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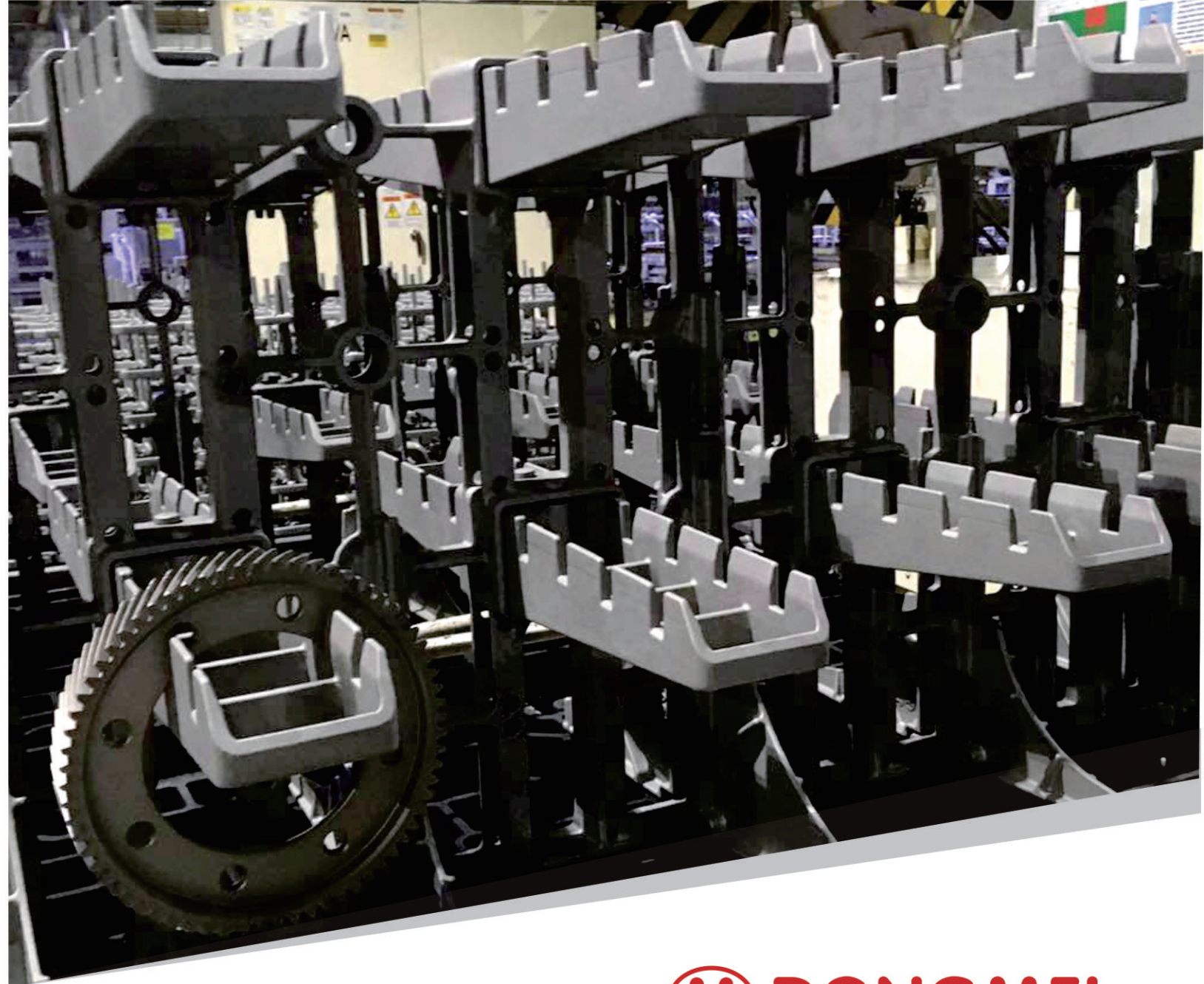
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** DONGMEI**

**Leader in the design and manufacture of  
heat-resistant steel tooling and fixtures**

**From China, to the World**





# 20+ years design and manufacture of heat-resistant fixtures

With longer life, lighter weight, higher load capacity, and shorter delivery time



DongMei began to enter the heat-resistant steel fixtures industry for heat treatment furnaces in 2003, focusing on providing clients with one-stop heat treatment tooling solutions, covering consulting in the early stage of the project, tooling design and manufacturing in the middle stage, delivery and after-sales service, continuous iterative improvement and product upgrades according to the demands of the clients.

For more than 20 years development, DongMei has been involved in a wide range of industries related to heat treatment around the world. Currently, there are more than 8,000+ heat treatment furnaces using DongMei products worldwide.

