

TrueGlow Imaging Product Catalogue

122 products across 33 categories and 7 groups

Food and beverage processing machinery, material handling and cranes, precision machined and fabricated parts, industrial seals and moulded rubber and plastic, transformer conductor materials, and dental imaging equipment.

Dairy and Liquid Processing

Dairy Processing Machinery	24 products	Tanks, separation, heat treatment and filling for every stage between the milking parlour and the pallet.
Plate Pasteurizers	2 products	HTST and yogurt thermal profiles on complete skids with pumps, hot water set, balance tank and PLC control.
Retorts and Tunnel Sterilizers	2 products	Sterilising and pasteurising product after it is already sealed in its pack.
Sanitary Pumps	2 products	Product transfer and CIP return duties in SUS304 or SUS316L from 1000 to 30,000 L/H.
Stainless Steel Tanks	2 products	Extraction and fermentation vessels built in SUS304 or SUS316L with the jacket, agitator and instrumentation the process needs.
Tubular UHT Sterilizers	2 products	Continuous UHT for thin liquids at 137 degrees C and for viscous products at 95 to 121 degrees C.
Beer Brewing Equipment	1 products	Bright beer tanks from 1 to 200 BBL for maturing carbonating and serving.
Crate Washing Machines	1 products	150 to 1200 crates per hour in SUS304 with steam electrical or hot water heating.
Evaporators and Concentrators	1 products	Removing water under vacuum before drying, at a fraction of the cost of drying it out.

Fruit Beverage and Packaging

Fruit Processing Machines	8 products	Intake to aseptic bag: washing, sorting, destoning, pulping, pressing, drying and filling.
Packaging Machines	6 products	Labelling, sleeving, wrapping, cartoning, palletizing and depalletizing at line speed.

Cranes and Material Handling

Overhead Cranes	12 products	10 to 200 tons on double beam bridges spanning up to 49 metres, in light and winch builds.
Jib Cranes	6 products	Local lifting from 250 kg to 20 tons, in wall, column, pillar, mast, portable and davit mountings.
Gantry and Mobile Cranes	1 products	Lifting capacity up to 300 tons that travels between sites without disassembly.
Hoists And Lifting Gear	1 products	Electric to 50 tons, pneumatic to 25 tons, manual to 5 tons, plus explosion-proof builds.

Precision Machining and Fabrication

CNC Machining Parts	5 products	Wire EDM, grinding, drilling and mill component manufacture to your drawing.
CNC Fasteners	4 products	Bolts nuts and screws machined when no catalogue part fits the joint.
Metal Stamping Parts	4 products	Punching, deep drawing, bending and perforating in aluminium brass and stainless steel.
Sheet Metal Fabrication	3 products	Cutting bending welding assembly and coating under one roof, from prototype to production.
CNC Milled Components	1 products	Complex geometry made repeatable, with no tooling cost from the first part.
CNC Turned Components	1 products	Shafts bushings connectors and pins in aluminium brass and stainless steel.

Rubber Seals and Plastics

Rubber Seals and O-Rings	9 products	NBR HNBR EPDM FKM and FFKM, plus Y seals and the full AS568 size range.
Rubber and Plastic Products	9 products	Custom moulded rubber and plastic parts with in-house mould design and manufacture.

Power and Electrical Materials

Plant Utility Equipment	4 products	Boilers, cooling towers, air compressors and chillers sized to the process they serve.
Copper Foil and Strip	2 products	C1100 oxygen-free electrolytic copper at 99% IACS for transformer windings.
Power Tools And Custom Tooling	2 products	Catalogue tools and custom-designed power tools from a team with 15 years in the industry.
Aluminium Foil and Strip	1 products	1050 1060 and 1070 alloys at 63% IACS for lighter transformer windings.
Enamelled Wire	1 products	Magnet wire in copper or aluminium with enamel or polyurethane insulation.
Silicon Steel	1 products	Cold rolled electrical steel under 2 mm in grain oriented and non-oriented grades.

Dental and Imaging Equipment

CBCT Imaging Systems	1 products	Four-in-one CBCT panoramic cephalometric and model scanning with a 3 year warranty.
Dental Chairs	1 products	Complete treatment units with a noiseless 24V motor and 9 memory positions.
Dental Microscopes	1 products	3.6X to 23X zoom with 4K recording and illumination above 80,000 lux.
Dental Milling Machines	1 products	Five-axis milling of zirconia wax PMMA and PEEK at 30,000 RPM.

Dairy Processing Machinery

Tanks, separation, heat treatment and filling for every stage between the milking parlour and the pallet.

Stainless Steel Storage Tank

HTK-CCG-01 · Food sanitary grade

A food sanitary grade stainless steel storage tank from 500 L to 100,000 L in SUS304 or SUS316L, used to store dairy products, fruit juice and drinks. The same design covers milk storage, pasteurised milk, UHT milk and sterilised milk tanks, chocolate storage, vegetable oil, non-dairy creamer, apple, pear, orange, coconut milk and mango juice tanks, and water storage.

Specification

Product Model	HTK-CCG-01
Product Volume	500 L to 100,000 L, customised
Material	SUS304 / SUS316L
Grade	Food sanitary grade
Dairy Applications	Milk, pasteurised milk, UHT milk, sterilised milk
Juice Applications	Apple, pear, orange, mango juice, coconut milk
Other Applications	Chocolate, vegetable oil, non-dairy creamer, water
Minimum Order	One unit
Production Capacity	100 units per month

Large Outdoor Milk Storage Silo

HTK-NC-01 · SUS304 / SUS316L

A large outdoor milk storage silo from 15,000 L to 120,000 L in SUS304 or SUS316L, built as a three layer tank with insulation and jacket. The inner shell is 3 to 4 mm, the outer cladding 2 mm and the cooling jacket 1.5 mm. It is supplied with product inlet and outlet, manway, side agitator, PT100 thermometer, air ventilation cap, aseptic sample valve, CIP cleaning ball, cooling inlet and outlet and level instrumentation.

Specification

Product Model	HTK-NC-01
Product Volume	15,000 L to 120,000 L, customised
Material	SUS304 / SUS316L
Inner Shell	3-4 mm
Outer Cladding	2 mm
Cooling Jacket	1.5 mm
Structure	Three layer tank with insulation and jacket
Agitation	Side agitator
Instrumentation	PT100 thermometer, level sensors
Sampling	Aseptic sample valve
Cleaning	CIP cleaning ball
Minimum Order	One unit
Production Capacity	50 units per month

Blending Tank

HTK-JBG-01 · SUS304 / SUS316L

A mixing and blending tank from 500 L to 30,000 L in SUS304 or SUS316L, built as a vertical single layer, double layer PU insulated or three layer dimple jacket tank. Six agitator types are available: paddle, anchor, propeller, frame, side and eccentric. It is used as a flavour milk mixing tank, UHT milk mixing tank, fruit juice blending tank, beverage blending tank and juice mixing tank.

Specification

Product Model	HTK-JBG-01
Product Volume	500 L to 30,000 L, customised
Material	SUS304 / SUS316L
Structures	Vertical single layer; double layer PU insulated; three layer dimple jacket
Agitator Types	Paddle, anchor, propeller, frame, side, eccentric
Applications	Flavour milk, UHT milk, fruit juice, beverage and juice blending
Minimum Order	One unit
Production Capacity	100 units per month

Milk Cooling Tank

HTK-LQG-01 · SUS304 / SUS316L

A milk cooling tank from 1000 L to 10,000 L in SUS304 or SUS316L, insulated with a dimple pad on the tank wall, used to cool and store fresh milk at dairy farms, milk collection centres and dairy plants. Cooling milk quickly is what keeps bacterial growth in check between milking and processing. The refrigeration uses imported brand compressor, expanding valve and electromagnetic valve.

Specification

Product Model	HTK-LQG-01
Product Volume	1000 L to 10,000 L, customised
Material	SUS304 / SUS316L
Structure	Insulated with dimple pad on tank wall
Refrigeration	Imported brand compressor, expanding valve, electromagnetic valve
Purpose	Cooling and storing fresh milk to prevent bacterial growth
Minimum Order	One unit
Production Capacity	100 units per month

Milk Transport Tank

HTK-YNG-01 · SUS304 / SUS316L

A double layer insulated milk transport tank from 1000 L to 10,000 L in SUS304 or SUS316L, mounted on a truck to move fresh milk from farms and collection points to the processing factory. It is supplied with product inlet and outlet, manway, CIP cleaning ball, clapboard, aseptic breath cap, lifting ears, ellipse cover and support saddle.

Specification

Product Model	HTK-YNG-01
Product Volume	1000 L to 10,000 L, customised
Material	SUS304 / SUS316L
Structure	Double layer insulation tank
Internal Fittings	Clapboard, CIP cleaning ball
Venting	Aseptic breath cap
Mounting	Support saddle, lifting ear
Access	Manway, ellipse cover
Minimum Order	One unit
Production Capacity	100 units per month

Milk Weighing Tank

HTK-BNC-01 · SUS304 / SUS316L

A milk weighing tank from 300 L to 1500 L in SUS304 or SUS316L, used on farms and at collection points to weigh fresh milk before it is transported to the processing plant. It is built to food hygienic standard with a simple, no-dead-corner structure that is straightforward to clean between loads.

Specification

Product Model	HTK-BNC-01
Product Volume	300 L to 1500 L, customised
Material	SUS304 / SUS316L
Function	Weighing fresh milk before onward transport
Construction	Simple structure, no dead corner, food hygienic standard
Minimum Order	One unit
Production Capacity	100 units per month

Milk Receiving Tank

HTK-SNC-01 · SUS304 / SUS316L

A milk receiving tank from 300 L to 1500 L in SUS304 or SUS316L, used to receive and collect fresh milk from the farm before it moves to the processing plant. It is built strictly to food hygienic standard with a simple structure and no dead corners, so it can be cleaned quickly between collections.

