



WORLD-CLASS MANUFACTURING
LIMITLESS APPLICATIONS

bibotech
PARTNERS

About NDL TEK

Driven by engineering excellence and backed by proven field performance, NDLTEK offers a full portfolio of precision-crafted stainless-steel tanks, large-scale brewery installations, and turnkey brewing systems. Whether optimizing an existing cellar or commissioning a new facility, our team ensures every project is executed with technical accuracy, operational efficiency, and long-term reliability.

Why Choose Us

Dual Factories & Advanced Equipment

Dezhou and Qingdao sites with modern machines for fast, flexible production.

30+ Patents & Ongoing R&D

Continuous innovation delivers efficient, tailored solutions.

Quality Assurance & Control

Precise inspection from material entry to production line. Strict standards. Precision results.

Offices In USA, UK, Canada & China

Local teams offer responsive service and project coordination worldwide.

Internationally Trained Technical Team

Engineers trained in Germany ensure precision and craftsmanship at every stage.

1,300+ Projects Worldwide

Proven global experience with full-service project support.



Manufacturing Strength

Two advanced factories manufacturing world-class equipment, delivering consistent quality for our products.



NDLTEK Qingdao Factory

36,000 m² with a team of more than 130 professionals, our Qingdao facility is dedicated to the advanced production.

NDLTEK Dezhou Factory

50,000 m² and staffed by over 200 employees, our Dezhou facility supports high-quality manufacturing.



State-of-the-Art Manufacturing Equipment

Automation. Accuracy. Excellence.

We utilize high-performance machines - from laser cutters and welding systems to polishing and rolling units - to deliver precision-crafted equipment with speed and reliability.



Auto Laser Cutting Machine for Plate

High-precision laser cutting for stainless steel plates, ensuring clean edges and consistent quality for large structural components.



Auto Laser Welding Machine

Automated gantry laser welding system delivering smooth, strong seams for heavy-duty brewing and beverage vessels.

Auto Laser Cutting Machine for Pipe

Advanced laser cutting technology designed for precise, efficient tube and pipe fabrication, supporting complex assembly needs.



Auto Rolling Machine

High-capacity rolling equipment for shaping stainless steel sheets into perfect cylinders, ensuring uniformity and strength.



Cutting-Edge Tools. Superior Results.



Auto Circular Seam Welding Machine

Specialized circular seam welding for reliable, leak-proof joints, critical for tank and pressure vessel production.



Auto Longitudinal Seam Welding Machine

Precision longitudinal seam welding system that guarantees flawless linear welds for large tanks and process vessels.

Auto Polishing Machine

Automated polishing system achieving sanitary-grade surface finishes, essential for brewery and food-grade applications.



Auto Laser Cutting Machine for Dish-Head

Dedicated laser cutting machine for dish-head fabrication, delivering high accuracy and smooth curves for tank heads.



Auto Cone Rolling Machine

Specialized cone rolling equipment for forming perfect conical shapes, ideal for fermenter bottoms and brewing vessels.



Auto Welding and Cutting Machine

Integrated automatic welding and cutting system designed to streamline fabrication, improve efficiency, and enhance precision.

Engineering Expertise

Delivering excellence through four essential pillars:

Technical expertise | Trusted partnerships | Academic innovation | Global experience



Built on Global Expertise

Professional Technical Team

At NDLTEK, engineering excellence starts with a global vision. Our core technical team received advanced training at Huppmann in Germany, equipping them with systematic theoretical knowledge and extensive project experience. Combining global best practices with a deep understanding of brewing and beverage production, we transform ideas into efficient, reliable solutions that serve leading breweries around the world.



Long-Term Brewery Partnerships

Decades of Trusted Collaboration

Even before the official founding of NDLTEK, our predecessor had been providing the design, manufacturing, installation, commissioning, and technical upgrading of complete large-scale brewhouse systems. We have built strong, lasting partnerships with world-leading companies delivering integrated system solutions that drive brewing excellence and innovation.

Strengthened by Academic Collaboration

Academic Partnerships

Through long-term collaboration with eight prominent brewing academies and universities, including Qilu University of Technology and ZW-Lab International Brewing Academy, NDLTEK continuously drives technological innovation and product advancement. These academic partnerships provide a strong foundation for research, development, and future growth in brewing and beverage engineering.



Proven Across 1,300+ Global Projects

Global Project Experience

With experience in over 1,300 projects across domestic and international markets, NDLTEK specializes in the design, manufacturing, installation, commissioning, and technical upgrading of complete production systems. Our projects cover a wide range, including 50-200L university pilot brewing systems, 100-5000L craft breweries and brewpubs, 50-100-ton saccharification workshops for large beer companies, 10-50-ton fruit wine fermentation systems, and 20-500-ton daily beverage production lines.



