MAKE INDUSTRY BETTER

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RONDS

INDUSTRIAL MACHINERY FAILURE DIAGNOSIS & HEALTH MANAGEMENT SOLUTIONS

Stock code: 688768
www.ronds.com

ABOUT RONDS

Founded in 2007, Anhui Ronds Science & Technology Incorporated Company (RONDS, Stock Code: 688768.SH) is an AI-driven industrial services company providing leading intelligent operation & maintenance solutions and subscription-based services for industrial equipment.

RONDS combines cutting-edge AI technology with real industry applications, offering diversified product systems like scenario-based intelligent operation solutions and PHMGPT industry models.

RONDS' national-level platform, SuperCare, addresses challenges in digital intelligence transformation for equipment management across various industries, linking over 200,000 key equipment sets and forming over 35,000 closed-loop failure cases.

Listed on the Shanghai Stock Exchange in 2021, RONDS serves Europe, South America, North America, Southeast Asia, and other regions.

In the future, Ronds will deeply cultivate intelligent operation and maintenance of equipment. Based on industrial big data, driven by artificial intelligence, Ronds will provide customers with globally leading products and services and embrace the new era of industry.

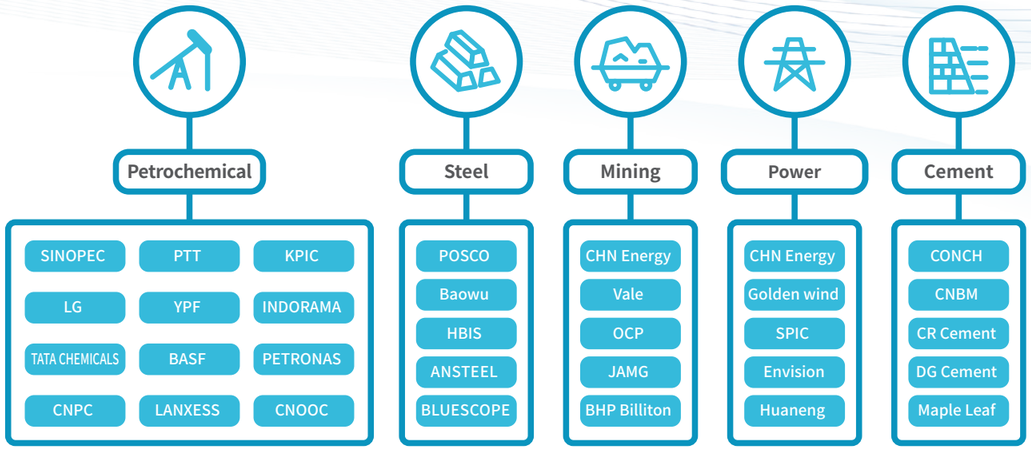
20+
Years experience
in predictive maintenance field

2000+
Customers
worldwide

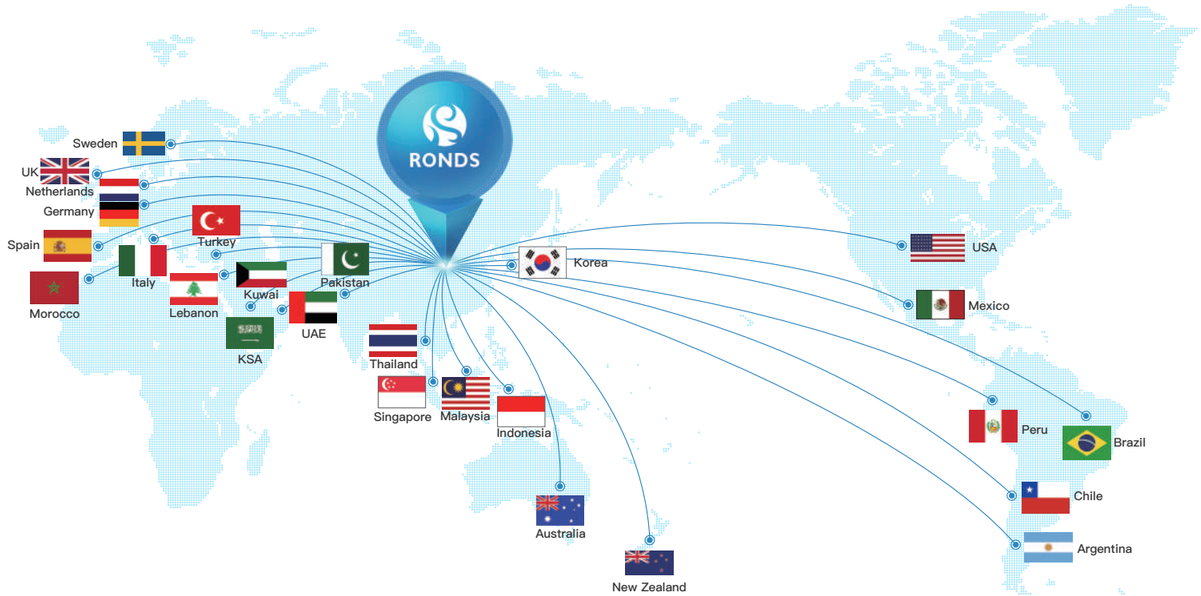
No.1
Market share in China
Predictive maintenance