20+ years  
experience

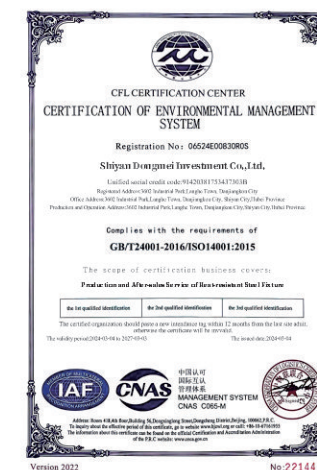
15+  
countries

600+  
clients

8000+  
products

10+ R&D  
engineers

23+ alloy  
materials



▲ IOS 14001



▲ IOS 9001

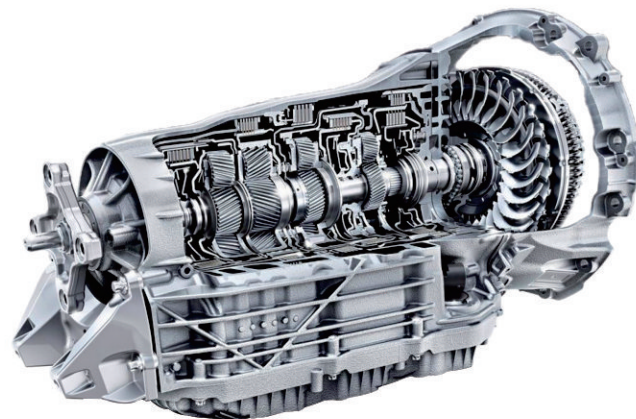


# Service Areas

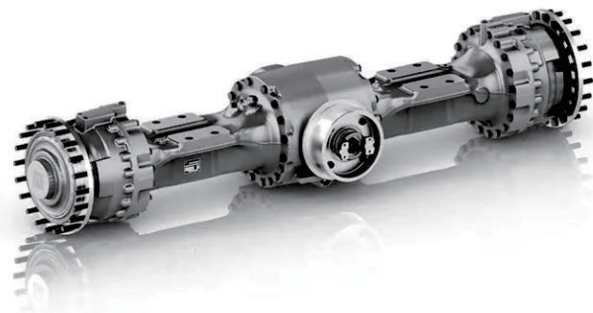
Dongmei provides services for clients in various areas such as gear, transmission, construction machinery, wind power, glass furnaces and so on



▲ Gear Industry



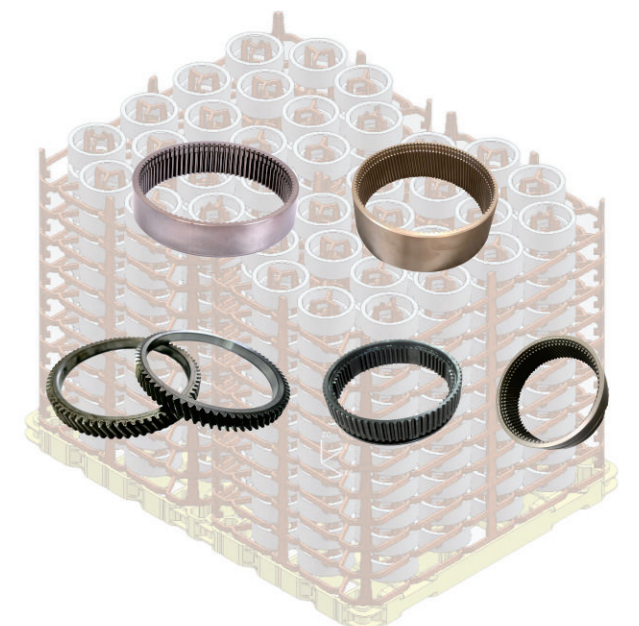
▲ Transmission industry



▲ Axle industry



▲ Construction Machinery Industry





# Clients Overview

In no particular order



Das Auto.



RENAULT



MITSUBISHI



SUBARU





# Advantages of DongMei I

DongMei has a very complete system of material varieties.

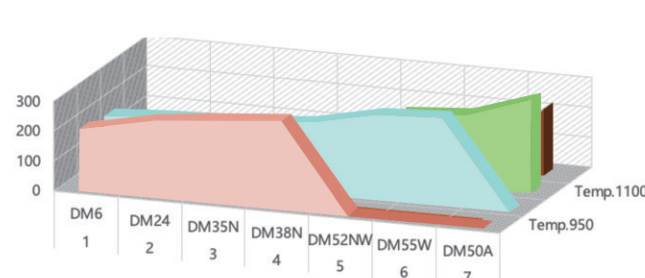
In 2012, DongMei developed super alloys DM-50A and DM-76A, which are especially suitable for ultra-high temperature and low pressure carburizing in vacuum furnaces, which can effectively reduce the expansion and deformation of fixtures and significantly reduce the adhesion between fixtures.

