



## **ABOUT US**

Enpar Sonderwerkstoffe GmbH specializes in the production and processing of nickel and titanium materials as well as steels with special technological properties. We accompany you from the conception of the prototype to the ready-to-install products.

We are a dynamic subsidiary of voestalpine AG, a globally leading technology and capital goods group with 50,000 employees world-wide and an annual revenue of more than EUR 12 billion. For you, this means maximum security and reliability in the implementation of your projects.

Research and development, environmental compatibility and sustainability form the fundamental basis of the innovation processes that we and our associates offer to the benefit of our customers. Based on this solid foundation, Enpar creates the special added value of combined services for the purchase and processing of nickel and titanium alloys, pure titanium, special steels and materials with specific physical and technological properties.

Our international network of suppliers and processing facilities as well as our comprehensive stock ensure that you will receive the required product, in perfect form and at the right time – with no minimum order quantity.

For decades we have been at your side offering our expert advice, from analysis and planning to project development and quality management. We hold the relevant certificates and provide opportunities for inspections so that your technical requirements can be fully documented.

INTERNATIONAL SUPPLIER BASE INGOTS
BILLETS
BAR / RODS
SHEET / PLATE / STRIP
WIRE
TUBULAR
PRODUCTS

FORGING	HEAT TREATMENT	MACHINING	NDT	
RING	HOT WORK	SAWING	MECH.	
ROLLING	HARDENING		Testing	
COLD	SURFACE	WATER JET	FINISHING	
Drawing	TREATMENT	CUTTING		
FINISHED PRODUCTS EX STOCK				

INTERNATIONAL CUSTOMER PORTFOLIO



## PRODUCTS AND SERVICES

We offer innovative product solutions and individual services with unique levels of production and service. Our products are available in a raw, semi-finished or readyto-install state, according to your technical specifications. Whether ingots, billets, bars, forged parts, massive shafts, seamless rolled rings, sheets and plates, waterjet cut plates or delicate contour parts

– we provide the right solution for
your just-in-time production.

## **OUR PRODUCT WORLD**

Thanks to many years of experience in the field of material and forming technology, we offer not only

a large selection of standard products, but are also able to supply products with special properties that we develop together with you.

- FORGED PARTS
- SEAMLESS ROLLED RINGS
- STEPPED SHAFTS
- PARTS ACCORDING TO DRAWING
- BARS
- SHEETS, PLATES, STRIPS AND WATERJET CUT PARTS
- TUBES
- SPECIAL PRODUCTS

## **OUR SERVICES**

Our wide range of freely combinable services and products, as well as

inventory management tailored to your needs, provides you with new

freedom in the planning of your products. Please contact us.

- HEAT TREATMENT
- HOT WORK HARDENING
- COLD DRAWING
- MECHANICAL PROCESSING
- SURFACE TREATMENT
- SAWING
- WATERJET CUTTING
- MATERIAL TESTING

## PRODUCTS AND SERVICES

Where standard materials reach their limits, the exciting world of special materials begins. Whether deep beneath the surface of the ocean to extract oil and gas, on land to generate energy or far above to explore the universe: there is a suitable material for every area.

## **SECTORS**



#### **OIL AND GAS INDUSTRY**

- · Pumps and fittings
- · Valves and seals
- · Fastening elements
- · Piping systems
- · Onshore and offshore components



#### **CHEMICAL PROCESSING INDUSTRY (CPI)**

- · Pumps and fittings
- · Valves and seals
- · Fastening elements
- · Piping systems



#### **MACHINERY AND PLANT ENGINEERING**

- · Pumps and fittings
- · Valves and seals
- · Fastening elements
- · Piping systems
- · Forging presses



#### **POWER ENGINEERING**

- · Pressure vessels and heat exchangers
- · Pumps and fittings
- · Valves and seals
- · Fastening elements
- · Piping systems



#### **AEROSPACE**

- · Turbines and compressors
- · Thruster systems
- · Valves and seals
- · Fastening elements
- · Piping systems



#### **DEFENSE TECHNOLOGY**

- · Pumps and fittings
- · Valves and seals
- · Fastening elements
- · Piping systems
- · Forging presses



#### **NAVAL TECHNOLOGY**

- · Valves and seals
- · Fastening elements
- · Piping systems
- · Submarine elements



#### **BASIC RESEARCH AND PARTICLE PHYSICS**

- · Components for particle accelerators
- · Valves and seals
- · Fastening elements
- · Piping systems



#### **AUTOMOTIVE INDUSTRY AND MOTOR SPORT**

- · Components for motor sports
- · Fastening elements
- · Piping systems



#### **MEDICAL TECHNOLOGY**

- · Pumps and fittings
- · Valves and seals
- · Fastening elements
- · Piping systems