TYPICAL CUSTOMERS

Ronds is a leading provider of industrial solutions across over ten industries. Parts of typical customers are as following:



Ronds products and services have been exported to more than 35 countries.



900,000+

Sensors installed

200,000+

Machines access to RONDS remote monitoring center

3,500,000+

Monthly & Diagnostic reports released

35,000+

Closed-loop cases

RONDS HIGHLIGHTS

Professional equipment predictive maintenance

More than 10 years industrial service accumulation

Complete software and hardware technology planning

Stable equipment intelligent O&M platform

容知日新 RONDS

Multi-scene data acquisition capability

5000+ online monitoring capability per engineer

Fast algorithm update iteration

24/7 online monitoring service

Data as of September 2025

RONDS PREDICTIVE MAINTENANCE SYSTEM ARCHITECTURE

RONDS predictive maintenance system uses sensors and data collectors to collect various data (such as vibration, temperature, speed, etc.) from key equipment continuously and upload it to the server through various communication methods.

Realize the prediction of equipment faults with AI algorithm, diagnosis platform and professional analysts.

Ensure continuous operation, avoid unplanned downtime, and reduce O&M cost.

(Diagnostic Software)

With advanced technology, leading planning, sustainable and implementable equipment predictive maintenance solutions that combine the intelligent concept in various industries, coupled with internet technology design models, Ronds always provides with satisfying products and services.

Data source layer: strong data collection capability and rich industrial protocols such as OPC, Modbus, API, Kafka, MQTT etc.

Analysis layer: open big data architecture and complete business application hosting capability

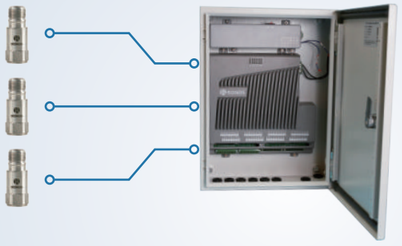
Application layer: rich intelligent operation and maintenance capabilities

Server

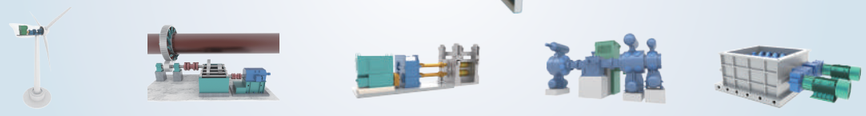
Data Integration with other systems (DCS/PLC/MES SCADA…)

Ethernet/ Optical fiber/WIFI/4G/5G

Wired vibration & temperature sensors



Key & variable speed equipment



Wind turbine | Rotary kiln | Rolling mill | Compressor | Crusher

Ethernet/ Optical fiber/WIFI/4G/5G

Constant speed equipment

Wireless vibration & temperature sensors

Conveyor | Pump | Blower | Hoist | Mixer

HARDWARE INTRODUCTION

RH103T Wired Vibration & Temperature Sensor

- Frequency range: 0.4Hz~15kHz (±3dB)
- Sensitivity: 100mv/g
- Vibration range: ±80g
- Temperature measuring range: -40°C~120°C
- IP grade: IP 68

RH113T Wired Vibration & Temperature Sensor

- Frequency range: 0.1Hz～10kHz (±3dB)
- Sensitivity: 500mv/g
- Vibration range: ±10g
- Temperature measuring range: -40°C~120°C
- IP grade: IP 68

RH505 Wireless One Axial Vibration & Temperature Sensor

- Frequency range: 2Hz~20kHz (Piezo)
- Vibration range: ±50g
- Long time waveform: 2M
- Integrated design, built-in antenna, low consumption
- Transmission distance: 300m line of sight
- IP grade: IP 68

RH605 Wireless Triaxial Vibration & Temperature Sensor

- Frequency range: Piezo(Z): 2Hz~20kHz, MEMS(X, Y): 2-1kHz, ±3dB
- Vibration range: Piezo: ±50g, MEMS: ±16g
- Integrated design, built-in antenna, low consumption
- Transmission distance: 300m line of sight
- IP grade: IP 68

