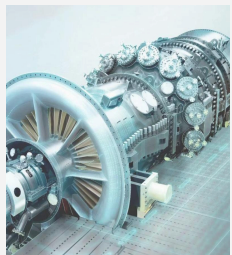




Shenzhen Stock Exchange : Finework Technology
Stock code: 301232

Finework(Hunan) New Energy Technology Co., Ltd.



WIND ENERGY



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Sales2@shfinework.cn

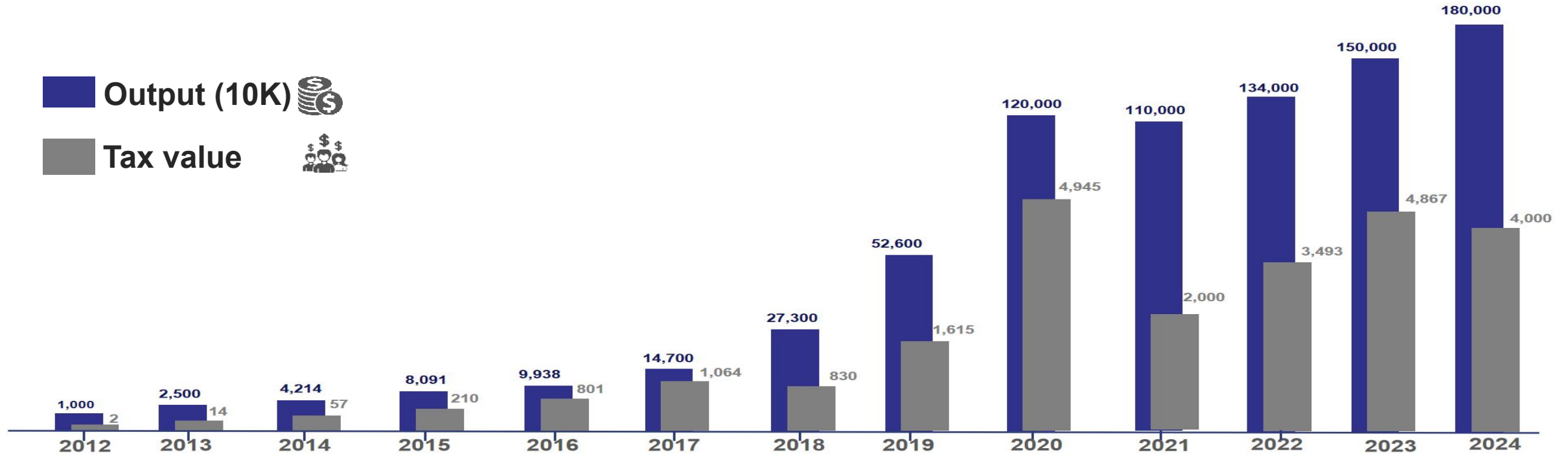


www.hnfinework.com

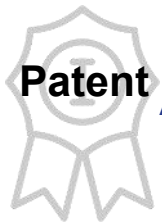


总部
Headquarters

湖南省常德市桃源县陬市镇东新路
Dongxin Road, Zoushi Town, Taoyuan County,
Changde City, Hunan Province, PRC.



A 12-Year Leap: Scaling from RMB 1 Million Startup Capital to RMB 1.8 Billion in Output Value.



Patent

75+ items

Authorized Patent

24 items

Software Authorships

36 items Patent for Invention

37 items Utility Model Patent

8 items Leading Participation
Indeveloping



Honor

Global market share of embedded
screw sleeve of wind turbine blade **No.1**

National Intelligent **Manufacturing Pilot**
Demonstration Enterprise by MIIT

Wind Energy—Overview and Product Portfolio

FINEWORK



- Qualified by LM and stepped into wind energy industry in 2012 as a global blade bushing supplier
- Expanded product portfolio from blade connections to full range of wind turbine fasteners
- The biggest wind energy fasteners supplier with a global market coverage (#1 since Year 2020)
- Customer portfolio enlarged from wind turbine manufacturers, OEM players, EPC contractors to utility operators
- Wind tower manufacturing and wind farm project set up in 2025

