



INNOVA TECHNO PRODUCTS
Better Fixtures, Bigger Savings

REDUCING HEAT TREATMENT COST PER COMPONENT





WHO WE ARE?

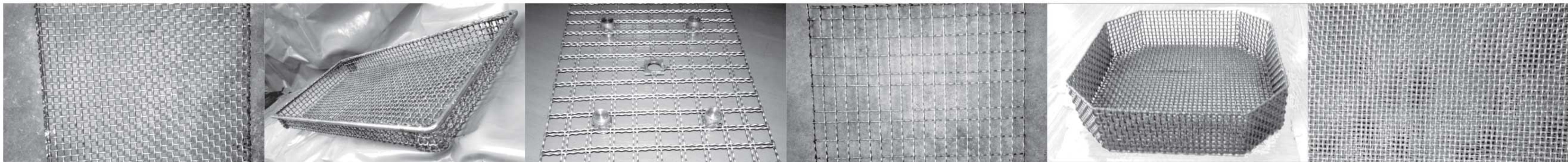
Established in the year 2004, Innova Techno Products offers a wide assortment of various industrial products such as Investment Castings, Stainless Steel Castings & Heat Resistant Sand Castings, Heat Treatment Fixtures, SS Wire Meshes, Conveyor Chains, Storage Bins and many more. We majorly involve into the manufacturing of Heat Resistant Castings & Heat Treatment Fixtures. Our large range of industrial products are acclaimed for their sturdiness, application specific design, heat and corrosion resistance.

HOW WE WORK?

Parameters that we keep in mind while manufacturing our products are:

- Optimum life and minimum weight of the fixture to help the client achieve a healthy loading ratio; which means minimum heat cost per component.
- Designing while keeping in view the dimension and geometry of the component to achieve uniform heating and damage free components.
- Ensuring better dimensional stability by using state of the art machinery for tooling.
- User Ergonomics to ensure smooth and efficient operations.
- Operation specific material selection, to achieve maximum life of the fixture, hence reducing the fixture cost per component.
- Step wise monitoring the Lost Wax Process/Investment Casting, to produce sound castings.
- Testing every batch of molten metal using high precision online spectrometer for better grade accuracy.

WIRE MESH



Bottom Mesh For
Base Trays

Wire Mesh Baskets For
Light Components

Seperator Mesh

Square Seperator Mesh
For Baskets

Hexagonal Mesh Basket for
Heat Treatment of Screws

Close Knit Mesh
For Baskets

Our Wire Mesh is used for a variety of Thermal and Chemical Operations. All our Meshes are designed and Manufactured In House using our indigeneous technique which makes the Mesh Sturdy and Sufficiently Load Bearing.

We manufacture Wire Meshes of various cross section and thickness, depending upon the customer application and Geometry of the components to be treated.

The Table Below gives a detailed description about the range of sizes and cross section we manufacture.

LIST OF WIRE MESH TOOL

φ2.5 WIRE MESH	φ3 WIRE MESH	φ4 WIRE MESH	φ5 WIRE MESH	φ6 WIRE MESH	φ8 WIRE MESH	φ10 WIRE MESH
φ2.5X3.5X3.5 (S. C.)	φ3X3X3 (S. C.)	φ4X8X8 (S. C.)	φ5X14X14 (S. C.)	φ6X40X40 (D. C.)	φ8X60X60 (D. C.)	φ10X80X80 (D. C.)
φ2.5X10X10 (D. C.)	φ3X6X6 (S. C.)	φ4X12X12 (S. C.)	φ5X21.5X21.5 (D. C.)	φ6X50X50 (D. C.)	φ8X70X70 (D. C.)	φ8X90X90 (D. C.)
φ2.5X12.5X12.5 (D. C.)	φ3X10X10 (D. C.)	φ4X15X15 (D. C.)	φ5X22X22 (D. C.)	φ6X60X60 (D. C.)	φ8X80X80 (D. C.)	φ8X100X100 (D. C.)
φ2.5X14X14 (D. C.)	φ3X12X12 (D. C.)	φ4X16X16 (D. C.)	φ5X27X27 (D. C.)	φ6X70X70 (D. C.)		
φ2.5X15.5X15.5 (D. C.)	φ3x13.5X13.5 (D. C.)	φ4x17X17 (D. C.)	φ5X36X36 (D. C.)			
	φ3X15X15 (D. C.)	φ4X18.5X18.5 (D. C.)	φ5X39X39 (D. C.)			
	φ3X18X18 (D. C.)	φ4X20X20 (D. C.)	φ5X40X40 (D. C.)			
	φ3X19.5X19.5 (D. C.)	φ4X20.5X20.5 (D. C.)				
	φ3X21X21 (D. C.)	φ4X21.5X21.5 (D. C.)				
	φ3X22X22 (D. C.)	φ4X23X23 (D. C.)				
	φ3X25X25 (D. C.)	φ4X24X24 (D. C.)				