RH104T Wired Vibration & Temperature Sensor

- Frequency range: 0.4Hz～10kHz (±3dB)
- Sensitivity: 100mv/g Vibration range: ±80g
- Temperature measuring range: -40°C~120°C
- IP grade: IP 68
- 360°C side exit installation, suitable for monitoring in narrow spaces

RH104TC Wired Vibration & Temperature Sensor

- Integrated cable molding, supporting submersible use
- Frequency range: 0.4Hz～10kHz (±3dB)
- Sensitivity: 100mv/g Vibration range: ±80g
- Temperature measuring range: -40°C~120°C
- IP grade: IP 68
- 360°C side exit installation

RW506(M) Wireless One Axial Vibration & Temperature Sensor

- Frequency range: 2Hz~20kHz (Piezo)
- Vibration range: ±50g
- Long time waveform: 2M
- Integrated design, built-in antenna, low consumption
- Transmission distance: 300m line of sight
- IP grade: IP 68
- Collect and analyze motor working condition data
- Intelligent algorithm

RW606(M) Wireless Triaxial Vibrtion & Temperature Sensor

- Frequency range: Piezo(Z):2Hz~20kHz, MEMS(X, Y): 2-1kHz, ±3dB
- Vibration range: Piezo: ±50g, MEMS: ±16g
- Integrated design, built-in antenna, low consumption
- Transmission distance: 300m line of sight
- IP grade: IP 68
- Collect and analyze motor working condition data
- Intelligent algorithm

RH2000 Online Data Collector

- Synchronized and real-time acquisition of 8, 16 or 24 channels vibration & temperature signals
- Support vibration, eddy current displacement, speed, temperature and working process signal acquisition
- The analysis frequency is up to 40kHz, can calculate 102400 lines FFT spectrum
- Support Ethernet, optical fiber, Wifi, 4G, 5G, RS485 communications.

RH630 Online Oil Quality Monitoring System

- Metal debris size: 50μm Fe / 150μm nFe
- Density: 600 kg/m^3 - 1250 kg/m^3
- Kinematic viscosity at 40°C: 1 ~ 1000 cSt
- Dielectric constant: 1~6
- Oil temperature tolerance: -30°C~85°C
- Water activity: 0~1 aw
- Water content: 0-3000 ppm
- Moisture content: 0~5%

RW625 Wireless Transmitter

- Version 1: with 2 Ronds special low power vibration sensor
- Version 2: with 2 IEPE sensor
- Version 3: with 2 processing info channel
- Version 4: with 4 PT100
- Weight: 630g
- Ambient temperature: -40°C~70°C
- Probe(vibration sensor): -40°°C~120°°C
- Wireless transmission: 300m line of sight
- IP grade: IP67