- Controlled Atmosphere Carburising or Carbonitriding,DM-15,DM-24N,DM-35N,DM-38N,DM-52W.etc
- Vacuum low pressure carburizing,DM-48W,DM-52W,DM-50A,DM-76A.etc
- Isothermal normalizing and Quenching and tempering,DM-21N,DM-24N,DM-33N.etc

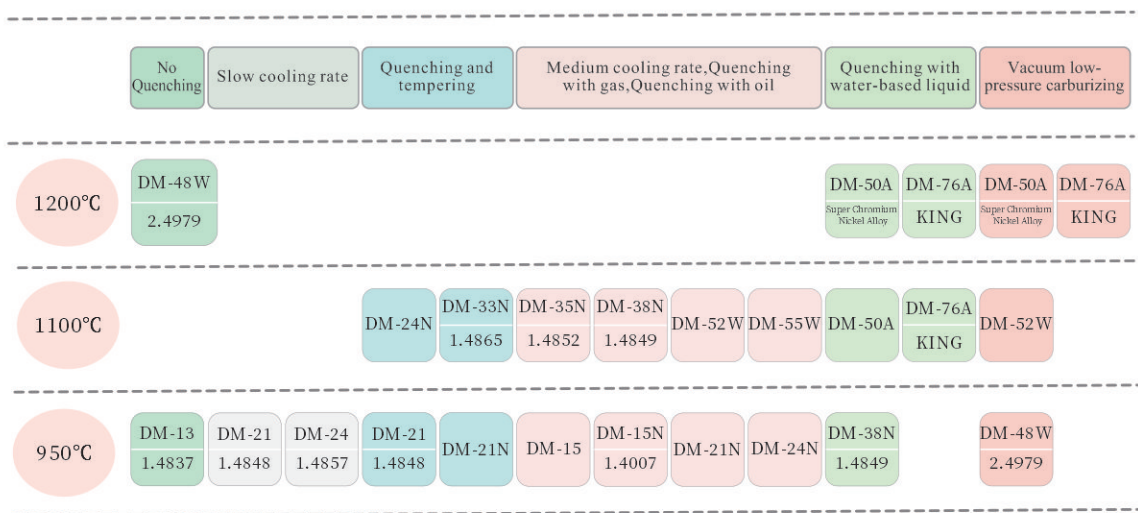
▼ High temperature strength testing of various materials



▼ High temperature strength test data for various materials



## Material System and Application



Material Chemical Composition Table

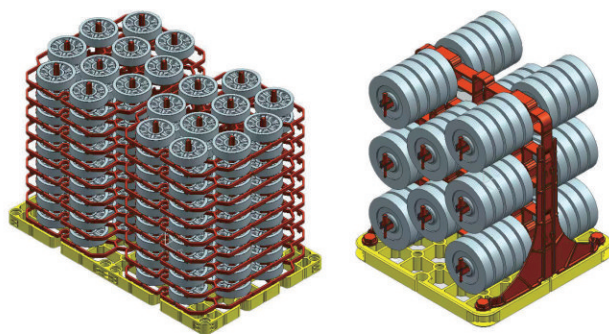
Grade of alloy material				Chemical composition						
DM	DIN	ASTM	JIS	C(%)	Cr(%)	Ni(%)	Si(%)	Mn(%)	Nb(%)	W(%)
DM12		HF	SCH12	0.2~0.4	18~23.00	8~12.00	≤2.0	≤2.0		
DM-13	1.4837	HH	SCH-13	0.35	27.00	11.50	1.50	1.00	—	
DM-13A			SCH13A	0.45	25.00	12.50	1.50	1.00	1.50	
DM-15	1.4086	HT	SCH-15	0.50	17.00	35.00	1.50	1.00	—	
DM-30N	1.4807			0.50	17.00	35.00	1.50	1.00		
DM-21	1.4848	HK30	SCH-21	0.30	25.00	20.00	1.50	1.00	—	
DM-21N				0.30	> 24.00	< 22.00	1.30	0.90	1.50	
DM-22		HK40	SCH-22	0.40	25.00	20.00	1.50	1.00	—	
DM-24	1.4857	HP	SCH-24	0.40	25.00	35.00	1.50	1.00	—	
DM-35N	1.4852			0.40	25.00	35.00	1.50	1.00	1.50	
DM-32N	1.4859			0.15	20.00	32.00	1.50	1.00	1.00	
DM-33N	1.4855			0.15	20.00	34.00	1.50	1.00	1.50	
DM-24N		IN519		0.30	23.00	25.00	1.50	1.00	1.50	
DM-55W		NA22H		0.50	27.00	50.00	1.50	1.00	—	5.00
DM-MO		MORE-1		0.40	28.00	33.00	1.50	1.00	—	1.50
DM-MOB		MORE-1B		0.3~0.5	26~30	31~35	≤2.0	1.00	—	1.50
DM-MO2		MORE-2		≤0.3	32.0~36.0	≥48.0	≤0.5	≤0.5		14.0~17.0
DM-48W	2.4879			0.45	28.00	48.00	1.50	1.00		5.00
DM-52NW		SCH44NbW		0.50	16~21.00	50~55.00	1.50	<1.5	1~2.00	5.00
DM-36N	1.4865			0.40	18.00	37.00	1.80	1		
DM-38N	1.4849			0.40	18.00	38.00	1.50	1.00	2.00	
DM-1	2.468			0.06	48.00		1.30	1.00	1.50	
DM-76A				SEC	16.00	76.00	SEC	SEC	SEC	SEC
DM-50A				0.40	24.00	50.00	1.30	0.70		SEC



