

KAZ
UNITED

KAZ
UNITED

كاز المتحدة

KAZ United Limited Company

Our Company

KAZ United, a leading Saudi company, with a vision to drive innovation and excellence across multiple sectors. Through strategic joint ventures and partnerships with international market leaders, we have established ourselves as pioneers in the fields of Oil and Gas Services, Consulting, New Technology, and Contracting Services.

At KAZ United, we are inspired by the Kingdom's Vision 2030 mission, and we are dedicated to advancing this vision through our commitment to delivering sustainable mega-projects. Our focus extends beyond profitability; we are deeply invested in shaping a brighter future for our people and the communities we serve.

With several projects and divisions currently under construction, we are continuously expanding our capabilities and offerings to meet the evolving needs of our clients and stakeholders. Our unwavering dedication to excellence, coupled with our relentless pursuit of innovation, sets us apart as a trusted partner in driving growth and prosperity.

Join us on our journey as we strive to make a meaningful impact and contribute to the realization of a prosperous future for Saudi Arabia and beyond. At KAZ United, the possibilities are limitless, and the future is bright.



**KAZ
UNITED**
كاز للتحدة

Meet Our President



Eng. Khamis Alzahrani

President

Leading and motivating a team to achieve organizational goals, implementing strategic initiatives, and ensuring efficient workflow.



Dear Valued Stakeholders,

It is with great pride and excitement that I extend my heartfelt greetings to each of you as we embark on a journey of innovation, growth, and prosperity with KAZ United. As the founder of our esteemed company, it has been my lifelong ambition and vision to contribute to the economic growth and development of our beloved Kingdom, and to play a pivotal role in realizing the ambitious goals outlined in the Kingdom's Vision 2030.

With a career spanning over three decades, I have had the privilege of serving in various capacities, most notably as Director of the Eastern Sector in Saudi Air Navigation Services. These experiences have equipped me with invaluable insights, leadership skills, and a deep understanding of our nation's economic landscape.

As the Company Chairman and President, I am honored to lead our dedicated team in charting a course towards excellence and success. My responsibilities extend to defining our overall strategic direction, initiating policies, and ensuring their effective implementation in collaboration with our esteemed CEO.

At KAZ United we are committed to delivering exceptional value to our clients, employees, and partners.

Through our unwavering dedication to excellence, innovation, and integrity, we aim to surpass expectations and set new standards of excellence in the industry.

Together, let us forge ahead with confidence and determination, as we work towards realizing our shared vision of a brighter, more prosperous future for our Kingdom and its people.

With warm regards,

Eng. Khamis Ali Alzahrani

President



VISION & MISSION

Vision

At KAZ United, our vision is to establish ourselves as a prominent company. By cultivating a long-term strategic vision that fosters company growth and profitability, we aim to sustain value and generate robust financial returns for our employees and partners.

Values

We are dedicated to operating in a manner that contributes to the success of our clients' business objectives. We aim to provide flexible, high-quality, and reliable services on a global scale, ensuring that we meet and exceed the needs of our clients while maintaining the highest standards of professionalism and integrity



Mission

At KAZ United, our mission is to be a leading technology solutions and service provider in field of Oil & Gas, Renewable Energy, Smart Construction, Data Sciences, distinguished by our unwavering commitment to partnership and our reputation for delivering quality services.

Meet Our Partner



*Demir Engineering Ltd.
Metallurgical and Material
Engineering Services*



Demir Engineering provides Engineering, Procurement, and Construction (EPC) services to various customers such as mineral, metallurgical, and processing industries with the target market of “Asset Management and Maintenance Services”. As a solution provider and partner, we help our clients operate, maintain, and create improvements throughout the entire lifespan of their facilities. We provide fit for purpose solutions for maintenance, continuous productivity, and improvement.



Demir Engineering Ltd. has a permit to practice engineering from The Association of Professional Engineers and Geoscientists of Alberta (APEGA), and all the engineering practices will be carried out based on international and local codes, and standards such as ASTM, ASME, API, and so on.



Our commitment to continual improvement is apparent from the training and written processes we have obtained. We are proud to be Quality Management System ISO 9001:2015 certified.



We strive to be a trusted partner in your success and look forward to working with you with.

**KAZ
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كاز للتجارة

**KAZ
UNITED**

Our Partner

Demir Engineering

As a solution provider and partner, we help our clients operate, maintain and create improvements throughout the entire lifespan of their facilities

We provide fit for purpose solutions for maintenance, continuous productivity and improvement.

