FINEWORK stock for short: Finework Tech.
stock code: 301232

Booster the Aerospace Aviation

Finework(HuNan) New Energy Technology Co., Ltd





Chengdu guanhang Business Unit

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Changde City,Hunan Province,PRC.

FINEWORK

CONTENTS

01 Unit Introduction-Chengdu Guanhang BU

Finework Technology's Aerospace Division Chengdu Guanhang Business Unit was established in 2019, and has built a core production, assembly and testing center for key engine components such as oilfield equipment parts, engine integral discs, slender shafts and casings.

This unit is supported by a core team with many years of experience in processing and assembling core components for oil and aviation engines. It masters advanced precision processing and combined assembly technologies for various rotor and stator components such as slender shafts, integral discs and complex structure casings, and has the ability to formulate various efficient and mature machining and assembly process plans. It is equipped with key equipment such as high-precision five-axis machining centers, CNC machining centers and CNC lathes, three-coordinate measuring machines, CNC vertical lathes and high-precision dynamic balancing machines.

The Chengdu Guanhuan Business Unit of Finework Technology's Aerospace Business Group is committed to becoming a "lean manufacturing team that creates high value-added products for customers".

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Integral disk, rotating and stationary blade, disk-shaft integrated parts

Material：

Stainless steel： 1Cr11Ni2W2MoV、17-4 PH,etc;

Superalloys：INC718、INC600,etc;

Titanium alloys： Ti-6Al-4V、 Ti-6Al-6V-2Sn.

Processes:

By means of professional programming、 simulation software and online detection technology, processing time is shortened and the quality of parts is improved.

Data：

The contour of the wheel blades can be controlled within the range of ± 0.04;

Surface roughness Ra0.8;

Machinable blade depth 200mm。

Impeller

Blisk

Integrated blisk and shaft

Close blisk

02 Main Products

FINEWORK

High or low temperature aeroengine Parts

Application：

eVTOL aeroengine、High and low compressor components、Turbine and combustion chamber components.

Processes:

Through early intervention in customer design schemes, lean planning, risk analysis and control in advance, the core team effectively improves the manufacturing efficiency and test compliance rate of component-level products.

Data：

The ignition success rate of the whole set of aeroengines is 100%;;

Component level test achieved 97%

TPS Engine

High Pressure Compressor

Power Turbine Part

02 Main Products

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Sealing shell、Floating ring seal、Pump shell

Material：

Stainless steel：1Cr11Ni2W2MoV、12Cr13,etc;

Superalloys：INC718、INC600,etc;

Nonmetal：Graphite.

Process:

Shell products through professional programming technology, optimize the pump shell cavity structure tool path, shorten the processing time, seal products with the corresponding precision grinding tools, can be developed and batch production according to demand;

Data：

The flatness of the seal is controlled within 0.0009mm;

Sealing surface roughness Ra0.1;

Graphite type seal

Metal type seals

Fuel, oxidizer pump housing

Pump shaft

02 Main Products

FINEWORK

Oilfield equipment parts

Material：

Stainless steel ：1Cr11Ni2W2MoV、17-4PH,etc；

Superalloys：INC718、INC600,etc；

Aluminium alloy：6061、 7075,etc.

Features:

1, the process is complex and includes a variety of special processes;

2, the cavity structure is complex;

3, high surface quality requirements.

Process:

HVOF spraying;

Vacuum electron beam welding;

Copper plating

Shell

Hangers

Connector

Shell

02 Main Products

FINEWORK

Oilfield equipment parts

Material：

Stainless steel ：1Cr11Ni2W2MoV、17-4PH,etc；

Superalloys：INC718、INC600,etc；

Aluminium alloy：6061、7075,etc.

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Process:

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Copper plating

Insert

Connector

Shell

02 Main Products

FINEWORK

Oilfield equipment parts

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Rotary Steerable drilling tool

