



Company Profile

**Ningbo Leadkin Instrument Complete Sets of Equipment Co.
Ltd.**



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Company Profile

ABOUT US

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Company Profile



Ningbo Leadkin Instrument and Complete Equipment Co. Ltd.

Our company engages in the manufacture, design, development, import and export of **instruments and control systems**. Our products are widely used in **domestic and foreign thermal power, nuclear power, aviation and aerospace, chemical industry, rail transit, shipbuilding and heavy equipment**. Our company owns the intellectual property rights to our proprietary core technology, the first pickling-free clean armored cable production line in China.

Our honors: Our company now holds dozens of patents in China. We have been recognized as a Ningbo Municipal Engineering Technology Center, an Enterprise with Standard Safe Production, a beneficiary of the Innovation Fund for Technology Based Firms under the Ministry of Science and Technology, a National High-Tech Enterprise, a winner of Ningbo Science and Technology Innovation Award, "First Unit/Set in China" in Ningbo Equipment Manufacturing Industry and "First Unit/Set in Zhejiang" in Ningbo Equipment Manufacturing Industry.

Our status in the industry: our company is a council member unit of Chinese Society of Power Engineering, a member unit of China Instrument and Control Society, a council member unit of Instrument Functional Materials Society of China Instrument and Control Society, a member unit of China Nuclear Society, and a qualified supplier for China National Nuclear Corporation, China Nuclear Power Engineering Co., Ltd. and China's five major electric power groups.

Our masterpieces: the world's first secondary reheating $2 \times 1000\text{MW}$ Ultra-Supercritical Generator Unit for Guodian Taizhou Power Plant and China's first $4 \times 1000\text{MW}$ Ultra-Supercritical Generator Unit for Huaneng Yuhuan Power Plant, CNNC Qinshan Nuclear Power Plant's Main Pump Seismic Thermal Resistor, Guangxi Fangchenggang Nuclear Power Plant Generator Units 3-4 LOT86 Boron Heating System, San'ao Nuclear Power Plant Generator Units 1~2 LOT86 Boron Heating System, CiADS Bulk Target Thermal Prototype Project, Longxiang Vacuum Chamber Connector (Nuclear Test Cable Assembly) Project, Nuclear Power Institute of China - Reactor Core Thermocouple Project, Shanghai Electric Nuclear Power Group & Tsinghua University-Intermediate Heat Exchanger Spiral Tube Bundle Thermal Test Piece Development (special thermal resistor), etc.

In the field of rail transit, CRRC locomotive turbocharger temperature measurement and control equipment replaces imported equipment.

Our company is positioned as a thermal control system solution provider. We combine instrument measurement with electrical control systems to realize industrial automatic control, providing customers with advanced, convenient and most competitive thermal control system solutions.

Expert in Thermal Control and Temperature Measurement

Milestones



Milestones in our development history

2009

Incorporation

2013

We built the first environmentally-friendly pickling-free clean armored cable production line in China and got the intellectual property rights to it.

2014

We registered the trademark LEADKIN® and developed a brand strategy

2015

We won the bid for the world's first secondary reheating project, Taizhou power plant thermal control project

2016

We became a National High-Tech Enterprise.

We won the bid for CGN Hualong No. 1 boron heating system – Fangchenggang Generator Units 3-4 Project and got the intellectual property rights to it.

2017

We won the honor of "First Unit/Set in China" in Ningbo Equipment Manufacturing Industry

2022

We successfully developed the MSIV/FLIV limit switch cable project and put it into operation, which solved the problem of supply cut-off by foreign countries.

We jointly developed the instrument control box components with China Nuclear Power Engineering Co., Ltd. The in-service nuclear power unit key core technology and equipment research project was accepted and met the project design requirements.