## **OUR STOCK MATERIAL**

NICKEL ALLOYS			
MATERIAL N°	ALLOY	UNS	
2.4068	Nickel 201	N02201	
2.4360	Alloy 400	N04400	
2.4375	Alloy K500	N05500	
2.4602	Alloy C22	N06022	
2.4605	Alloy 59	N06059	
2.4610	Alloy C-4	N06455	
2.4633	Alloy 602 CA	N06025	
2.4634	Alloy 105	N13021	
2.4650	Alloy C-263	N07263	
2.4660	Alloy 20	N08020	
2.4663	Alloy 617	N06617	
2.4665	Alloy X	N06002	
2.4668	Alloy 718	N07718	
2.4669	Alloy X-750	N07750	
2.4816	Alloy 600	N06600	
2.4819	Alloy C-276	N10276	
2.4851	Alloy 601	N06601	
2.4856	Alloy 625	N06625	
2.4858	Alloy 825	N08825	
2.4878	Alloy 101	-	
2.4951 / 2.4630	Alloy 75	N06075	
2.4952 / 2.4631	Alloy 80A	N07080	
2.4964	Alloy L-605	R30605	
2.4969 / 2.4632	Alloy 90	N07090	
2.4973	Alloy R-41	N07041	
2.4975 / 2.4662	Alloy 901	N09901	
	Alloy 725	N07725	
2.4852	Alloy 925	N09925	

TITANIUM AN	D TITANIUM	ALLOYS
MATERIAL N°	ALLOY	UNS
3.7025 / 3.7024	Ti Grade 1	R50250
3.7035 / 3.7034	Ti Grade 2	R50400
3.7055	Ti Grade 3	R50550
3.7065 / 3.7064	Ti Grade 4	R50700
3.7105	Ti Grade 12	R53400
3.7145 / 3.7144	Ti-6-2-4-2	R54620
3.7165 / 3.7164	Ti Grade 5	R56400
3.7175 / 3.7174	Ti-6-6-2	R56620
3.7185 / 3.7184	Ti-4-4-2	-
3.7195 / 3.7194	Ti Grade 9	R56320
3.7235	Ti Grade 7	R52400

OTHER		
MATERIAL N°	GRADE	UNS
-	Zr 702	R60702
-	Zr 705	R60705
-	Molybdenum	-
-	Tantulum	-
-	Tungsten	-

TOTAL OVERVIEW MATERIAL



SPECIAL STEEL				
MATERIAL N°	ALLOY	UNS		
1.3912	Alloy 36	K93600		
1.3917	Alloy 42	K94100		
1.3964	Alloy 50	S20910		
1.3974	-	-		
1.3981	Alloy K	K94610		
1.4313	F6NM	S41500		
1.4429 ESU	316LN ESR	S31653		
1.4529	Alloy 926	N08926		
1.4534	PH 13-8Mo	S13800		
1.4539	Alloy 904L	N08904		
1.4542 / 1.4548	17-4 PH	S17400		
1.4545	15-5 PH	S15500		
1.4550 / 1.4546	Alloy 347	S34700		
1.4562	Alloy 31	N08031		
1.4568	17-7 PH	S17700		
1.4876	Alloy 800	N08810		
1.4939	Jethete	S64152		
1.4958	Alloy 800H	N08810		
1.4959	Alloy 800HT	N08811		
1.4980 / 1.4944	A286	S66286		
1.4986	-	-		
1.6358 / 1.6354	Maraging 300	K93120		



# YOUR REQUIRMENTS - OUR QUALITY

Specialized materials are often subject to extreme conditions: temperature, corrosion, pressure or tension. Quality is synonymous with safety and reliability. Our quality management team has many years of experience in the field of destructive and non-destructive material testing.

Our certified test equipment, along with test personnel who are trained according to international standards and who regularly participate in advanced training courses guarantee you a high-quality product at all times.

In addition to the classic forms of inspection certificates in accordance with EN 10204, we are able to create order-related production and inspection plans, production line schedules or individual component documentation. Do not hesitate to contact us.

#### **CERTIFICATES AND APPROVALS**

- · EN 9100:2018 Aerospace
- · ISO 9001:2015
- · Pressure Equipment Directive / PED
- · Various customer approvals



## DESTRUCTIVE AND NON-DESTRUCTIVE MATERIAL TESTING

- · Ultrasonic testing (UT)
- · Penetration testing (PT)
- · Magnetic particle testing (MT)

#### **EXTERNAL INSPECTIONS**

- · Technischer Überwachungsverein (TÜV)
- · DNV GL
- · Lloyds Register of Shipping (LR)
- · Bureau Veritas (BV)
- · Customer inspections

Our testing personnel (UT, PT and MT) are certified according to ISO 9712 Level 3



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