“Challenge Finetech”

Leading the Way in Vacuum Heat Treatment for Aerospace and Beyond

Finetech, Inc.

Osaka, JAPAN

Finetech's Journey – Roadmap and Milestones

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'12 '13 '14 '15 '16 '17 '18 '19 '20 '21 '22 '23 '24~

Business Strategy

Decision to Enter Aerospace Sector

Approach to Tier 1 Manufacturers

Outsourcing Heat Treatment for Industrial Gas Turbine Parts

Advancing in "Vacuum Brazing"

Resumption/Expansion of Heat Treatment Outsourcing

→ Expanded Aerospace Component Orders

Establishing an Aerospace Quality Assurance System

Obtained AS 9100 Certification

JAB CM023 BSK0300 BSKA0234

COVID-19 Pandemic

AMS Compliant Equipment Installation

New Vacuum Furnace Installation

→AMS2759

→AMS2750

→AMS2774、2773

→AMS2801

Another New Vacuum Furnace Installation

Establishment of "Special Process" Management System

Tier 1 Manufacturers "Special Process" Recognition

Kawasaki

SHIMADZU

→ Achieving Nadcap Certification

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Finetech in Vacuum Heat Treatment

Strength 1

Advanced Equipment and Technology

- Utilizing state-of-the-art vacuum heat treatment furnaces compliant with AMS standards.
- Capable of processing a wide range of materials to meet stringent aerospace requirements.

Strength 2

Aerospace Quality/Process Management

- Certified under AS 9100 for aerospace quality management.
- Compliant with AMS 2750 and other critical aerospace standards.

Strength 3

Industry Recognition

- Recognized as a “special process” by Tier 1 aerospace manufacturers.
- Proven reliability and excellence in special processes for the aerospace sector.

Strength 1

Advanced Vacuum Heat Treatment Furnaces

Compliant with AMS Standards

＜Specifications＞

- Maximum temperature:1350° C
- Furnace temperature uniformity: ±5° C
- Achievable vacuum level: below 10^{-3} Pa
- Pressurized cooling: 2.9 bar
- Atmosphere gases: nitrogen/argon/hydrogen
- Working zone size: 910mm x 910mm x 1220mm
- Maximum load weight: 1350 kg

Strength 1

Processable Materials and Material Standards

Material Type	(Standard (s))
• Precipitation-hardened stainless steel	(AMS2759/3)
• Austenitic stainless steel	(AMS2759/4)
• Martensitic stainless steel	(AMS2759/5)
• Stress relief of steel parts	(AMS2759/11)
• Nickel/Cobalt alloys	(AMS2773 / AMS2774)
• Titanium and titanium alloys	(AMS2801)
• Permalloy	
• Copper/copper alloys	
• Nickel, copper brazing	
• Carbon and low-alloy steel	

Compliant with AMS Standards

For more information, visit:
https://finetech-jp.com/

Strength 2
Strength 3

Quality/Process Certifications

★ AS 9100: Aerospace Quality Management System

- Obtained in January 2015
- Ensures high standards in aerospace parts manufacturing

★ AMS 2750 & AMS 2769: Aerospace Materials/ Vacuum Heat Treatment Standards

- Compliant with strict aerospace industry standards
- Validates our advanced heat treatment processes

★ Prestigious Recognitions:

- “Special Process” Recognition by Tier 1 manufacturers

Kawasaki

SHIMADZU

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Finetech in Vacuum Heat Treatment

Strength 4

Flexible and Diverse Capabilities

- Owning 6 vacuum heat treatment furnaces with various cooling options
- Capable of processing a wide range of materials to meet stringent aerospace requirements

Strength 5

Short Lead Time

- Responding swiftly to customer needs with our “on-demand” business model
- Returning products within the shortest possible time, as quickly as one day!

