

**Vodash Engineering - A Manufacturing Group Of
Companies With Investment Casting, Sand Casting &
Precision Machining Facilities.**

About VODASH Engineering

VODASH Engineering specializes in providing top-notch investment casting solutions. With years of experience and a commitment to quality, we serve a wide range of industries including aerospace, automotive, medical, Hardware Items and oil & gas industries.

Our state-of-the-art facilities and skilled workforce ensure that we meet the highest-standards of precision and reliability.



Mission

Our mission is to deliver high-quality, precision-engineered investment castings that meet the diverse needs of our clients, while maintaining a commitment to innovation, sustainability, and excellence in all aspects of our operations.



Vision

Our vision is to be a global leader in the investment casting industry, recognized for our cutting-edge technology, exceptional customer service, and unwavering dedication to quality and continuous improvement.

Company Profile



Our History

VODASH Engineering was founded with a vision to provide high-quality investment casting solutions to various industries. Over the years, we have grown into a leading provider of precision-engineered castings, serving clients worldwide. Our commitment to quality, innovation, and customer satisfaction has been the cornerstone of our success.



Our Team

Our team comprises highly skilled engineers, technicians, and support staff who are dedicated to delivering excellence in every project. We invest in continuous training and development to ensure our team stays updated with the latest industry trends and technologies.



Our Facilities

VODASH Engineering operates state-of-the-art manufacturing facilities equipped with advanced machinery and technology. Our facilities are designed to handle complex casting projects with precision and efficiency. We adhere to strict safety and environmental standards to ensure a safe and sustainable working environment.



Our Values

At VODASH Engineering, we are guided by our core values of integrity, quality, innovation, and customer focus. These values drive our commitment to delivering exceptional products and services while building long-lasting relationships with our clients and partners.

Technical Capability

Casting Dimensions Range : **600 MM X 600MM X 500 MM**
Weight Range : **0.010 Kg. To 250 Kg. Single Piece**

Material We Cast

ACI Designation	ASTM Designation	UNS	DIN/EN Equivalent	Wrought Approx. Equivalent
CARBON STEEL				
WCB	A216 WCB	J03002	1.0619	
WCB	A216 WCB	J03002	1.0619	
MARTENSITIC STAINLESS AND ALLOY STEEL				
WC1	A217 WC1	J12524	1.5419/G20Mo5	
WC6	A217 WC6	J12072	1.7557/G17CrMo5-5	
WC9	A217 WC9	J21890	1.7579/G17CrMo9-10	
C5	A217 CS	J42045	1.7565/GX15CrMo5	
C12	A217 C12	J82090	1.7586/X12CrMo9-1	
C12A	A217 C12A	J84090	1.4905/X10CrMoVNB9-1	
FERRITIC AND MARTENSITIC ALLOY STEEL				
LCB	A352 LCB	J05005	1.1131/G17Mn5	
LLC	A352 LLC	J02505	1.6220/G20Mn5	
LC1	A352 LC1	J12522	1.5422/G18Mo5	
LC2	A352 LC2	J22500	1.5636/G9Ni10	
LC2-1	A352 LC2-1	J42215	1.6781/G17NiCrMo13-6	
LC3	A352 LC3	J31550	1.5638/G9Ni14	
LC4	A352 LC4	J41500		
CA6NM	A352 GA6NM	J91540	1.4313/GX4CrNi13-4	
AUSTENITIC STAINLESS STEEL				
CF3	A351 CF3,CF3A	J92700	1.4309/GX2CrNi19-11	AISI 304L
CF8	A351 CF8,CF8A	J92600	1.4308/GX5CrNi19-10	AISI 304
CF3M	A351 CF3M,CF3MA	J92800	1.4409/ GX2CrNiMo19-11-2	AISI 316L