Providing Innovative Solutions and Products for Severe Applications.

The projects we can help with are included, but not limited to:

- Material Selection and Recommendations
- Products and Process Design
- Manufacturing and Sourcing
- Supplying raw materials and finished products in form of casting, forging, and fabrication.

High Abrasion



Mineral Crusher wear parts



TiC studs + Mn-Steel

High Corrosion



Galvanized Steel



Stainless Steel + WC Hardfacing

High Temperature



Hot Iron Briquetting



HSS Steel

In-House

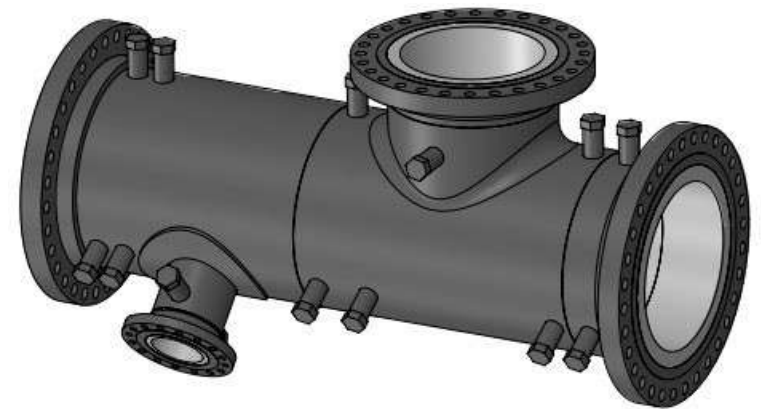
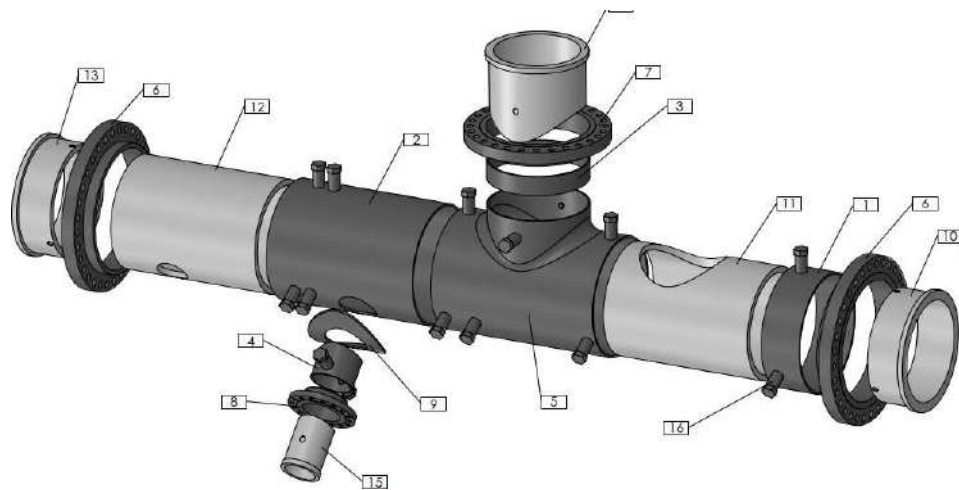
Foundry

Suppling casting part for eaintenance spare parts, prototypes, and saeples with short delivery tiee by utilizing additive eanufacturing technics..



