallic alloys that solve wear problems. The bimetallic alloys are produced in modern sophisticated centrifugal casting facilities.

The advantage of our bimetallic alloys is the high and homogeneous hardness throughout the whole layer thickness which ranges from 1.5 to 2 mm thickness. The

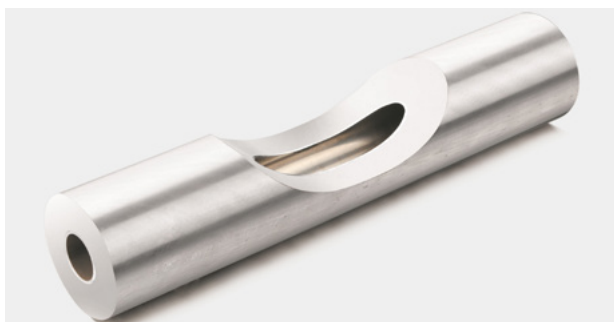
lifetime increase of the bimetallic cylinder against a nitrided cylinder may exceed 12 times or more. The price-quality-lifetime ratio is therefore very beneficial for the bimetallic cylinder. We have three different alloy solutions listed in the table below. We qualified the quality of the different alloys according abrasion and or corrosion resistance to enable a quick selection.



DWK series bimetallic alloys for barrels

Type	Composition (Weight%)								
	Cr	C	Fe	B	Si	W *	Mn	Ni	Others
DWK-1	8	1.2	Bal	4.3	4	/	0.65	10.8	< 1.0
DWK-2	8	1.4	5	4	3.3	16.5	0.5	Bal	< 1.0
DWK-3	8	1.4	5	4	3.3	40.0	0.5	Bal	< 1.0

* Highest composition of tungsten carbide can go up to 45%, which enables the barrels have 5 times wear-resistance capability than normal bimetallic barrels and up to 60% glass fibre filling in general & engineering plastics materials.



Type	Alloy Components	Hardness (HRC)	Abrasive Resistance	Corrosion Resistance	Applications
DWK-1, C	Fe, Cr, Ni	56 - 60	★	★	Recycling & engineering plastics, reinforced additives less than 20%.
DWK-2, B	Ni, W, Cr	58 - 62	★★	★★	Moderate corrosive, reinforced additives less than 35%.
DWK-3, A	Ni, W, Cr	60 - 64	★★★	★★	High abrasive and moderate corrosive plastics.

* Suitability: (★good) to (★★★ excellent).

FOR SCREWS

DW Machinery offers a full range of single and twin screws. Based on our extensive experience, we offer different materials types and treatments to fight wear. The materials range from nitriding steels, stainless steels, tool steels up to steels produced by powder technology (PM).



DWS series bimetallic alloys for screws

Type	Alloy Components	Hardness (HRC)	Abrasive Resistance	Corrosion Resistance	Applications
DWS-1	Ni, Cr, Si	52- 56	★	★	Recycling & engineering plastics.
DWS-2	Ni, Cr, W	54- 58	★★	★	Engineering plastics, reinforced additives less than 20%.
DWS-3	Co, Cr, W	44 - 48	★	★★	Reinforced additives and corrosive plastics less than 15%.

* Suitability: (★good) to (★★★ excellent).

Comparison of three different coating technologies.

Coating Method	Coating Type	Coating Thickness (mm)	Hardness (HV)	Max. Length (mm)	Applications
Chrome plating	Chromium	0.02 – 0.08	650 – 720	6000	Transparent products & corrosive plastics processing.
PVD	TiN, CrN, AlTiN	0.002 – 0.003	2000 – 2200	1900	Optical products & abrasive plastics processing.
HVOF	Tungsten carbide	1.0 - 1.5	1100 – 1400	2300	High abrasive plastics processing.

* Remark: The material listed above are for our regular use, and are subject to change without notice. The hardness and application depend on the specific requirements. The information in the table is for your reference only.

FOR BASE MATERIALS

Here is a list of our regular base materials.

DW	China	Japan	USA	Germany	Hardness	Applications
CODE	GB	JIS	AISI/SAE	DIN	HV 950-1000	Common plastic
DWN1	38CrMoAl	SACM645	6470E	41CrAlMo7	HRC 42-55	Bimetallic base
DWN2	40Cr	SCr440	5140	1.7035	HRC 48-52	Tiebar
DWN3	42CrMo	SCM440	4140	1.7223	HRC 42-46	Accessories
DWN4	45#	S45C	1045	1.1191	HRC 56-58	Engineering plastic
DWH5	Cr12MoV	~SKD11	D5	1.2601	HRC 50-52	Engineering plastic
DWH6	4Cr5MoSiV1	SKD61	H13	1.2344	HRC 56-58	Corrosive plastic
DWH7	9Cr18MoV	SUS440b	440B	1.4112	HRC 54-60	<30% Glass fibre
DWG1	★Confidential				HRC 60-65	<50% Glass fibre
DWG2					HRC 58-62	<40% Glass fibre
DWG3					HRC 62-65	>50% Glass fibre
DWG4					HRC 62-65	>50% Glass fibre
DWG5					HRC62-65	>50% Glass fibre
DWG6					HRC 50-56	Optical products
DWG7					HRC 56-58	>300OC temperature
DWG8						

* Remark: The material listed above are for our regular use, and are subject to change without notice. The hardness and application depend on the specific requirements. The information in the table is for your reference only.