Specification

Product Model	HTK-SNC-01
Product Volume	300 L to 1500 L, customised
Material	SUS304 / SUS316L
Function	Receiving and collecting fresh milk from the farm
Construction	Simple structure, no dead corner, food hygienic standard
Minimum Order	One unit
Production Capacity	100 units per month

Separator

HTK-FLJ-01 · SUS304 / SUS316L

A centrifugal separator handling 1000 L/H to 30,000 L/H in SUS304 or SUS316L, used for dairy purification, milk and fat separation, and for fruit juice, tea drinks, coffee and beer. It separates solid particles finer than 1 micron that are highly dispersed in suspension from the liquid phase, without destroying the active ingredients, so nutritional value, freshness and original aroma remain intact. Inlet pressure is 0.05 to 0.1 MPa, outlet pressure 0.1 to 0.4 MPa, and motor power 4 kW to 30 kW.

Specification

Product Model	HTK-FLJ-01
Working Capacity	1000 L/H to 30,000 L/H, customised
Material	SUS304 / SUS316L
Separation Limit	Solid particles below 1 micron
Inlet Pressure	0.05 MPa - 0.1 MPa
Outlet Pressure	0.1 MPa - 0.4 MPa
Motor Power	4 kW - 30 kW
Applications	Dairy purification, milk and fat separation, fruit juice, tea drinks, coffee, beer
Minimum Order	One unit
Production Capacity	50 units per month

Degasser

HTK-TQJ-01 · SUS304 / SUS316L

A vacuum degasser handling 1000 L/H to 15,000 L/H in SUS304 or SUS316L, using a vacuum system to remove odour and dissolved oxygen from milk and fruit juice beverages. Full-auto, semi-auto and manual control are all available, and motor power runs from 5.5 kW to 20 kW.

Specification

Product Model	HTK-TQJ-01
Working Capacity	1000 L/H to 15,000 L/H, customised
Material	SUS304 / SUS316L
Method	Vacuum system
Removes	Smell and oxygen from milk and fruit juice beverages
Control	Full-auto, semi-auto or manual
Power	5.5 kW - 20 kW
Minimum Order	One unit
Production Capacity	100 units per month

Spray Dryer

HTK-GZT-01 · SUS304 mirror plate

A spray dryer handling 1000 L/H to 30,000 L/H in SUS304, used to produce milk powder and fruit juice powder. Product recovery is no less than 97% and finished particle size is 80 to 120 mesh. The inner cylinder of the spray tower is SUS304 mirror plate no less than 2.5 mm thick, the tower body is insulated, and the outside carries a stainless steel platform, stairs and railings. Product contact surfaces are mirror polished to Ra 0.8 micron or better.

Specification

Product Model	HTK-GZT-01
Working Capacity	1000 L/H to 30,000 L/H, customised
Material	SUS304
Product Recovery Rate	No less than 97%
Finished Particle Size	80 to 120 mesh
Inner Cylinder	SUS304 mirror plate, no less than 2.5 mm
Tower Body	Insulated
External Access	Stainless steel platform, stairs and railings
Product Contact Finish	Mirror polished, Ra 0.8 micron or better
Systems	Product feeding, medium circulation, air dehumidification and heating
Minimum Order	One unit
Production Capacity	10 units per month

Aseptic Tank

HTK-AT-01 · SUS316L product contact

An aseptic tank in 10 T, 15 T, 20 T and 30 T sizes, with SUS316L on product contact parts and SUS304 elsewhere, used in dairy, fruit juice and beverage factories to store sterile product before filling. Standard components include an aseptic stirrer, aseptic pressure manway, CIP cleaning ball, ladder, handrail and guardrail, SIEMENS load scale, supporting legs and a PLC full-auto control system.

Specification

Product Model	HTK-AT-01
Product Volume	10 T, 15 T, 20 T, 30 T, customised
Product Contact Material	SUS316L stainless steel
Other Parts	SUS304 stainless steel
Agitation	Aseptic stirrer
Access	Aseptic pressure manway, ladder, handrail, guardrail
Cleaning	CIP cleaning ball
Weighing	SIEMENS load scale
Control	PLC full-auto control system
Minimum Order	One unit

Production Capacity	20 units per month
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Cheese Vat

HTK-GLC-01 · SUS304 / SUS316L

A cheese vat from 500 L to 2000 L in SUS304 or SUS316L, used on dairy production lines, at dairy farms and in milk plants to make cheese. It is built strictly to food hygienic standard with a no-dead-corner structure, so the vat can be cleaned properly between batches of a product where contamination shows up in the finished cheese weeks later.

Specification

Product Model	HTK-GLC-01
Product Volume	500 L to 2000 L, customised
Material	SUS304 / SUS316L
Function	Cheese production
Construction	Food hygienic standard, no dead corner
Minimum Order	One unit
Production Capacity	100 units per month

CAN Filling and Seaming Machine

HTK-YLGGZ-01 · SUS304 or SUS316L

A can filling and seaming machine running at 200 to 1000 cans per minute in SUS304 or SUS316L, suitable for both slim and stubby cans. It uses SIEMENS PLC control with touch screen, runs at a high degree of automation with precise filling and seaming, and a frequency converter gives variable speed. Multiple safety devices protect both the machine and personnel at high speed, and can size changeover is quick.

Specification

Product Model	HTK-YLGGZ-01
Working Capacity	200 cans per minute to 1000 CPM, customised
Material	SUS304 or SUS316L
Can Formats	Slim can and stubby can
Control	SIEMENS PLC and touch screen
Speed Regulation	Frequency converter
Safety	Multiple integrated safety devices
Changeover	Quick can size changeover
Minimum Order	One unit
Production Capacity	10 units per month

Butter Churner

HTK-SYJ-01 · SUS304 / SUS316L

A butter churner handling 1000 L/H to 5000 L/H in SUS304 or SUS316L, used on dairy production lines to make butter from cream. Different capacities are available within the range, with a minimum order of one unit and a monthly production capacity of 100 units.

Specification

Product Model	HTK-SYJ-01
Working Capacity	1000 L/H to 5000 L/H, customised
Material	SUS304 / SUS316L
Function	Making butter products on a dairy production line
Minimum Order	One unit
Production Capacity	100 units per month

Plastic Cup Filling Machine

HTK-SLBGZ-01 · SUS304

A plastic cup filling machine running at 1000 to 2000 cups per hour in SUS304, used mainly on yogurt filling lines. Single-cup and multiple-cup filling versions are both available, so the machine can be matched to the cup format and the required output. Minimum order is one unit with a monthly production capacity of 10 units.

Specification

Product Model	HTK-SLBGZ-01
Working Capacity	1000-2000 cups per hour, customised
Material	SUS304 stainless steel
Versions	Single-cup filling; multiple cup filling
Application	Yogurt product filling production lines
Minimum Order	One unit
Production Capacity	10 units per month

Plastic Pouch Filling Machine

HTK-SLDGZ-01 · SUS304

A plastic pouch filling machine running at 1000 to 1200 bags per hour in SUS304, with a filling accuracy of plus or minus 1.5 per thousand and a choice of one or two filling heads. In one pass it completes film disinfection, bag making, filling, measuring, sealing and date printing, and it is used for pasteurised milk, drinking water, vegetable oil, milk and fruit wine.

Specification

Product Model	HTK-SLDGZ-01
Working Capacity	1000-1200 BPH, customised
Material	SUS304 stainless steel
Filling Accuracy	Plus or minus 1.5 per thousand
Filling Head	1 or 2 head
Automatic Functions	Film disinfection, bag making, filling, measuring, sealing, date printing
Products	Pasteurised milk, drinking water, vegetable oil, milk, fruit wine
Minimum Order	One unit
Production Capacity	10 units per month

Glass Bottle Filling Machine

HTK-BLPGZ-01 · SUS304 or SUS316L

A glass bottle filling machine running at 2000 BPH to 20,000 BPH in SUS304 or SUS316L with an organic glass door, combining rinsing, filling and capping in one three-in-one block. It is controlled by SIEMENS PLC with touch screen and achieves a qualified rotary capping rate of 99.9%. It is used on fruit juice, beverage and drinks production lines.

Specification

Product Model	HTK-BLPGZ-01
Working Capacity	2000 BPH to 20,000 BPH, customised
Material	SUS304 or SUS316L, with organic glass door
Functions	Rinsing, filling and capping three-in-one
Control	SIEMENS PLC and touch screen
Qualified Rotary Capping Rate	99.9%
Applications	Fruit juice, beverage, drinks production lines
Minimum Order	One unit
Production Capacity	10 units per month

Plate Heat Exchanger

HTK-PHE-01 · SUS304 / SUS316L

A plate heat exchanger handling 1000 L/H to 15,000 L/H in SUS304 or SUS316L, used on dairy and fruit juice beverage lines to heat or cool product according to the process flow. Its compact plate stack gives high heat exchange efficiency with small heat loss, and the pack opens for cleaning and inspection rather than being sealed.

Specification

Product Model	HTK-PHE-01
Working Capacity	1000 L/H to 15,000 L/H, customised
Material	SUS304 / SUS316L
Function	Heating or cooling product according to the process flow
Characteristics	High heat-exchange efficiency, small heat loss, compact structure
Applications	Dairy production lines, fruit juice beverage processing lines
Minimum Order	One unit
Production Capacity	100 units per month

CIP System

HTK-QX-01 · SUS304

A CIP system handling 1000 L/H to 30,000 L/H in SUS304, for cleaning dairy, fruit juice and beverage production lines after each run. The standard sequence is acid cleaning, alkali cleaning, hot water cleaning and pure cold water cleaning, and the procedure can be designed to your production requirements. Full-auto, semi-auto and manual control are available. Standard components include a full-auto SIEMENS PLC control system and touch screen, UK Spirax Sarco steam pressure reducing and drain system, a German temperature inspection and regulation system, a German JUMO conductivity meter and German Contrinex or IFM flow rate switches.