Engineered pipe, /pool, and Tubes

High Abrasion, High Corrosion, High Teperature
/pools

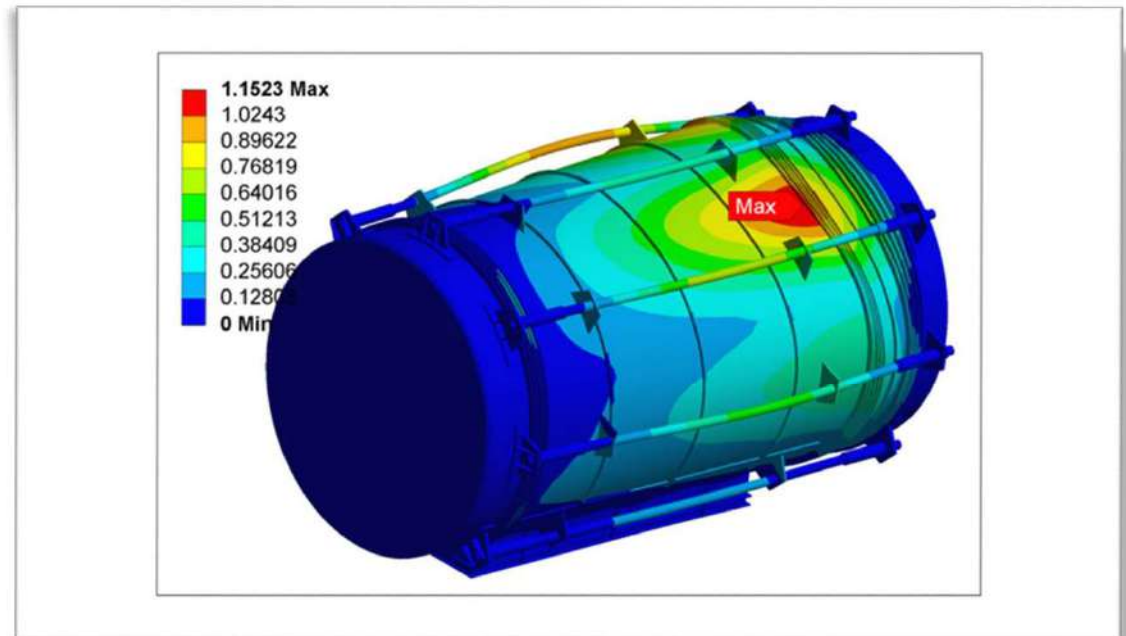
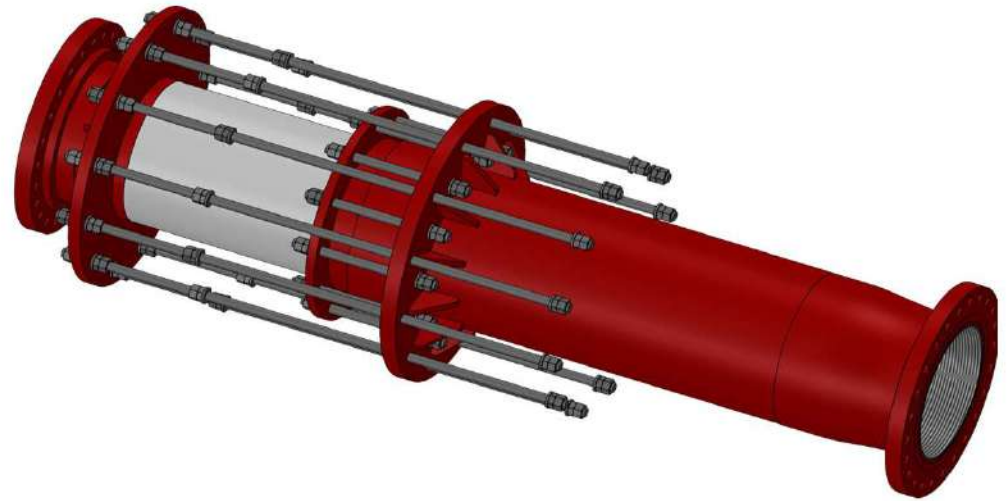


Case Study for a Conceptual Design Project:

Output: (Demir Engineering)

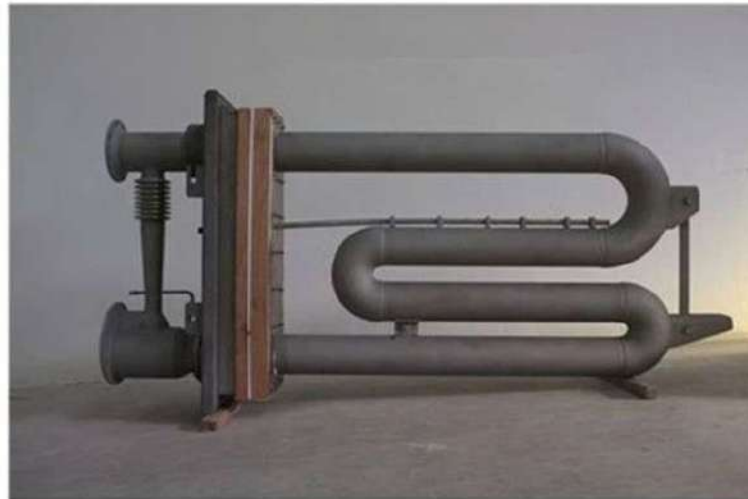
Demir Engineering will carry out an extensive conceptual design process for an engineered design product fit to purpose include engineering calculations, stress analysis, simulations and so on . Some of the main output features are:

- Mechanical design to cover requirements of pressure container, accommodation of pipeline compression and extraction, ...
- Material requirements to withstand the severe condition of the application include high abrasion and high corrosion on elevated temperature. For this reason, the ID and OD of the barrel will get overlaid by specific engineered grade materials.
- Design and assign proper NDT, material test and evaluation with quality level acceptance criteria fit for the condition and application.
- Detail manufacturing drawings for fabrication purposes.
- Hydrotest design for a pressure more than service pressure to assure the mechanical strength of the spool.
- Etc.