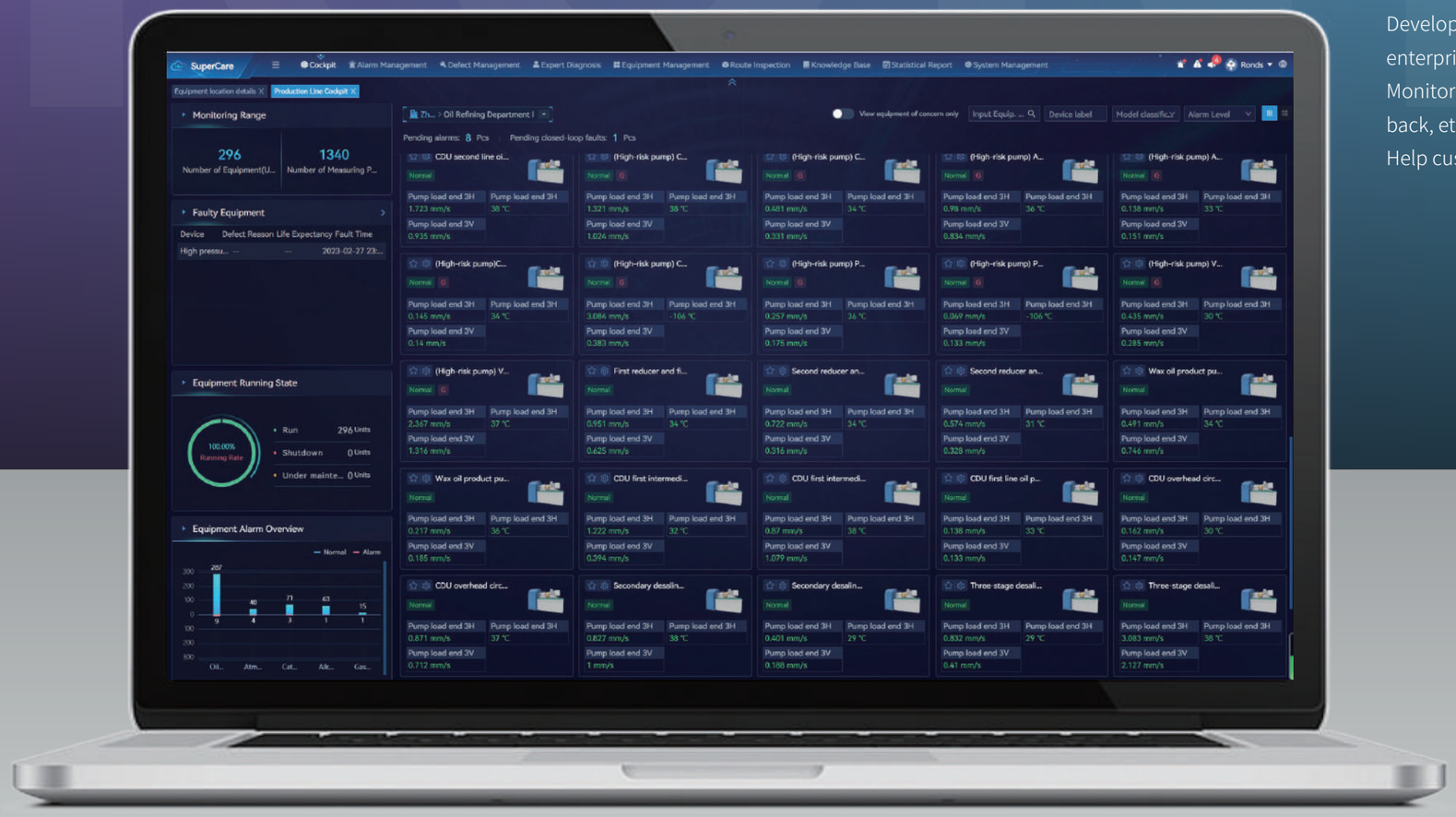
RW161 Wireless Sensor Lora Version

- Piezo(Z): 10Hz-10kHz MEMS(X, Y): 10-900Hz
- Vibration range: Piezo: ±50g, MEMS: ±16g
- Integrated design, built-in antenna, low consumption
- Transmission distance: 2000m line of sight
- IP grade: IP 68
- Overall value collection, time waveform collection, alarm function

RH570 Wireless Gateway

- Low consumption, IP66
- Wireless data transmission distance: 300m line of sight
- Support maximal 60 channels
- Ethernet, optical fiber, Wifi, 4G, 5G communication method options

INTELLIGENT PC SOFTWARE & CELLPHONE APP



Ronds Intelligent PC software

Support online monitoring of various equipment with predictive maintenance as the core.

Realize intelligent early warning and intelligent diagnosis.

Facilitate the digital transformation of equipment status management.

Drive equipment management application and industrial internet core applications.

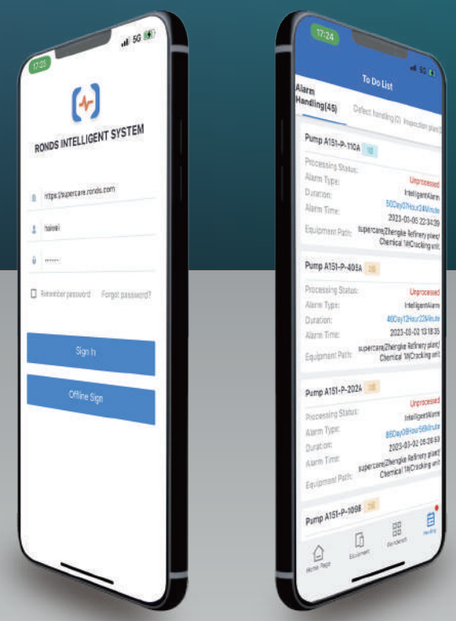
Reduce costs and increase efficiency in equipment operation.

