


JEONG EUN
TUNGSTEN CARBIDE CO.,LTD

 (주)정은초경

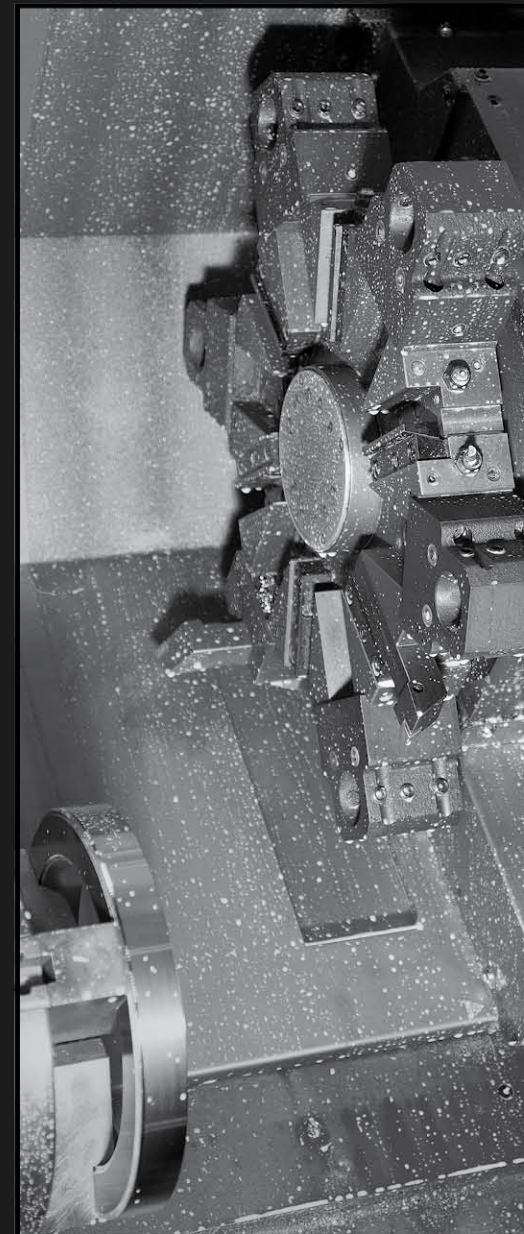
Information

Dear,

JEONG EUN TUNGSTEN CARBIDE CO., LTD is a specialist that manufactures pump car wear plate, wearing and tungsten carbide for wear-resistant, shock-resistant semiconductor, and cold forging mold tool with high precision and high quality. We hold the technology that can produce the best quality product with continuous technology development and quality management. Currently we are exporting our products to Southeast Asia and Japan etc.

We try to do the best effort in the strict process management and quality control from mixing to completion for the high quality tungsten carbide through continuous development and research in concrete pump car and mining product, we will try to be a company that contributes to the development of tungsten carbide and mold technology through the introduction of new facility and constant R&D. Thank you.

- Employees and executives
of JEONG EUN TUNGSTEN CARBIDE CO.,LTD

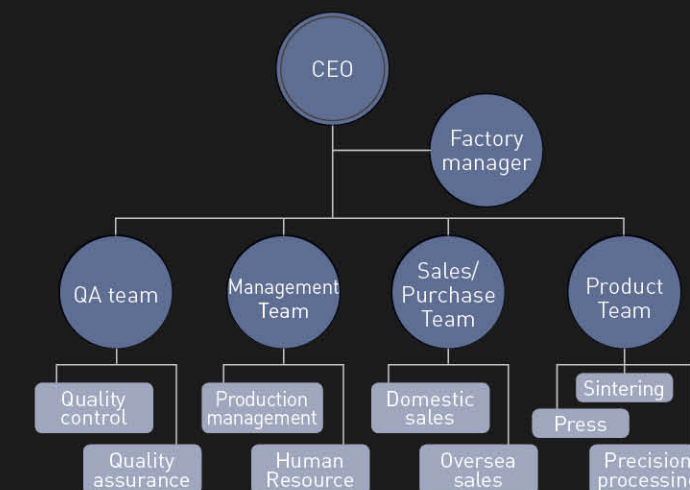


CI Introduction



The hexagon shape, called the most complete form in diagrams, used to embody the hard molecular structure to express the precise production equipment and professional production technology of JEONG EUN TUNGSTEN CARBIDE CO.,LTD. Navy color, mixed with green color that gives the stable feeling, signifies the trust and weight feeling, further means all-round high quality production ability and confidence of JEONG EUN TUNGSTEN CARBIDE CO.,LTD.