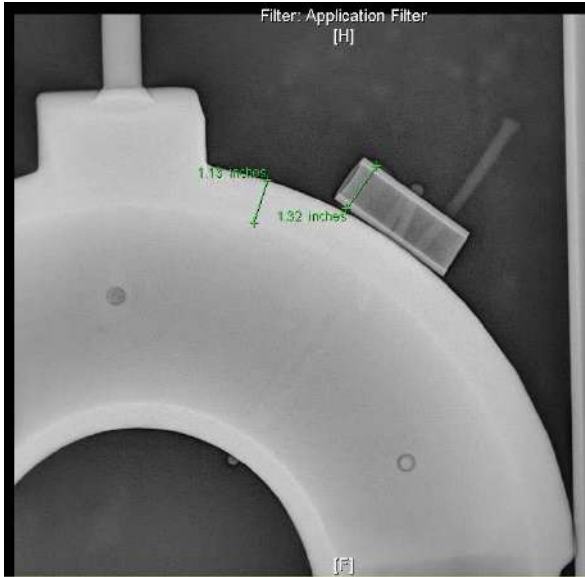


Engineered pipe, /pool, and Tubes

Cracking Tubes, Heat Radiant Tubes, Boiler Tubes, ...



Engineered pipe, /pool, and Tubes Cracking Tube

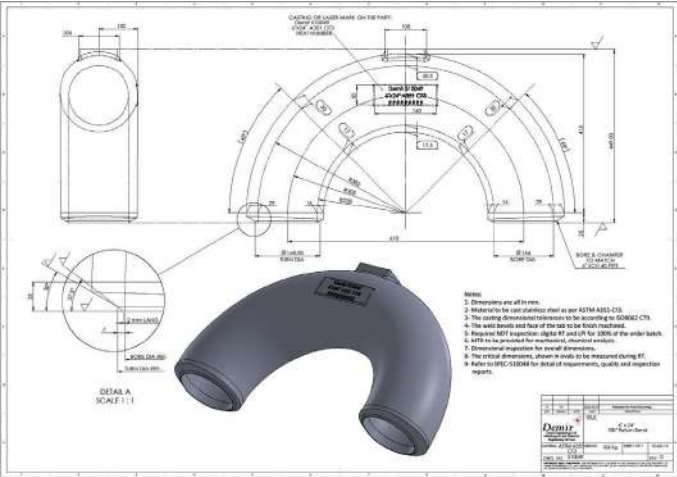


Demir
Metallurgical and Materials
Engineering Services

Title: Specification for Stainless Steel Fittings.
Document Number: Spec-500048
Date: June 24, 2022

Scope: This specification is applicable to casting parts of Stainless Steel Fittings manufacturing and casting process.

Rev.	Revised By/Manufactured	2022-06-28	01
1	Verification	Date	Dr.