PLASTICS PROCESSING

DW Machinery manufactures bimetallic and nitrided screw barrel sets for all applications and major makers of plastic processing equipment.

FOOD PROCESSING AND EXTRUSION

Single and twin screw extrusion is used to process a variety of foods for human and pet consumption. Common extruded foods include sausages, processed meats, dough, pasta, cereals, snack foods, candy and animal feeds. DW Machinery manufactures monolithic Stainless steel screw barrel sets for ultra pure applications.

MELT BLOWN NON-WOVEN FABRIC EXTRUSION

Various screw barrel sets with customised design for melt blown non-woven fabric extrusion machines are available from DW Machinery.

RUBBER PROCESSING

DW Machinery manufactures bimetallic masticating barrels and liners for all types of rubber injection molding, cold and hot feed rubber twin and single screw extrusion machinery. Our products are found worldwide operating in mild to severe abrasion and corrosion wear environments.

METAL DIE CASTING (TIEBARS)

We are specialized in manufacturing nitrided tie bars and traditional chrome plated tie bars injection molding machine and die-casting machine, together with matching guide rods, piston rods and other plastic machinery accessories.

BAKELITE AND THERMOSET INJECTION MOLDING, EXTRUSION

DW Machinery manufactures bimetallic barrels and liners for all makes and types of bakelite & thermoset injection molding machinery. Our products are found worldwide operating in mild to severe abrasion and corrosion wear environments.

SILICONE PROCESSING

- Alloys for the full range of LSR, HTV and elastomer process environments.
- Wear solutions from complex to general-purpose applications.
- High performance alloys to sustain wear life and peak production.
- Custom design or manufactured to print.



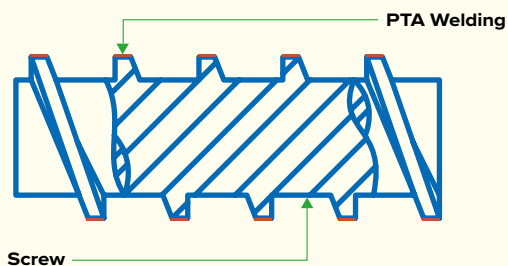
BIMETALLIC SCREW



PTA (Plasma Transferred Arc) automatic alloy spraying is a newly applied technology, especially for precise requirement of screws. Comparing to traditional manual alloy spraying, PTA has better performance with the stability and outlook of screws.

Advantages

By spraying high quality alloy powder on screw flight with layer thickness 1.5-2.0mm, screws can get higher performance in both wearing & corrosion resistant performance.



Technical Parameters

Product Name	Bimetallic Screw
Material	DWN1 + DWS Series Alloy
Suitable Machine	Injection / Extrusion / Blowing
Available Size	Φ14-400mm, Length <8,000mm
Process Method	PTA Spray
Surface Hardness	46-58 HRC
Surface Roughness	< Ra 0.8
Screw Straightness	< 0.02mm/m