Organization charge



Certificate



Tungsten carbide product - Cold forging, Blanking mold

Main Product Composition

- Cold forging (D60~D80)
- Blanking mold material (D60~D80)
- Semiconductor material (JE10,JE12)
- Powder mold material (D30~D50)
- Mine tool material (D55)

* Refer to kinds table at the back of the catalog.



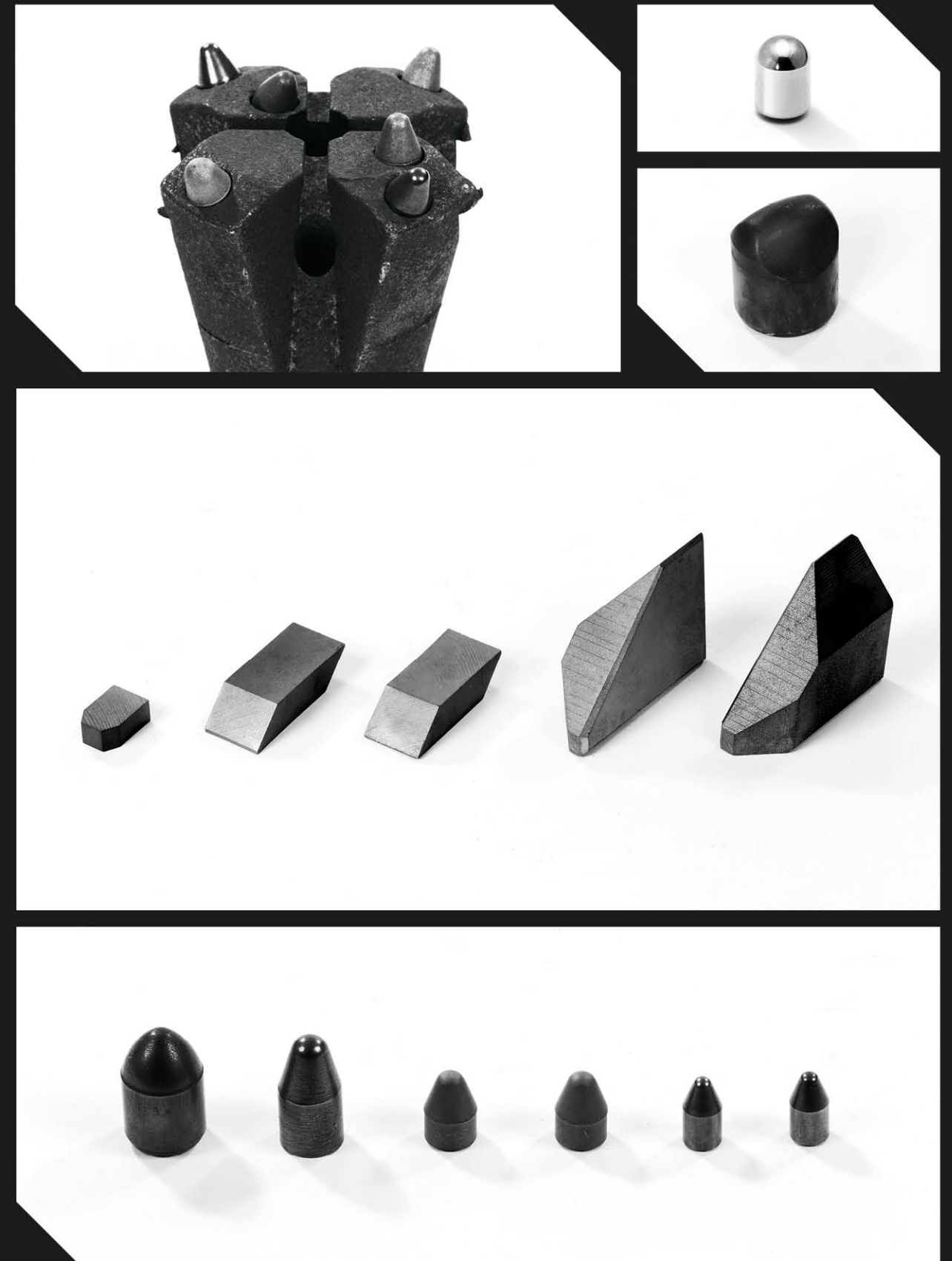
Tungsten carbide product - Cold forging, Blanking mold