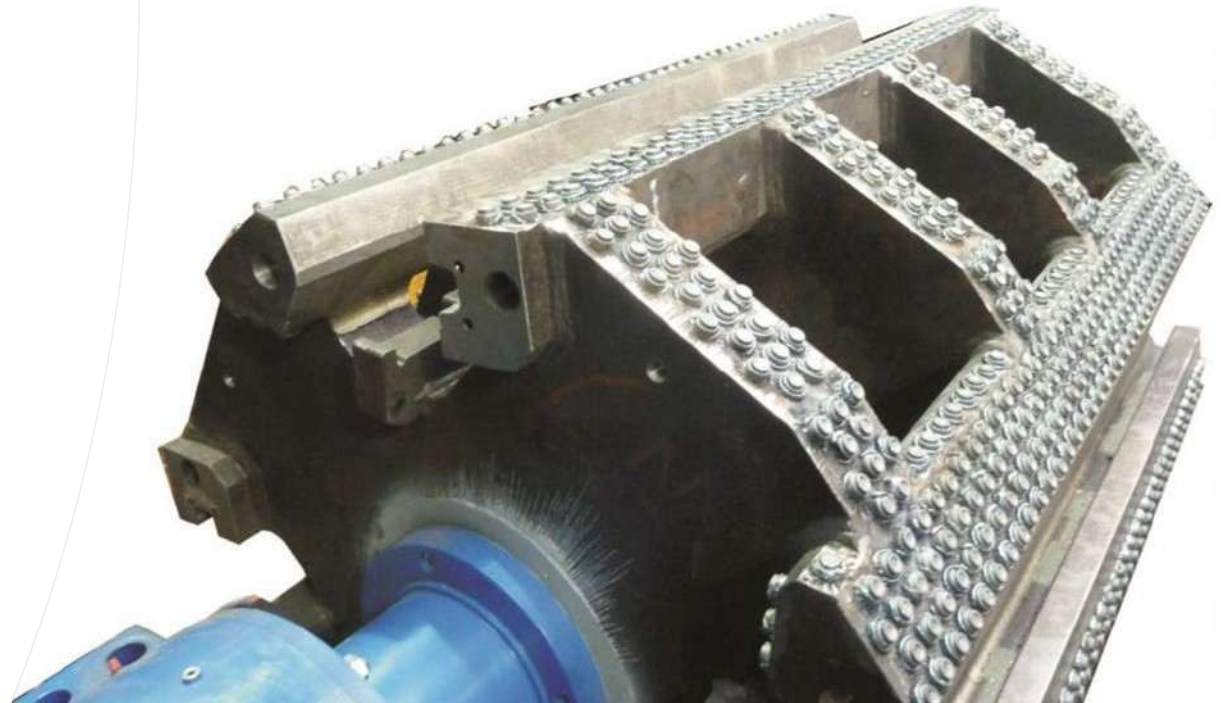
Demir/Study:

Demir Study offers an improved method of protecting valuable mining equipment from excessive wear. The Demir Study protection system uses a stud welding process to quickly and easily apply wear abrasion resistant studs to high wear areas.

“Durable Carbide Product, Reliable Process, Simple To Apply, Cost Effective”

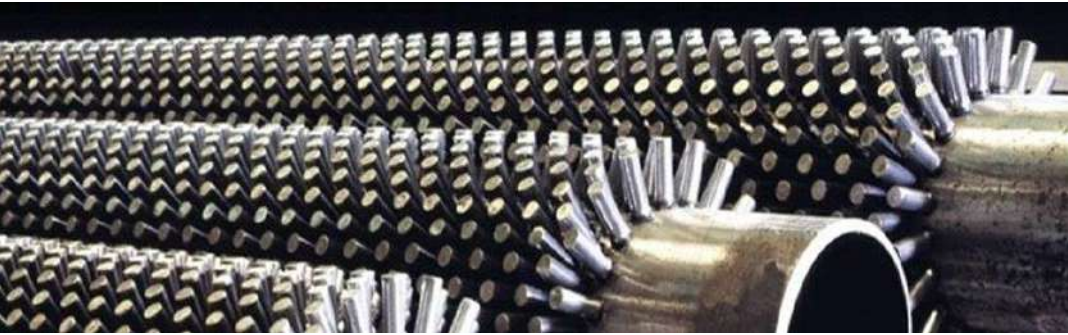
- Possible applications include protecting:
- Mineral processing and mining equipment
- Bulk material handling equipment
- Aggregate and gravel processing equipment

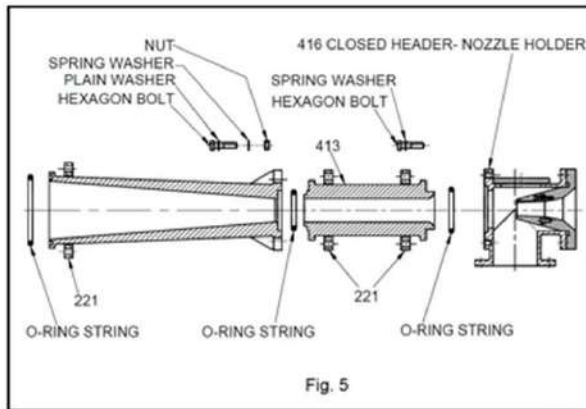
Demir Studies are simply applied onsite with a welding gun which fuses the stud onto the heavy wear areas of ground engaging tool (GET) components, as well as mobile and stationary plant operations.