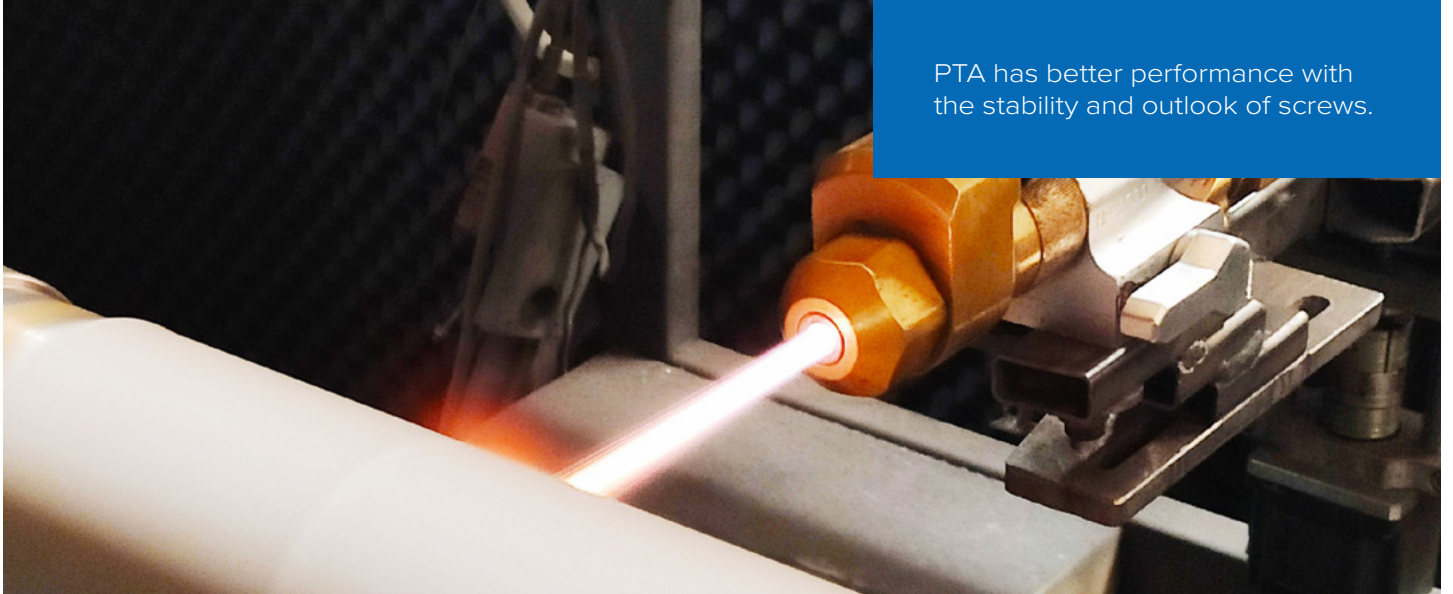
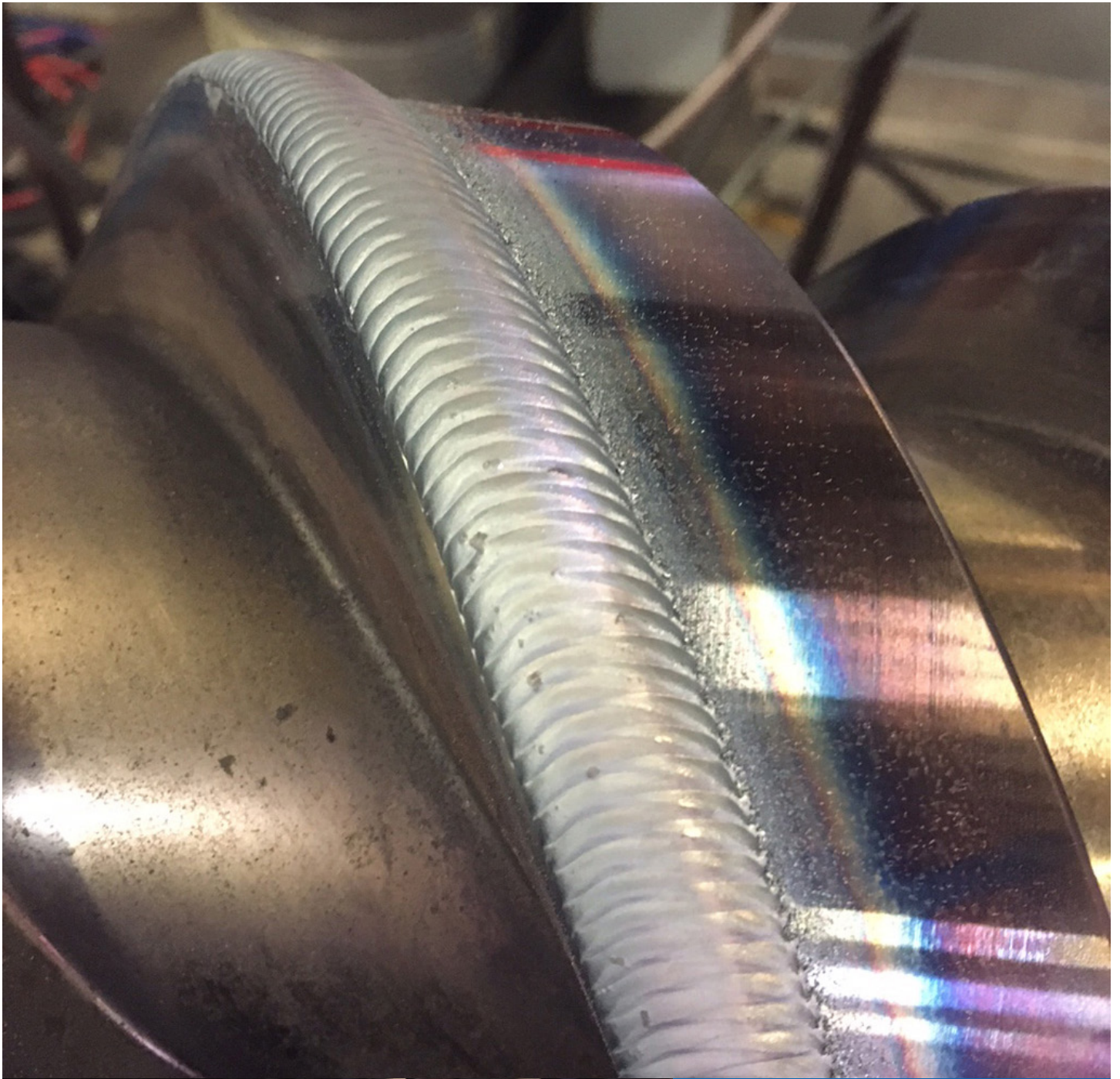
Application