Products produced by tungsten carbide technology for cold forging



Tungsten carbide product - Mine product



Tungsten carbide product - Semiconductor material



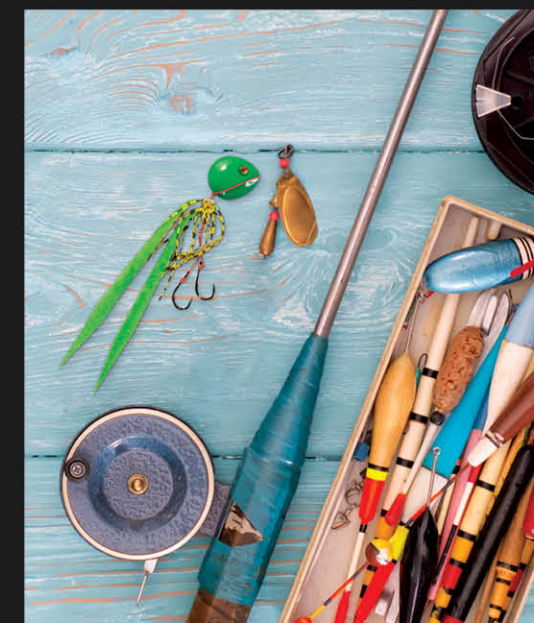
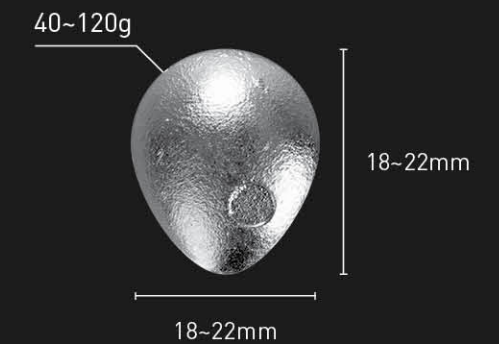
Tungsten carbide product - Fishing weight

Fishing weight

This floating type tungsten Tailava head product is a harmless environmental product under Fishing Nurturing Management Act, it is developed, manufactured and sold for the first time in Korea, its weight is heavier than lead, its volume is less than lead so less influenced by tidal current, the fast speed to enter water guarantees the possibility of biting than lead. Thermal processing after powder coating prevent peeling off of painting.

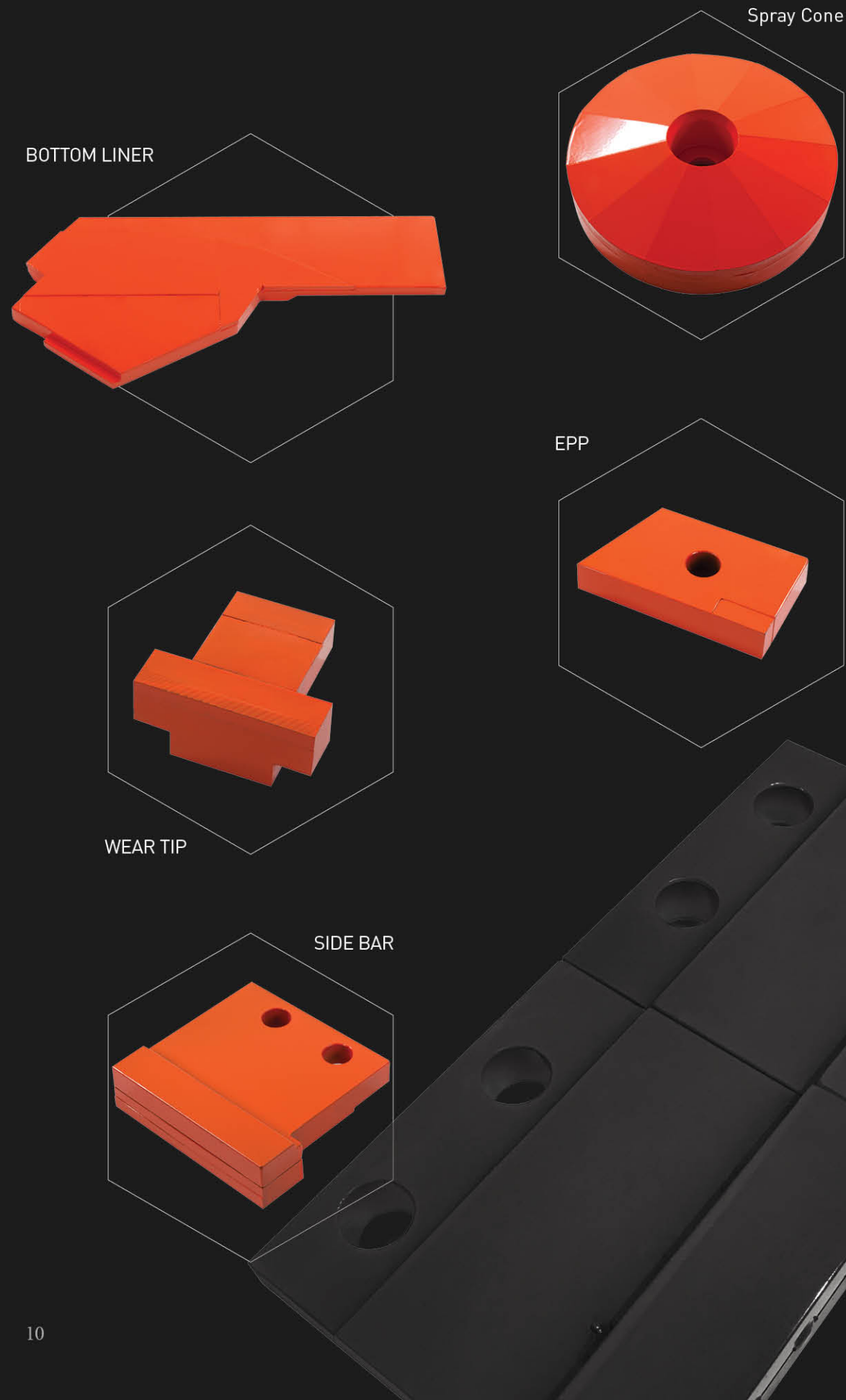
The weight of fishing plumb varies from 40~120g, various coatings are available.