# Advantages of DongMei II

## New products development process

### ProE, UG loading simulation



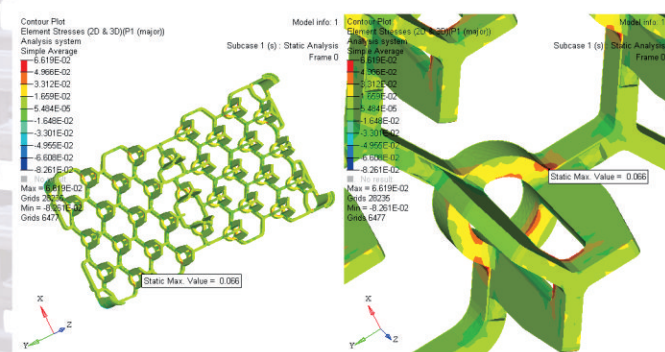
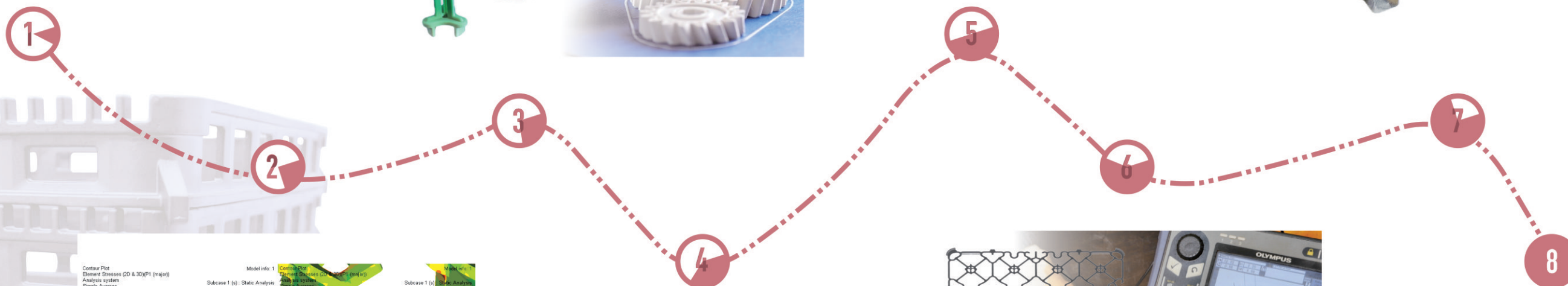
### 3D printing loading simulation