Technical Capability

ACI Designation	ASTM Designation	UNS	DIN/EN Equivalent	Wrought Approx. Equivalent
AUSTENITIC STAINLESS STEEL				
CF8M	A351 CF8M	J92900	1.4408/GX5CrNiMo19-11-2	AISI 316
CF8C	A351 CF8C	J92710	1.4552/GX5CrNiNb19-11	AISI 347
CF3MN	A351 CF3MN	J92804	1.4404/GX2CrNiMo17-12-2	AISI 316LN
CG8M	A351 CG8M	J93000	1.4412/GX5CrNiMo19-11-3	AISI 317
CK20	A351 CK20	J94202	1.4843/X16CrNi25-20	AISI 310H;310S
CF20 CT15C	A743 CF20 A351 CT15C	J92602 N08151	1.4312/GX10CrNi18-8 1.4859/GX10NiCrNb32-20	INCOLOY 800H
			1.4581/ GX5CrNiMoNb19-11-2	
SUPER AUSTENITIC STAINLESS STEEL				
CK3MCuN	A351 GK3MCuN	J93254	1.4547/ X1CrNiMoCuN20-18-7	254SMO
CN7M	A351 GN7M	N08007		254SMO
CN7MS	A351 GN7MS	J94650		254SMO
CN3MN	A351 GN3MN	J94651	1.4529/X1 NiCrMoGuN25-20-6	AL-6XN
MARTENSITIC STAINLESS STEEL				
CA15	A743 CA15	J91150	1.4011/GX12Cr12	AISI 410
CA15M	A743 CA15M	J91151		
CA40	A743 CA40	J9115S	1.4027/GX20Cr14	AISI 420
CA6NM	A743 CA6NM	J91540	1.4515/X4CrNi13-4	
CB7Cu-1	A747 CB7Cu-1	J92180	1.4540/GX4CrNiCuNb16-4	17-4-PH
CB7Cu-2	A747 CB7Cu-2	J92110		15-5 PH
DUPLEX AND SUPER DUPLEX STAINLESS STEEL				
CD4MCu	A890 1A	J95370	1.4593/ GX3CrNiMoGuN24-6-2-5	
CD4MCuN	A890-A995 1B	J95372	1.4517/ GX2CrNiMoGuN25-6-3-5	
CD3MCuN CE8MN	A890 1C A890-A995 2A	J95373 J95345		
CD6MN	A890-A995 EA	J93371		