General plastics & engineering plastics with below 15% glass fibre filling.

DWS SERIES ALLOY

At this stage, we have DWS-1, DWS-2 and DWS-3 alloy types and treatments for wear fighting.

Type	Alloy Components	Hardness (HRC)	Abrasion Resistance	Corrosion Resistances	Applications
DWS-1	Ni, Cr, Si	52-56	★	★	Recycling & Engineering Plastics.
DWS-2	Ni, Cr, W	54-58	★★	★	Engineering Plastics, Reinforced Additives Less Than 20%.
DWS-3	Co, Cr, W	44-48	★	★★	Reinforced Additives And Corrosive Plastics Less Than 15%.



PTA has better performance with the stability and outlook of screws.



THROUGH HARDENED SCREW

We use imported or local made special steel materials for Through Hardened Screws, including DWG1, DWG2, DWG3 ... DWG8. After series of quench & annealing processes, to achieve high toughness & hardness, they are especially suitable for high wearing materials and production processing.

Technical Parameters

Product Name	DWG Series Through Hardened Screws
Material	DWG1, DWG2, DWG3 ... DWG8
Suitable Machine	Injection / Extrusion / Bakelite Machine
Available Size	Φ14 - 150mm, Length < 5,000mm
Treatment	Quenching & Annealing
Hardness	58 - 65 HRC
Surface Finish	Ra≤0.2
Concentricity (R/D, O/D)	≤0.02mm

DWG1 Through Hardened Screw

Material Name	DWG1
Main Components	C, Cr, V, Mo, Mn
Hardness Range	56-60HRC
Performance	Wear resistance

Applicable Plastics General plastics, PA, LCP, PBT, POM with glass fiber less than 30% and transparent PC.

DWG2 Through Hardened Screw

Material Name	DWG2
Main Components	C, W, Mo, Cr, V
Hardness Range	60-65HRC
Performance	Super wear resistance

Applicable Plastics General plastics, PA, LCP, PBT, POM, PPSU, PEEK, PEI, etc. with glass fiber less than 50%.