Advanced Energy Science and Technology Guangdong Laboratory - Shanghai Electric Nuclear Power Group
CiADS Bulk Target Thermal Prototype Project passed the acceptance test and met the requirements of the project design

2021

We won the bid for CGN Hualong No. 1 San'ao Nuclear Power Plant's boron heating system project

We won the honor of "First Unit/Set in Zhejiang" in Ningbo Equipment Manufacturing Industry

2020

We won the bid for the Longxiang Vacuum Chamber Connector (Nuclear Test Cable Assembly) Project

2019

We won the bid for the NPIC high temperature measuring device project

We won the bid for Datang Dongying Power Plant's the world's first six-bearing bushing temperature instrument project

2018

We won the bid for Fangchenggang Generator Units 3-4 TEG project

We won the bid for CNNC 404-509 subproject electric heating system project

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Achievements in the nuclear power sector

- Electric heaters
- Thermocouples
- Thermal resistors
- Heat tracing cables
- Panels, boxes, cabinets
- Control systems

Achievements in the thermal power sector

- Thermal resistors and thermocouples
Temperature measuring elements
- Instrument sets
- High-temperature and high-pressure
heat-shrinkable sleeves



Achievements in the petrochemical industry

- Multi-point thermocouples/thermal resistors
- Bimetallic thermometers
- Integrated temperature transmissions
- Temperature sensors

Achievements in other sectors

- Metallurgy, construction, steel,
pharmaceutical, military, automobile,
railway and other industries

Our team



- Professional
- Young
- Passionate
- Proactive

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Our Team

Staffing		
Total number of employees on the payroll	About 70	
Numbers of employees on specific posts	Management	8
	Technical personnel	10
	Production	40
	Sales	5
	Quality control	7
The proportion of technical and management personnel	26%	
Professional titles (number)	Professor	1
	Senior engineers	2
	Engineers	4
	Assistant engineers	7
	Technicians	38
Educational attainment	Doctoral degree	1
	Bachelor's/master's degrees	21

Corporate Culture

CORPORATE CULTURE

企业文化

Business philosophy

Action Principles

Service Tenets

Business Philosophy



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1

Positioning

An expert and innovator in system solutions

2

Slogan

Expert in Thermal Control and Temperature Measurement

3

Vision

A competitive first-choice international instrument brand

4

Mission

Export high-quality thermal control system solutions and services to the world, strive to create benefits for employees and realize their dreams, and assume social responsibilities and obligations in our development.

5

Our spirit

Hard work for business development, pragmatism for excellence, technological innovation, active service

6

Our tenets

Strengthen science and technology and continue to innovate, to provide customers with the most competitive thermal control system solutions.

Action Principles



Business Activities

1. We continuously develop and improve the quality and functionality of our products to meet customer needs and contribute to the development of society.
2. Based on the technologies we have, we make our technologies unique, striving to increase profitability, increase corporate value, and achieve efficient management.
3. We cultivate a corporate culture not afraid of challenge and failure, change ourselves continuously.
4. We communicate with various stakeholders and contribute to the development of society based on conscious management.

Legal Compliance

5. We comply with laws, regulations and social norms, compete fairly, transparently, freely and make appropriate transactions.
6. We reject anti-social forces that threaten the order and security of civil society.

Information Disclosure

7. We release company information timely and appropriately to ensure transparency, while comprehensively managing and protecting personal information, customer information and other information.

Respect for Employees

8. We respect the human rights, individuality and diversity of our employees.
9. We ensure a safe and comfortable work environment and maintain and enhance the vitality of our company through education and training.

Environmental Protection

10. We are aware that global environmental protection is one of the most important issues for mankind, so we actively protect the environment, reduce pollution emissions that affect the environment, improve production efficiency, and reduce energy consumption.

LEADKIN Service Tenets

We continuously strive to improve the quality and functionality of our products while improving the quality of our services.

Doing what our peers do is our obligation to fulfill the contract, and doing what our peers can't do is service.

Production Capacity

产能介绍

Competitive Products

New Products

Production Capacity

Realistic demands

A survival crisis for the traditional industry

Automate production control

Break the monopoly of foreign technology

Own proprietary intellectual property rights

Competitive Products



Inorganic mineral insulated cables



Armored electric heaters



Temperature sensors for nuclear power, JMRH, thermal power



Temperature, heating complete system control equipment



Armored electrical cables

Armored thermocouples, thermal resistors, electrical cables, armored heat tracing electrical cables, armored communication cables, etc.