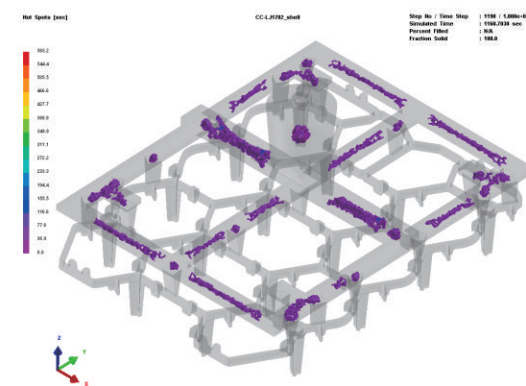
### Chemical composition testing



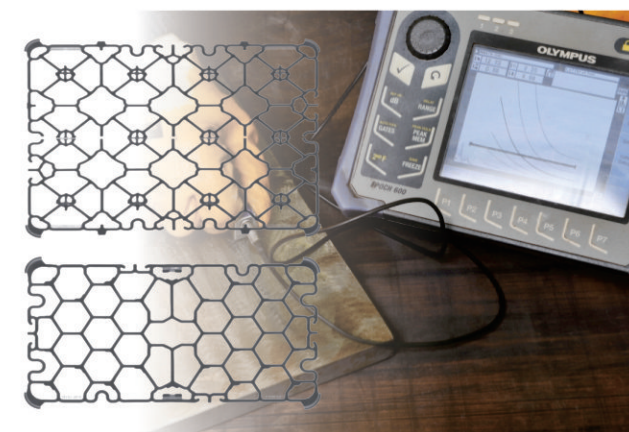
### New products cutting detection



### Ansys high temperature stress simulation



### Casting high