Specification

Product Model	HTK-QX-01
Working Capacity	1000 L/H to 30,000 L/H, customised
Material	SUS304
Cleaning Sequence	Acid, alkali, hot water, pure cold water
Control	Full-auto, semi-auto, manual
PLC	Full-auto SIEMENS PLC control system and touch screen
Steam System	UK Spirax Sarco steam pressure reducing and drain system
Temperature	German temperature inspection and regulation system
Conductivity	German JUMO conductivity meter
Flow Switch	German Contrinex or IFM
Minimum Order	One unit
Production Capacity	50 units per month

Conveyer

HTK-SSD-01 · Air, chain plate or spiral

A conveyor running at 15,000 to 36,000 bottles per hour in three types: air conveyor, chain plate conveyor and spiral conveyor. It carries packaged products on beer, beverage, soft drink, fruit juice, pure water, mineral water, dairy and seasoning lines, with working speed built to the line it serves.

Specification

Product Model	HTK-SSD-01
Working Speed	15,000-36,000 BPH, customised
Types	Air conveyor; chain plate conveyor; spiral conveyor
Application	Conveying packaged products

Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning
Minimum Order	One unit
Production Capacity	100 units per month

High Speed Emulsification Tank

HTK-RHG-01 · SUS304 / SUS316L

A high speed emulsification tank from 500 L to 3000 L in SUS304 or SUS316L, built as a three layer tank with insulation and dimple jacket. The emulsifier is mounted at the bottom and runs at 1440 RPM using high shear emulsification, which is what disperses sugar, milk powder, starch, gums, colloids and stabilisers into liquid. Standard components include product inlet and outlet, ellipse manway, air ventilation cap, CIP cleaning ball, digital display thermometer and electrode liquid level instrumentation.

Specification

Product Model	HTK-RHG-01
Product Volume	500 L to 3000 L, customised
Material	SUS304 / SUS316L
Structure	Three layer tank with insulation and dimple jacket
Mixing Type	High shear emulsification, bottom mounted
Mixer Speed	1440 RPM
Ingredients	Sugar, milk powder, starch, glue and colloids, stabilisers
Standard Components	Product inlet and outlet, ellipse manway, air ventilation cap, CIP cleaning ball, digital display thermometer, electrode liquid level
Minimum Order	One unit
Production Capacity	100 units per month

High Shear Tank

HTK-JQG-01 · SUS304 / SUS316L

A high shear tank from 500 L to 3000 L in SUS304 or SUS316L, built as a three layer tank with insulation and jacket, with a high shear mixer running at 3600 RPM. It mixes sugar, milk powder, milk products, juice products, beverages, starch, gums, colloids and stabilisers. Standard components include product inlet and outlet, manway, air ventilation cap, CIP cleaning ball, sight glass, sight lamp, temperature sensor, lifting ear, pull rod, baffle plate and four adjustable supporting legs.

Specification

Product Model	HTK-JQG-01
Product Volume	500 L to 3000 L, customised
Material	SUS304 / SUS316L
Structure	Three layer tank with insulation and jacket
Mixing Type	High shear mixer
Mixer Speed	3600 RPM
Ingredients	Sugar, milk powder, milk and juice products, beverages, starch, colloids, stabilisers
Standard Components	Manway, air ventilation cap, CIP cleaning ball, sight glass, sight lamp, temperature sensor, lifting ear, pull rod, baffle plate, four adjustable legs
Minimum Order	One unit
Production Capacity	100 units per month

Homogenizer

HTK-JZJ-01 · SUS304 / SUS316L

A homogenizer handling 1000 L/H to 15,000 L/H in SUS304 or SUS316L, producing superfine liquid-liquid emulsions and liquid-solid dispersions for dairy and fruit juice beverage products. It is used on pasteurised milk, UHT milk, yogurt, soy milk, peanut milk, white milk and flavoured milk, and on orange, mango, apple, pear and coconut juice and tomato paste. Standard components include a SUS304 stainless steel cover, a named brand motor, pressure gauge, piston and piston sealing ring, high temperature resistant sealing ring, product inlet and outlet valves and a pump.

Specification

Product Model	HTK-JZJ-01
Working Capacity	1000 L/H to 15,000 L/H, customised
Material	SUS304 / SUS316L
Function	Superfine liquid-liquid emulsions and liquid-solid dispersions
Dairy Applications	Pasteurised milk, UHT milk, yogurt, soy milk, peanut milk, white milk, flavour milk
Juice Applications	Orange, mango, apple, pear and coconut juice, tomato paste
Standard Components	SUS304 cover, motor, pressure gauge, piston and piston sealing ring, high temperature resistance sealing ring, inlet and outlet valves, pump
Minimum Order	One unit
Production Capacity	50 units per month

Yogurt Fermentation Tank

HTK-FJG-01 · SUS304 / SUS316L

A yogurt fermentation tank from 500 L to 30,000 L in SUS304 or SUS316L, built as a vertical three layer tank with insulation and dimple jacket. It blends and ferments milk into yogurt, with frame or propeller agitators available and a scraper fitted where the recipe requires it. Standard components include product inlet and outlet, manway, air ventilation cap, conical cover, CIP cleaning ball, digital display thermometer, high and low liquid level sensors, sample valve, draw bar valve, anti-vortex plate, sight glass, lifting ears and four adjustable supporting legs.

Specification

Product Model	HTK-FJG-01
Product Volume	500 L to 30,000 L, customised
Material	SUS304 / SUS316L
Structure	Vertical three layer tank with insulation and dimple jacket
Agitator Types	Frame agitator, propeller agitator, scraper customised
Instrumentation	Digital display thermometer, high and low liquid level sensors, sight glass
Valves	Sample valve, draw bar valve
Internals	Anti-vortex plate, CIP cleaning ball
Minimum Order	One unit
Production Capacity	50 units per month

Plate Pasteurizers

HTST and yogurt thermal profiles on complete skids with pumps, hot water set, balance tank and PLC control.

Plate Pasteurizer

HTK-BSJJ-01 · SUS304 / SUS316L

A plate pasteuriser handling 500 L/H to 20,000 L/H in SUS304 or SUS316L, for fresh milk, dairy beverages, fruit juice, tea, beer and ice cream mix. The process runs product in at 5 degrees C, homogenising at 65 degrees C, pasteurising at 85 degrees C for 15 seconds, then out at 5 degrees C. It is usually connected to a degasser, separator and homogenizer, and comes with a plate heat exchanger, product pump, hot water pump, hot water tank, product balance tank and a Schneider electrical cabinet. Semi-auto and full-auto control are both available.

Specification

Product Model	HTK-BSJJ-01
Working Capacity	500 L/H to 20,000 L/H, customised
Material	SUS304 / SUS316L
Product Inlet	5 degrees C
Homogenising Temperature	65 degrees C
Pasteurisation	85 degrees C for 15 seconds
Product Outlet	5 degrees C
Control	Semi-auto, full-auto available
Components	PHE, product pump, hot water pump, hot water tank, product balance tank
Electrical Cabinet	Schneider electrical components
Minimum Order	One unit
Production Capacity	50 units per month

Yogurt Pasteurizer

HTK-YSJJ-01 · SUS304 / SUS316L

A yogurt pasteuriser handling 500 L/H to 20,000 L/H in SUS304 or SUS316L, used in milk plants making yogurt. The process runs product in at 5 degrees C, homogenising at 65 degrees C, pasteurising at 90 to 95 degrees C for 300 seconds, then out at 43 degrees C, which is the inoculation temperature. Semi-auto and full-auto control are available, and the unit is supplied with a plate heat exchanger, product pump, hot water pump, hot water tank, product balance tank, Schneider electrical cabinet with SIEMENS PLC touch screen, and stainless steel pipe and fittings.

Specification

Product Model	HTK-YSJJ-01
Working Capacity	500 L/H to 20,000 L/H, customised
Material	SUS304 / SUS316L
Product Inlet	5 degrees C
Homogenising Temperature	65 degrees C
Pasteurisation	90-95 degrees C for 300 seconds
Product Outlet	43 degrees C
Control	Semi-auto, full-auto available
Components	PHE, product pump, hot water pump, hot water tank, product balance tank, stainless steel pipe and fittings
Electrical	Schneider components with SIEMENS PLC touch screen
Minimum Order	One unit
Production Capacity	50 units per month

Retorts and Tunnel Sterilizers

Sterilising and pasteurising product after it is already sealed in its pack.

Retort

HTK-SJF-01 · SUS304 / SUS316L

A retort for secondary sterilisation of packaged food products, with a working capacity from 1350 L to 15,000 L in SUS304 or SUS316L. Water-bath and spraying types are both available in full-auto, semi-auto and manual versions. Standard components include SIEMENS PLC control with touch screen, a UK Spirax Sarco steam pressure reducing valve, a German Burkert temperature control system, AirTac solenoid valves and air filter, and an electrical cabinet built with Schneider components.

Specification

Product Model	HTK-SJF-01
Working Capacity	1350 L to 15,000 L, customised
Material	SUS304 / SUS316L
Types	Water-bath type; spraying type
Automation	Full-auto, semi-auto, manual
Control	SIEMENS PLC full-automatic control and touch screen
Steam Valve	UK Spirax Sarco steam pressure reducing valve
Temperature Control	German Burkert temperature control system
Pneumatics	AirTac electromagnetic valve and air filter
Electrical Cabinet	Schneider electrical components
Minimum Order	One unit
Production Capacity	20 units per month

Pasteurization and Cooling Tunnel

HTK-SD-01 · SUS304

A pasteurisation and cooling tunnel with a working capacity of 3000 L to 18,000 L in SUS304, for packaged dairy, fruit juice and beverage products. It runs four zones: recycled warm water for pre-heating, hot water to pasteurise, warm water to cool and spray the product, then cold water to bring it down. Temperature and holding time are set and controlled automatically, and the procedure can be designed to your product. Standard components include an imported brand chain, JIE or Guomao reducers, UK Spirax Sarco steam regulating and drain valves, SIEMENS PLC and touch screen, and Danfoss or Mitsubishi frequency converters.