**World-Class Manufacturing.
Backed By NDLTEK.**

At NDLTEK, we transform world-class engineering into innovation design solutions. Backed by German-training and strong partnerships with global industry leaders in our field, NDLTEK has successfully completed over 1,300 installations worldwide.

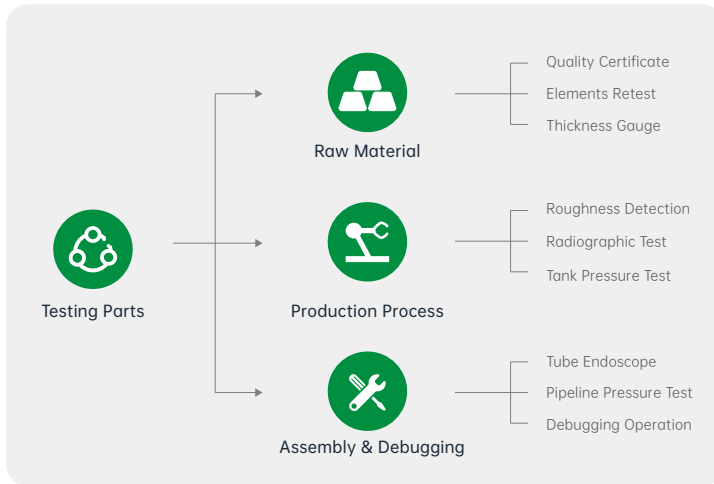
Quality Assurance & Control

Quality isn't just a checkpoint.

At NDLTEK, quality is a continuous commitment. We focus on two core pillars:

- > Quality Assurance ensures everything begins right, from raw material verification to specification checks.
- > Quality Control keeps each process on track through in-process inspections and final system validation.

Every part, every weld, and every test is documented and traceable, giving customers complete confidence in each system we deliver.



Advanced Inspection Equipment

We rely on advanced inspection tools to ensure every stage: from raw materials to final systems - meets technical and safety standards.



Certifications & Patents

At NDLTEK, excellence isn't just a promise - it's proven.

With international certifications, national honors, and dozens of technical patents, we showcase our unwavering commitment to quality, safety, and innovation at every stage of brewing system design and manufacturing.

International Certifications

Certified to CE, PED, ASME, and ISO standards, every system we deliver meets global safety, quality, and compliance standards.



ISO 9001

Quality Management



ISO 45001

Environmental Management



ISO 14001

Occupational Health & Safety



ASME

Certificate Of authorization

PED

PED (TÜV)

Pressure Equipment Compliance

SGS

SGS

Quality Management







Stainless Steel Tanks

Fermentation & Bright Tanks | Wine Tanks | Charmat Tanks

- NDLTEK specializes in the design, development, and manufacturing of stainless steel tanks.
- By integrating advanced domestic and international technologies with over a decade of experience in intelligent equipment manufacturing and customer service, we offer customized smart production line solutions tailored to client needs. Our products are known for their optimized design, excellent cost performance, superior durability, and reliable performance - earning consistent praise from customers.



Industries Served

 Scale Brewery	 Craft Beer	 Wine
 Chemical Tanks	 Beverage	 Dairy



NDLTEK's fermentation tanks, bright beer tanks, wine tanks, pressure tanks, and chemical tanks are widely used across the chemical, food, and pharmaceutical industries. We are a trusted supplier to leading companies both in China and abroad, with strong and growing market demand.

Fermentation & Bright Tanks

Precision - Engineered Vessels for Brewing and Beyond

NDLTEK fermentation and bright tanks are built to exacting standards - with TIG welding, sanitary polishing, and full traceability. Each tank is customizable for brewing and other applications including cider, wine, dairy, and olive oil.

Built To Industry-Leading Standards

- Minimum headspace: 25% for fermenters, 20% for brite tanks
- SUS304 interior & exterior shell-fully welded
- Dish head & cone bottom: SUS304, TIG-welded under argon shield
- Interior finish: sanitary 2B, pickled & passivated
- Fully polished interior: $\leq 0.8\mu\text{m}$ surface roughness
- High-density polyurethane insulation
- Glycol jacket with dimple plate (fermenters & sides)
- 60° cone bottom on fermenters; flat or dished on brite tanks
- 360° CIP spray ball with dedicated arm
- Pressure rated to 45 psi

Essential Features

- Dual gas valves:
 - Double-acting (under 100HL)
 - Pressure + anti-vacuum (above 100HL)
- Thermowell for high-precision sensors
- Carbonation stone port (optional on fermenters)
- SUS304 adjustable legs with leveling pads
- Sanitary sight tube and butterfly valves
- CO₂ blow-off arm with butterfly valve (fermenters)
- Rotating racking arm with cone port & butterfly valve (fermenters)

We Also Offer

- Custom single-wall serving tanks
- Horizontal lagering tanks
- Double-stacked tanks for limited spaces



Standard sizes from 50L to 1000HL

Larger capacities available upon request.