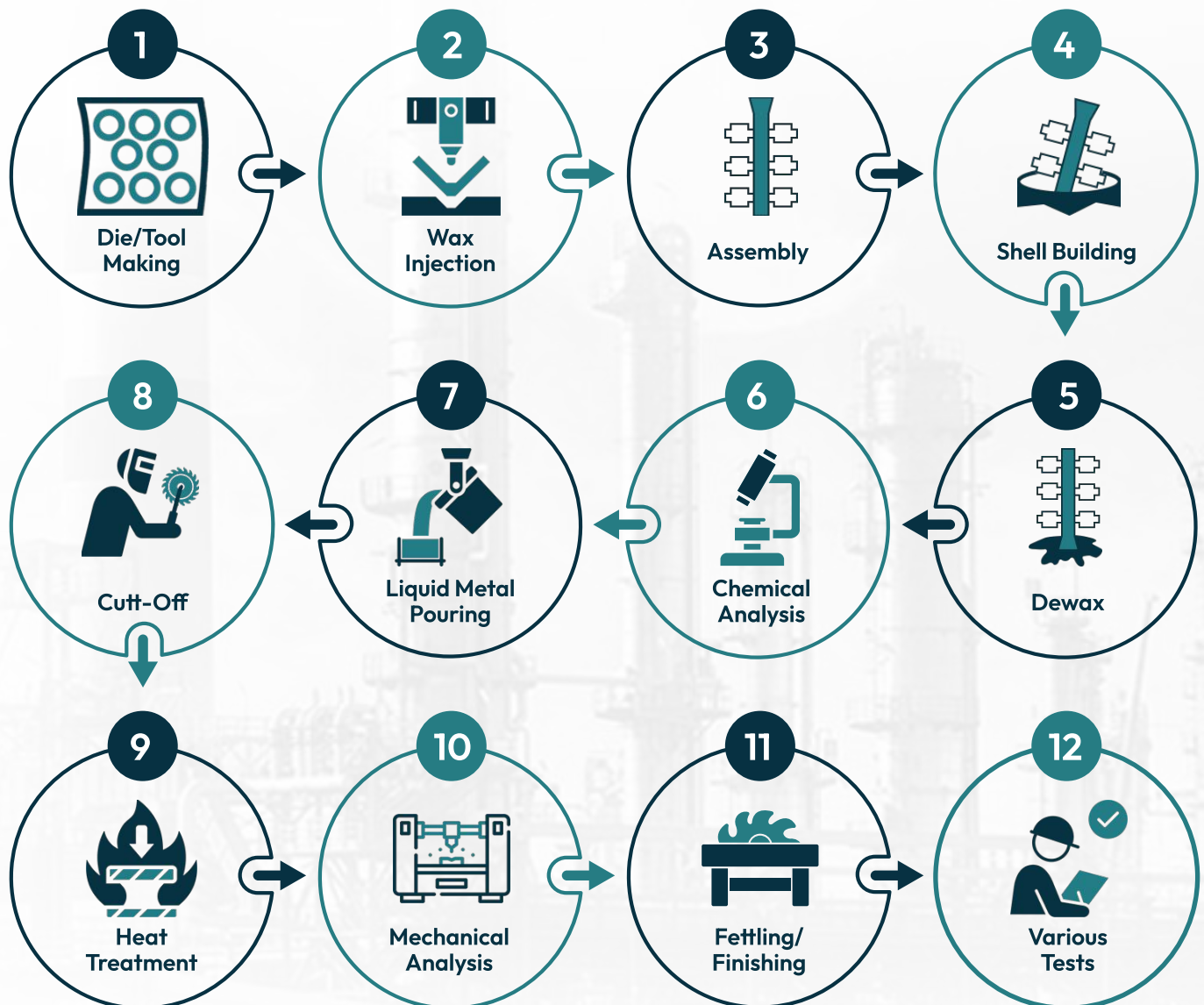
Technical Capability

ACI Designation	ASTM Designation	UNS	DIN/EN Equivalent	Wrought Approx. Equivalent
DUPLEX AND SUPER DUPLEX STAINLESS STEEL				
CD3MN	A890-A995 4A	J92205	1.4470/GX2CrNiMoN22-5-3	DUPLEX 2205
CE3MN	A890-A995 5A	J95304	1.4469/GX2CrNiMoN26-7-4	SUPERDUPLEX 2507
CD3MWCuN	A890-A995 6A	J95380		ZERON 100
NICKLE BASE ALLOYS				
CU5MCuC	A494 CU5MCuC	N08826	2.4858/NiCr21 Mo	INCOLOY 825
CZ100	A494 CZ100	N02100	2.4066/G-Ni95	NICKEL 200
M35-1	A494 M55-1	N24135	2.4565/G-NiCu30Nb	MONEL 400
M35-2	A494 M55-2	N04020		
M35-H	A494 M50-H	N24030	2.4567/G-NiCu30Si5	
M25S	A494 M25-S	N24025	2.4568/G-NiCu30Si4	MONEL S
CY-40	A494 CY-40	N06040	2.4816/NiCr15Fe	INCONEL 600
CW-6MC	A494 CW-6MC	N26625	2.4856/NiCr22Mo9Nb	INCONEL 625
CW-2M	A494 CW-2M	N26455	2.4686/G-NiMo17Cr	HASTELLOY C-4
CW-12MW	A494 CW-12MW	N30002	2.4885/G-NiMo16CrW	HASTELLOY C-276
CX-2MW	A494 CX-2MW	N26022	2.4602/NiCr21 Mo14W	HASTELLOY C-22
N-7M	A494 N-7M	N30007	2.4685/G-NiMo28	HASTELLOY B-2
N-12MV	A494 N-12MV	N30012	2.4882/G-NiMo30	HASTELLOY B
CX2M	A494 CX2M	N26059	2.4605/G-NiCr23Mo16	ALLOY 59
COBALT BASE ALLOYS	STELLIITE -3, STELLITE -6, STELLITE -21, STELLITE -23, TRIBALLOY T 400			
NON-FERROUS GRADES	LM6, LM9, AB1, AB2, LB1, LB2, LB3, LB4, LB5, PB1, PB2, PB3, PB4, LPB1, G1, G2, LG1, LG2, LG3, LG4			
HEAT RESISTING STEEL	HF, HH, HI, HK, HD			

Machining Facility

SR No.	MACHINE	MAKE	MACHINE SIZE
1	VERTICAL MACHINE CENTER WITH 4 AXIS	ACE MODEL MCV 450	TABLE 1000X500MM WORKING 850 X 450 X 510 mm BT40, ATC 24 Station
2	VERTICAL MACHINE CENTER WITH 3 AXIS	ACE MODEL AMS 850V	TABLE 1000X500MM WORKING 850 X 500 X 510 mm BT40, ATC 24 Station
3	VERTICAL MACHINE CENTER WITH 3 AXIS	COSMOS MODEL CVM 850	TABLE 1000X500MM WORKING 850 X 500 X 510 mm BT40, ATC 24 Station
4	VERTICAL MACHINE CENTER WITH 3 AXIS	COSMOS MODEL CVM 1060	TABLE 1000X600MM WORKING 1000 X 600 X 610 mm BT40, ATC 24 Station
5	TURNING MACHINE CENTER WITH TAIL STOCK	ACE MODEL SUPPER JOBBER	ADMIT 550MM MAXIMUM TURNING DIA. 320 8 STATION TURRET 7.5/11 kW Spindle Power Speed Range 35-3500 rpm Siemens
6	LATHE MACHINE WITH TAIL STOCK	Dynamic MODEL TURNER (2 NOS)	ADMIT 1000MM MAXIMUM TURNING DIA. 520
7	LATHE MACHINE WITH TAIL STOCK	HP MODEL TURNER	ADMIT 1000MM MAXIMUM TURNING DIA. 520
8	LATHE MACHINE WITH TAIL STOCK	Dynamic MODEL TURNER	ADMIT 1000MM MAXIMUM TURNING DIA. 520
9	DRILL MACHINE	ANJANI MODEL TURNER	Capacity 20/25 mm
10	Air Compressor	SUVIDHA	10 HP & 7.5 HP