CAST TRAYS AND BASKETS

Our Cast Trays and Baskets are designed as per customer's requirement. After considering various parameters while designing, such as maintaining a healthy charge to weight ratio, the appropriate material is chosen keeping the application in mind. Our Cast Trays and Baskets find their application in various Thermal and Chemical Processes including Nitriding.

We maintain a high precision Pattern Inventory where all our patterns are manufactured using sophisticated computer aided machines. This high precision ultimately produces Sound and Uniform Castings.

We maintain a highly accurate charge composition for all our cast alloys with the usage of computerized charge makeup and each charge thus produced is tested with the help of state of the art online Spectro-Meter before molten metal is poured.



Normalizing Baskets



Tray for CGCF



Baskets For
Annealing and Normalizing



Normalizing Basket for
Pusher Hearth Furnaces



Tray for Batch
Type Furnace



Base Tray for Continuous
Gas Carburising Furnace



Tray For SQF

GRADES WE FREQUENTLY DEAL IN

Compositions (%)

Casting Grade	ASTM/AISI	C Max	Cr	Ni	Si Max	Nb
HH	A297, A608	0.50	24 to 28	11 to 14	2.0	-
HK/HK-Nb	A297, A608	0.50	24 to 28	18 to 22	2.0	0.5~0.7
HN/HN-Nb	A297, A608	0.50	19 to 23	23 to 27	2.0	0.5~0.7
HT/HT-Nb	A297, A608	0.50	13 to 17	33 to 37	2.0	0.5~0.7
HU/HU-Nb	A297, A608	0.50	17 to 21	37 to 41	2.0	0.5~0.7
DIN1.4852	DIN 17465	0.45	24 to 26	33 to 35	2.5	0.8~1.8
DIN1.4849	DIN 17465	0.50	17 to 19	36 to 39	2.5	1.2~1.8
	AISI310	0.25	24 to 26	19 to 22	1.0	

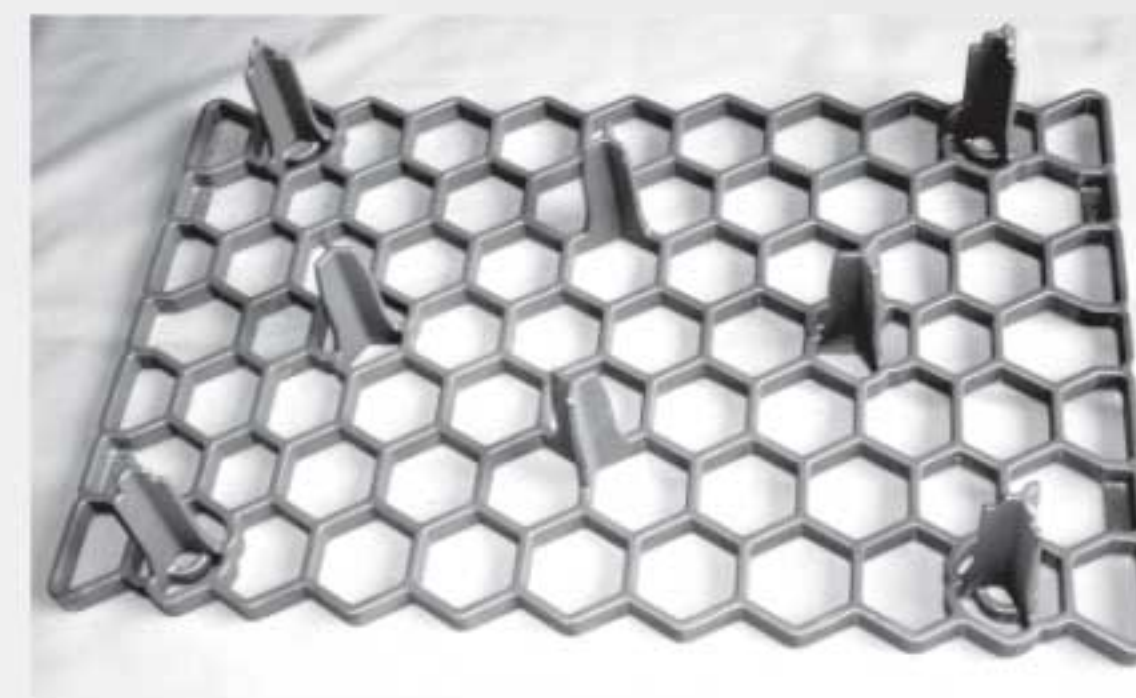
CAST FIXTURE

We design and manufacture our Cast Fixtures as light as possible and select specific material so that price and life wise it gives optimum performance. Our Cast Fixtures are designed for various temperatures and atmosphere specific applications. We cover Thermo and Chemical applications like