Ronds Cellphone APP

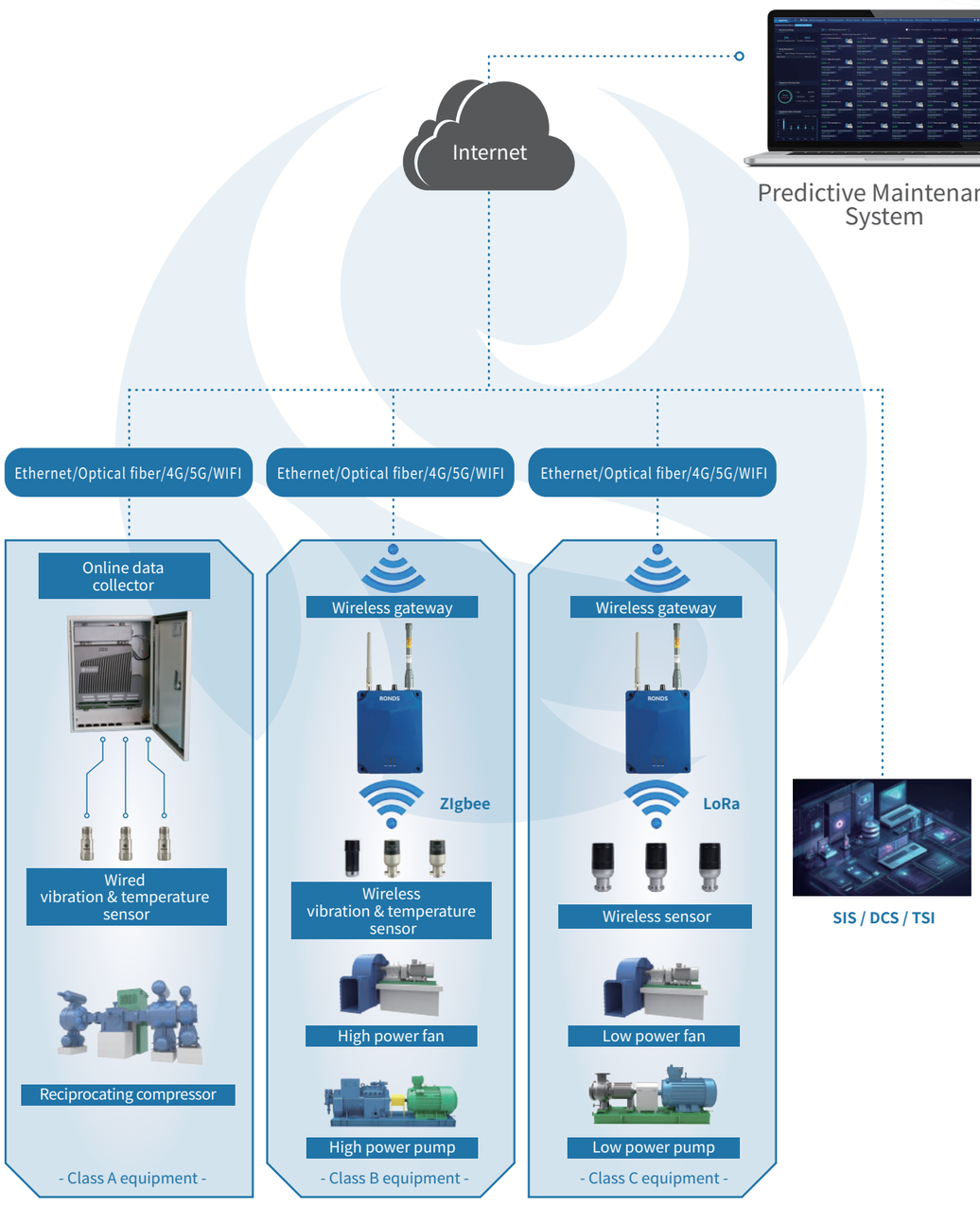
Developed for daily maintenance and comprehensive management requirements of enterprises.

Monitor equipment status in real time, handle equipment status, track process feed-back, etc.