DWG6 Through Hardened Screw

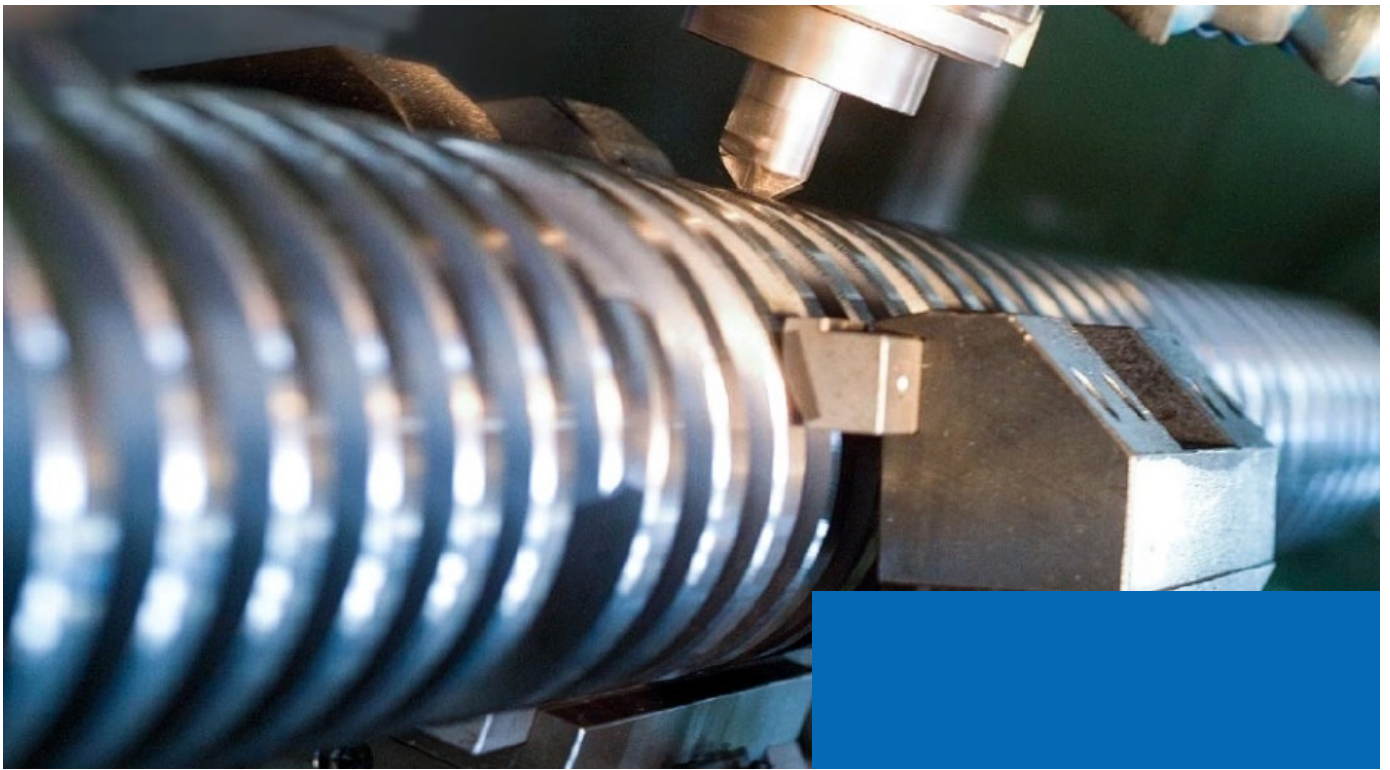
Material Name	DWG6
Main Components	C, W, Mo, Cr, V
Hardness Range	62-65HRC
Performance	Ultra high wear resistance and corrosion resistance

Applicable Plastics PEP, PEP, POP, etc. With less than 70% glass fiber.

DWG7 Through Hardened Screw

Material Name	DWG7
Main Components	C, Cr, Mn, V
Hardness Range	50-56HRC
Performance	Wear resistance, high corrosion resistance

Applicable Plastics Mainly applicable to optical products requiring high finish and strong corrosion resistance.



Advantages

High toughness and hardness with high temperature resistance and corrosion resistance, which can greatly meet the high qualified rate of customers' final products.

Application

General plastics & engineering plastics with below 70% glass fibre filling.

DWG3 Through Hardened Screw

Material Name	DWG3
Main Components	C, Cr, Mo, Mn, V
Hardness Range	58-62HRC
Performance	High wear resistance
Applicable Plastics	General plastics and engineering plastics, PA, LCP, PBT, POM, PPSU, PEI with glass fiber less than 40% and transparent PC.

DWG4 Through Hardened Screw

Material Name	DWG4
Main Components	C, W, Mo, Cr, V
Hardness Range	62-65HRC
Performance	Super wear resistance, corrosion resistance
Applicable Plastics	General plastics and engineering plastics, PA, LCP, PBT, POM, PPSU, PEEK, PEI with glass fiber less than 50% and other special plastics.

DWG8 Through Hardened Screw

Material Name	DWG8
Main Components	C, Ni, Co, Cr
Hardness Range	56-58HRC
Performance	wear resistance, corrosion resistance
Applicable Plastics	Suitable for high-temperature plastics with molding temperature higher than 300°C. (not applicable to plastics with low molding temperature).

Halogen Free Special Screw

Material Name	Halogen Free Screw
Main Components	W, Cr, Ni
Hardness Range	62-67HRC
Performance	ultra-high wear resistance, ultra-high corrosion resistance
Applicable Plastics	To special high glass fiber and ultra halogen-free plastics, such as PA46, PA4t, PA9T, PSM, DSM and other high acid and strong corrosion engineering plastics.



COATING SCREW

In Ningbo DW Machinery, we have three different coating technologies, including Chrome Plating, PVD Coating (TiN, CrN, AlTiN. Etc..) and HVOF Coating (Tungsten Carbide).