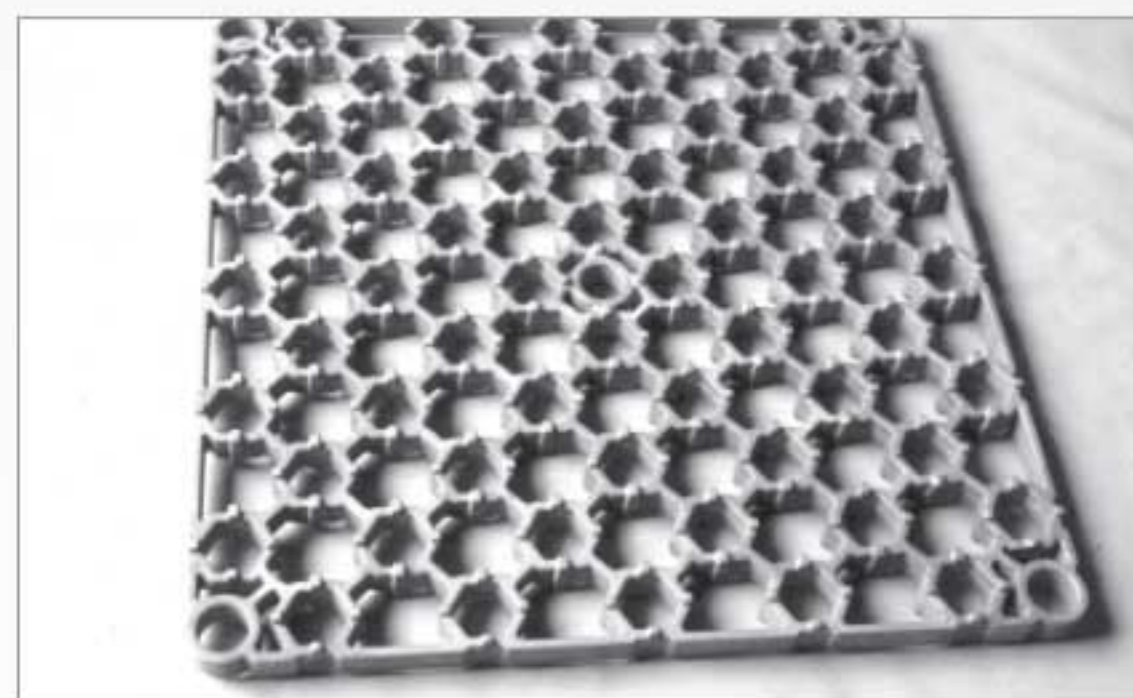
- Low and High Temperature Tempering
- Carburizing
- Nitriding
- Carbo Nitriding
- Annealing
- Normalising
- Vacuum Furnace Applications
- Direct Hardening
- Phosphating
- Shot Blasting
- Acid Resistant Applications



Double Crown Wheel Loading Grid Assembled on Base Tray



Double Crown Wheel Loading Grid



Investment Casting Pivoted Grid for Counter Shaft



Hot Air Circulation Fan For SQF



Heat Treatment Fixture Accessories



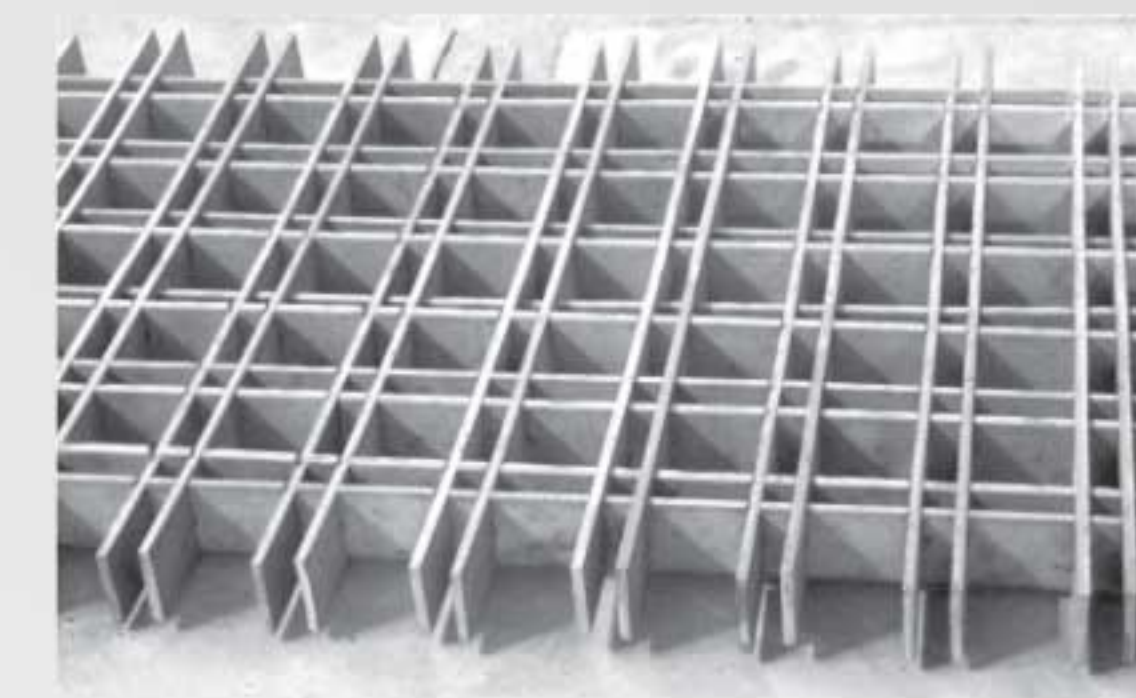
Two Wheeler Gear Hardening Fixture in Lost Wax Process