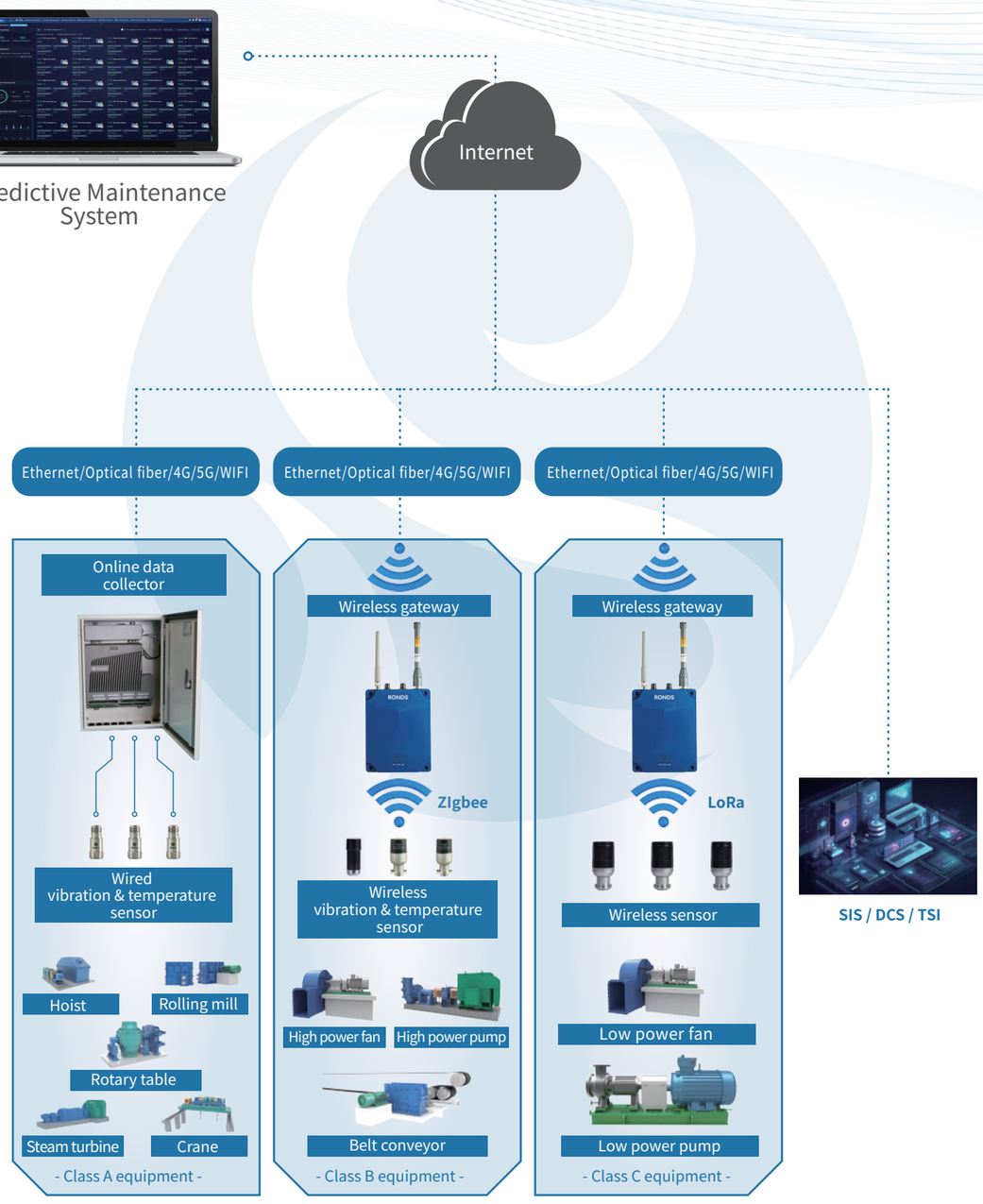
Help customers to know their machine condition anywhere and any time.