In addition, the shape can be produced according to the tastes of customers.

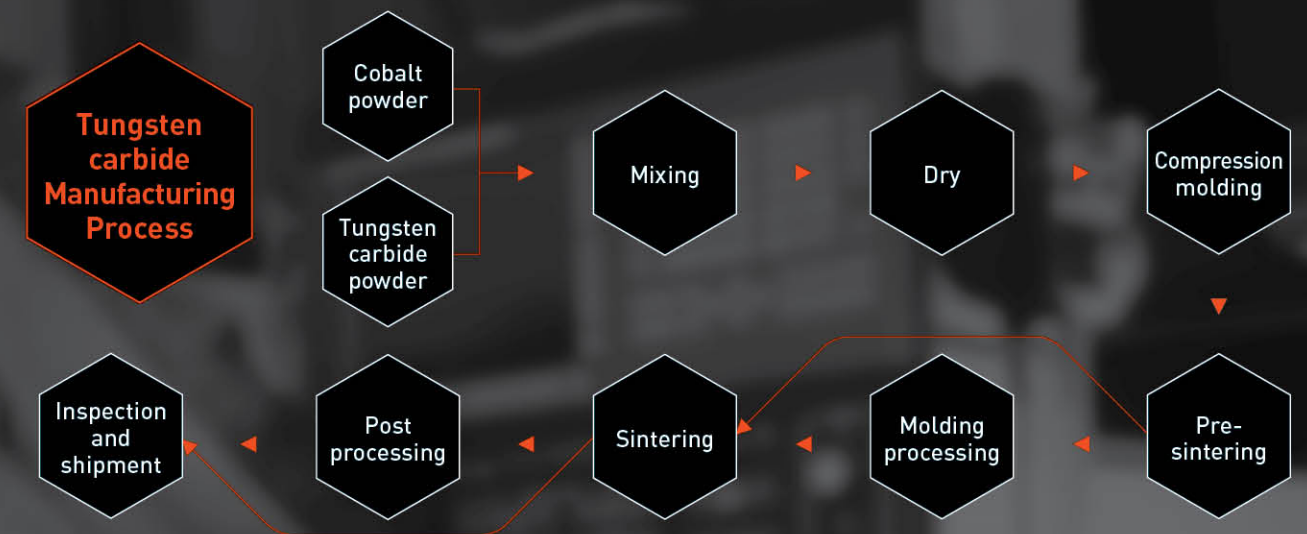


*It is a directed image for your reference.