Wine Tanks

- › NDLTEK offers a full range of wine tanks from 10HL to 2,000HL, designed to meet the needs of wineries of all sizes.
- › Built with ultra-precise welding, full material traceability, and strict compliance with international hygiene standards.

Design Features

- Bottom structure options: inclined flat bottom or conical with legs
- Available in 3 configurations:
 - Single-layer
 - Single-layer with cooling jacket
 - Fully jacketed
- Cooling by jacket or internal coil (built-in)

Components

- Filter plate (optional)
- Top manhole & side manhole
- Breather valve
- CIP cleaning device
- Level gauge
- Sampling valve
- Thermometer
- Racking port
- Drain/muddy port



Charmat-Autoclave High Pressure (6-Bar) Tanks

Single-wall Tank Features

- Body Material: SUS 304 stainless steel
- Lid Material: SUS 316 stainless steel
- Design / Operating Pressure: 6 Bar
- Top and bottom elliptical heads for structural integrity and easy cleaning
- Top flange equipped with a safety valve
- Support legs with reinforcing braces
- Bottom outlet for product discharge
- Equipped with lifting lugs and ladder hooks
- All key process ports use round thread connections
- Fitted with:
 - Sampling valve
 - Breather valve
 - Pressure gauge
 - Armored thermometer
- Supplied with butterfly valves
- Compliant with PED & ASME



Dual-wall Tank Features

- Body Material: SUS 304 stainless steel
- Lid Material: SUS 316 stainless steel
- Design / Operating Pressure: 6 Bar
- Polyurethane insulation for stable temperature control
- Cooling jackets on both sidewall and bottom
- Top and bottom elliptical heads for structural strength and cleanability
- Support legs with reinforcing braces
- Equipped with lifting lugs and ladder hooks
- Hops addition port included
- Titanium stone for oxygenation
- CIP system with lockable spray ball
- CIP system with lockable spray ball
- All essential ports use round thread connections
- Fitted with:
 - Safety valve
 - Sampling valve
 - Breather valve
 - Pressure gauge
- Armored thermometer
- Side port reserved for optional agitator
- Supplied with butterfly valves
- Compliant with PED & ASME
- Agitator available as an option



Chemical Tanks

- › Corrosion-resistant, hygienic stainless-steel construction
- › Safe storage and transport for high-purity or hazardous liquids

High-Performance Chemical Tanks

NDLTEK Chemical Tanks are engineered for the safe, long-term storage and transport of electrolyte solutions and lithium salts used in battery production. Built with a robust, corrosion-resistant stainless steel structure, they feature hygienic design, easy cleaning, and stable performance under pressure.

Each tank can be equipped with temperature, pressure, liquid level, and GPS monitoring sensors for remote data transmission, as well as RFID tags for identification and intelligent management. Available in configurations for both electrolyte and high-purity chemical storage, these tanks are designed to meet the demanding requirements of industrial and battery manufacturing applications.

Electrolyte Tank

200L tank, 1000L standard tank, 1000L insulated tank; custom sizes available

- SUS 304 or SUS 316 stainless steel
- Automatic argon arc welding, 0.6 MPa pressure rating
- Seamless design, no residue
- PU insulation, leak-proof
- Ball valves and quick couplings
- Electrolyte-resistant inner wall, polished outer wall
- Corrosion, rust, and impact resistant



Lithium Salt Tank

112L, 716L, 1000L; custom sizes available.

- SUS 316L or SUS 304 stainless steel, corrosion and acid resistant
- Automatic argon arc welding, smooth seams, 0.6 MPa pressure rating
- Seamless interior, no residue retention
- Electro-polished interior, high surface cleanliness
- Mechanically polished exterior for long-term safety



SCALE SERIES

Professional Customization

- > Over 200 turnkey brewery systems installed - on-site, on time, and on budget. Proven expertise you can trust.
- > Backed by 15+ years of experience, our expert team delivers complete brewery solutions - from consulting and process design to equipment installation and site construction.

Brewery System Configurations Available

- Raw material processing
- Fully automatic brewhouse
- Mash tank drive stirring structure design
- Low residual sugar design of Lauter tank
- Low pressure wort boiling technology
- Heat recovery and vacuum evaporation
- Efficient gyratory precipitation structure
- Fully automatic wort oxygenation
- Fermentation
- Yeast propagation
- Integrated piping
- CIP
- Control system
- Utilities: water treatment system, heating system, refrigeration system, air compression system, deoxygenated water system, carbon dioxide recovery system, filtration system



5HL - 1000HL

4-6 Vessel Fully Automated Brewhouse Systems

Brewhouse Configurations Available

- 4 Vessel-Mash Mixer, Lauter Tun, Brew Kettle and Whirlpool
- 5 Vessel-Mash Mixer, Lauter Tun, Intermediate Wort Tank, Brew Kettle and Whirlpool
- 6 Vessel-Cooker, Mash Mixer, Lauter Tun, Intermediate Wort Tank, Brew Kettle and Whirlpool

Automation & Control

- › NDLTEK offers scalable control systems covering milling, brewhouse, fermentation, brite tanks, filtration, CIP, refrigeration, and more.
- › Systems range from manual push-button to fully automated solutions with recipe programming and remote control capabilities.