Specification

Product Model	HTK-SD-01
Working Capacity	3000 L to 18,000 L, customised
Material	SUS304
Process Zones	Recycled warm water pre-heat, hot water pasteurise, warm water cool and spray, cold water cool down
Control	Set and automatic control of temperature and holding time
Chain	Imported brand
Reducer	JIE or Guomao
Steam Valves	UK Spirax Sarco steam regulated valve and drain valve
PLC	SIEMENS PLC and touch screen
Frequency Converter	Danfoss or Mitsubishi
Minimum Order	One unit
Production Capacity	20 units per month

Sanitary Pumps

Product transfer and CIP return duties in SUS304 or SUS316L from 1000 to 30,000 L/H.

Centrifugal Pump

HTK-P-01 · SUS304 / SUS316L

A sanitary centrifugal pump handling 1000 L/H to 30,000 L/H in SUS304 or SUS316L, for beer, beverage, soft drinks, fruit juice, pure water, mineral water, dairy and seasoning production. Working capacity is built to requirement, with a minimum order of one unit and 100 units produced per month.

Specification

Product Model	HTK-P-01
Working Capacity	1000 L/H to 30,000 L/H, customised
Material	SUS304 / SUS316L
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning
Minimum Order	One unit
Production Capacity	100 units per month

CIP Return Pump

HTK-RP-01 · SUS304 / SUS316L

A CIP return pump handling 5000 L/H to 30,000 L/H in SUS304 or SUS316L, for beer, beverage, soft drinks, fruit juice, pure water, mineral water, dairy and seasoning plants. It returns cleaning solution from vessels and lines back to the CIP set so the same detergent and caustic can be recovered and reused rather than sent to drain.

Specification

Product Model	HTK-RP-01
Working Capacity	5000 L/H to 30,000 L/H, customised
Material	SUS304 / SUS316L
Function	Returning cleaning solution to the CIP set
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning
Minimum Order	One unit
Production Capacity	100 units per month

Stainless Steel Tanks

Extraction and fermentation vessels built in SUS304 or SUS316L with the jacket, agitator and instrumentation the process needs.

Herbal Tea Extraction Tank

HTK-CQG-01 · SUS304 / SUS316L

A vertical three layer extraction tank of 1000 L to 5000 L in SUS304 or SUS316L, with insulation and a dimple jacket, used to extract herbal or tea liquor from leaves. It is fitted with a paddle type agitator and supplied with product inlet and outlet, an airtight manway, top elliptical cover, bottom conical cover, CIP cleaning ball, temperature sensor, high and low liquid level sensors, lifting ears and four adjustable supporting legs.

Specification

Product Model	HTK-CQG-01
Product Volume	1000 L to 5000 L, customised
Material	SUS304 or SUS316L
Structure	Vertical three layer tank with insulation and dimple jacket
Agitator	Paddle type
Covers	Top elliptical cover, bottom conical cover
Access	Airtight manway
Cleaning	CIP cleaning ball
Instrumentation	Temperature sensor, high and low liquid level sensors
Supports	Four adjustable supporting legs, lifting ears
Minimum Order	One unit
Production Capacity	50 units per month

Beer Fermentation Tank

HTK-BFJG-01 · SUS304 / SUS316L

A beer fermentation tank, also called a uni-tank, from 1 to 200 BBL in SUS304 or SUS316L, used for fermentation, maturation and sedimentation in one vessel. Fermentation is where yeast transforms wort into beer, and the conical bottom lets unwanted sediment be discharged while the beer stays in the tank. Yeast can also be collected and reused from the cone, which saves a recurring cost over time.

Specification

Product Model	HTK-BFJG-01
Product Volume	1-200 BBL, customised
Material	SUS304 / SUS316L
Also Known As	Uni-tank
Functions	Fermentation, maturation, sedimentation
Bottom	Conical, for sediment discharge and yeast collection
Minimum Order	1 unit
Production Capacity	100 units per month

Tubular UHT Sterilizers

Continuous UHT for thin liquids at 137 degrees C and for viscous products at 95 to 121 degrees C.

Tube-in-tube UHT Sterilizer

HTK-TGS-01 · SUS316L product contact

A tube-in-tube UHT steriliser handling 1000 L/H to 15,000 L/H, built with SUS316L on every product contact part and SUS304 elsewhere. It is designed for high viscosity liquid foods such as tomato paste and concentrated fruit juice, where a plate heat exchanger would block. The process runs product in at 25 degrees C, sterilisation at 95 to 121 degrees C held for 120 to 180 seconds, then product out at 25 to 35 degrees C, ready for aseptic bag filling. Control is by SIEMENS PLC with touch screen, with Spirax Sarco steam pressure reducing valves, Burkert and Spirax Sarco temperature control and German Labom temperature transducers.

Specification

Product Model	HTK-TGS-01
Working Capacity	1000 L/H to 15,000 L/H, customised
Product Contact Material	SUS316L stainless steel
Other Parts	SUS304 stainless steel
Product Inlet Temperature	25 degrees C
Sterilisation	95 to 121 degrees C for 120 to 180 seconds
Product Outlet Temperature	25 to 35 degrees C
Downstream	Final product can be filled in aseptic bag
Control	SIEMENS PLC full-automatic control and touch screen
Steam Valve	UK Spirax Sarco steam pressure reducing valve
Temperature Control	German Burkert and Spirax Sarco
Temperature Transducer	German Labom
Minimum Order	One unit
Production Capacity	20 units per month

Tubular UHT Sterilizer

HTK-LGS-01 · SUS316L product contact

A tubular UHT steriliser handling 1000 L/H to 15,000 L/H, with SUS316L on product contact parts and SUS304 elsewhere, for continuous sterilisation of dairy, fruit juice and beverage liquids. Sterilising temperature is protected by a high temperature alarm and low temperature reflux, tube internals are polished so every tube cleans fully, and the system self-sterilises to maintain an aseptic condition. A full-automatic PLC controls and records the whole CIP cleaning process, pipe sterilisation and product sterilisation, with automatic CIP and SIP. The process runs product in at 5 degrees C, homogenising at 65 degrees C and sterilising at 137 degrees C.

Specification

Product Model	HTK-LGS-01
Working Capacity	1000 L/H to 15,000 L/H, customised
Product Contact Material	SUS316L stainless steel
Other Parts	SUS304 stainless steel
Product Inlet	5 degrees C
Homogenising Temperature	65 degrees C
Sterilisation Temperature	137 degrees C
Temperature Protection	High temperature alarm, low temperature reflux
Tube Finish	Internally polished for full cleaning
Control	Full-automatic PLC with recorded CIP, pipe sterilisation and product sterilisation, auto CIP and SIP
Minimum Order	One unit

Production Capacity	20 units per month
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Beer Brewing Equipment

Bright beer tanks from 1 to 200 BBL for maturing carbonating and serving.

Bright Beer Tank

HTK-BQJG-01 · SUS304 / SUS316L

A bright beer tank, also called a serving tank or clear beer tank, from 1 to 200 BBL in SUS304 or SUS316L. It matures, clarifies and carbonates beer after fermentation and sometimes acts as post-filtration storage. It sits at the final stage of the brewing process, holding beer ready to be packaged, and it is built to be straightforward to clean and service.

Specification

Product Model	HTK-BQJG-01
Product Volume	1-200 BBL, customised
Material	SUS304 / SUS316L
Also Known As	Serving tank, clear beer tank (CBT)
Functions	Mature, clarify and carbonate beer after fermentation
Process Stage	Final stage before packaging
Minimum Order	1 unit
Production Capacity	100 units per month

Crate Washing Machines

150 to 1200 crates per hour in SUS304 with steam electrical or hot water heating.

Crate Washing Machine

HTK-XXJ-01 · SUS304

A crate washing machine handling 150 to 1200 crates per hour, built in SUS304 stainless steel and available in steam heating, electrical heating or hot water types. It washes fruit crates, bread crates and milk product crates for dairy, fruit juice and beverage plants, and is supplied with a monthly production capacity of 100 units against a minimum order of one unit.

Specification

Product Model	HTK-XXJ-01
Working Capacity	150 to 1200 crates per hour, customised
Material	SUS304
Heating Types	Steam heating, electrical heating, hot water
Crate Types	Fruit crates, bread crates, milk product crates
Minimum Order	One unit
Production Capacity	100 units per month

Evaporators and Concentrators

Removing water under vacuum before drying, at a fraction of the cost of drying it out.

Evaporator/Concentrator

HTK-ZFQ-01 · SUS304

An evaporator, also called a concentrator, handling 1000 L/H to 30,000 L/H in SUS304, used on milk powder, fruit juice powder, concentrated fruit juice, fruit jam, tomato paste and ketchup lines. Falling-film, forced circulation and small-scale laboratory concentrator types are available and the machine is designed to client requirements. Standard components include Siemens PLC and touch screen, temperature sensor and gauge, pressure transmitter and gauge, high and low liquid level switches, vacuum pump, centrifugal pump and condenser.