Mine product – for Mineral exploitation

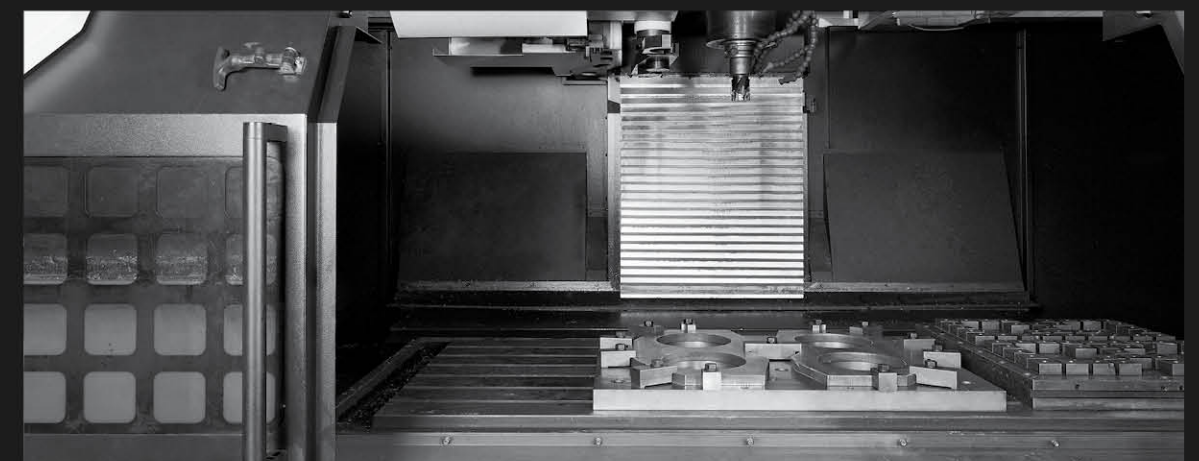


Process chart for Tungsten carbide product and Mine product



Tungsten carbide

Tungsten carbide is an alloy with very high hardness that uses the powder of compound such as highly hard tungsten carbide powder and metal powder such as cobalt as a binder to apply high pressure and heat up to the temperature in which metal will not dissolve, and sintering and forming.



Concrete Pump Car Spare Parts

**JWP
-230** Concrete Pump Car Wear Plate


Standard	Ram Piston ø200
Size	570 x 320 x 35T
Type	Friction Surfaces – Tungsten carbide, Inner Ring – Cr-Mo-Mn Hardened steel
Lifespan	100,000 CBM
Merits	Cost effectiveness compared to other company, excellent function, continuous effort for quality enhancement through periodical test and experiment.

**JWR
-230** Concrete Pump Car Wear Ring


Standard	Ram Piston ø200
Size	ø250 x 187 x 38T
Type	Friction Surfaces – Tungsten carbide, Inner Ring – Cr-Mo-Mn Hardened steel
Lifespan	40,000~ 50,000 CBM
Merits	Cost effectiveness compared to other company, excellent function, continuous effort for quality enhancement through periodical test and experiment.

**KKT
-8"** Concrete Pump Car Kyokuto Wear Plate


Standard	Ram Piston ø260
Size	580 x 335 x 29T
Type	Friction Surfaces – Tungsten carbide, Inner Ring – Tungsten carbide
Lifespan	100,000 CBM
Merits	Cost effectiveness compared to other company, excellent function, continuous effort for quality enhancement through periodical test and experiment.

**KKT
-8"** Concrete Pump Car Kyokuto Wear Ring

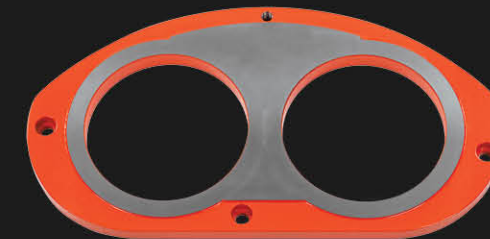

Standard	Ram Piston ø260
Size	ø260 x 204 x 35T
Type	Friction Surfaces – Tungsten carbide, Inner Ring – Tungsten carbide
Lifespan	40,000~ 50,000 CBM
Merits	Cost effectiveness compared to other company, excellent function, continuous effort for quality enhancement through periodical test and experiment.

**JWP
-280** Concrete Pump Car Big Mouth Wear Plate


Standard	Ram Piston ø280
Size	570 x 340 x 25T
Type	Friction Surfaces – Tungsten carbide, Inner Ring – Cr-Mo-Mn Hardened steel
Lifespan	100,000 CBM
Merits	Cost effectiveness compared to other company, excellent function, continuous effort for quality enhancement through periodical test and experiment.