Process



Manufacturing Capability



Production Capacity

960 Tons/Annum



Weight Capacity

10 grams to 250 kg



Dimentional Capacity

Size : 600mm X 600mm X 500mm
Thickness : 2mm to 60mm Section



Surface Finish

As Cast Ra 3.2 to Ra 6.3 um
Machining Ra 0.8 to 3.2 um



Value Added Services

Electro Policing, Electro Plating, Passivation
and Pickling, Buffing, Zinc Plating



Material Capability

Standard : ASTM, AISI, DIN, EN, GOST, JIS &
Other International standards as per the
customer need. Material : Stainless Steel,
Carbon Steel, Low Alloy Steel, Duplex Steel or
According to customers specific requirement

Testing Facilities And Capabilities



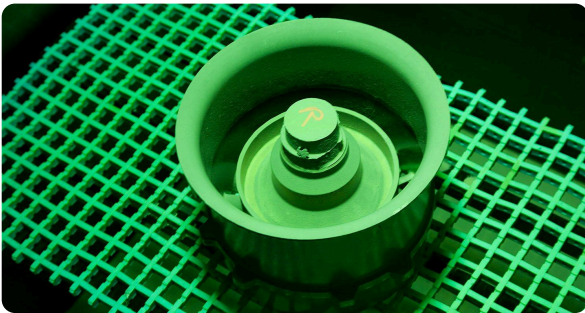
Mechanical Testing

Our mechanical testing facilities are equipped to evaluate the strength, hardness, and toughness of materials. We conduct tensile tests, impact tests, and hardness tests to ensure that our castings meet the required mechanical properties.



Chemical Analysis

We use advanced chemical analysis techniques to determine the composition and purity of materials. Our facilities are equipped with spectrometers and other analytical instruments to ensure that our castings meet the required chemical specifications.



Non-Destructive Testing (NDT)

Our non-destructive testing capabilities include radiographic testing (RT), ultrasonic testing (UT), magnetic particle testing (MPT), and dye penetrant testing (DPT). These methods allow us to detect internal and surface defects without damaging the castings.



Dimensional Inspection

We perform precise dimensional inspections using coordinate measuring machines (CMM) and other advanced measuring tools. This ensures that our castings meet the required dimensional tolerances and specifications.



Metallurgical Analysis

Our metallurgical analysis capabilities include micro structure examination, grain size analysis, and phase identification. We use optical and electron microscopes to analyze the micro structure of our castings and ensure they meet the required metallurgical standards.

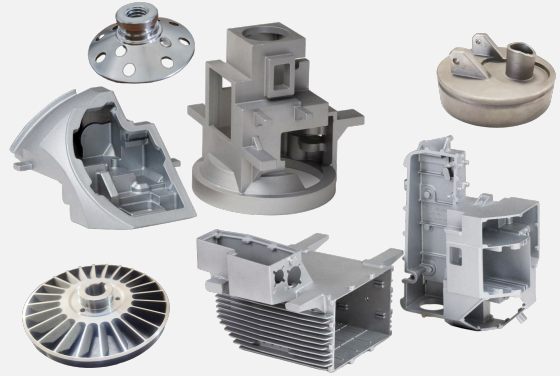


Environmental Testing

We conduct environmental testing to evaluate the performance of our castings under various environmental conditions. This includes corrosion testing, thermal cycling, and exposure to different chemicals and atmospheres.



Pump And Valve Components



Automotive



Energy And Power



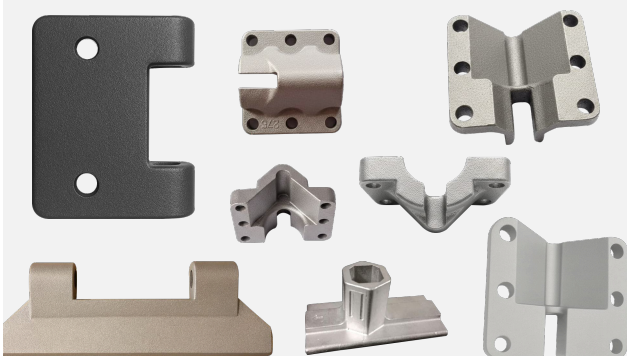
Food And Beverage



General Engineering



Industrial & Heavy Machinery



Hardware Items

VODASH

engineering



A-3 Sat Industrial Zone 3,
Gundasara Road, Rajkot-Gondal
Highway, Pipaliya, Rajkot



EMAIL
Info@Vodash.In



PHONE
+91 97 12 92 22 92



WEB
www.vodash.in