Temperature sensors

Thermocouples, thermal resistors, local thermometer protective sleeves, etc.



Armored
electrical
cables

Electric
heaters

Tempera
ture
sensors

Complete
equipme
nt

Electric heaters

heating and ventilation electric heaters, armored heat tracing electrical cables, special heating rings for molds



Complete equipment

Panels, boxes, cabinets, control systems

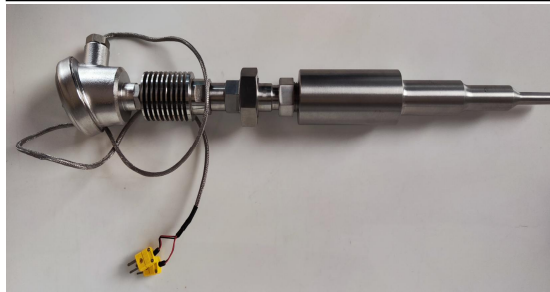


Products' Show

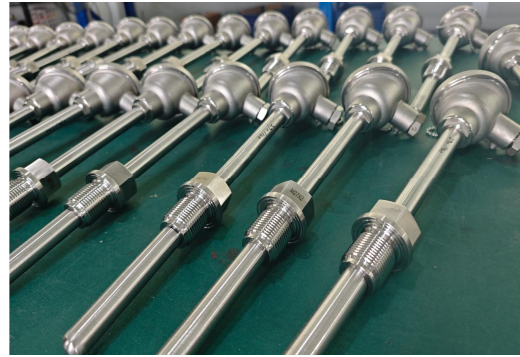
TC in Power station



Self-diagnostic composite temperature sensor



TC with ss304 head



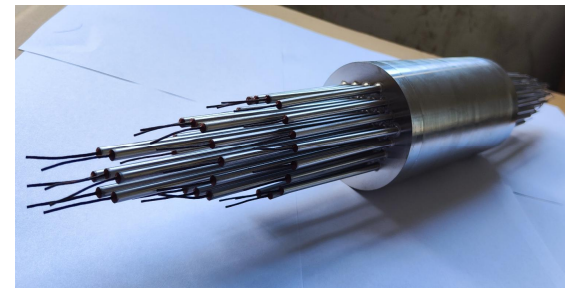
limit switch electrical cable



RTD with explosion-proof Type



Single core, two core -19-group penetration piece





Production Capacity -
armored drawn wire

Pickling-free clean armored electrical cables

Armored electrical cable drawing 8-
channel production lines

2

Maximum annual production

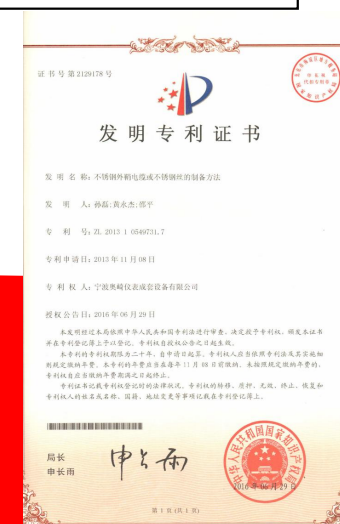
750,000 m/unit

Maximum daily production

4,300 m/day

The first in China, environment-friendly and pickling-free, 1 invention patent

Own proprietary intellectual property rights to the clean armored
electrical cable production lines.



Production Capacity - cutting lines

MI Electrical cable straightening and
cutting lines

2 lines **2,500 cables**/ 8h/line

Automatic two-end cutting machines

4 machines **1600 cables**/8h/machines

Automatic ultrasonic stripping machine

1 Machine **2,000 cables** /8h/machine

Manual ultrasonic stripping machine

2 machines **2,000 cables**/8h/machines

Automatic end burring CNC

5 machines **950 cables**/ 8h/machine

Automatic sand blasting machines

3 machines **2000 cables**/8h/machine

Hold 2 utility model patents

Own proprietary intellectual property rights to the
armored electrical cable cutting lines.