Comparison of three different coating technologies

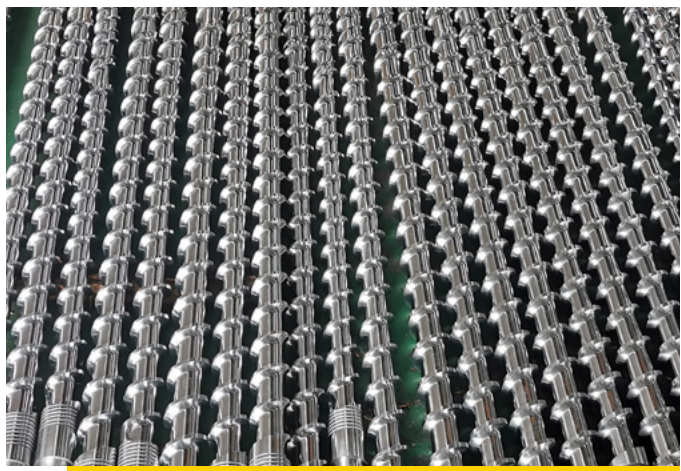
Coating Method	Coating Type	Coating Thickness (mm)	Hardness (HV)	Max.Length (mm)	Applications
Chrome Plating	Chromium	0.02 – 0.08	650 – 720	6000	Transparent Products & Corrosive Plastics Processing.
PVD	Tin, Crn, Altin	0.002 – 0.003	2000 – 2200	1900	Optical Products & Abrasive Plastics Processing.
HVOF	Tungsten Carbide	1.0 - 1.5	1100 – 1400	2300	High Abrasive Plastics Processing.

CHROME PLATING SCREW

Chrome plating is the technology of plating a thin layer of chromium on the surface of the screw. The chrome plating layer can improve the surface roughness, surface hardness and corrosion resistance.

Technical Parameters

Product name	Chrome Plated Screw
Material	DWN1
Surface treatment	Chromium electroplating
Suitable Machine	Injection / Extrusion / Blowing ...
Chrome thickness	0.02 - 0.08mm
Available sizes	Φ14-600mm, L < 8,000mm
Surface Hardness	650 - 720HV



HVOF COATING SCREW

HVOF (High Velocity Oxygen Fuel) coating process is a kind of thermal spraying technique that melted (or heated) materials are sprayed into the surface.

Advantages

By HVOF technology, alloy powder spraying is under high pressure and high velocity. The adhesive force is over 10000PSI, and the powder density can be achieved up to 99.8%, which offers outstanding performance in wear & corrosion resistance.

Application

Specially for Halogen-free material with below 65% glass fibre filling.

Technical Parameters

Product Name	Full Coating WC Screw
Material	DWG3
Surface treatment	HVOF Tungsten Carbide Coating
Suitable Machine	Injection / Extrusion / Blowing ...
Available Size	Φ14-80mm, L < 2,300mm
Surface Hardness	1100-1400 HV

PVD COATING SCREW

PVD Coating (Physical vapour deposition) is of high hardness and performance, which provide additional protection against abrasion & corrosion.

Application

Suitable for optical products & abrasive plastics processing.

Technical Parameters

Product Name	PVD Coating Screw
Material	DWG3
Surface treatment	PVD TiN Coating, PVD CrN Coating, PVD AlTiN Coating, etc.
Suitable Machine	Injection / Extrusion / Blowing ...
Available Size	Φ14-80mm, L < 1,800mm
Surface Hardness	2200-2500HV

SEVERAL MAIN PVD COATINGS:



Product Name	PVD CrN Coating
Coating Elements	Cr, N
Hardness	1800 HV
Coating Thickness	2-6 μm
Friction Coefficient	0.35
Applicable	700°C
Temperature	Silver grey
Coating Color	Glass fibre, metals, halogen free flame retardant



Product Name	PVD TiN Coating
Coating Elements	Ti, N
Hardness	2300 HV
Coating Thickness	2-6 μm
Friction Coefficient	0.4
Applicable Temperature	600°C
Coating Color	Golden yellow
Applications	PC PMMA ultra thin light guide plate (LGP)



Product Name	PVD AlTiN Coating
Coating Elements	Al, Ti, N
Hardness	3300 HV
Coating Thickness	2-6 μm
Friction Coefficient	0.4
Applicable Temperature	900°C
Coating Color	Purple black, Purple red
Applications	Fluomated polymer (PTFE, PVDF), polyarylether (PEEK, PPS, PSU, PES, PPE, PPO)

NITRIDED SCREW



Advantages

Automatic CNC lathe, milling machine equipment, deep hole boring machine, up to 10m depth nitriding and automatic heat treatment equipment;
Professional operators to ensure the accuracy of each process;
Various mixing heads design to meet the plasticizing requirements of different plastics.

Application

General plastics & engineering plastics with below 10% glass fibre filling.