Annual output: **200,000 Metric Tons**

Factory Area: **180,000m²**

Full in-house Capability



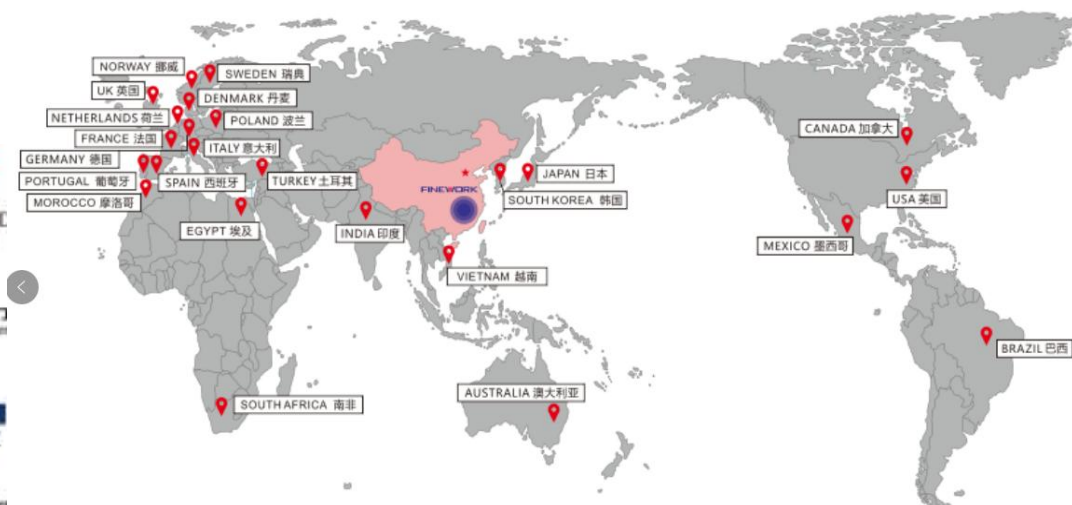
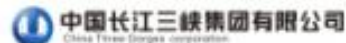
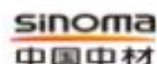
Wind Energy—Customer Portfolio

FINEWORK

Global



China



Automatic manufacturing lines for bushing

• Material loading system

Automatically loading material, adjust the supply speed of loading materials, voice and light warning for workpieces shortage

• Forging automatic system

Composed of robot, medium frequency machines and punching machines. One robot controls 6 medium frequency heating stations

• Drilling flexible manufacturing system

Composed of drilling machines, robots and loading system. Loading and unloading workpieces by robots. Precise drilling holes, pre-warming during manufacturing process

• Machining flexible manufacturing system

One robot and 4 NC lathes collaborative turning operation, clamping and loading workpieces automatically

• Automatic cleaning system

Automatically grasp workpiece with truss-type manipulator. Soak and dry the cleaning grooves automatically

• MT automatic system

Automatically loading workpieces, control the feeding speed according to the operation of the magnetic particle detection lines, warning for material shortage automatically

• Automatic zinc spraying system

Automatic loading the workpieces, control spray gun by advanced sensors and servo motors. Workpieces are driven by the frequency conversion motor to rotate at a constant speed to ensure the spraying quality