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Armored electrical cable
cutting production lines



Production Capacity -
Temperature sensors

Thermocouples

150,000 units/year

Thermal resistors

100,000 units/year

Local instruments

100,000 units/year

Panels /boxes/cabinets

5,000 sets/year

Hold dozens of invention patents and utility model patents

The patents cover products, product manufacturing processes, and product manufacturing equipment.

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Temperature sensor and panel
/box/cabinet production lines



Strengths

公司实力

Patent List

Supply Achievements

An Incomplete List of Patents

No.	Patent Number	Patent name	Type
1	ZL201510164066.9	A Self-Diagnostic Thermocouple	Invention patent
2	ZL201310549731.7	A Method of Stainless Steel Sheathed Cable or Stainless Steel Wire Preparation	Invention patent
3	ZL201610778917.3	A Seismic Temperature Measuring Device	Invention patent
4	ZL201620108960.4	A Nuclear Power Plant pipeline Heating Redundancy Control System	Utility model
5	ZL201620103398.6	A Nuclear Power Plant Chiller Pipeline Heating Control System	Utility model
6	ZL201520078403.8	An Armored Thermocouple Cable Resistant to Electromagnetic Radiation	Utility model
7	ZL201520078462.5	An Armored Thermocouple Cable Straightening, Winding, Blanking Machine电	Utility model
8	ZL201520206908.8	A Self-Diagnostic Thermocouple	Utility model
9	ZL201420032333.8	A Metal Wall Temperature Armored Thermocouple Measuring End Fixture	Utility model
10	ZL201420032811.5	A Bullet-Top Thermocouple with Two Protective Bushings	Utility model
11	ZL201420032332.3	A Thermocouple Junction Box	Utility model
12	ZL201420056103.5	A Penetration Piece Sealed Armored Cable Resistant to High Voltage	Utility model
13	ZL201621007897.1	A Seismic Temperature Measuring Device	Utility model
14	ZL201720093472.5	A Nuclear Power Plant Boron Heat-Tracing System Boron Acid Pipeline Thermocouple Heat Conductor Fixture	Utility model
15	ZL201921069268.5	A Nuclear Power Plant Chiller Pipeline Heating Control System	Utility model
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GEKON

mollart
ENGINEERING

AR
THERMOSENSORS

RDC
CONTROL

SMOLTEK

JUST CO.,LTD.

Customer	Equipment	Product
Guizhou Panjiang Xinguang 2×660,000 KW Coal-Fired Power Plant	2×660MW	● Temperature measuring element ● Four-pipe thermowell ● Pressure pipe socket ● Local terminal block
SDIC Qinzhou Power Plant Phase III 2x660MW Ultra-Supercritical	2×660MW	● Temperature measuring element ● Four-pipe thermowell ● Pressure pipe socket
(Shanghai Boiler Works Co., Ltd.) China Coal Xinji Lixin Banji Power Plant 2*660MW Ultra-Supercritical Coal-Fired Power Plant	2×660MW	● Temperature measuring element ● Four-pipe thermowell ● Pressure pipe socket
Mengtai Dongsheng Phase II 2×660MW Cogeneration Project	2×660MW	● Temperature measuring element ● Four-pipe thermowell ● Pressure pipe socket
CHN Energy Baoqing Power Generation Co., Ltd. Generator Units #1 & #2 Boiler Wall Temperature Measurement System Optimization	2×660MW	● Temperature measuring element,
Jining Phase II 2x660MW Coal-Fired Power Plant	2×660MW	● Temperature measuring element ● Four-pipe thermowell ● Pressure pipe socket
Inner Mongolia Energy Investment Group Co., Ltd. Jinshan Thermal Power plant 2×660,000KW Expansion Project	2×660MW	● Four-pipe thermowell ● Pipe socket ● Pressure pipe socket
Dongfang Boiler Control Jining Phase II 2x660MW Coal-Fired Power Plant	2×660MW	● Boiler wall temperature measuring element ● Thermowell
Harbin Boiler & Inner Mongolia Energy Investment Group Co., Ltd. Jinshan Thermal Power 2×660,000 KW Expansion Project	2×660MW	● Boiler wall temperature measuring element
Huaneng Shidongkou First Power Plant 2×650,000 KW Equal Capacity Coa-Fired Power Replacement Project	2×650MW	● Four-pipe thermowell ● Pipe socket

