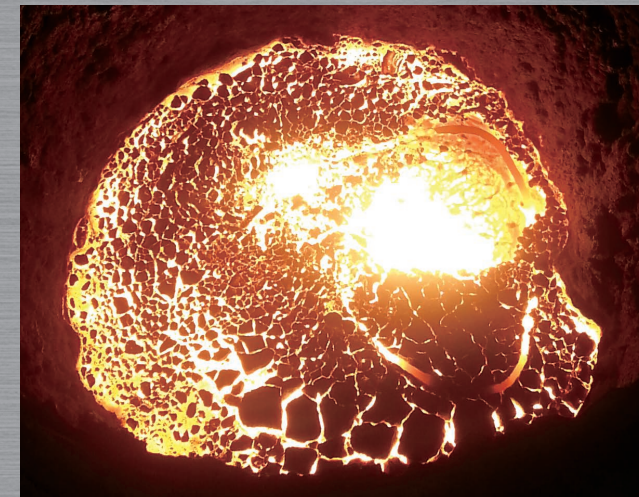


HIGH PERFORMANCE ALLOY



THE INTEGRATED SOLUTION



KPC Metal

Address. » 249 Wacheonseo-gil, Wachon-myeon Gyeongsan-si,
Gyeongsangbuk-do, 38412, South Korea
Tel. » 82-53-850-9200
Fax. » 82-53-853-6386
E-mail » kpcm@kpccorp.co.kr
URL » www.kpctitanium.com / www.kpcmmetal.co.kr

VELOX

Forged Round Bar

Address. » 22 Geumsong-ro 87-gil, Gyeongsan-si,
Gyeongsangbuk-do, 38412, South Korea
Tel. » 82-53-853-8877
Fax. » 82-53-964-3398
URL » www.velox.co.kr

KPC

Automated ball valve

Main office & factory

Address. » 8 Ansim-ro 59 gil, Dong-gu, Daegu, 41081, South Korea
Tel. » 82-53-960-1500
Fax. » 82-53-963-6386
URL » www.kpccorp.co.kr

Seoul office

Address. » 13F, Dongwha Bldg, 106 Seosomun-ro, Jung-gu, Seoul,
04513, South Korea
Tel. » 82-2-2637-9188
Fax. » 82-2-2637-9118



KPC Metal Co., Ltd.

With Confidence, Service and Pride

COMPANY HISTORY

- 1977. 10.** Established Korea Precision Casting Co.
- 1982. 03.** Started Ball Valve Division
- 1987. 09.** Started Special Alloy Casting & Forging
- 1988. 06.** Started Vacuum Arc Re-melting Division
- 1997. 12.** Started Titanium Casting & Forging
- 1998. 08.** Reactive Metal Research Institute Registered
- 2004. 03.** Operated Wachon 1st Factory (Vacuum Melting, Open Die Forging)
- 2006. 11.** Operated Deokchon Factory (Machining, Welding)
- 2007. 05.** Operated Sowol 1st & 2nd Factory (Rolling Mill, Extrusion, Radial Forging, Centrifugal Casting)
- 2010. 12.** KPC Metal Co., Ltd. Spun off from KPC Corporation
- 2015. 10.** Awarded the Gold Tower Order of Industrial Service Merit from the Korean Government

CLASSIFICATION OF SUPPLYING MATERIALS

LOW ALLOY STEEL

- » GE Material
- » AISI 9310, D6AC
- » 9Cr Alloy F9, F91, F92
- » F11, F22

STAINLESS

- » Austenite 304(L), 321, 347, 316(L), 310, 317
- » Super Austenite S31254, N08926, N08904
- » Martensite 410, 403, 431
- » Duplex S31803, S32205, CD3MN
- » Super Duplex S32750, S32760, LE3MC
- » Precipitation Hardening S15500, S17400, S66286

NICKEL & NICKEL ALLOY

- » N02200, N02201
- » N04400, N05500
- » N06600, N06625, N07718, N06690, CW6MC
- » N08800, N08810, N08811, N08825, N09901, N09925
- » N10276

TITANIUM

- » C.P. Titanium : Ti Gr.1~4
- » Titanium Alloy : Ti Gr.5, Gr.7, Gr.9, Gr.13, Gr.16, Gr.23, Gr.28
- » Ti. Target 2N, 3N

