

NDI CRAFT

Quality built to brew your craft.



BREWERY
DESIGN,
SUPPLY &
INSTALLATION

COMPLETE
RANGE OF
STAINLESS
STEEL TANKS

PACKAGING
& PROCESS
EQUIPMENT

AUTOMATION
HARDWARE &
SOFTWARE

CONSULTING
& TECHNICAL
SERVICES

ndlcraft.com

THE NDL CRAFT ADVANTAGE

QUALITY
CONTROL



AUTOMATED
PRODUCTION
TECHNIQUES



GLOBAL
STRATEGIC
COOPERATION



TECHNICAL
SALES
SUPPORT



Quality built to brew your craft

NDL Craft is your complete source for quality-built brewing equipment.

As one of the most established equipment manufacturers in China, NDL Craft is your preferred partner for high quality brewhouses, cellar tanks, and ancillary equipment supplied at some of the industry's most competitive prices. From small pilot brewing systems to major brewery expansions, we have the design expertise and know-how to deliver what you need.

COMPANY PROFILE.

- > NDL Craft was founded in 2011 in Jinan, China
- > We attach great importance to the research and development of our core technology
- > Our designs are in accordance to the CE PED standards and TUV design codes, with production and quality control methods according to global standards
- > Recognized at a national-level as a scientific and technological innovation enterprise with more than 15 patented technologies granted in China
- > 3 subsidiaries are based abroad, located in the United States, United Kingdom and Canada that include technical sales and operation teams
- > Our factory deploys a series of advanced production and testing equipment such as laser cutting, automatic welding, automatic mechanical polishing, CNC pipe bending, spectrometer, X-ray detector among other critical pieces of equipment
- > We own and operate our factory in China, managed by a highly qualified team. This modern production facility has more than 31,000 square meters of production capacity with room to grow
- > Equipment is constructed according to American and European technical standards



Quality Assured

With knowledgeable sales and customer support staff, NDL Craft works hard to ensure every project exceeds your expectations and meets your brewing requirements. Budgets and production timelines actually mean something to us. We recognize that every brewery is unique and we consult with our clients during the purchasing process to identify the ideal size, configuration and fittings for your new equipment. After installation, we'll work with your team to commission your brewing equipment, allowing you to effortlessly produce a consistent taste and yield with every batch.

DELIVERED ON TIME & ON BUDGET.

We know that purchasing new brewing equipment can be a costly and complex process. At NDL Craft, our dedication to excellence is not just in manufacturing. We pride ourselves on our ability to deliver equipment on time and within budget. Our project management team communicates the status of your project on a weekly basis with actual images of your equipment in the manufacturing pipeline. NDL Craft is a name you can trust.



INTERNATIONALLY RECOGNIZED CERTIFICATIONS.

We have established an ERP management system and have passed quality audits for internationally recognized certifications.

ISO 9001

Quality Management System Certification

ISO 14001

Environmental Management System Certification

ISO 45001

Occupational Health & Safety Certification

CE

Certification of Compliance

PED (TUV)

Certification of Compliance
Certification of Conformity

SGS

Gold Plus Supplier Assessment Certificate



LASER CUTTING



AUTOMATIC SEAM WELDING



CNC SANITARY PIPE BENDING



Signature SERIES

Turnkey Brewing Systems

NDL Craft's Signature Series brewhouses offer unrivaled quality and value in today's competitive brewing arena.

Signature Series ranges from 50L to 50hL.

As with all the brewing vessels and tanks, NDL Craft will provide you with a detailed brewery layout and includes all heating, refrigeration, pumps, valves, pipe-work and controls. A genuine turnkey solution.

With each project we undertake, our experienced team will be there for you every step of the way. From design, layouts, drawings and manufacturing, to installation, and commissioning at your site. Our ultimate goal is to help you produce great quality beer from inception to brewing that first perfect glass of ale.

We can also provide additional infrastructure such as CIP carts, keg cleaners & fillers, kegs as well as recommendations on a full range of laboratory equipment to complete your brewery set-up.

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



MASTER SERIES

Ranging in size from 20hL to 200hL, featuring conical top spherical design on the brewing vessels, the Master Series combines years of brewing expertise and experience with precision manufacturing techniques.