02 Main Products

FINEWORK

Oilfield equipment parts

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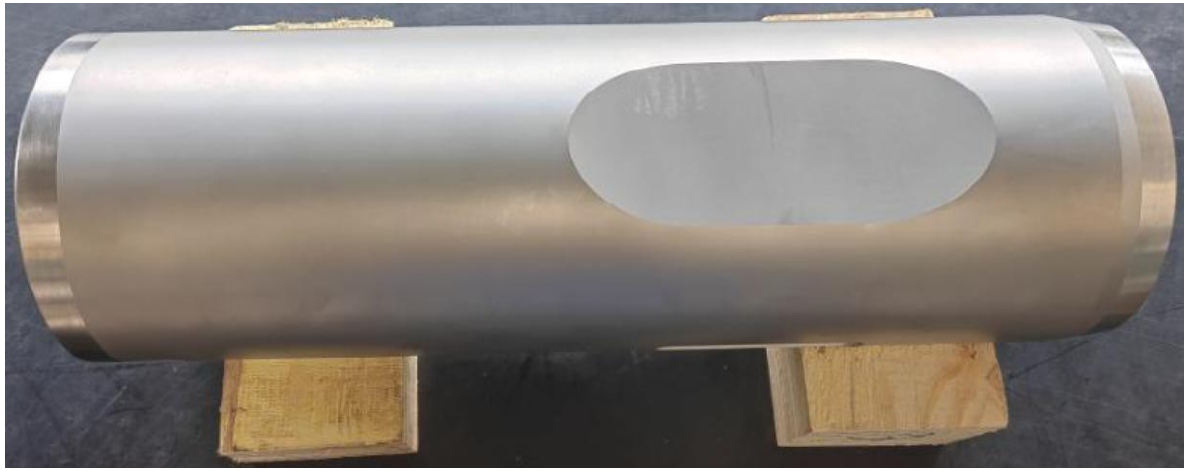

Rotary Steerable drilling tool

03 Core competencies-Key technology

1. Blisk processing, simulation and on-line detection technology
2. Integrated blisk and shaft processing technology
3. Complex special process integration technology
4. Component level product processing technology
5. Complex cavity product processing technology

03 Core competencies - Key processing equipment

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Five axis machining center

Brand and model

“Sigma"
FLEXI-5S

Equipment accuracy

Positioning accuracy：X/Y/Z0.006 A/C 8";
Repeatability：X/Y/Z0.003 A/C 4"

Quipment itinerary

X/Y/Z 500/450/400

Horizontal machining center

Brand and model

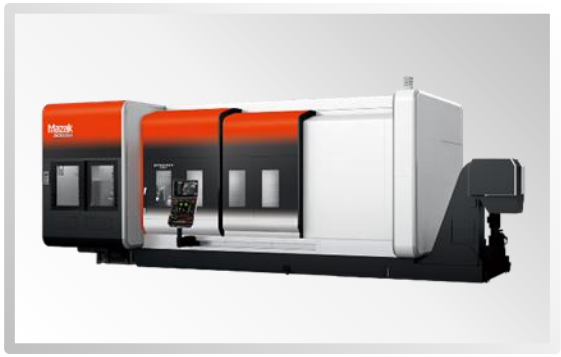
“BYJC"
MAR-800H-e

Equipment accuracy

Positioning accuracy ： X/Y/Z 0.005 C 8";
Repeatability ： X/Y/Z 0.0015 C 4 "

Quipment itinerary

X/Z Φ1450*1450



Turn-mill combination

Brand and model

“MAZAK" INTEGREX i-500

Equipment accuracy

Positioning accuracy ： 0.004

Quipment itinerary

X700*Z3074

Five axis machining center

Brand and model

"Doosan" DC4050

Equipment accuracy

Positioning accuracy ：
X/Y/Z±0.003 B 15";
Repeatability ： X/Y/Z0.0015 B 4"

Quipment itinerary

X/Y/Z 800/500/500

04 Detectability

FINEWORK

ICP

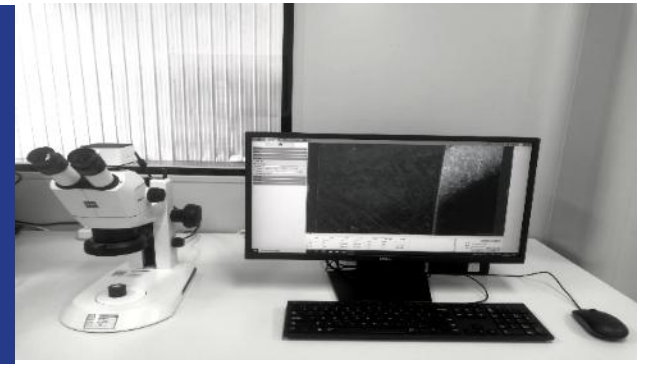
Hardness tester

Metallographic microscope

ONH

XRF

Body macroscope



CS

OES

CMM

FINEWORK

05 Qualification certificate

BTCC-QMS

北京天一正认证中心有限公司

（本中心位于北京市西城区北礼士路 98 号、甲 98 号 1 幢五层 506 室）

质量管理体系认证证书

注　册　号：02624Q31160R0S

统一社会信用代码：91510181MA6A1W8J6F

兹证明

成都灌航科技有限公司

注册地址：四川省成都市新都区工业东区白店路 86 号

经营地址：四川省成都市新都区工业东区白店路 86 号

质量管理体系符合

GB/T 19001-2016 / ISO 9001:2015 标准

质量管理体系认证所覆盖的范围

航空机械零、部件的加工。

总经理：

证书生效日期：2024 年 08 月 13 日

证书有效期至：2027 年 08 月 12 日

中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C026-M

ISO 9001:2015

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THANKS !

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