Expert in Thermal Control and Temperature Measurement

Customer	Equipment	Product
Zhejiang Energy Yueqing Power Plant Phase III 2×1000MW Ultra-Supercritical Generator Unit Project	2×1000MW	● Four-pipe thermowell ● Pipe socket
Guodian Shuangwei Power Plant New Project's 2×1000MW Air Cooling Ultra-Supercritical Generator Unit Project	2×1000MW	● Temperature measuring element ● Four-pipe thermowell ● Pressure pipe socket
Shenhua Fujian Luoyuan Bay Port Power Generation and Storage Integration Project's Power Plant	2*1000MW	● Boiler wall temperature measuring element ● Four-pipe thermowell ● Pressure pipe socket
Guodian Zhejiang Beilun First Power Generation Co., Ltd.	2*1000MW	● Boiler wall temperature measuring element
SHENERGY Anhui Pingshan Power Plant Phase II (1×1350MW) Project	1×1350MW	● Four-pipe thermowell
Northwest Electric Power Design Institute EPC Shaanxi Energy Zhaoshipan Coal-Power Integration Project's Leilongwan Power Plant (2x1000MW) Thermocouple Procurement	2*1000MW	● Boiler wall temperature measuring element ● Four-pipe thermowell
Shanghai Boiler Works Co., Ltd. Datang Dongying (2x1000MW) New Project Ultra-Supercritical Secondary Reheating Coal-Fired Generator Unit's Thermocouple Procurement	2*1000MW	● Boiler wall temperature measuring element ● Four-pipe thermowell ● Complete thermal control equipment
Shenhua Guohua Ningdong Power Plant	2×1000MW	● Air cooling system's thermal control instrument set ● Boiler wall temperature measuring element ● Pressure gauge ● Pressure transmitter ● Guided wave radar ● Gauge valve

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Achievements-Chemical Industry

Customer	Equipment	Product
Yunnan Tian'an Chemical Co., Ltd.	100kt/a(85%H ₃ PO ₄) Wet Phosphoric Acid Refining Project Phase II EPC	● Temperature instrument ● Integrated temperature instrument
Yunnan Tian'an Chemical Co., Ltd.	100kt/a(85%H ₃ PO ₄) Wet Phosphoric Acid Refining Project EPC	● Temperature instrument ● Integrated temperature instrument
Boda Oriental New Chemical (Jilin) Co., Ltd.	300kt/Year CO ₂ -Based Biodegradable Plastics Phase I 50kt /Year Project	● Temperature instrument ● Integrated temperature instrument
Ningbo Zhetie Jiangning Chemical Co., Ltd.	Expansion Project	● Instrument set
Zhejiang Tiansheng Chemical Fiber Co., Ltd.	Relocation Project	● Temperature instrument ● Pressure gauge
Ningbo Modern Fine Chemical Co., Ltd.	Phase II Expansion Project	● Temperature instrument , pressure gauge
Ganges River New Materials	Expansion Project	● Temperature instrument , pressure gauge
Zhejiang Wasion Crop Science and Technology Co., Ltd.	New Project	● Instrumentation, electrical equipment
Akzo Nobel Chemicals (Ningbo) Co., Ltd.	Overhaul in 2016	● Temperature instrument
Ningbo Zhetie Jiangning Chemical Co., Ltd.	Maleic Anhydride Project	● Instrument set
Inner Mongolia Dadi Yuntian Chemical Co., Ltd.	Phase I 300kt /Year Phosphoric Acid Project	● Temperature instrument ● Pressure gauge