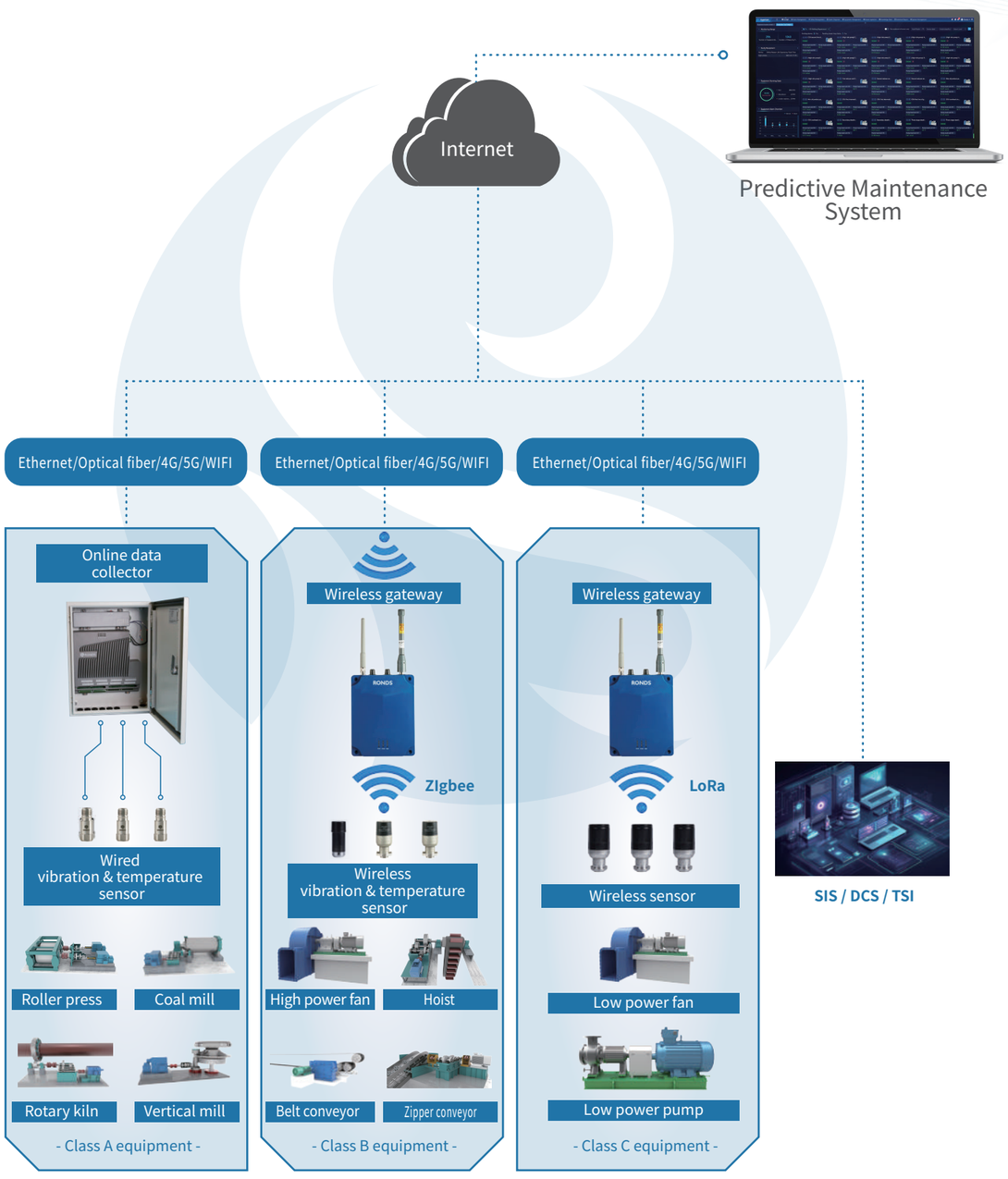
PETROCHEMICAL INDUSTRY APPLICATIONS



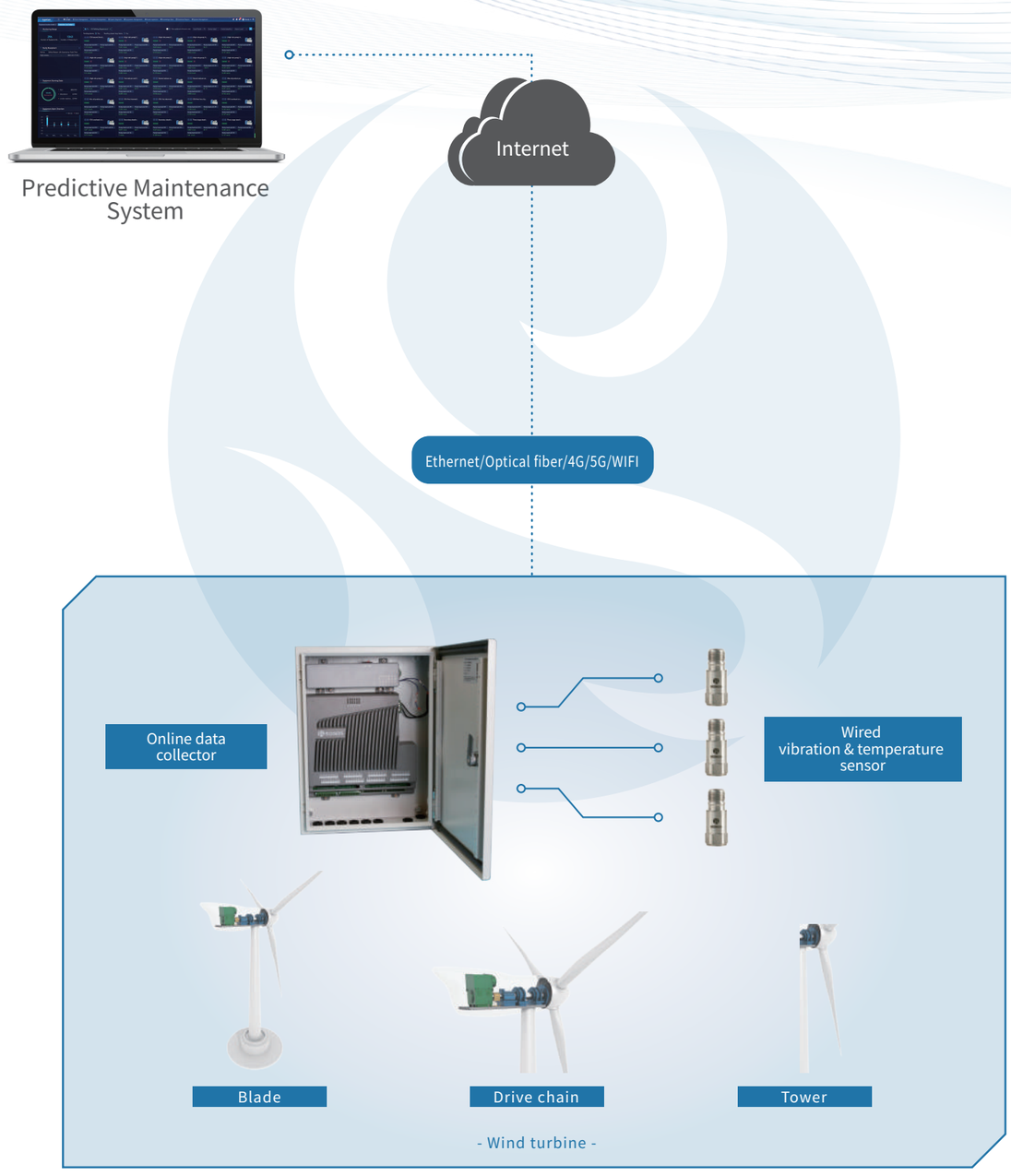
STEEL INDUSTRY APPLICATIONS



CEMENT INDUSTRY APPLICATIONS



WIND POWER INDUSTRY APPLICATIONS



MINING INDUSTRY APPLICATIONS

Predictive Maintenance System

Internet

SIS / DCS / TSI

Ethernet/Optical fiber/4G/5G/WIFI

Wireless gateway

ZIgbee

Wireless vibration & temperature sensors

Vibrating screen

Crusher

Belt conveyor

Centrifuge

- Class B equipment -

Ethernet/Optical fiber/4G/5G/WIFI

Wireless gateway

LoRa

Wireless sensors

Low power fan

Low power pump

- Class C equipment -

APPLICATIONS IN OTHER INDUSTRIES

Water Treatment

Automobile

Papermaking

RONDS

Food and Beverage

Port

Pharmacy

Rail Transit

COMPREHENSIVE SERVICE CAPABILITIES ENSURE EFFECTIVE APPLICATION

RONDS Remote Diagnostic Services

1. Ronds technology captures real-time data
2. AI+Expert 24/7 data analysis
3. Proactive maintenance with professional guidance
4. Post-maintenance verification
5. Continuous reliability improvement

World-Class Diagnostic Team

CAT IV Analysts: 6

CAT III Analysts: 24

CAT II Analysts: 41

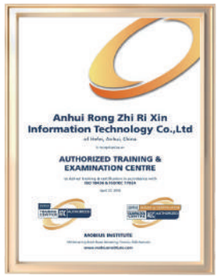
Providing diagnostic service since 2011

- 24/7 Expert Monitoring
- Equipment Monthly Health Report
- Post - Maintenance Evaluation
- Fault Diagnosis Report
- Expert Consultation Service

Diagnostic Talent Training Services

Since 2015, Ronds has partnered with **Mobius Institute** to provide training and certification services for international CAT II, CAT III, and CAT IV vibration analysts.

We have successfully trained **3,000+** engineers from client organizations.



Consultation Services for the Construction of Equipment Intelligent O&M System