Key Control Features

Milling System

- Metering of raw material feed and discharge
- Malt crushing
- Post-crushing conveyor

Other Systems

- CIP systems, refrigeration, and yeast propagation modules are also available.

Fermentation System

- Temperature control can be handled manually or via automated preset curves, adjusting for temperature, pressure, timing, and other key fermentation metrics.

Brewhouse

- Mashing (optional auto-mashing with recipe storage & editing)
- Lautering (optional constant flow filter, grain draining & conveying)
- Boiling (optional internal boiling & heating)
- Whirlpool (optional wort acidification)
- Wort cooling (optional auto cooling)
- Water supply (optional constant-pressure)
- Manual or automatic valve control available

Remote Fully Automatic Control

- Our remote control platform integrates:
 - On-site data collection
 - Real-time & historical trend tracking
 - Algorithm-based execution
 - Safety & alarm protocols
 - Animation display, report generation, and remote diagnostics



Signature SERIES

Turnkey Brewing Systems



- › NDLTEK's signature series brewhouses offer unrivaled quality and value in today's competitive brewing arena.
- › Signature series ranges from 50L to 30HL.

From heating and cooling to pumps, valves, pipework, and controls - NDLTEK's Signature Series brewhouses offer a true turnkey solution. Each system is tailored to your layout, brewing goals, and operational needs.

We guide you from concept to first pour — including layout planning, 2D/3D drawings, equipment selection, on-site installation, and commissioning. Whether you're brewing for R&D or production, we help you craft better beer, batch after batch.

Optional accessories like CIP carts, keg cleaners/fillers, kegs, and lab equipment are available to complete your brewery setup.

The Signature Series Advantage

- Manual push-button control or a semi-automatic system customized to your requirements
- The tanks are all laser cut and welded together using automatic welding machines
- Steam heating, electric heating, direct fire (gas) heating are available to choose from
- Equipped with agitator & rake
- Easy to clean and detachable sparging nozzle
- Suction filtration by VFD controlled pump
- 360° coverage CIP spray ball
- Designed with a backwash feature & multi wort collection ports
- Wiring in control panels can be customized to CE/UL/CSA standards
- Work platform with non-slip flooring
- Equipped with heat exchanger, hop filter & oxygenation device

Brewhouse Configurations Available

- 2 Vessel (Mash/Lauter + Kettle/whirlpool)
- 2 Vessel (Mash/Kettle/whirlpool + Lauter)
- 3 Vessel (Mash/Kettle + Lauter + Kettle/whirlpool)
- 3 Vessel (Mash/Lauter + Kettle + Whirlpool)
- 4 Vessel (Mash + Lauter + Kettle + Whirlpool)
- Custom configurations available



50L - 30HL

Manual or
Semi-Automated System



Our Mission

NDLTEK is dedicated to differentiating ourselves ahead of the competition by becoming the most trusted strategic partner to provide seamless support and lasting value for the companies we serve.

Our Vision

To become the first choice of our global customers in the supply of stainless steel vessels, serving a wide array of industries including fully automated brewing systems, wine, dairy and chemical products by providing world-class manufacturing coupled with engineering excellence and innovative design solutions.

Our Capabilities



Global Consultation

24/7 expert consultation to assess your project and craft tailored solutions.



Custom Engineering & Design

Tailored designs from experienced engineers to match your production goals.



On-Site Installation

Professional teams ensure seamless installation and setup.



System Commissioning & Testing

Thorough testing and calibration for guaranteed performance.



Technical Training

Hands-on guidance for smooth operation, maintenance, and troubleshooting.



Ongoing Support & Spare Parts

Quick technical support and reliable spare parts to keep systems running.

What We Provide

From the design of your system through to installation, we deliver world-class manufacturing to realize your vision.

Built with expertise. Backed by service. World-wide seamless support.



BREWERY DESIGN,
SUPPLY & INSTALLATION



COMPLETE RANGE OF
STAINLESS STEEL TANKS



PACKAGING &
PROCESS EQUIPMENT



AUTOMATION
HARDWARE & SOFTWARE



CONSULTING &
TECHNICAL SERVICES



From craft to industrial, NDLTEK delivers tailored solutions with reliable service and engineering excellence.

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