Specification

Product Model	HTK-ZFQ-01
Working Capacity	1000 L/H to 30,000 L/H, customised
Material	SUS304
Types	Falling-film; forced circulation; small-scale laboratory concentrator
Control	Siemens PLC and touch screen
Instrumentation	Temperature sensor and gauge, pressure transmitter and gauge, high and low liquid level switches
Ancillaries	Vacuum pump, centrifugal pump, condenser
Applications	Milk powder, fruit juice powder, concentrated juice, jam, tomato paste and ketchup
Minimum Order	One unit
Production Capacity	20 units per month

Fruit Processing Machines

Intake to aseptic bag: washing, sorting, destoning, pulping, pressing, drying and filling.

Fruit Sorting Machine

HTK-JGJ-01 · SUS304

A fruit sorting machine handling 1 T/H to 30 T/H in SUS304, used on fruit juice production lines to remove damaged fruit manually before processing. The machine presents the fruit to operators at a controlled rate so bad fruit is taken out before it reaches the pulper, where one rotten fruit can affect an entire batch of juice.

Specification

Product Model	HTK-JGJ-01
Working Capacity	1 T/H to 30 T/H, customised
Material	SUS304
Function	Manual sorting of bad fruit out of the line
Application	Fruit juice production lines
Minimum Order	One unit
Production Capacity	50 units per month

Destoner

HTK-QHJ-01 · SUS304 or SUS316L

A destoner handling 1 T/H to 15 T/H in SUS304 or SUS316L, used to remove stones from mango, peach and similar fruit on juice production lines. Removing the stone before pulping protects the pulper and keeps bitter kernel material out of the juice. Different working capacities are available, with a minimum order of one unit and 50 units produced per month.

Specification

Product Model	HTK-QHJ-01
Working Capacity	1 T/H to 15 T/H, customised
Material	SUS304 or SUS316L
Function	Removes mango, peach and similar fruit stones
Application	Fruit juice production lines
Minimum Order	One unit
Production Capacity	50 units per month

Aseptic Bag Filling Machine

HTK-WJGZ-01 · SUS304 or SUS316L

An aseptic bag filling machine handling 1 T/H to 30 T/H in SUS304 or SUS316L, available with a single head or a double head. It fills sterilised juice, puree and concentrate into aseptic bags for bulk shipment, which is how processed fruit moves between processors without a cold chain. Minimum order is one unit with 10 units produced per month.

Specification

Product Model	HTK-WJGZ-01
Working Capacity	1 T/H to 30 T/H, customised
Material	SUS304 or SUS316L
Configurations	Single head or double-head
Application	Fruit juice production lines, aseptic bag filling
Minimum Order	One unit
Production Capacity	10 units per month

Freezer Dryer

HTK-DGJ-01 · 3 kg to 5000 kg input

A freeze dryer with batch input from 3 kg, 5 kg and 10 kg up to 1000 kg, 2000 kg and 5000 kg, used to produce instant fruit juice powder and dried fruit slices. Each machine is designed around the product: its shape, its state and its input water percentage all change the shelf and cycle design. Standard components include the dry chamber and door, trap vessels, air cooling compressor, dry filter, solenoid valve, thermostatic expansion valve, pressure controller, heating plate, temperature sensor, vacuum pump, vacuum gauge, silencer, temperature controller, recorder and control panel.

Specification

Product Model	HTK-DGJ-01
Input	3 kg, 5 kg, 10 kg to 1000 kg, 2000 kg, 5000 kg, customised
Products	Fruit juice instant powder, dry fruit slices
Design Basis	Product shape, product state, input water percentage
Chamber	Dry chamber with dry chamber door, trap vessels
Refrigeration	Air cooling compressor, dry filter, solenoid valve, thermostatic expansion valve, pressure controller
Vacuum	Vacuum pump, vacuum gauge, silencer
Control	Heating plate, temperature sensor, temperature controller, recorder, control panel
Minimum Order	One unit
Production Capacity	100 units per month

Fruit Washing Machine

HTK-FWM-01 · SUS304

A fruit washing machine handling 1 T/H to 30 T/H in SUS304, available as a brush washing machine, a surfing-water washing machine and other types. It is used on fruit juice production lines to remove field soil and surface contamination before sorting and processing, and the washing type is chosen by how robust the fruit is.

Specification

Product Model	HTK-FWM-01
Working Capacity	1 T/H to 30 T/H, customised
Material	SUS304
Types	Brush washing machine; surfing-water washing machine; others available
Application	Fruit juice production lines
Minimum Order	One unit
Production Capacity	50 units per month

Mango/Tomato Pulping Machine

HTK-DJJ-01 · SUS304 or SUS316L

A pulping machine handling 1 T/H to 15 T/H in SUS304 or SUS316L, used to pulp mango, tomato and similar fruit into juice product on a fruit juice production line. The pulper separates usable pulp from skin and fibre, and different capacities are available so the machine matches the fruit rate feeding it.

Specification

Product Model	HTK-DJJ-01
Working Capacity	1 T/H to 15 T/H, customised
Material	SUS304 or SUS316L
Function	Pulping mango, tomato and similar fruit
Application	Fruit juice production lines
Minimum Order	One unit
Production Capacity	50 units per month

Apple Belt Press

HTK-DZ-01 · SUS304 or SUS316L contact

A belt press handling 5 T/H to 15 T/H with SUS304 or SUS316L on all product contact surfaces, used to extract juice from apple, pear and similar fruit on raw juice processing lines. A belt press works continuously rather than in batches, which is what makes it the standard choice for pome fruit at production scale.

Specification

Product Model	HTK-DZ-01
Working Capacity	5 T/H to 15 T/H, customised
Product Contact Material	SUS304 or SUS316L
Function	Extracting apple, pear and similar fruit juice
Application	Raw fruit juice processing lines
Minimum Order	One unit
Production Capacity	30 units per month

PET Bottle Filling Machine

HTK-SLPGZ-01 · SUS304 or SUS316L

A PET bottle filling machine running at 2000 BPH to 48,000 BPH in SUS304 or SUS316L, combining rinsing, filling and capping in one three-in-one block. It is controlled by SIEMENS PLC with touch screen, runs at a high degree of automation and achieves a qualified rotary capping rate of 99.9%. It is used on dairy, fruit juice, pure water and beer lines.

Specification

Product Model	HTK-SLPGZ-01
Working Capacity	2000 BPH to 48,000 BPH, customised
Material	SUS304 or SUS316L
Functions	Rinsing, filling and capping three-in-one
Control	SIEMENS PLC and touch screen
Qualified Rotary Capping Rate	99.9%
Applications	Dairy, fruit juice, pure water, beer
Minimum Order	One unit
Production Capacity	10 units per month

Packaging Machines

Labelling, sleeving, wrapping, cartoning, palletizing and depalletizing at line speed.

Palletizer

HTK-MDJ-01 · Gantry, column or robot

A palletizer running at 20 to 80 cartons per minute under full-auto PLC control with frequency converter speed regulation. Conveying, ordering, stacking, pallet unloading and stack output are all automatic. Three configurations are available: gantry palletizer, vertical column type palletizer and robot palletizer, handling carton or film wrapped packages from beer, beverage, juice, water, dairy and seasoning lines.

Specification

Product Model	HTK-MDJ-01
Working Speed	20-80 cartons per minute, customised
Control	PLC full-auto program control
Speed Regulation	Frequency converter
Automatic Functions	Conveying, ordering, stacking, unloading pallet, stacking output
Types	Gantry palletizer; vertical column type palletizer; robot palletizer
Package Types	Carton or film wrapping packaged products
Minimum Order	One unit
Production Capacity	50 units per month

Carton Package Machine

HTK-ZXP-01 · 25 to 60 cartons per minute

A carton packing machine running at 25 to 60 cartons per minute, built to the working speed your line requires. It packs beer, beverage, soft drinks, fruit juice, pure water, mineral water, dairy and seasoning products into cartons at the end of the filling line. Minimum order is one unit with a monthly production capacity of 100 units.

Specification

Product Model	HTK-ZXP-01
Working Speed	25 to 60 cartons per minute, customised
Application	Carton packing for beer, beverage, juice, water, dairy, seasoning
Minimum Order	One unit
Production Capacity	100 units per month

Depalletizer

HTK-XDJ-01 · 500 to 1200 CPM

A depalletizer running at 500 to 1200 containers per minute, customised to line speed, for beer, beverage, soft drinks, fruit juice, pure water, mineral water, dairy and seasoning production. It takes packaged products off incoming pallets and feeds them onto the line, with a design focused on safe and stable running, low power consumption and long service life. Minimum order is one unit with 50 units produced per month.

Specification

Product Model	HTK-XDJ-01
Working Speed	500-1200 CPM, customised
Application	Depalletizing packaged products
Design Characteristics	Safe and stable, less power consumption, long service life
Minimum Order	One unit
Production Capacity	50 units per month

Shrink Sleeve Labeling Machine

HTK-TBJ-01 · SUS304

A shrink sleeve labeling machine running at 100 to 600 bottles or cans per minute, built in SUS304 and designed to the customer's own requirement. Shrink sleeves wrap the full container, which is what makes them the choice for contoured bottles and for full-body graphics that a wrap-around label cannot cover. Minimum order is one unit with 100 units produced per month.

Specification

Product Model	HTK-TBJ-01
Working Speed	100-600 bottles or cans per minute, customised
Material	SUS304
Application	Shrink sleeving different packaged products
Design	To customer requirement
Minimum Order	One unit
Production Capacity	100 units per month

Labeling Machine

HTK-TBJ-01 · 15,000 to 30,000 BPH

A labeling machine running at 15,000 to 30,000 bottles per hour in four configurations: hot melt glue, rotary adhesive, linear adhesive and tube labeling. The configuration follows the label material and the container: hot melt glue suits high-speed wrap-around paper labels, adhesive labelling suits self-adhesive film, and tube labelling handles cylindrical containers. Minimum order is one unit with 100 units produced per month.

