



**Mfg. All Types of Ferrous & Non Ferrous Investment Casting**



PED 2014/68/EU & AD 2000-Merkblatt W0 CERTIFIED COMPANY

**Quality**  
without  
**Compromise**

[www.hhprecisioncasting.com](http://www.hhprecisioncasting.com)



### About Us

HH PRECISION is a leading manufacturer of Ferrous and Non-Ferrous investment casting by lost wax process, established in 2018. HH PRECISION is one of the best manufacturing group and pioneering organization having in-house advanced technologies with latest technical know-how to develop and manufacture of various investment casting components with highest quality, functionality and cost effectiveness.

The company is managed by dynamic and highly technically qualified partners of investment casting and metallurgical line of business. Within the short span of time HHPC has earned good reputation in manufacturing of investment casting for casting tolerances, surface finish, Chemical & physical properties, customer satisfaction, and supply the right part at right time at right cost.

We are doing cast metals as per customer specification or as per international standard specification like [IS](#), [ASTM](#), [AISI](#), [SAE](#), [UNI](#), [AFNOR](#), [EN](#).

We can furnish the fully machined casting equipped to assemble stipulation. We can provide custom designed solutions in partnership with customer development teams with speed and accuracy. Supplying over 2500 different, near net shaped parts to almost every conceivable engineering application such as, [Automotive](#), [Pumps](#), [valves](#), [Defense](#), [Nuclear Power & General Engineering](#). That makes us the one stop solution for all casting needs.

### Infrastructure :

Land area :- 2000 sq Yard.

Constated area :- 18000 sq feet

[Production capacity](#) : 50Mt/Month

### Product rang:-

few grams to 200Kgs  
Min Thickness 2mm

### Quality

We are working on well-defined quality Assurance plan, each process, each material used and each stage is monitored and checked. Our manufacturing castings products will remain higher strength, greater toughness, closer tolerances and better surface finish, components with improved properties and complex configurations and featuring in the newly designed products. We have vast experience of in design and manufacture of complicated parts.

### Vison

TO be a leader in manufacturing of investment casting products in India by innovative, entrepreneurial and empowered team constantly creating value and technologies.

### Mission

Our mission is develop and provide cost effective and high quality of investment casting and all the metal casting services by state of the art infrastructure, innovative technology and method.

Also be a partner with our customers in developing their products in an efficient and effective manner and to diversify our range of castings to various industrial segments.

### Philosophy

We strongly believe that our greatest asset is our manpower. We have extra ordinary team work. Our experienced personnel are skilled and dedicated to provide quality casting, customer Satisfaction and deliver precise parts at exact time competitive price.

### Values

- Quality
- Commitment
- Excellence
- Stability
- Honesty
- Passion

## Quality policy:-

- We are committed to manufacture and supply quality investment casting to meet customers need at price and on time delivery
- We shall fully support continual up gradation of our systems, processes and technology to enhance the quality of our products and services.
- We maintain our market position through continual improvement of Quality management system , process technology and employee competence.
- we ensure to supply complaint free products to achieve compete customer satisfaction through continuous improvement
- We committed to comply our quality management system as per ISO 9001:2015 standards.

## Certification-

- We are following a international quality procedure like TUV SUD ISO 9001:2015 ,for quality assurance covering all stages of production and PED 2014/68/EU & AD-2000- Merkblatt Wo certified company.



Our products:

## Pumps



## Valves



## Machined Parts



## Industrial Parts



## Automobile



## Hardware



## Marine



## Process:-

- We believe that wax pattern quality is mirror of finish casting quality.
- We are using Pattern Wax, and soluble wax for accurate pattern making.
- We have assembly Design to produce best yield with best quality.
- We have semi automatic wax injection press with vertical injection, fully automatic wax injection press with vertical & horizontal injection and Runner bar extrusion press.
- Fully pattern inspection ensures most preciseness in casting.
- **Ceramic Shelling & Draying:**  
We are using fused silica , zircon sand , colloidal silica (water based ) binder for different applications. We have temperature controlled and humidity controlled Drying room with Dehumidifiers.
- **Melting:**  
Melting shop is equipped with medium frequency induction furnace of 275 Kw , with carrying crucibles of 100kg . and temperature controlled shell baking furnace. We are using a standard and best quality scrape to ensure best metallurgy of casting products.
- **Fettling:**  
Our fettling department is equipped with machines for shotblasting, abrasive cutting , belt grinding, welding and other machinery.
- **Heat treatment:**  
Heat treatment are used to control hardness, mechanical properties, corrosion resistance and surface treatments. Heat treatment process are being done as per customer requirements .
- **Final Inspection:**  
We are doing fully visual inspection followed by dimensional inspection. If customer requirements. If customer requirement of Radiography and other NDT then we can provide.





## Testing Facilities:-

### Mechanical Testing:

- Universal testing Machine 40 KN capacity with electronic extensometer.
- Impact Testing : Impact testing Machine up to 300 J.  
Tast temp range- ambient to -196° C.
- Hardness Testing: Brinell & rockwell Hardness Tester.
- Internal Granular Corrosion Test: unit for IGC practice A,B,C,E&F.