THE MASTER SERIES ADVANTAGE:

- > Fully automated solutions customized to your requirements
- > The tanks are all laser cut and welded together using automatic welding machines
- > Recirculation/run-off is controlled via flow meter/VFD and level indicators above/below the false bottom not via a wort grant
- > 3 x IFM flow meters are included on mash/sparge water, recirculation/run-off and wort transfer to fermentation
- > Push button auto-fill/shut-off on HLT & CLT

- > PT100 temperature sensor on wort post the heat exchanger to allow control of wort transfer on brew deck
- > Wiring in control panels can be customized to CE/UL/CSA standards
- > External tube heat exchanger on whirlpool to reduce the temperature prior to late hop addition without blocking a standard heat exchanger (optional extra)
- > Over-sized pumps on brewhouse to keep shear down to a minimum
- > External heat exchangers on HLT & CLT to speed up heating and cooling

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

Fermentation Tanks and Bright Tanks

NDL Craft offers fermentation tanks and bright tanks with ultra-precise welding and polishing, complete traceability, and validated material quality to meet all international safety standards. Our tanks can be customized for uses in other beverages and liquids including cider, dairy, olive oil and wine.



ALL OUR FERMENTATION AND BRIGHT TANKS ARE BUILT TO THE FOLLOWING SPECIFICATIONS:

- > Headspace minimums; 25% fermenters; 20% brite tanks
- > Interior Shell: SUS304 fully welded
- > Exterior Shell: SUS304 fully welded
- > Dish Head & Inner Cone SUS304 fully welded
- > 100% TIG Welding with pure argon gas shield
- > Interior finish: sanitary 2B finish, pickled and passivated
- > Interior fully polished to a consistent $\leq 0.8\mu\text{m}$
- > Insulated with high density polyurethane foam
- > Glycol jacket: dimpled plate on cone (fermenter and sides)
- > Dished head and 60-degree cone bottom on fermenters
- > Dished head and bottom on bright tanks
- > CIP arm with 360° coverage spraying ball
- > Pressure tested at 45psi

- > Double-acting gas vent valve (below 100HL)
- > Pressure and anti-vacuum valve (above 100HL)
- > Thermowell for high accuracy temperature sensor
- > TC carbonation port with stone (optional on fermenters)
- > SUS304 heavy duty legs with levelling pad and leg supports
- > Sanitary level tube and butterfly valves
- > CO2 blow-off arm with butterfly valve (fermenters)
- > Rotating racking arm and port on cone with butterfly valve (fermenters)

We can also offer custom tanks including single wall serving tanks, horizontal lagering tanks and double stacked tanks for brewery locations that have space constraints.

Our standard size ranges from 50L to 1000HL, with capabilities of manufacturing larger sizes if required.

Wine Tanks

NDL Craft offers a full range of sizes from 10hL to 2,000hL to meet the needs of wine makers. As with our other tanks, we manufacture our wine tanks with ultra-precise welding and polishing, complete traceability, validated material quality and all international sanitary standards.

DESIGN FEATURES:

- > The bottom adopts inclined flat bottom structure or cone bottom with legs
- > Three designs are available: Single-layer tank, Single-layer with cooling jacket, Jacketed tank
- > Jacket cooling or built-in coil cooling

COMPONENTS:

- > Filter plate (optional)
- > Top manhole & Side manhole
- > Breathing device
- > Cleaning device
- > Level gauge
- > Sample valve
- > Thermometer
- > Sake port
- > Muddy port



Stainless Steel Tanks

Aside from offering our standard and custom fermentation and brite tanks, NDL Craft manufacturers custom fabricated and designed tanks for a wide array of industries.

The uses for our stainless steel tanks are close to limitless. There are so many applications found in almost every industry in some form or another. We can custom fabricate to your design or provide a solution for storage tanks, process tanks, hot and cold liquor tanks to name a few. NDL tanks are manufactured to the highest quality standards and backed by our 5-year warranty.

We ship our tanks world-wide to support many uses within such industries as;

- > Spirits
- > Dairy
- > Olive oil
- > Cider
- > Cold-brew coffee
- > Chemicals

Ask one of our global team members about how we can meet and exceed your requirements.