1、Cutting



2、Forging



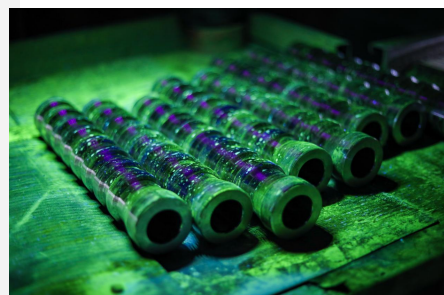
3、Drilling



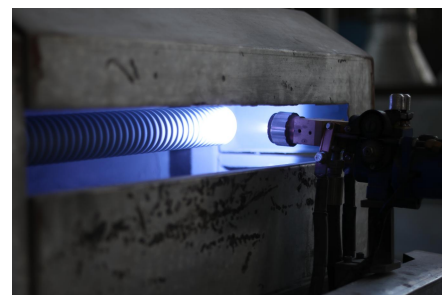
4、Machining



5、Automatic Cleaning



6、MT



7、Zinc Spraying



8、AGV Transit

Automatic manufacturing lines for stud bolts

- **Automatic production lines for cutting and chamfering**
Two sawing machines with a double-head chamfering machine are closely connected to cutting machine as a automatic line
- **Automatic production lines for boring and extruding**
Six boring machines are connected with one extruding machine. Save transit time and manpower cost
- **Automatic production lines for turning**
Different processes are connected through the product conveyor chains continuously with the self-developed integrated control system
- **Marking - Threading automatic lines**
Marking, threading and visual checking are closely connected to realize the automatically operation
- **Threadling- cleaning- MT automatic system**
Threading process is connected to the cleaning machines and automatically transit to the MT process. After the MT is qualified, move the material rack with robot. By remote monitoring



1、Cutting&Chamfering



2、Boring



3、Extruding hole



4、Turning



5、Marking



6、Threading



7、Cleaning



8、NDT



9、Coating



10、Packing

Wind Energy—Capabilities

Automatic manufacturing lines for Hex-bolts

- **Turning and testing automatic system+Hot forging automatic**

Automatic production for cutting, rough turning and forging process with online testing

- In-house design and development of integrated automatic control system to get online switch of process parameters and pre-warning of manufacturing process done

- **Threading- cleaning- MT automatic system**

Self-designed and developed an integrated control system to achieve automated online production of hex bolt threading, cleaning, and NDT. Reduce the transit time and man power cost.

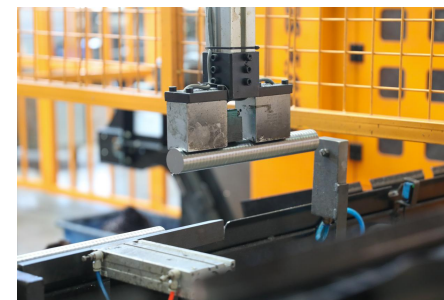
- **Automatic coating line**

- Realize the cooperative operation mode of shelf, drive system, palletizing tooling and palletizing cars

- Online process parameters switch and automatic pre-warning in manufacturing process

- **Automatic packing line**

Robots equipped with specialized fixtures to replace manual handling, the workload on personnel has been significantly reduced. Work efficiency improved by 160%. The integration of vision systems, counting systems, weight-bearing systems, and automatic label printing and affixing devices has **effectively mitigated issues such as material mixing and inaccurate quantities that are often associated with manual operations.**



1、Cutting



2、Forging



3、Turning



4、Threading



5、Cleaning



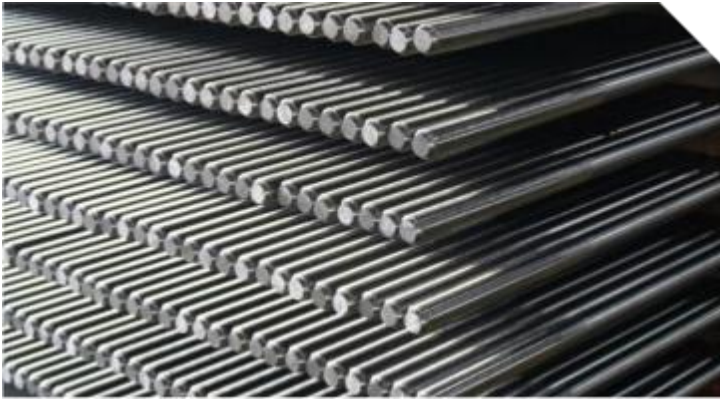
5、NDT



5、Coating



5、Packing



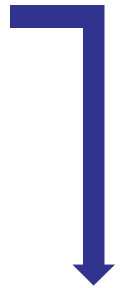
Heat Treatment



Peeling



Straightening



Anchor Bolt

- Annual capacity: 50,000 metric tons
- Max. in size: M72
- Max. in length: 12meters
- Surface treatment: HDG & others