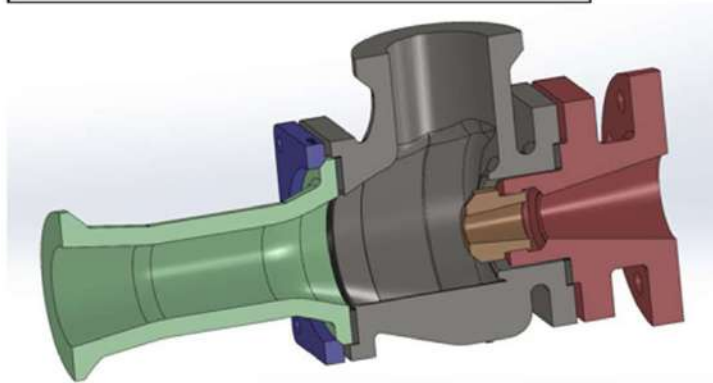
Demir/Study:

Boiler and Heat Exchanger application





Tungsten Carbide maintain dimensional accuracy for long time.



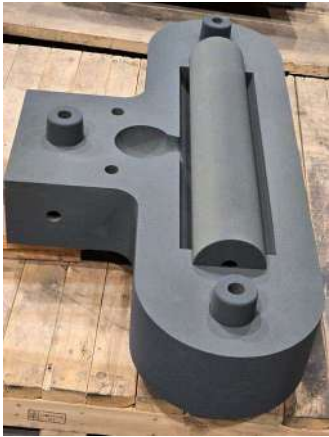
Coal Burner Nozzle for power generation/ Jet Pump

Tungsten Carbide maintain dimensional accuracy for long time.

Engineered pipe, /Spool, and Tubes Heat Exchanger Tube

Material to be ASTM A297 HK with the following chemical composition:

Elements	C	Mn	Si	Ni	Cr	Mo	P	S
Min.	0.20-	2.0	2.0	18.0-	24.0-	0.5	0.040	0.040
Max.	0.60	max	max	22.0	28.0	max	max	max



Engineered pipe, /Spool, and Tubes Kiln Nuzzle

Material to be ASTM A297 HK with the following chemical composition:

Elements	C	Mn	Si	Ni	Cr	Mo	P	S
Min.	0.20-	2.0	2.0	18.0-	24.0-	0.5	0.040	0.040
Max.	0.60	max	max	22.0	28.0	max	max	max



Casting Parts for Rotating Equipment and Industrial Machinery Maintenance and Spare Parts.

Supplying cast alloys include:

- Steel casting grades, carbon steel, low alloy and high alloy steel
- Stainless steel casting grades for cheecal and high heat application
- Cast iron grades include gray cast iron, ductile iron, ADI, and high chroeiue cast iron (CWI)
- Nonferrous grades include Alueiniue casting grades, bronze and brass.
- Offering alloys to coeply with international codes and standards such as A/TM, A/ME, and API.

Offering eaintenance and spare casting parts for:

- Hot working parts
- Pueps
- Coepressors
- Motors
- Blowers
- Turbines
- Gearboxes
- Engines
- Valves



Demir Engineering is supplier for casting parts in as- cast condition, heat treated, or finish eachined.



HPGR Services :

HPGR Services:

- Engineering solution and design
- Cartridge design and replacement include:
 - Roll (Tyre)
 - Shaft
 - Bearing
 - Housing
 - Sealing, Packing and accessories.



Demir



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Manufacturing Advantages: Refurbishing Bearings And Bearing Housing



Hydro turbine , Pumps, ...



wicket gate



Strainer

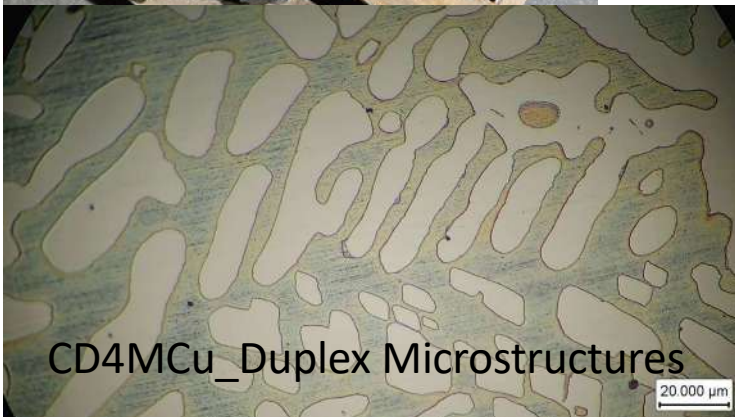


Volute



Pump Casing

Pump Impellers



**Crusher/Grinding/
Pulverizing**

VRM Components



Reverse Engineering Services

3D Scanner



Laser Tracker



Articulating Arm



RAY II



Scan and Measurement Equipment:

Based on the accessibility of measuring and the accuracy requirement, we will bring one or some of these pieces of equipment to site for capturing the dimensions.