**JWR
-280** Concrete Pump Car Big Mouth Wear Ring


Standard	Ram Piston ø280
Size	ø250 x 218 x 55T
Type	Friction Surfaces – Tungsten carbide, Inner Ring – Cr-Mo-Mn Hardened steel
Lifespan	40,000~ 50,000 CBM
Merits	Cost effectiveness compared to other company, excellent function, continuous effort for quality enhancement through periodical test and experiment.

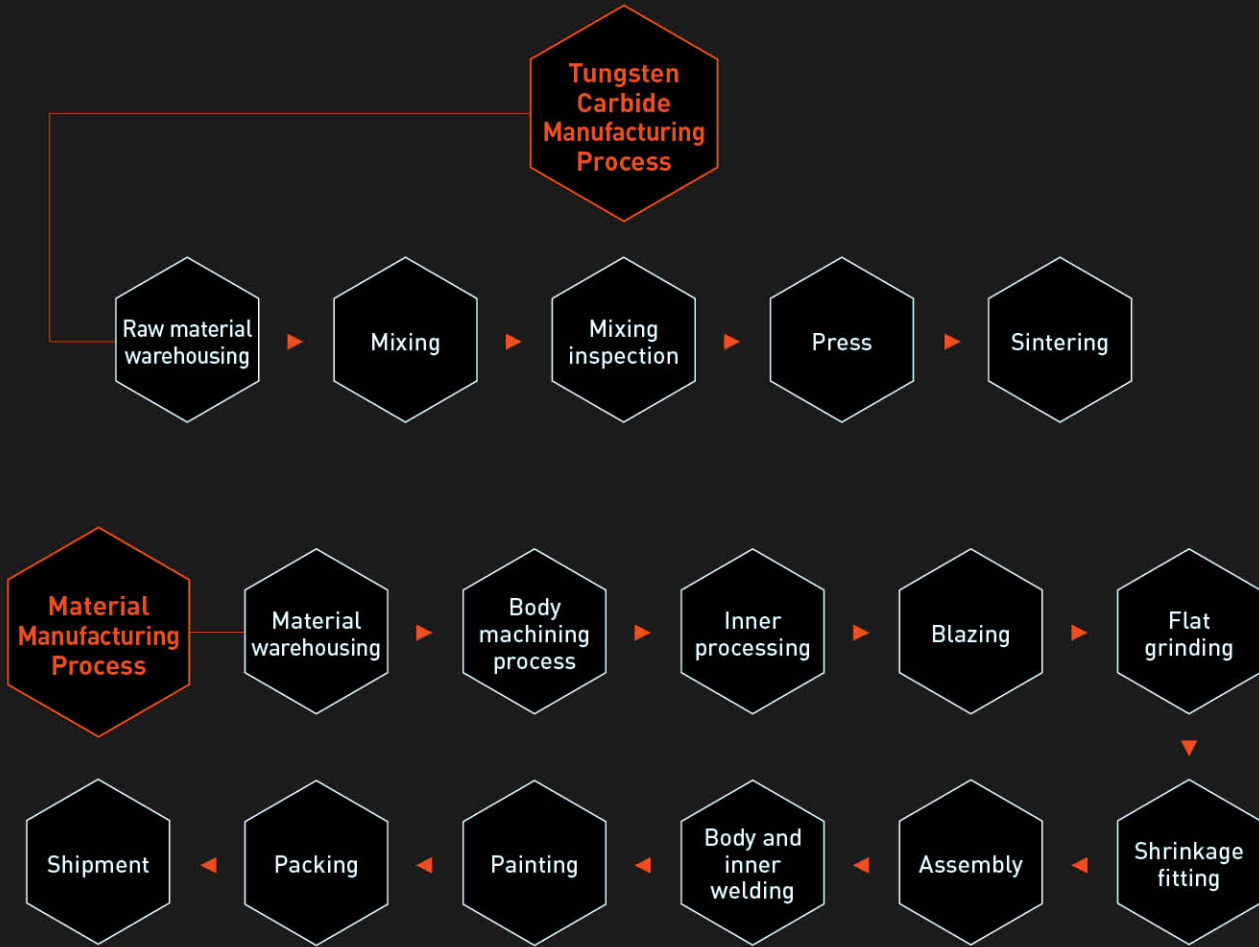
**KKT
-9"** Concrete Pump Car Kyokuto Wear Plate


Standard	Ram Piston ø264.5
Size	580 x 335 x 29T
Type	Friction Surfaces – Tungsten carbide, Inner Ring – Tungsten carbide
Lifespan	100,000 CBM
Merits	Cost effectiveness compared to other company, excellent function, continuous effort for quality enhancement through periodical test and experiment.