MARAGING STEEL

- » C250, T250

INVAR

- » Invar 36(F1684 K93603)
- » Super Invar 32-5(F1684 K93500)

COPPER ALLOY

- » C70600, C70620, C71500, C71520

ALUMINIUM

- » A7175, A7050, A6061, A1050



WACHON



DEOKCHON



SOWOL



VAR & ESR INGOTS



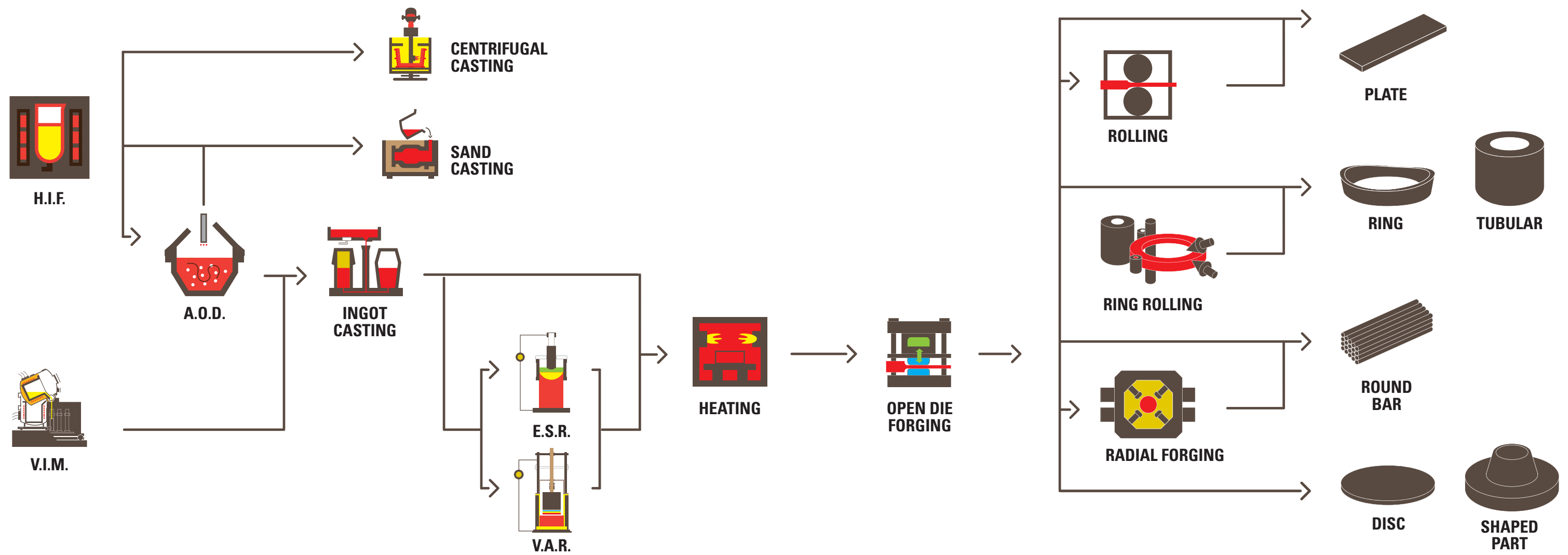
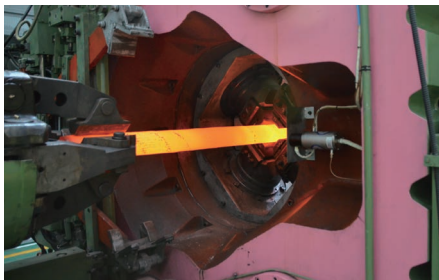
FORGING



FORGED BAR STOCKS

MANUFACTURING PROCESS

We provide individual and tailor-made solutions to your needs.