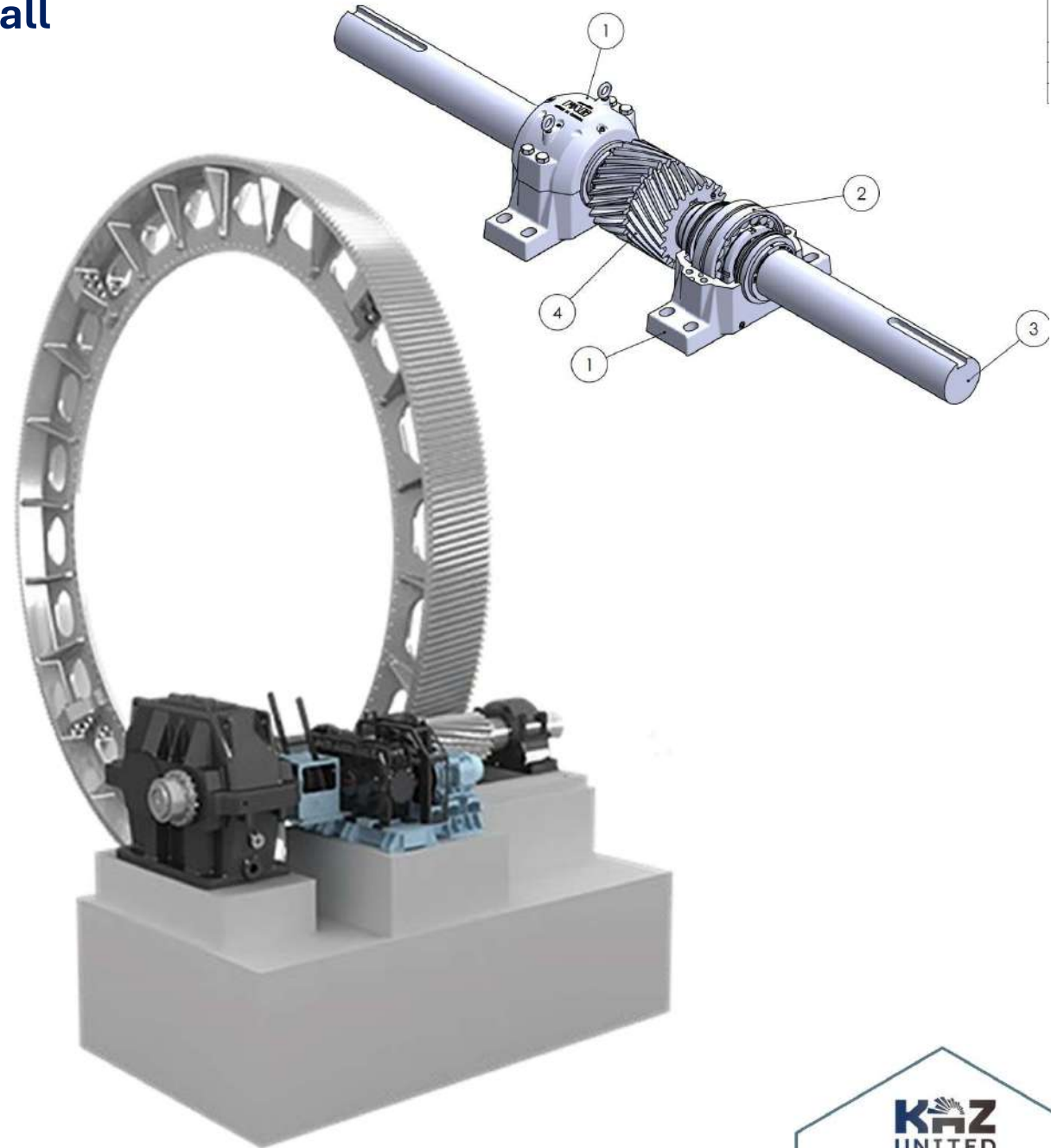
Reverse Engineering Material evaluations

Material Identification:

Material identification will take place by Chemical Analysis, Mechanical tensile test, hardness testing, and other field tests if required. Based on this evaluation we will identify the alloys and the surface or through heat treatment on the parts.