**KKT
-9"** Concrete Pump Car Kyokuto Wear Ring




Standard	Ram Piston ø264.5
Size	ø264.5 x 218 x 35T
Type	Friction Surfaces – Tungsten carbide, Inner Ring – Tungsten carbide
Lifespan	40,000~ 50,000 CBM
Merits	Cost effectiveness compared to other company, excellent function, continuous effort for quality enhancement through periodical test and experiment.

Concrete Pump Car Certificates and Agreements



Nondestructive test report for Concrete pump car

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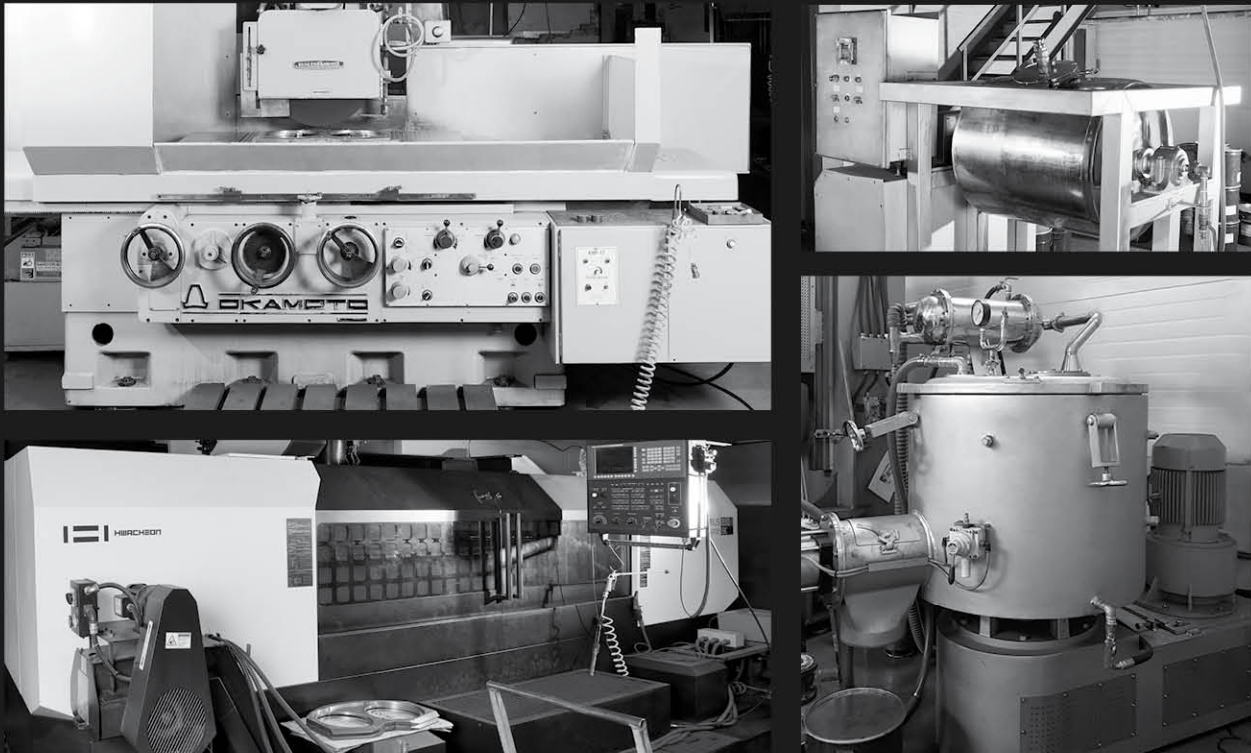
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>코스텍 기술주식회사 KOSTEC CO., LTD</p> </div> <div style="text-align: center;">  </div> <div style="text-align: right;"> <p>보건안전연구소 Patent Inst.</p> <p>제 2874호 Report No.</p> <p>제출일자 Page No.</p> </div> </div> <p style="text-align: center; margin-top: 5px;">KOST-IN-001-0700</p> <p style="text-align: right; margin-right: 50px;">2017-09-21</p> <p style="text-align: right; margin-right: 50px;">2 of 2</p>											
검사결과판정서 Results & Interpretation											
특정 항목 Identification No.		위치 Location	종류 Sample From	수량 Amount	시험방법 Surrounding	조건 Media	검출량 Length(s)	검사 Class	결과 Amount	비고 Remarks	비고 Remarks
		1	Y	Y	Y	Y	Y	Y	Y	Y	Y
P# Blank Plate (24000) : 10-00017-0		NO RECORDABLE INDICATION							1	Y	
P# Blank Plate (24000) : 10-00017-1		NO RECORDABLE INDICATION							1	Y	
*****BLANK*****											