Packaging



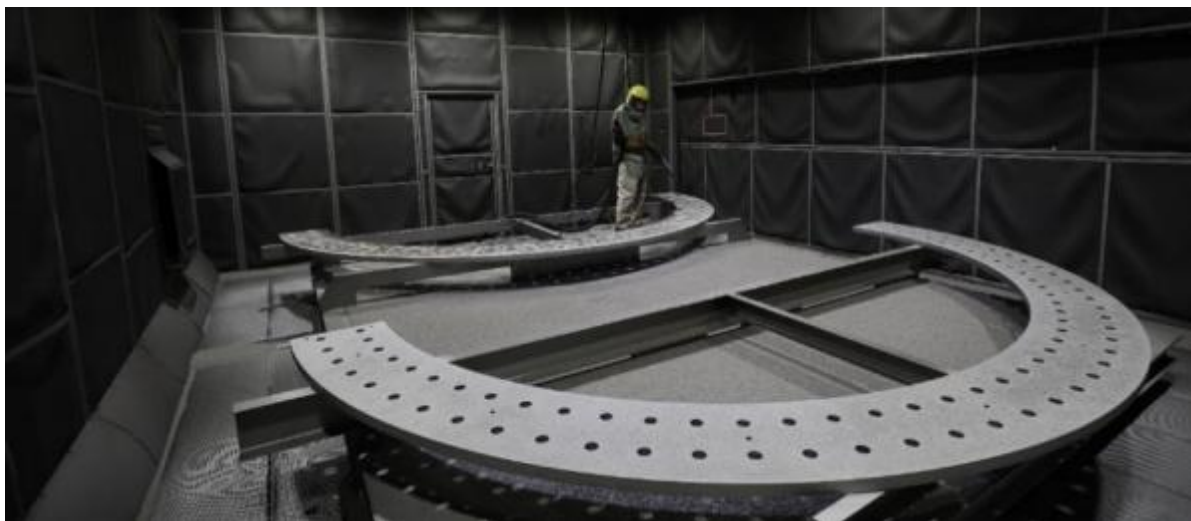
Surface Treatment



Thread Rolling

Flanges (Anchor Plates)

- Annual capacity: 20,000 tons
- Maximum Diameter: 8 meters
- Surface treatment: Zinc Thermal Spraying and others



New setup in 2025-Wind Towers

- Manufacturing base: Changde City, Huaihua City, Liuzhou City
- Capacity:
 - a) Steel tower: 250 sets
 - b) Concrete tower: 100sets
- Highlights:
 - a. Welded steel construction
 - b. Leading manufacturing process
 - c. Experienced engineering