Ronds Remote Diagnosis Center, certified by **Germanischer Lloyd** (GL), is known for its efficient and scientific approach to equipment operation and maintenance. We are capable to provide consulting services to assist clients establish standardized processes and management regulations.

Our expertise has successfully supported the development of **standard systems, diagnostic teams**, and O&M **management mechanisms** for many groups.

APPLIED VALUE

Avoid equipment accidents and reduce production safety risks

In December 2020, there was a change in the high-frequency acceleration at the free end of P-9133S in the third workshop of a petrochemical acrylonitrile plant. The RONDS diagnostic expert reviewed the results of the intelligent diagnosis of the system, issued a diagnostic report on the cause and degradation speed of the equipment bearing cage fault, and immediately contacted the on-site person in charge to suggest cutting the pump and inspecting the pump bearing.

Due to the extremely high processing efficiency, we helped this customer find a bearing failure case caused by seal leaks and ensure safety in production.

Improve production efficiency and reduce comprehensive maintenance cost

In August 2019, a H-beam cold saw failure case was found in advance in a large steel plant. This case helped this plant avoid a 4-hour downtime and reduced about US$365,000 in economic losses.

Optimize spare parts management and reduce capital occupation

In 2020, we helped a cement company establish their own intelligent operation and maintenance platform. The platform helped this company optimize spare parts management, reduced the failure rate of key equipment by 80%, and reduced spare parts consumption by 20% since 2020.

Improve equipment reliability and reduce unplanned downtime

Since 2017, we have established cooperation with a large steel company. The downtime of this company has decreased year by year, and realized ZERO accident operation in the past two years.