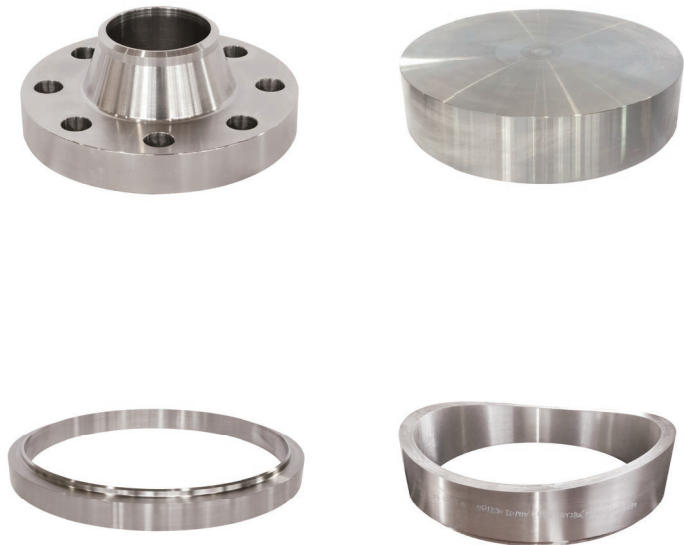
Oil & Gas

On-shore & Off-shore



VESSEL PART

- Tube Sheet » Max. O.D. 4,000mm (20Ton)
- Forged Ring » Max. O.D. 4,000mm
- Flange » ½ Inch ~ 60 Inch / 150#~2500# (ASME, DIN, API)
- Nozzle » Max. O.D. 4,000mm
- Boss » Max. O.D. 4,000mm



PIPING PART

- Flange » ½ Inch ~ 60 Inch / 150#~2500# (ASME, DIN, API)
- Nozzle » Max. O.D. 4,000mm
- Forged Fitting » Max. O.D. 4,000mm
- Forged Neck » Max. O.D. 4,000mm
- Boss » Max. O.D. 4,000mm



VALVE PART

- Body & Cap
- Stem
- Ball
- Seat ring
- Disc



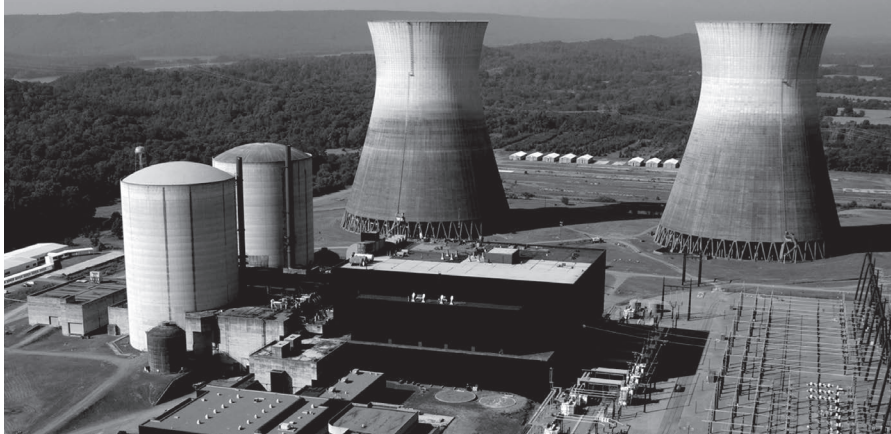
FORGED BAR

- (O.D 35~800mm)
- Shaft
- Forged Pipe
- Bolt & Nut
- Insert
- Swage
- Nozzle



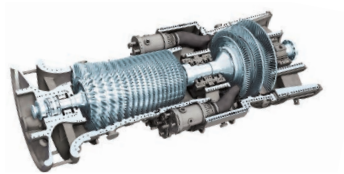
MARKET SECTORS &
PRODUCT RANGE

Power Generation



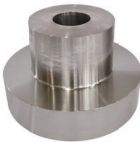
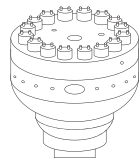
TURBINE BLADE PART

- Material » B50A949A(Ti-6Al-4V)
 » X5CrNiMoCuNb14-5
 » X22CrMoV12-1
- Products » Flat bar for blade