Steel Tower



Concrete Tower



Full In-house Manufacturing Process



Heat Treatment

Production lines: 10+
Capacity: 100,000 metric tons/Year



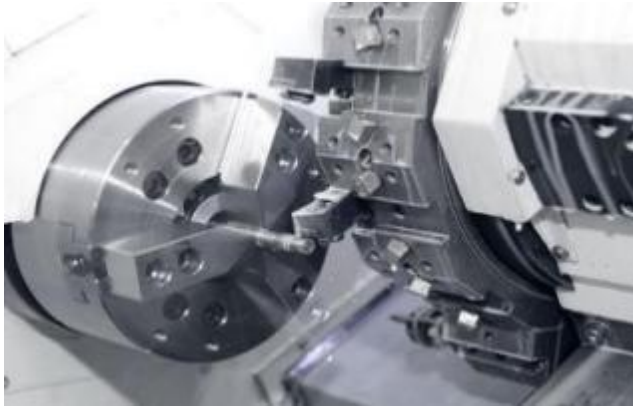
HT—Magnetic Induction

Production lines: 5
Capacity: 50,000 metric tons/Year



Hot Forging

Production lines- 10+
Capacity: 100,000 metric tons/Year



Machining

CNC #: 500 units+
Capacity: 10 Million pieces



Thread Rolling

Production lines: 10+
Capacity: 100,000 metric tons/Year
Max. in Size: M72



Coating

Production lines: 8+
Capacity: 100,000 metric tons/Year
Coatings available: GEOMET ,MAGNI , DELTA-MKS ,ZINTEK ,
HDG, Zinc THERMAL SPRAYING



Non-destructive Testing

- PT, UT, MT and other non-destructive testing capabilities
- PT & MT level 3 qualification certificates.



UT

UT Level III certificate



MT

MT Level III certificate



PT

PT Level III certificate



ICP Testing



OES Testing



ONH Testing



CS Testing



XRF



NSS



Digital Microscope



Hardness Testing



Metallographic Microscope



Vibration Testing



Durability Testing



Fatigue Testing



Torque



Room Temperature Stretching



High Temperature Stretching





Coordinate Measuring Machine

Model
CromaClassic8106/
800*1000*600

Monitoring Project

Precision Size
Measurement

Accuracy
0.0001mm



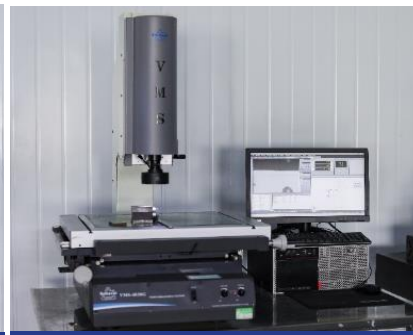
Digital Altimeter

Model
Mitutoyo (Japan) LH-
60

Monitoring Project

Precision Height
Measurement

Accuracy
0.0001m
m



CNC Projector

Model
RPI VMS-4030G

Monitoring Project

Precision Projection
Measurement

Accuracy
0.001mm

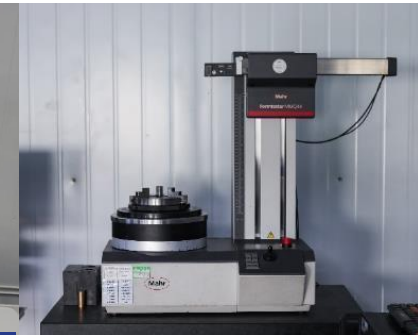


Profilometer

Model
Wilson Precision MMD-
HPG150TSL
Monitoring Project

Precision Contour
Measurement

Accuracy
0.005mm



Roundness Tester

Model
Mahr Group. MMQ44

Monitoring Project
Precision Roundness
Measurement

Accuracy
0.0001m
m



Gear Testing Center

Model
PREC30

Monitoring Project

Precision Gear
Measurement

Top to bottom distance
15-500
m

Qualification and Certificates



ISO 14001



ISO 16949



ISO 9001



IATF 16949



GL



CNAS(ISO/IEC 17025)



TPG-Heat Treating



TPG-NDT



NADCAP(MT&PT)



AS9100D



API-20E



API-20F

Wind Energy—New Production in Vietnam



- Land area: 70,000m²
- Workshop area: 40,000m²
- Office area: 5,000m²
- Employees : 90+ till December 2024

- Location: Nam Dinh Vu Industrial Park, Haiphong City, Vietnam.
- Temperature: Monthly average temperature is 20~23 °C.

Location	Distance
Hai Phong Train Station	15 km
Deepwater Port	15 km
Highway	7 km
Airport	12 km
Hanoi city center	105 km