UPL-018
KOSTEC CO., LTD

Patent certificate

	
<h1 style="margin: 0;">특허증</h1> <p style="margin: 0;">CERTIFICATE OF PATENT</p>	
<p>특허 Patent Number</p> <p>출원번호 Application Number</p> <p>출원일 Filing Date</p> <p>출속일 Publication Date</p>	<p>제 10-1798261 호</p> <p>제 10-2015-0027039 호</p> <p>2015년 02월 26일</p> <p>2017년 11월 09일</p>
<p>발명의 명칭 (Title of the Invention): 엔프라이프 필터를 이용한 물세척식</p>	
<p>특허권자 (Inventor): 박승준(000123-*****)</p> <p>서울특별시 강남구 역삼동로 30, 특허진흥센터가(사) 1105-401 (상명동)</p>	
<p>출원인 (Applicant): 특허시험원에 기재</p>	
<p>위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다. This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.</p>	
<p>2017년 11월 09일</p> <p>특허청장 CHIEF COMMISSIONER KOREAN INTELLECTUAL PROPERTY OFFICE</p> <p style="font-size: 2em; margin-top: 10px;">성 문 모</p>	
 <p>특허청 Korean Intellectual Property Office</p>	

Equipment



Molding Facilities

- | | | | |
|--------------------------------|--------------------------------------|-----------------------------|--------------------------|
| · Hwacheon MCT | · OKAMOTO plate grinding machine x 2 | · Hwacheon wide use shelf | · Tongil CNC |
| · Tongil wide use milling | · Tongil cylinder type grinder | · OKAMOTO small size | · Plate grinding machine |
| · NAGSE plate grinding machine | | · TIC cylinder type grinder | · WIA C.N.C |
| | | · Tool grinder | · Discharger |

Test Equipment

- 4pim Gauge
- Projector
- Hardness Gauge
- Electron Microscope
- Density Mesurer
- H.C Gauge

Mixing, Dry Facilities

- 100kg Dryer
- 300kg Ball Mill
- Test Ball Mill
- 100kg Ball Mill
- 300kg Dryer

Sintering Facilities

- Vacuum sintering machine NO.1 100kg
- Vacuum sintering machine NO.2 100kg
- Vacuum sintering machine NO.3 50kg
- Blazing furnace x2

Press Facilities

- 50ton press
- 130ton press
- 250ton press
- Auto press x2

JEONG EUN
Tungsten
carbide List
Table

Kind Name	Density	Hardness	Remark	Comparison With Domestic Companies		
	g/cc	Hra (+/-0.5)		SS	KJ	TCY
JE10	14.3	92	(Die & Punch) motor core molding for electronic materials and semiconductor		UF10	
JE12	14.18	91.5		KF12	JF12	SC
D30	14.66	91.2	Drawing dies, plug, nozzle power dies Cutter Cold forming	G2	KG3	D3
D40	14.25	89.7	Mold material drawing dies	G4	KG5	D4
D50	14.06	89.1		G5	KG6	D5
D55	14.14	87	For mine	G5	KG6	KE50
D60	13.89	86.4	HD, forging dies Blanking punch Ball die Guide roll	G6	KG6	D6
D70	13.46	85.3		G7	KM7	Z8
D75	13.34	84.3	HD, forging dies Blanking punch Sara bolt Shock dies Nail	M8	KM8	M8
D80	13.19	82.6				
FL	13.11	81.2				
Remark	Available sizes by kinds include ø 8- ø 150. Length: Maximum 60mm in case of less than ø 50, Maximum 150mm in case of more than ø 50. Accurate work size is subject of consultation.					



JEONG EUN TUNGSTEN CARBIDE CO.,LTD
 544-12, JAAN-RI, BIBONG-MYEON, HWASEONG-SI, GYEONGGI-DO, KOREA
 Tel. +82-31-355-6101~3 | Fax. +82-31-355-6100 | E-mail. je6101@hanmail.net



Contact



Web