Automation and Control

NDL Craft's control system will provide control solutions for your brewery that includes milling, brewhouse, fermentation, brite, filtration, CIP, refrigeration and other control systems. Our base system uses a manual push-button control or upgrade to a semi-automatics system. For a premium solution, we offer a customized fully automatic system with recipe control.

KEY CONTROL FEATURES:

Milling System:

- > Metering of raw material feed
- > Metering of raw material discharge
- > Malt Crushing Module
- > Conveyor module after crushing

Brewhouse:

- > Mashing (Optional: automatic mashing module; recipe editing, storage and recall)
- > Lautering (Optional: constant flow filter, automatic draining and conveying module of spent grains)
- > Boiling (Optional: automatic boiling and internal heating module)
- > Whirlpool (Optional: Wort acidification module)
- > Wort Cooling (Optional: automatic wort cooling module)
- > Water Supply (Optional: Constant pressure water supply module)
- > Manual valve or automatic valve control are available

Fermentation System:

The temperature of the fermentation process can be controlled manually as well as automatically for preset fermentation process curves, real-time curves in order to meet different process requirements such as display, control temperature, pressure, values and other parameters.

Other Systems:

CIP system, refrigeration, yeast propagation among others.

REMOTE FULLY AUTOMATIC CONTROL.

The remote automatic control integrates on-site data collection, algorithm execution, real-time data and historical data processing, alarm and safety mechanisms, process control, animation display, trend curve and report output, and monitoring network functions.



Kegs and Casks

NDL Keg offers the ultimate range of precision-engineered kegs & casks.

NDL Keg works with more than 1,000 breweries and beverage companies throughout the world. Offering high-quality stainless-steel kegs and casks, NDL back up their quality claims with a 10-year warranty for every container. Whether you're a micro-brewery or a large, established brand, we can cater to your unique keg and cask needs.

QUALITY ASSURED.

All containers must pass rigorous pressure and strength testing to ensure quality and reliability. Every unit is manufactured from AISI 304 Grade Stainless Steel and our containers meet all international testing standards. Material tracking batch codes are also lasered on every container to identify and trace manufacturing information.

THE NDL KEG AND CASK ADVANTAGE:

- > 10 year warranty
- > Customization options
- > DIN & Euro kegs
- > US Standard kegs
- > Stacking & non-stacking kegs
- > Industry standard spears
- > Pin & firkin casks
- > Precision engineered shives and keystone
- > Deburred, comfortable hand holes



KEG AND CASK RANGE.

	50L Euro	30L DIN	20L Slim	10L Slim	4.5G Pin	9G Firkin	18G Cask	1/6 BBL	1/4 BBL	1/2 BBL
Volume	50.40 L	30.30 L	19.80 L	10.00 L	20.46 L	40.90 L	15.70 L	5.20 gal	7.75 gal	15.50 gal
Height	532 mm	400 mm	598 mm	301 mm	390 mm	484 mm	612 mm	600 mm	600 mm	600 mm
Diameter	408 mm	381 mm	228 mm	228 mm	305 mm	385 mm	505 mm	233 mm	284 mm	395 mm
Weight	11.8 Kg	9.8 Kg	5.71 Kg	3.5 Kg	6.03 Kg	10.1 Kg	15.7 Kg	12.3 lbs	15.4 lbs	28.7 lbs

Keg Cleaners and Fillers

Clean and fill your kegs easily and cost-effectively with NDL's keg cleaning and filling equipment.

The range of NDL Keg Cleaners and Fillers offer excellent value and reliability. The keg cleaners are available in manual and semi-automatic versions offering both steam and electric heating options. Suitable for small to medium scale production facilities, these machines are capable of processing 40 to 60 kegs per hour.

The semi-automatic machines are fully programmable. Using a simple to operate PLC. The machine consists of a control screen, compressed air pipeline, CO2 pipeline, cleaning pipeline, as well as an angle seat valve, water tank, steam pipes, water pump, cylinder, flanges and adapters.

KEY FEATURES:

- > Semi-Automatic & manual models available
- > Clean and fill up to 40-60 kegs per hour
- > Durable construction & compact design
- > Compatible with all US, EURO & DIN kegs
- > Siemens touch-screen PLC
- > Adjustable cycle times & temperatures



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