Strength 6

Advancing in “Vacuum Brazing”

- Collaborating with specialized brazing companies through our “Swimmy Strategy”

Strength 4

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Flexible and Diverse Capabilities

★ Six vacuum heat treatment furnaces

★ State-of-the-art furnaces for handling heavy Dies and Punches to individual punches in small lots

★ Forced cooling with nitrogen/argon and oil cooling options

＜Owned Equipment＞

• Vacuum furnace	910 x 1220 x 910H - 1 unit ※
• Vacuum furnace	610 x 910 x 610H - 1 unit ※
• Vacuum furnace	700 x 700 x 600H - 1 unit
• Vacuum furnace	600 x 900 x 500H - 2 units
• Vacuum carburizing furnace	600 x 1200 x 600H - 1 unit
• Atmosphere furnace	ϕ700 x 1100H - 2 units
• Atmosphere furnace	ϕ540 x 900H - 1 unit

※ Furnace Compliant with AMS Standards

• Tempering furnaces	8 units
• Vacuum cleaning machine	1 unit
• VC coating furnace	1 unit
• Various types of hardness testers	

Strength 5

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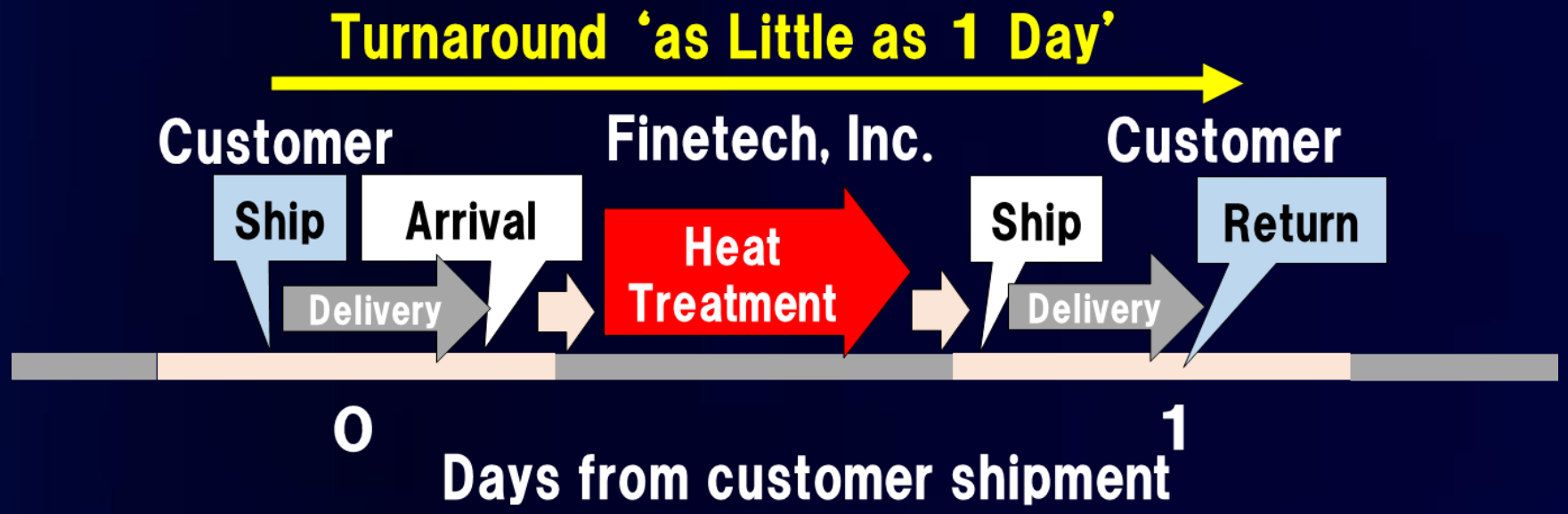
Short Lead Time

★ Responding swiftly to customer needs
with our “on-demand” business model

★ Returning products within the shortest possible time,
as quickly as one day!



Strength 6

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Advancing in “Vacuum Brazing”

★ Collaborating with specialized brazing companies through our ”Swimmy Strategy

Swimmy Strategy: A strategy where small and medium-sized enterprises collaborate, working together to tackle new challenges.

Company Overview

Finetech, Inc. is located in Daito and Higashi-Osaka cities in Osaka Prefecture, providing advanced vacuum heat treatment processes for concentrated dies & punches and component manufacturers.

Challenge Finetech

Our Commitment:

★ Strict application and maintenance of “special process” protocols

★ Contribute to customers’ development with a quick delivery business model

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For your vacuum heat treatment needs, please contact Finetech, Inc. !

Website: https://finetech-jp.com