Specification

Product Model	HTK-TBJ-01
Working Speed	15,000-30,000 BPH, customised
Types	Hot melt glue; rotary adhesive; linear adhesive; tube labeling
Application	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning
Minimum Order	One unit
Production Capacity	100 units per month

Film Wrapping Machine

HTK-MBJ-01 · 25 to 150 pieces per minute

A film wrapping machine running at 25 to 150 pieces per minute for beer, beverage, soft drinks, fruit juice, pure water, mineral water, dairy and seasoning products. Film wrapping is the alternative to cartoning where the pack does not need a printed box, and it costs considerably less per pack in material. Working speed is built to requirement, with a minimum order of one unit and 100 units produced per month.

Specification

Product Model	HTK-MBJ-01
Working Speed	25 to 150 pieces per minute, customised
Application	Film wrapping for beer, beverage, juice, water, dairy, seasoning
Minimum Order	One unit
Production Capacity	100 units per month

Overhead Cranes

10 to 200 tons on double beam bridges spanning up to 49 metres, in light and winch builds.

10 Ton Overhead Crane Solution

Double Beam Overhead Crane · Light and winch versions

A 10 ton overhead crane supplied in two builds off the same runway geometry: a light double beam version for steady production lifting, and a winch double beam version for duty cycles that also pull loads sideways. Both span up to 49 metres with a hook height of 30 or 40 metres, and both are driven by a gearbox, motor and frequency converter so the load starts and stops without swing. The light build carries CE and ISO certification.

Specification

Rated Lifting Capacity	10 tons
Light Overhead Range	5 to 100 tons
Winch Overhead Range	5 to 360 tons
Crane Type	Light double beam overhead crane
Core Components	Gearbox, motor, frequency converter
Hoist	European-style electric wire rope hoist
Span Range	0-49 m
Max Lifting Height	30 m / 40 m
Lifting Speed	0.4-16 m/min
Long Travelling Speed	5-90 m/min
Cross Travelling Speed	4-40 m/min
Control Options	Wireless remote, cab control, handheld pendant
Place of Origin	Henan, China
Warranty	1 year
Certifications	CE, ISO

15 Ton Crane Solutions

15 Ton Crane Range · Four configurations

Four ways to put 15 tons on a hook, chosen by how wide the bay is and how hard the crane works. A European single girder covers spans to 36 metres and capacities to 16 tons; light and winch double beam overhead cranes cover spans to 49 metres; a gantry crane covers outdoor spans to 50 metres where no runway steel exists. All four share the same control options and the same frequency converter drive.

Specification

Rated Lifting Capacity	15 tons
Light Overhead Range	5 to 100 tons
Winch Overhead Range	5 to 360 tons
European Single Girder	Up to 16 tons, span up to 36 m, 0.4-16 m/min
Light Overhead	5 to 100 tons, span 0-49 m, 0.4-16 m/min
Winch Overhead	5 to 360 tons, span 0-49 m, 0.4-20 m/min
Gantry Crane	Up to 320 tons, span up to 50 m, 0.4-16 m/min
Control Options	Wireless remote, cab control, handheld
Certifications	CE, ISO

20 Ton Overhead Crane Solution

20 Ton Crane Range · Three configurations

Three 20 ton builds for indoor bays and outdoor yards. The light 20 ton overhead crane handles general industrial lifting with a gearbox, motor and frequency converter for controlled load movement, spanning up to 49 metres with 30 to 40 metres of hook

height. The winch build is for plants that lift and pull frequently and can be specified anywhere from 5 to 360 tons. The gantry version puts the same duty over an outdoor warehouse, railroad or construction site.

Specification

Rated Lifting Capacity	20 tons
Light Overhead Range	5 to 100 tons
Winch Overhead Range	5 to 360 tons
Crane Type	Light double beam overhead crane
Core Components	Gearbox, motor, frequency converter
Hoist	European-style electric wire rope hoist
Span Range	0-49 m
Max Lifting Height	30 m / 40 m
Lifting Speed	0.4-16 m/min
Long Travelling Speed	5-90 m/min
Cross Travelling Speed	4-40 m/min
Control Options	Wireless remote, cab control, handheld pendant
Place of Origin	Henan, China
Warranty	1 year
Certifications	CE, ISO

30 Ton Overhead Crane Solution

30 Ton Crane Range · Three configurations

A 30 ton crane specified as light overhead, winch overhead or gantry. Light overhead covers 5 to 100 tons at 0-49 metres span with 30 or 40 metres of lift at 0.4-16 m/min. Winch overhead covers 5 to 360 tons at 0.4-20 m/min for heavy-duty construction and large hoisting. The gantry build reaches up to 320 tons over spans to 50 metres and is the version used for subway construction, outdoor warehouses and railroads.

Specification

Rated Lifting Capacity	30 tons
Light Overhead Range	5 to 100 tons
Winch Overhead Range	5 to 360 tons
Crane Type	Light double beam overhead crane
Core Components	Gearbox, motor, frequency converter
Hoist	European-style electric wire rope hoist
Span Range	0-49 m
Max Lifting Height	30 m / 40 m
Lifting Speed	0.4-16 m/min
Long Travelling Speed	5-90 m/min
Cross Travelling Speed	4-40 m/min
Control Options	Wireless remote, cab control, handheld pendant
Place of Origin	Henan, China
Warranty	1 year
Certifications	CE, ISO

40 Ton Overhead Crane

40 Ton Crane Range · Three configurations

Forty ton overhead cranes, winch cranes and gantry cranes for construction, outdoor warehouse and railroad work. The three builds differ in lifting capacity range, span and lifting speed rather than in control philosophy: light overhead 5 to 100 tons at 0.4-16 m/min, winch overhead 5 to 360 tons at 0.4-20 m/min, and a gantry to 320 tons over spans up to 50 metres. Hook height is 30 or

40 metres on the overhead builds.

Specification

Rated Lifting Capacity	40 tons
Light Overhead Range	5 to 100 tons
Winch Overhead Range	5 to 360 tons
Crane Type	Winch double beam overhead crane
Core Components	Gearbox, motor, frequency converter
Span Range	0-49 m
Max Lifting Height	30 m / 40 m
Lifting Speed	0.4-20 m/min
Long Travelling Speed	5-90 m/min
Cross Travelling Speed	4-40 m/min
Control Options	Wireless remote, cab control, handheld pendant
Place of Origin	Henan, China
Warranty	1 year
Certifications	CE, ISO

50 Ton Overhead Crane

50 Ton Double Beam Overhead Crane · Light and winch versions

A 50 ton overhead crane in light and winch double beam builds, both using a gearbox, motor and frequency converter and both built in Henan, China with a one year warranty. The light build lifts 10 to 100 tons and the winch build 10 to 360 tons, each spanning 0 to 49 metres with a maximum lifting height of 30 or 40 metres. Crane weight is 5000 kg. Both are bridge cranes and both accept customisation to the project.

Specification

Rated Lifting Capacity	50 tons
Light Build Lifting Load	10 to 100 tons
Winch Build Lifting Load	10 to 360 tons
Crane Feature	Bridge crane
Core Components	Gearbox, motor, frequency converter
Span Range	0-49 m
Max Lifting Height	30 m / 40 m
Weight	5000 kg
Place of Origin	Henan, China
Warranty	1 year

100 Ton Overhead Crane

100 Ton Double Beam Overhead Crane · Light and winch versions

Two 100 ton builds for heavy manufacturing, shipbuilding, aerospace, metal and mining, power generation and transport. The light double beam version lifts 5 to 100 tons with a maximum span of 49 metres and a lifting height range of 30 to 40 metres, driven by a high-efficiency gearbox, motor and frequency converter for smooth, safe and stable operation. The winch version extends the same geometry to heavier and more continuous duty.

Specification

Rated Lifting Capacity	100 tons
Light Overhead Range	5 to 100 tons
Winch Overhead Range	5 to 360 tons
Crane Type	Light double beam overhead crane
Core Components	Gearbox, motor, frequency converter

Hoist	European-style electric wire rope hoist
Span Range	0-49 m
Max Lifting Height	30 m / 40 m
Lifting Speed	0.4-16 m/min
Long Travelling Speed	5-90 m/min
Cross Travelling Speed	4-40 m/min
Control Options	Wireless remote, cab control, handheld pendant
Place of Origin	Henan, China
Warranty	1 year
Certifications	CE, ISO

150 Ton Crane Solution

Winch 150 Ton Crane · CE and ISO certified

A CE and ISO certified winch crane for 150 ton duty, built with a double beam, a bridge design and a European-style electric wire rope hoist. It is customisable from 5 up to 360 tons for projects that need more lifting and horizontal movement, spans up to 49 metres and reaches a lifting height of 30 or 40 metres. It is specified for construction, heavy manufacturing, shipbuilding, aerospace, metal and mining, power generation and transport projects.

Specification

Rated Lifting Capacity	150 tons
Winch Overhead Range	5 to 360 tons
Crane Type	Winch double beam overhead crane
Core Components	Gearbox, motor, frequency converter
Span Range	0-49 m
Max Lifting Height	30 m / 40 m
Lifting Speed	0.4-20 m/min
Long Travelling Speed	5-90 m/min
Cross Travelling Speed	4-40 m/min
Control Options	Wireless remote, cab control, handheld pendant
Place of Origin	Henan, China
Warranty	1 year
Certifications	CE, ISO

200 Ton Crane Solution

ZLK Winch Double Beam Overhead Crane · CE and ISO certified

A 200 ton winch double beam overhead crane for construction, heavy manufacturing, shipbuilding, aerospace, metal and mining, power generation and transport work. Lifting load is 100 to 360 tons over a span range of 0 to 49 metres, with a maximum lifting height of 30 or 40 metres, lifting speed 0.4-20 m/min, long travelling 5-90 m/min and cross travelling 4-40 m/min. Core components are a gearbox, motor and frequency converter, with a European-style electric wire rope hoist. Built in Henan, China with CE and ISO certification and a one year warranty.