temperature simulation



### X-ray non-destructive detection



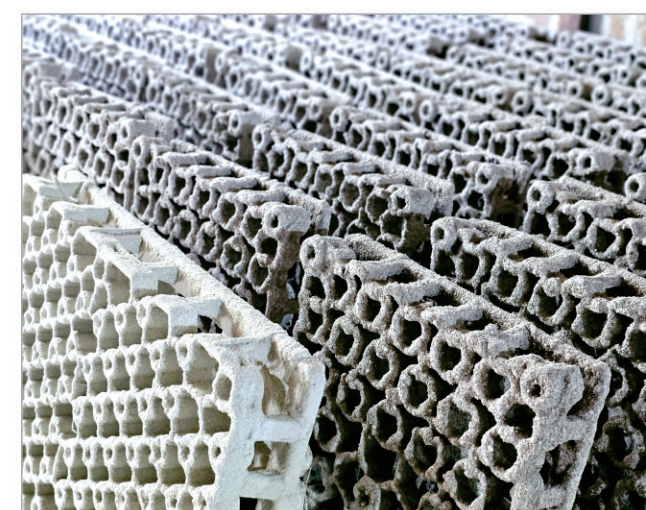
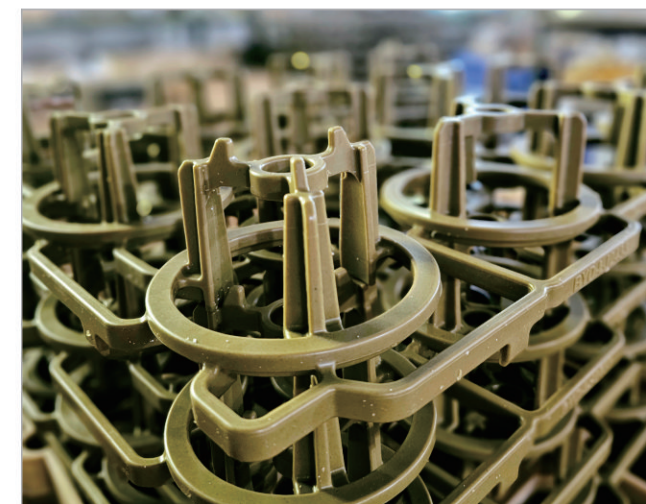
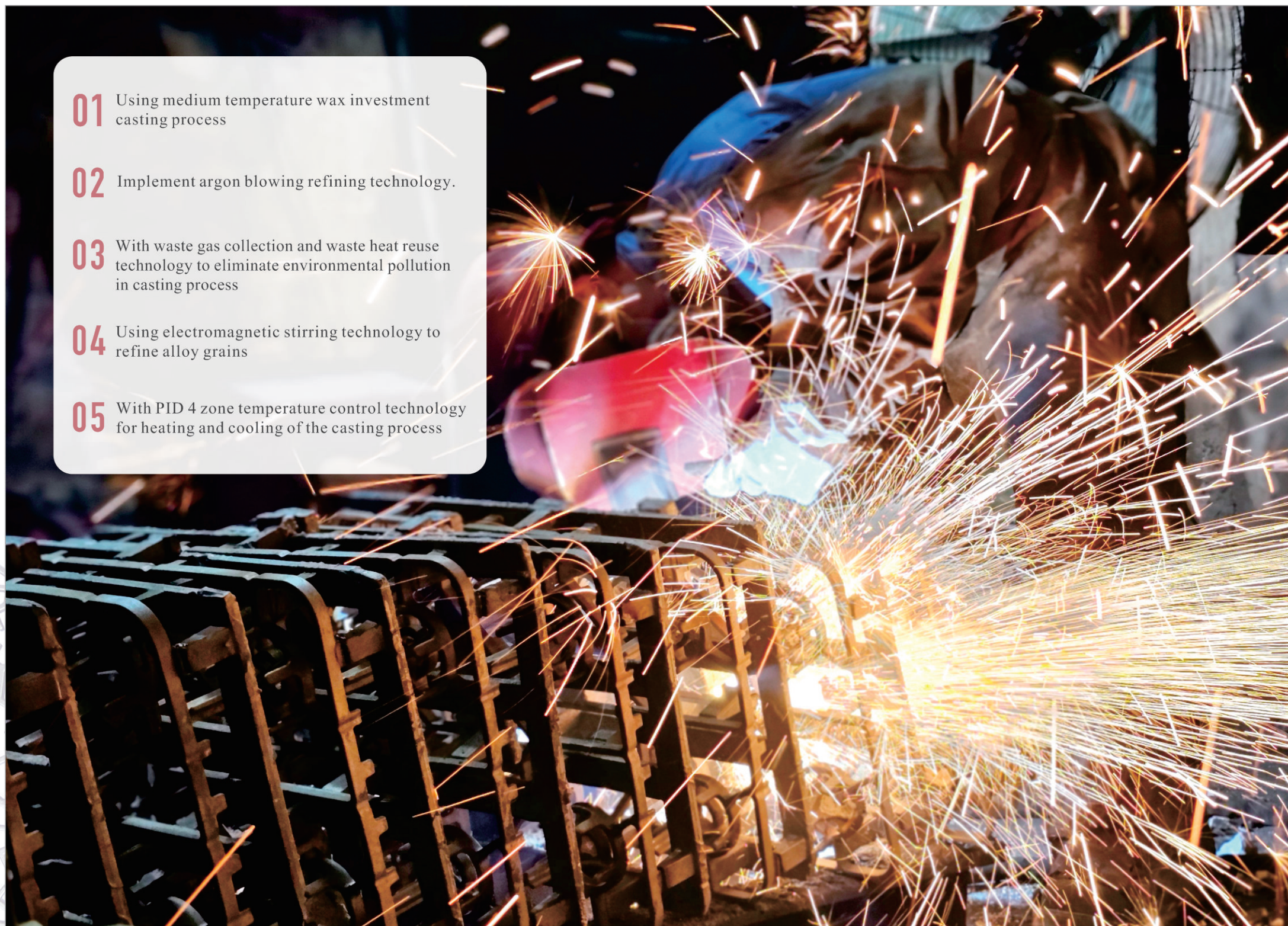
### Metallographic inspection