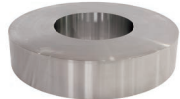
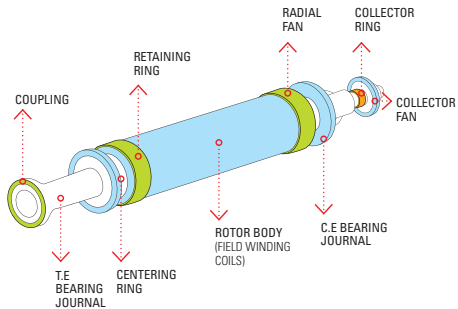
TURBINE CONTROL VALVE PART

- Material » B50A305B(Alloy901)
 » 9Cr Alloy(F91,F92)
 » 12Cr Alloy(B50A249C)
 » Ni-Cr-Mo Alloy (B50A164B)
- Products » Stem » Pin
 » Bush » Body



GENERATOR PARTS

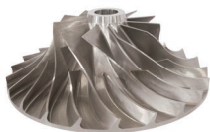
- Material » GE Material
- Products » Collect Ring
 » Centering Ring
 » Retaining Ring
 » Shaft Extension
 » Fan Blade



Industrial Equipment

TURBO COMPRESSOR IMPELLER

- Material » Ti Gr.5(Ti-6Al-4V)
 » S17400(17-4PH)



PRESSURE VESSEL WALL

- Material » S17400(17-4PH)
 » S15500(15-5PH)



INVAR FOR AMOLED MANUFACTURING FACILITIES

- Material » K93603



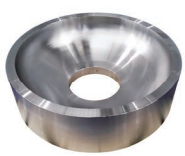
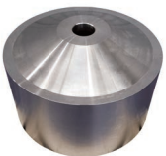
MARKET SECTORS &
PRODUCT RANGE

Military & Aerospace



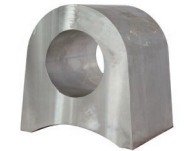
MISSILE COMPONENTS

- Material » Ti Gr.5(Ti-6Al-4V)
 » D6AC
 » Maraging C250, T250
 » SPM1700
- Products » Warhead, Body, Cover



SUBMARINE COMPONENTS

- Material » 1.4462 » 1.4313
- Products » Shaft » Setting Ring
 » Bearing



LIQUID FUEL BURNER

- Material » Cu-Cr » F316L
 » SUS329J1



AIRCRAFT TOOLING

- Material » Low Expansion Nickel Alloy (Invar 36)
- Products » Layup Mandrel



QUALITY CONTROL

Test & Inspection

- » Chemical analysis by ASTM, ASME
- » Mechanical analysis
 - Tensile test by ASTM A370, E8/E8M
 - High temperature tensile test by ASTM E21
 - Impact test by ASTM A370, E23
 - Stress rupture test by ASTM E139
- » Micro structure test by ASTM E407
- » Macro test by ASTM E340, E381
- » Corrosion test by ASTM A262, A923, G48
- » NDE (UT, PT, MT) by ASTM A388, A745, MIL-STD-2154
- » 3D Dimensional check
- » EN10204 3.2 Certification

CERTIFICATION & APPROVAL

CERTIFICATION

- » ISO 9001 » PED » NORSOK M650 QTR
- » AS9100 » ISO 13485 » OSHAS 18001 » ISO 17025

APPROVAL

- » Cameron » Mitsubishi
- » Dresser-Land » Hitachi pjт.
- » GE » Siemens pjт.
- » Toshiba » Inpex (Ichthys pjт.)
- » Total (Moho nord pjт.) » Korean Airline
- » Statoil » Hanwha Techwin
- » Poongsan » Chevron (Future Growth Pjт.)
- » Israel Aerospace Industries
- » ExxonMobil (Tapis Eor & Rejuvenation pjт.)
- » Aramco (Sadara pjт., Jazan Refinery & Terminal pjт.)

EXTENDED CAPACITY

Weld Overlay

WELDING PROCESS

- ESW » 600A ~ 1500A, 1000A, 200V
- GMAW » 600A ~ 1500A, 570A, 220V
- GTAW » 600A, 220V/380V

WPS / PQR

- Base material » P1(A105), P4(F11), AISI4130
- Overlay material » 316SS, Alloy625
- Applicable code » ASME Section IX Part QW Welding



Machining Equipments

- » CNC lathe & vertical lathe
- » CNC turning machine
- » CNC boring machine
- » CNC horizontal machining center
- » Ball machining & grinding