Specification

Product Name	Winch Double Beam Overhead Crane
Lifting Load	100 to 360 tons
Core Components	Gearbox, motor, frequency converter
Crane Feature	Bridge crane
Span Range	0-49 m
Max Lifting Height	30 m / 40 m
Lifting Speed	0.4-20 m/min

Long Travelling Speed	5-90 m/min
Cross Travelling Speed	4-40 m/min
Hoist	European-style electric wire rope hoist
Control Options	Wireless remote control, cab control, handheld control
Weight	5000 kg
Place of Origin	Henan, China
Warranty	1 year
Certifications	CE, ISO

Double Girder Overhead Crane

Double Girder Overhead Crane · Light and heavy-duty builds

Double girder overhead cranes supplied in capacities of 5, 10, 15, 20, 30, 50, 100, 150 and 200 tons and above. Two builds cover the range: a light double girder crane customisable to 100 tons for medium-capacity indoor handling, and a heavy-duty build for projects that lift and pull. Spans reach 49 metres with lifting heights to 40 metres, long travelling to 90 m/min and cross travelling to 40 m/min.

Specification

Available Capacities	5, 10, 15, 20, 30, 50, 100, 150, 200 tons and above
Light Build Customisable To	100 tons
Span Range	Up to 49 m
Max Lifting Height	Up to 40 m
Long Travelling Speed	Up to 90 m/min
Cross Travelling Speed	Up to 40 m/min
Girder Arrangement	Double girder, top-running trolley

Electric Hoist Cranes

Electric Hoist Crane · Single-girder and double-girder

Electric hoist cranes custom-built for lifting duties from aerospace to energy. Two arrangements are offered: a single-girder crane where one beam supports the hoist, and a double-girder crane where two beams share the load and allow capacities up to 600 tons. Both are designed to shorten cycle times and reduce manual handling in manufacturing, assembly, shipyard, warehousing, storage, construction and steel plant environments.

Specification

Single-Girder	A single beam supports the hoist
Double-Girder	Two beams give more support, allowing loads up to 600 tons
Manufacturing Duty	Lift raw materials, machinery and heavy factory equipment
Assembly Lines	Transport parts and components between stations
Shipyards	Containers and marine industry components
Warehousing	Streamline the processing of heavy inventory
Construction	Lift and position building materials, beams, machines and parts
Build	Custom-built to the application

EOT Crane

Electric Overhead Travelling Crane · ISO 9001:2015, ISO 14001, ISO 45001:2018, CE

Electric overhead travelling cranes, also called bridge cranes, that run along a fixed runway with a hoist moving horizontally and vertically along the bridge. Four arrangements are built: single-girder, double-girder, top-running and under-slung. Every EOT crane meets or exceeds international safety standards including ISO 9001:2015, ISO 14001, ISO 45001:2018 and CE, and the design draws on German engineering practice.

Specification

Crane Type	Electric overhead travelling crane, bridge crane
Girder Arrangements	Single-girder, double-girder
Runway Arrangements	Top-running, under-slung
Motion	Bridge travels along a fixed runway, hoist moves horizontally and vertically
Quality Standard	ISO 9001:2015
Environmental Standard	ISO 14001
Safety Standard	ISO 45001:2018
Conformity	CE
Intended Duty	High-duty-cycle environments

Jib Cranes

Local lifting from 250 kg to 20 tons, in wall, column, pillar, mast, portable and davit mountings.

Up to 6 Ton Jib Crane

3 to 6 Ton Jib Crane · Six mounting types

A jib crane range for 3 to 6 ton duty with a rated loading capacity of 0.25 to 10 tons and a 360 degree slewing range. Arms are adjustable to the application, the boom is horizontal so the hook covers a circular working area, and electric, manual and pneumatic hoisting configurations are all available. Six mounting types are offered: wall-mounted, column mounted, free-standing, articulating, mast type and portable.

Specification

Rated Loading Capacity	0.25 to 10 tons
Working Duty	3 to 6 tons
Slewing Range	360 degrees
Boom	Horizontal boom covering a circular area
Arms	Adjustable to application
Hoisting Configurations	Electric, manual, pneumatic
Mounting Types	Wall-mounted, column mounted, free-standing, articulating, mast type, portable
Control	Wireless remote control available

2 Ton Jib Crane

2 Ton Jib Crane · Five mounting options

A 2 ton jib crane with a load capacity of 250 kg to 2000 kg and a 360 degree slewing range, offered in wall-mounted, free-standing, column-mounted, mast-type and portable mountings. Wireless remote control is available to ease loading tasks, and the mounting choice is what adapts the crane to the building: mast type needs no building structure at all, while portable is light enough to be moved where it is needed.

Specification

Load Capacity	250 kg to 2000 kg
Slewing Range	360 degrees
Mounting Options	Wall-mounted, free-standing, column-mounted, mast-type, portable
Control	Wireless remote control available
Mast Type	Does not need a building structure for support
Portable Type	Lightweight and easily moved

1 Ton Jib Crane

LW Wall Jib Crane · 1.0 ton

A 1.0 ton wall jib crane that mounts on a wall or a column, with a 180 degree slewing range and an electric chain hoist for loading and unloading. The design is lightweight and durable, which is what makes it usable across different industrial locations, and mounting it on the wall keeps the floor clear for other equipment.

Specification

Loading Capacity	1.0 ton
Slewing Range	180 degrees
Mounting	Wall or column
Hoist	Electric chain hoist
Structure	Lightweight, durable design
Floor Space Required	None

Davits Crane

Davit Crane · 2.5 to 20 tons

A davit crane built for boat operations and marine handling, with a load capacity of 2.5 to 20 tons and a 360 degree slewing range. It uses corrosion resistant materials, a wire rope hoist, and a variable frequency drive that optimises motor performance and power efficiency. Anti-sway technology and remote operation options are fitted to improve safety during lifts over water, and radio control and fixed push-button control are both available.

Specification

Load Capacity	2.5 tons to 20 tons
Slewing Range	360 degrees
Hoist	Wire rope hoist
Drive	Variable frequency drive
Materials	Durable, corrosion resistant
Safety Features	Anti-sway technology, remote operation options
Control	Radio control, fixed push-button control
Applications	Lifting boats out of the water, shipyard material handling

Pillar Jib Crane

Pillar Jib Crane · 0.5 t to 6.3 t, CE certified

A CE certified pillar jib crane mounted directly on the floor without additional support, covering 0.5 t to 6.3 t with a 270 degree slewing range. The structure is simple and lightweight, which makes installation straightforward and keeps maintenance low because there are few parts. Ergonomic controls and a mobile control option let the operator work with minimal effort.

Specification

Capacity Range	0.5 t to 6.3 t
Slewing Range	270 degrees
Mounting	Floor mounted, no additional support required
Structure	Simple, lightweight, few parts
Control	Mobile control option, ergonomic controls
Certification	CE
Shipping Application	Lift spare parts from ship decks
Warehouse Application	Carry materials from containers
Truck Application	Lift heavy loads from trucks

Wall Mounted Jib Crane

Wall Bracket Jib Crane · 0.5 T to 5 T

A wall-mounted jib crane with a load capacity of 0.5 T to 5 T, built around a single I-beam that resists buckling under heavy loads and fixed to the wall or column with a steel tie rod. Mounting the crane on the wall frees the floor for other equipment, and because the crane needs little maintenance it keeps labour costs and running expenditure down over its life.

Specification

Load Capacity	0.5 T to 5 T
Boom	Single I-beam
Mounting	Steel tie rod to wall or column
Floor Space Required	None
Warehouse Application	Pick pallets or containers
Manufacturing Application	Lift and position tools
Workshop Application	Lift parts and carry out repairs

Gantry and Mobile Cranes

Lifting capacity up to 300 tons that travels between sites without disassembly.

Mobile Crane

Mobile Gantry and Telescopic Crane · Up to 300 tons or more

Mobile cranes for sites where the load, the crane, or both have to move. They travel between locations without being disassembled, carry specifications up to 300 tons or more, and many models use telescopic booms with a small footprint for confined working areas. They are supplied to construction, automotive manufacturing, energy, mining and shipping operations worldwide.

Specification

Crane Type	Mobile crane, travels independently between sites
Lifting Capacity	Up to 300 tons or more depending on model
Boom	Telescopic boom on many models
Footprint	Small footprint suited to confined work spaces
Relocation	No disassembly required to travel between sites
Industries Supplied	Construction, automotive manufacturing, energy, mining, shipping

Hoists And Lifting Gear

Electric to 50 tons, pneumatic to 25 tons, manual to 5 tons, plus explosion-proof builds.

Wire Rope Hoists

Wire Rope Hoist · Electric, pneumatic, manual, explosion-proof

Wire rope hoists in four drive types for different industries, applications and environments. Electric hoists are the most common and lift up to 50 tons or more. Pneumatic hoists run on compressed air and typically lift up to 25 tons where spark-free operation is required, such as oil refineries. Manual hoists handle light duty up to 5 tons using hand-driven mechanisms. Explosion-proof hoists use special components that prevent ignition of flammable gases or dust in petrochemical and explosive atmospheres.

Specification

Electric Wire Rope Hoist	Driven by electric motors, up to 50 tons or more
Pneumatic Wire Rope Hoist	Compressed air driven, typically up to 25 tons, spark-free
Manual Wire Rope Hoist	Hand-driven, light duty up to 5 tons
Explosion-Proof Hoist	Special components prevent ignition of flammable gases or dust
Gearbox	Regulates speed and torque
Intended Duty	Heavy-duty industrial applications

CNC Machining Parts

Wire EDM, grinding, drilling and mill component manufacture to your drawing.