FABRICATED FIXTURE

Our Fabricated Fixture has been the foundation of our company for about a decade. Our strength lies in designing the fixture around your component, so that you benefit by receiving a product that is:

- Light in Weight
- Has a very healthy Charge to Weight Ratio
- Sturdy and Tough
- Long Lasting
- Easy to Handle
- Versatile and can be used for a variety of Products (Especially Designed for Commercial Heat Treaters).

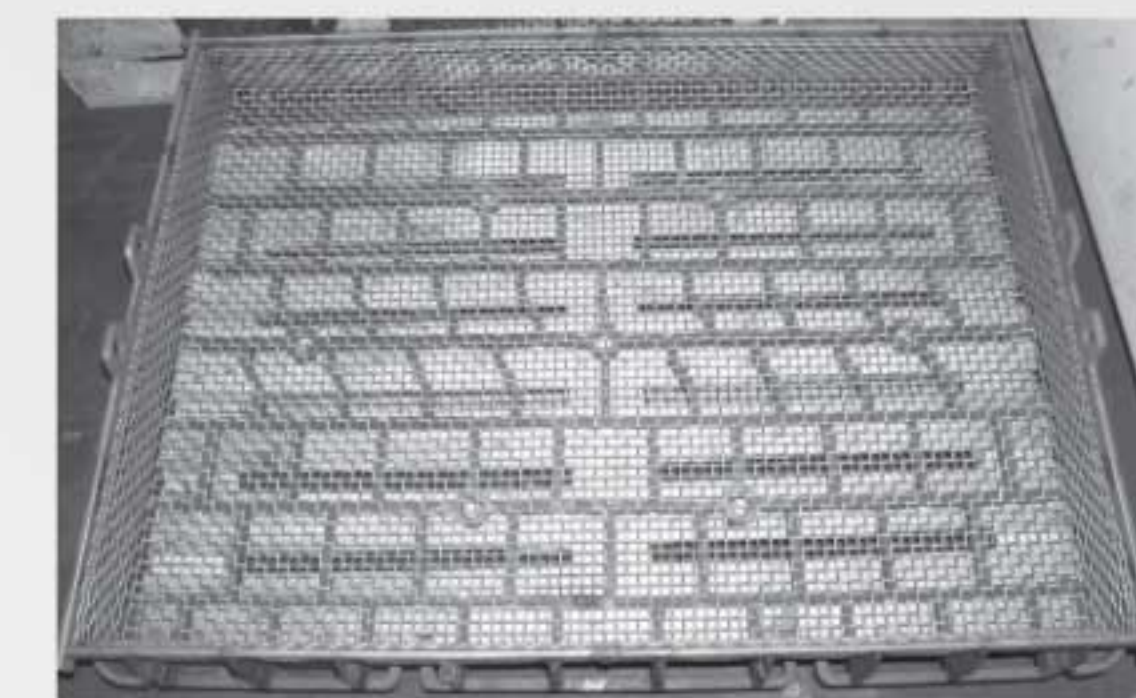
We work tirelessly to continuously improve our product with a linear aim of helping our customers to benefit in terms of their Heat Treatment Economics.



Grate Type Fixture for Multiple Applications



Pin Type Heat Treatment Fixture for Automotive Shafts



Heat Treatment Basket



Shaft and Gear Loading Fixture for Pit Type Furnace



Stacking Type Heat Treatment Fixture for Shafts and Gears



Round Grating Used in Fertilizer Industry

Our Prominent Clients



INNOVA TECHNO PRODUCTS
Better Fixtures, Bigger Savings

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