# Advantages of DongMei III

World leading casting technology

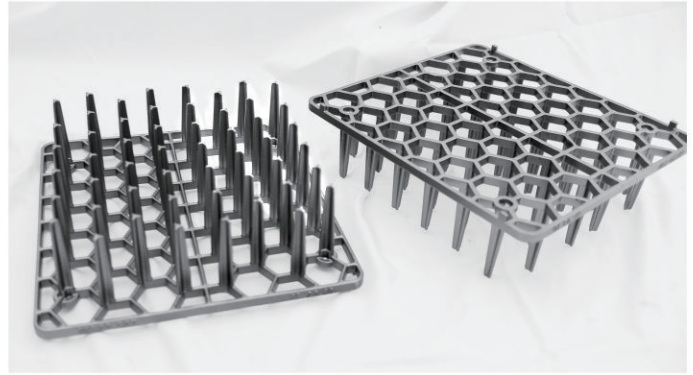
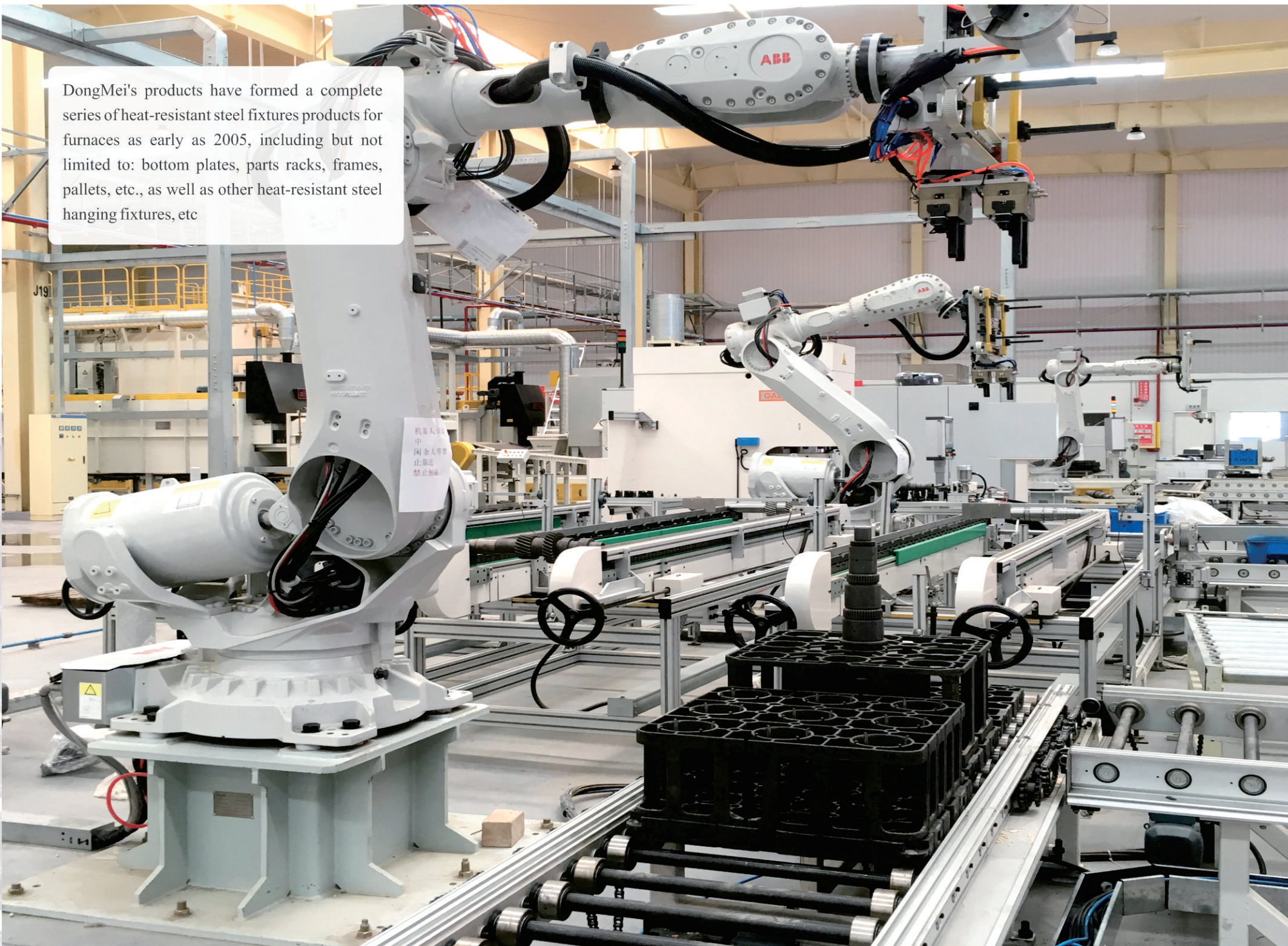
- 01 Using medium temperature wax investment casting process
- 02 Implement argon blowing refining technology.
- 03 With waste gas collection and waste heat reuse technology to eliminate environmental pollution in casting process
- 04 Using electromagnetic stirring technology to refine alloy grains
- 05 With PID 4 zone temperature control technology for heating and cooling of the casting process