Technical Parameters

Product Name	Nitrided Screw
Material	DWN1
Suitable Machine	Injection / Extrusion / Blowing
Available Size	Φ14 - 500mm, L < 8000mm
Process Method	Gas Nitriding
Surface Hardness	950-1000HV
Nitriding period	120 hours nitriding process
Effective Nitriding Depth	0.3-0.5mm
Max. Nitriding Depth	0.6-0.8mm
Surface Roughness	< Ra 0.8
Screw Straightness	< 0.02mm/m

CUSTOMIZE SCREWS

- Food processing screw
- PVC screw
- Rubber and silicone processing screw
- BMC screw
- Film blown screw
- Recycling screw
- Non woven fabric melt blown screw
- High injection speed screw



BIMETALLIC BARREL

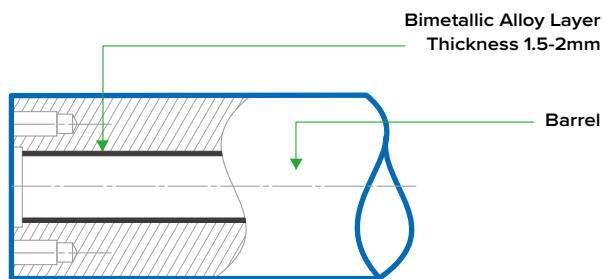
Centrifugal casting or rotocasting is a casting technique that is typically used to cast thin-walled cylinders. It is chiefly used to manufacture rotationally symmetric stock materials in standard sizes for further machining, rather than shaped parts tailored to a particular end-use.

Advantages

By casting and sintering high quality alloy powder on barrel inside surface with thickness 1.5-2.0mm, screws can get higher performance in both wearing & corrosion resistant performance.

Application

General plastics & engineering plastics with below 70% glass fibre filling.



Technical Parameters

Product Name	Bimetallic Barrel
Material	DWN3 + DWK Series Alloy
Suitable Machine	Injection / Extrusion / Blowing
Available Size	$\Phi < 500\text{mm}$, $L < 8000\text{mm}$
Process Method	Centrifugal Casting
Surface Hardness	52-62 HRC
Surface Roughness	<Ra 0.8
Screw Straightness	<0.02mm/m

We have DWK-1, DWK-2 and DWK-3 alloy types and wear treatment at present.

Type	Composition (Weight %)								
	Cr	C	Fe	B	Si	W *	Mn	Ni	Others
DWK-1, C	8	1.2	Bal	4.3	4	/	0.65	10.8	<1.0
DWK-2, B	8	1.4	5	4	3.3	16.5	0.5	Bal	<1.0
DWK-3, A	8	1.4	5	4	3.3	40.0	0.5	Bal	<1.0

* Highest composition of tungsten carbide can go up to 45%, which enables the barrels have 5 times wear-resistance capability than normal bimetallic barrels and up to 60% glass fibre filling in general & engineering plastics materials.



Type	Alloy Components	Hardness (HRC)	Abrasive Resistance	Corrosion Resistance	Applications
DWK-1, C	Fe, Cr, Ni	56 – 60	★	★	Recycling & engineering plastics, reinforced additives less than 20%.
DWK-2, B	Ni, W, Cr	58 – 62	★★	★★	Moderate corrosive, reinforced additives less than 35%.
DWK-3, A	Ni, W, Cr	60 – 64	★★★	★★	High abrasive and moderate corrosive plastics.

* Suitability: (★good) to (★★★ excellent).

NITRIDED BARREL



Advantages

Automatic CNC lathe, milling machine equipment, deep hole boring machine, up to 10m depth nitriding and automatic heat treatment equipment;
Professional operators to ensure the accuracy of each process;
Various mixing heads design to meet the plasticizing requirements of different plastics.

Application

General plastics & engineering plastics with below 10% glass fibre filling.

Technical Parameters

Product Name	Nitrided Barrel
Material	DWN1
Suitable Machine	Injection / Extrusion / Blowing
Available Size	$\Phi < 500\text{mm}$, $L < 8000\text{mm}$
Process Method	Gas or Plasma Nitriding
Control System	Computer Control
Surface Hardness	950-1000HV
Nitriding period	120 hours nitriding process
Effective Nitriding Depth	0.3-0.5mm
Max. Nitriding Depth	0.6-0.8mm
Surface Roughness	<Ra 0.8
Screw Straightness	<0.02mm/m

TWIN SCREW BARRELS



Parallel Twin Screw Barrel

Twin screw barrel is gradually adopted by many manufacturers because of its high efficiency. Compared with single screw barrel, twin screw barrel has higher requirements for machining clearance. Our company has a professional team to help users solve design problems, and can also process according to the samples or drawings provided by customers.

Conical Twin Screw Barrel

Suitable for PVC pipes, profiles, sheets and extrusion foaming products. Suitable for PE, PP corrugated pipe extrusion.

Advantages

Unique technical design with larger output; Advanced equipment with finest machining; Perfect match of tolerance.