### Non Destructive Testing:

- Dye (liquid) Penetrate Test.
- Magnetic Particle Testing.
- Radiography Testing.
- Ultrasonic testing.
- Eddy current test.
- Hydro Test.

### Chemical Analysis:

Spectrometer: Fe, Ni, Al, Cu ,Co base spectrometer up to 45 elements with Nitrogen analysis.

### Other Testing:

Other testing facility like, Special Microstructure , Ferrite Content, Pitting Corrosion Test and other tests are carried out at NABL approved third party laboratory.

### Dimensional Tolerance:

Those tolerance apply as general. Closer tolerance can be achieved depending up to part geometry and application of component.

Up to 25mm	- ± 0.12 mm
25 to 50mm	- ± 0.25 mm
50 to 75mm	- ± 0.38 mm
75 to 100mm	- ± 0.50 mm
100 to 125mm	- ± 0.62 mm
125 to 150mm	- ± 0.76 mm

## Materials:-

Corrosion Resistance Stainless Steel				Carbon Steel & Alloys			
Cast	UNS	Wrought	ASTM	Cast	UNS	Wrought	ASTM
Cb30	J91803	431	A743	WCA	J02502	-	A216
CC50	J92615	446	A743	WCB	J03002	1030	A216
CD4MCu(1A)	J93370	255	A351/A890A995	WCC	J02503	-	A216
CD4MCu(1B)	J93372	255	A890/A995	WC1	J12524	-	A217
CD8MN(2A)	J93356	-	A351/A890/A995	WC4	J12082	-	A-217
CD6MN(3A)	J93371	-	A890/A995	WC5	J22000	-	A217
205	-	A890/A995	-	WC6	J12072	-	A217
CD3MN(5A)	J93404	-	A890/A995	WC9	J21890	-	A217
CD3MWCuN(6A)	J93380	-	A351/A890/A995	WC11	J11872	-	A217
CE30	J93423	312	A743	CS	J42045	502	A217
CF3	J92500	304L	A351/A743	LCA	J02504	-	A352
CF3M	J92800	316L	A351/A743	LCB	J03003	1030	A352
CF3MN	J92804	316LN	A351/A743	LCC	J02505	-	A352
CF8	J92600	304	A743	LC1	J12522	-	A352
CF8(nm)	J92600	304	A743	LC2	J22500	-	A352
CF8C	J92710	347	A351/A743	LC2-1	J42215	-	A352
CF8M	J92900	316	A351/A743	LC3	J31550	-	A352
CF8M(nm)	J92900	316	A351/A743	LC4	J41500	-	A352
CF10	-	304H	A351	LC9	J31300	-	A352
CF10M	J92901	316H	A351	1018	-	1018	-
CF10MNM	J92972	Nitronic 60	A351/A743	1A(1020)	J02002	-	A732/A915
CF16F	J92701	303	A743	2A(1030)	J03011	1030	A732/A915
CG6MMn	J93790	Nitronic 50	A351/A743	3A(1040)	J04002	-	A732/A915
CG3M	J92999	917L	A743	1045	J04502	1045	A915
CG8M	J93000	317	A351/A743	4A(1050)	-	-	A732
CH20	J93402	309	A351/A743	5N(6120)	J13052	-	A732
CK20	J94202	310	A351	6N(4020)	J13512	-	A732
CN3M	J94652	-	A743	7Q(4130)	J13045	4130	A732/A915
CN7M	J08007	Carpenter 20	A351/A743	8Q(4140)	J14049	4140	A732/A915
CN7MCb3	-	Uddeholm 904L	-	9Q(4330)	J23055	-	A732/A915
ILLIUM P	-	-	-	10Q(4340)	J24045	4340	A732/A915
ILLIUM PD	-	-	-	11Q(4620)	J12094	-	A732
				12Q(6150)	J15048	6150	A732
				13Q(8620)	J12048	8620	A732/A915
				14Q(8630)	J13051	-	A732/A915
				15A(52100)	J19966	-	A732
				9N	J13502	4130	A487

## Corrosion Resistance Stainless Steel Hardened

Cast	UNS	Wrought	ASTM
C12	J82090	-	A217
C12A	J84090	-	A217
CA15	J91150	410	A217/A487
CA15M	J91151	-	A487/A743
CA40	J91153	420	A743
CA120	J91639	440C	AMS5352
CA6NM A	J91540	F6NM	A487/A743
CA6NM B	J91540	-	A487
CA6N	J91650	-	A743
CA28MWV	J91422	422	A743
CB7Cu-1	J92180	17-4	A747
CB7Cu-2	J92110	15-5	A747

## Nickel based super alloys

ASTM	DIN
A494-M35-1	2.4365
A494-M35-2	-
A494-CY40	2.4816
A494-CW12MW	2.4686
A494 - CW6M	-

ASTM	DIN
A494-CW2M	2.4610
A494-CW6MC	2.4856
A494-CX2MW	2.4602
A494-CU5MCuC	2.4858
A560-50Cr50NiNb	-



**Factory address:-**

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