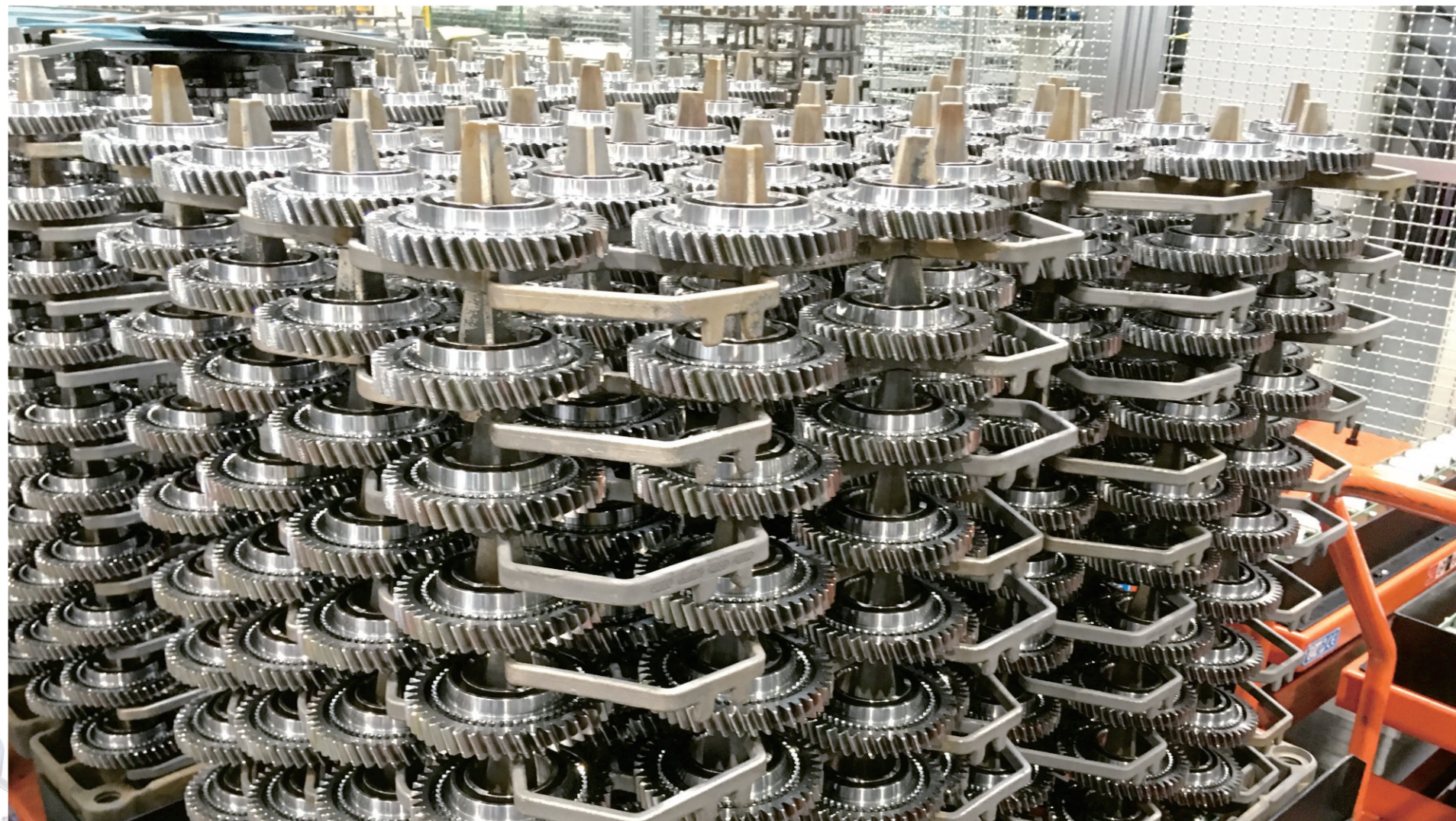
# Products Overview

DongMei's products have formed a complete series of heat-resistant steel fixtures products for furnaces as early as 2005, including but not limited to: bottom plates, parts racks, frames, pallets, etc., as well as other heat-resistant steel hanging fixtures, etc





# Product Applications- Vacuum furnace



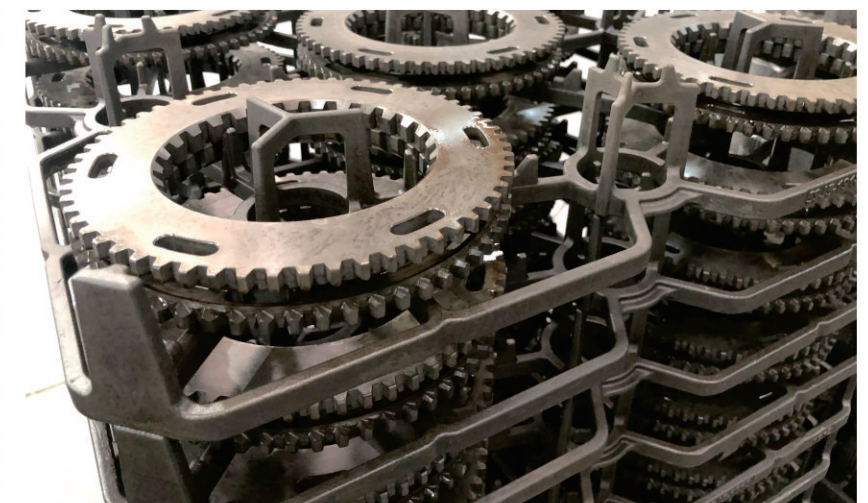
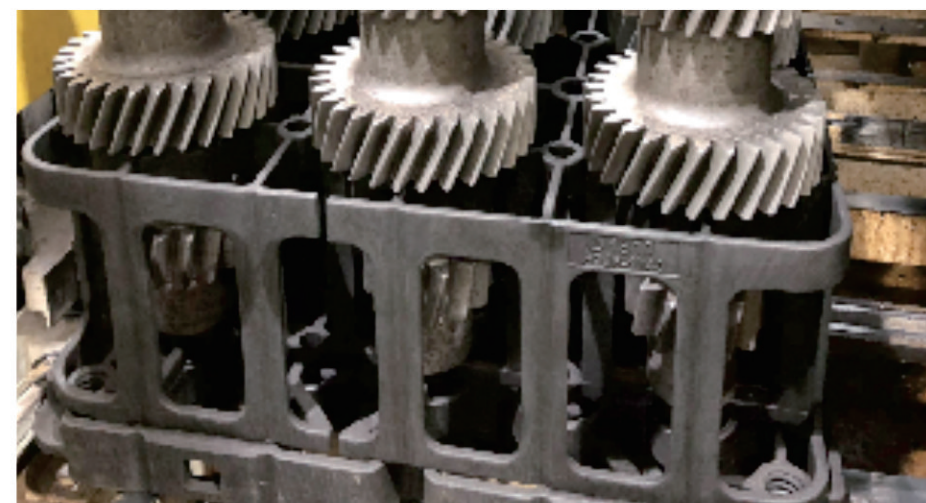


# Product Applications- Multi-purpose furnace





# Product Applications- pusher furnace





## Product Applications- other