Application

Suitable for RPVC, CPVC (both virgin & recycled material), PE pipe and granule.

Technical Parameters

Product Name	Parallel /Conical Twin Screw Barre
Base Material	DWN1
Available Size	$\Phi 35 - 188\text{mm}$, $L < 2500\text{mm}$
Process Method	Nitrided or bimetallic

ACCESSORIES FOR SCREW BARREL

END CAP/ INJECTION NOZZLE/
SCREW TIP/
FORCE-FEEDING UNIT



Utilizing the most advanced technology in both the design and manufacturing process, we manufacture a wide range of screw tips, injection nozzles, barrel end caps and forced feeding units, to meet the needs of today's injection molders.

ACE SERIES PLASTIC INJECTION MOLDING MACHINE

Clamping System

The five pivot toggle mechanism by advanced computer optimization, and the finite element analysis of guiding the optimal structure design, high safety, accuracy and life of lubricating protection system complete locking mechanism.

Injection System

A short powerful double cylinder injection system and high precision linear guide rail, with low inertia and high response mechanism to ensure smooth injection, injection and template deformation, Automatic cleaning bucket, anti salivation, anti cold start delay function, ensure the efficient, convenient and safe.

Hydraulic System

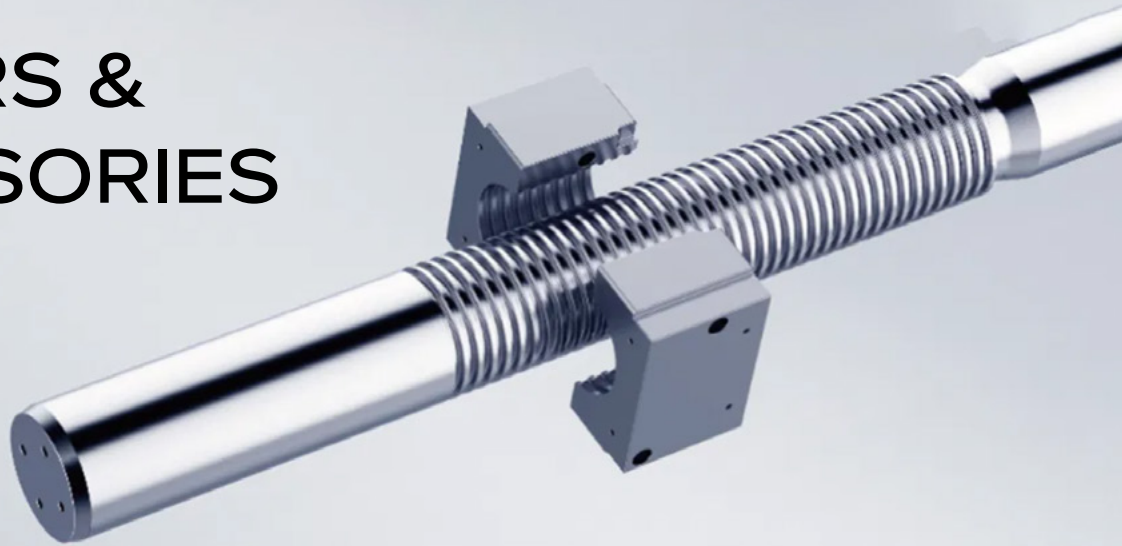
The hydraulic system is advanced by pressure and flow proportional control to achieve fast multi-stage pressure and speed switching, system configuration is reasonable, advanced, stable and reliable operation, the noise is lower than 75dB, The whole series of machines adopt two-way cartridge valve system.

Electric System

Operation excellence performance, user-friendly interface, enhance the sensitivity and stability of the machine, line curve detection function and central connection management, rich SPC quality management interface, is absolutely the best weapon of your profit.



TIE BARS & ACCESSORIES



Tie Bars

DW Machinery is specialized in manufacturing nitriding and chrome plated tie bars together with matching guide rods, piston rods, nuts and other accessories for injection molding machine, die casting machine and forging machine.

Pistons

Material: 45#, 40Cr, 42CrMo or casting.

Heat treatment: Blacking, galvanizing, salt bath nitriding, gas nitriding and others.

Nuts

We select material (such as 45#, 40Cr, 42CrMo and others) based on customer requirements and provide blacking, galvanizing, salt bath nitriding, gas nitriding and other heat treatment processes.

Aiksen Band Heater

Screw Gearbox

Application

Injection molding machine, die casting machine and forging machine, etc.

Technical Parameters

Product Name	Tiebar or Tie Bar
Material	DWN3
Heat Treatment	Quench & Temper
Surface Treatment	Nitrided or Chrome Plated
Chrome Thickness	0.05mm
Surface Hardness	>55 HRC
Max. Diameter	600mm
Max. Length	10000mm



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