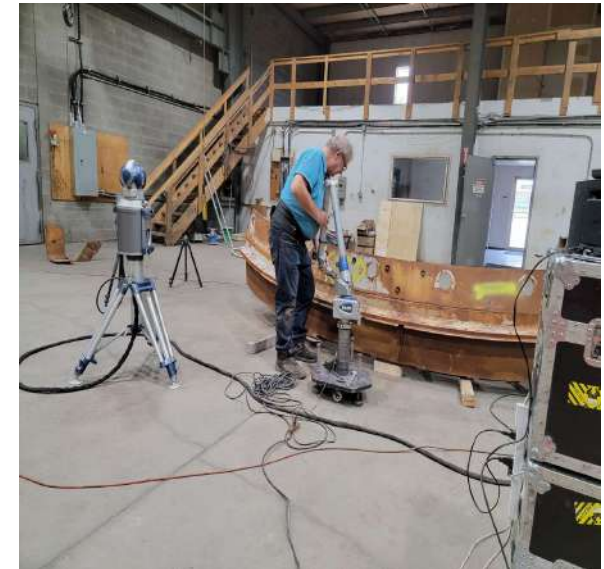


Reverse Engineering Case Study Ball Mill Pinion and Bull Gear



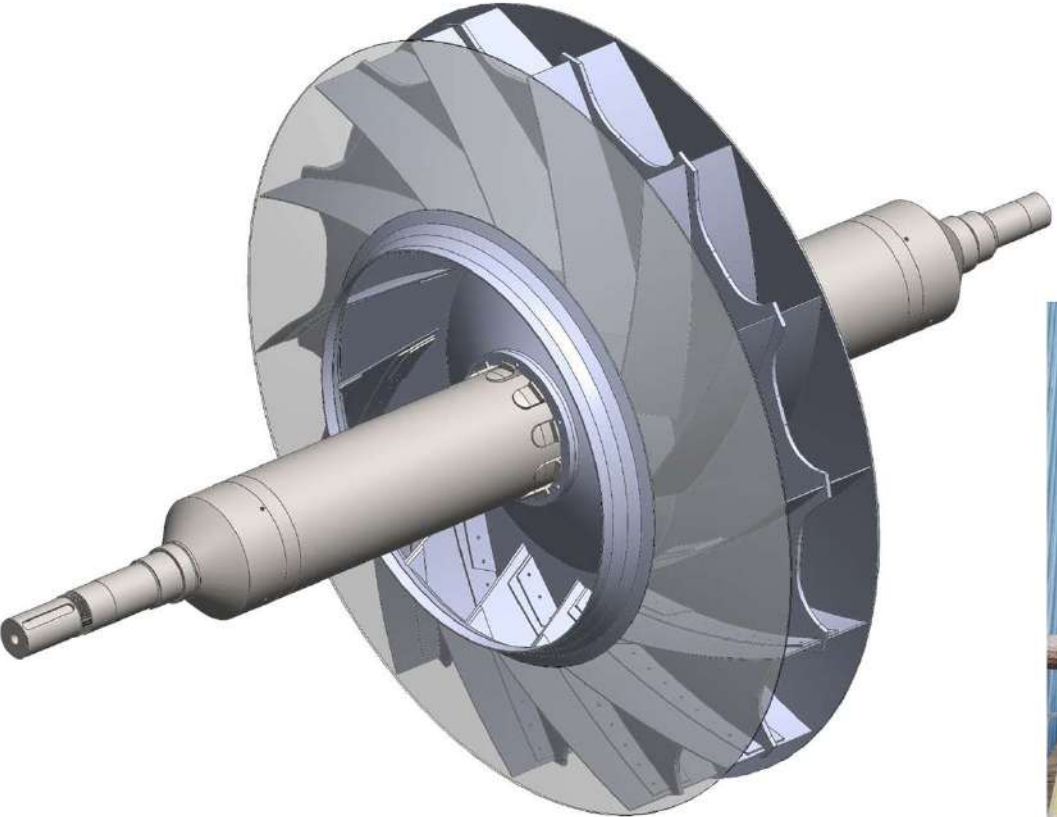
Reverse Engineering Case study Vertical Mill Nozzle Ring

Sample Projects



Reverse Engineering Case Study Kiln ID Fan - Raw Mill Fan Impeller

Sample Projects



- Reverse Engineering Case Study
- Ore Pass (Glory Hole) Drone Inspection and 3D Scan