Wire EDM Parts

Wire EDM · Custom to drawing

Custom wire electrical discharge machining for parts that cannot be milled or turned. A charged wire erodes the workpiece through controlled electrical discharges, so hardness does not limit the cut and there is no tool pressure to distort a thin section. Parts are made to client specification in materials including brass, copper and titanium, and the process is used for punches and dies, mould components and aerospace parts.

Specification

Process	Wire electrical discharge machining
Material Removal	Controlled electrical discharges between wire and workpiece
Power Supply	Provides the electrical energy required for the discharges
Materials	Brass, copper, titanium and other conductive metals
Typical Parts	Punches and dies, mould components, aerospace components
Build Type	Custom to client specification
Inspection	Advanced testing equipment, dedicated quality control team

Vertical Mill Parts

Vertical Mill Components · Custom to drawing

Replacement and custom components for vertical mills, produced by CNC machining with heat treatment where the part requires it. The grinding table is where the work happens and where wear is concentrated, so table, wear and drive components are the parts most often replaced. Cast iron is the usual material for structural components, and parts are made to the dimensions of the machine you actually own rather than to a generic pattern.

Specification

Part Type	Vertical mill components and wear parts
Key Component	Grinding table and associated wear parts
Material	Cast iron and specified alternatives
Processes	CNC machining, milling, heat treatment
Build Type	Custom to drawing or to sample
Minimum Order	Single parts accepted

Horizontal Mill Parts

Horizontal Mill Components · Custom to drawing

Custom horizontal mill parts machined to drawing, covering the components that determine whether a milling machine holds accuracy. The spindle holds and drives the cutting tools and is the component whose robustness decides what the machine can take. Parts are produced by milling and turning, in cast iron and other specified materials, with inspection built into the process rather than added at the end.

Specification

Part Type	Horizontal mill components
Spindle	Holds and drives the cutting tools
Materials	Cast iron and specified alternatives
Processes	Milling, turning, stamping, sheet metal
Build Type	Custom to drawing or sample
Quality Control	Inspection through the process, not only at the end

CNC Grinding Parts

CNC Ground Components

CNC grinding applies computer numerical control to a process that was historically dependent entirely on operator skill. That change is what makes grinding accuracy repeatable across a batch instead of varying with who is on shift. Parts are produced as custom solutions to individual requirements, including intricate grinding work where both dimensional accuracy and surface appearance matter.

Specification

Process	CNC grinding under computer numerical control
Advantage Over Manual	Repeatable accuracy independent of operator skill
Capability	Intricate and multi-feature grinding tasks
Outcome	Dimensional accuracy with clean surface appearance
Build Type	Custom to client requirement

CNC Drilling Parts

CNC Drilled Components

Custom CNC drilling covering through holes, blind holes and tapped holes ready for screws or bolts. The drilling machine spindle holds and rotates the drill bit, and computer control is what makes hole position and depth repeatable. Custom projects run through consultation, CAD design and prototyping, then production with quality checks on every component, followed by delivery and after-sales support.

Specification

Process	CNC drilling
Spindle	Holds and rotates the drill bit
Through Holes	Pass completely through the workpiece
Blind Holes	Do not go all the way through the material
Tapped Holes	Internal threads, ready for screws or bolts
Project Stages	Consultation, CAD design and prototyping, production and quality control, delivery and after-sales support

CNC Fasteners

Bolts nuts and screws machined when no catalogue part fits the joint.

Custom CNC Fasteners · Bespoke to application

CNC machined fasteners made to the application rather than to a standard part number. Where a catalogue fastener does not exist for the thread, head form or material required, the fastener is engineered and machined to fit. Design flexibility is the point of the service: the geometry follows the joint it has to make, and the material follows the environment it has to survive.

Specification

Process	CNC machining
Build Type	Bespoke design to the intended application
Design Input	Client drawing, sample, or joint requirement
Geometry	Thread pattern, length and head design to specification
Quantities	Prototype through to production batches

Custom Cnc Nuts from China Reliable Factory

Custom CNC Nuts · Aluminium, brass, stainless steel

Custom CNC machined nuts in aluminium, brass and stainless steel, produced to international safety and quality standards and suitable for global markets. Machining rather than cold forming makes sense where the thread, the flange geometry or the material falls outside standard ranges, or where quantities are too small to justify forming tooling. Compliance is verified by regular audits.

Specification

Process	CNC machining
Materials	Aluminium, brass, stainless steel
Standards	International safety and quality standards
Compliance	Verified by regular audits
Build Type	Custom to drawing or sample

Custom Cnc Bolts from China Reliable Supplier

Custom CNC Bolts · Stainless and carbon steel

CNC machined bolts made to drawing, with the steel alloy chosen against the application. Stainless bolts suit valves, pump shafts and gears; medium carbon steel bolts suit axles, light gears and forged connecting rods; mild carbon steel bolts are used for tie rods, anchor pins and machinery parts. The route runs from a CAD blueprint through material selection and machining to inspection, packaging and dispatch, with tailored thread patterns, lengths and head designs and surface treatments from polishing to anti-corrosion coatings.

Specification

Process	CNC machining from CAD blueprint
Stainless Bolts	Valves, pump shafts and gears
Medium Carbon Steel Bolts	Axles, light gears and forged connecting rods
Mild Carbon Steel Bolts	Tie rods, anchor pins and machinery parts
Customisation	Thread pattern, length, head design
Surface Treatments	Polishing, anti-corrosion coatings
Process Steps	Design, material selection, machining, quality inspection, packaging, dispatch

CNC Screws

Custom CNC Screws

CNC machined screws across a range of materials, sizes and finishes, including machine screws and other varieties for applications where precision matters, such as aerospace. Quality checking is a fixed part of the process rather than an option, and

price depends on material, geometry and quantity, with volume breaks available on larger orders.

Specification

Process	CNC machining
Materials	Aluminium, brass, stainless steel and others
Varieties	Machine screws and other types
Sizes and Finishes	Range available to specification
Aerospace Use	Precision applications supported
Pricing Factors	Material, geometry, volume with bulk discounts

Metal Stamping Parts

Punching, deep drawing, bending and perforating in aluminium brass and stainless steel.

Punching Parts

CNC Punched Components · OEM and ODM

Custom CNC punching for brackets, enclosures, gears and similar formed components in aluminium, brass and stainless steel. Work runs from design through punching to a quality check on every part, and both OEM and ODM projects are accepted. Free samples are offered before mass production so the part can be assessed for fit and finish before the full order is committed.

Specification

Process	CNC punching
Materials	Aluminium, brass, stainless steel
Typical Parts	Brackets, enclosures, gears
Service Type	OEM and ODM
Samples	Free samples before mass production
Inspection	Quality check on each part after punching

Deep Drawn Components

Deep Drawn Parts · Custom tooling

Deep drawing radially draws a sheet metal blank into a forming die, turning it into a cavity, cylinder or cup. It produces intricate and precise components with high repeatability, which is why it is used for fuel tanks and body parts, cooking pots, sinks and bathtubs, beverage cans and plumbing fixtures. Materials include aluminium, brass, stainless steel and titanium, with welding and assembly available where the drawn part is one component of a larger item.

Specification

Process	Deep drawing, radially drawing a blank into a forming die
Resulting Forms	Cavity, cylinder or cup
Materials	Aluminium, brass, stainless steel, titanium
Automotive Applications	Fuel tanks, body parts and other components
Household Applications	Cooking pots, sinks, bathtubs
Packaging Applications	Soda and beer cans
Construction Applications	Faucets and fixtures
Secondary Processes	Welding, assembly

Decorative Perforated Metal Sheet

Perforated Sheet · OEM and ODM

Decorative perforated metal sheet, produced by stamping a pattern of holes through sheet material in aluminium, brass or stainless steel. The perforation pattern is what the specification actually is: hole shape, size, pitch and open area decide whether the sheet screens, ventilates, diffuses light or simply looks right. OEM and ODM services cover both supplied designs and designs developed here.

Specification

Product	Decorative perforated metal sheet
Process	Manual or mechanical stamping of the hole pattern
Materials	Aluminium, brass, stainless steel
Service Type	OEM and ODM
Quality Control	Every sheet checked against international standards
Delivery	Dispatched within the agreed delivery date

CNC Bending Parts

CNC Bent Components

CNC bending forms metal on computer-controlled machines, which is what gives accuracy and repeatability on parts that would otherwise depend on the operator reading a protractor. Bend radius is the key design decision, because it determines how sharp or smooth each bend will be and whether the material cracks on the outside of the bend. Parts are produced in aluminium and 304 stainless steel among other materials.

Specification

Process	CNC bending on computer-controlled machines
Materials	Aluminium, 304 stainless steel and others
Key Design Parameter	Bend radius, determining how sharp or smooth the bend is
Strengths	High accuracy, repeatability and efficiency
Build Type	Custom solutions to client requirements

Sheet Metal Fabrication

Cutting bending welding assembly and coating under one roof, from prototype to production.

Sheet Metal Services

Sheet Metal Fabrication · OEM and ODM

Custom sheet metal fabrication covering laser cutting, CNC bending, welding, assembly and powder coating in aluminium, brass and stainless steel. CNC technology handles the cutting and forming, welding joins the components, and the finishing stage completes the part. OEM and ODM work are both accepted, and a QC team inspects from incoming raw material through to the finished product.

Specification

Materials	Aluminium, brass, stainless steel
Cutting	CNC laser cutting
Forming	CNC bending
Joining	Welding and assembly
Finishing	Powder coating and surface finishing
Service Type	OEM and ODM
Quality Control	Inspection from raw material through to finished product

Precision Sheet Metal Fabrication

Precision Sheet Metal · Prototype to production

Precision sheet metal fabrication from prototyping through laser cutting, bending, welding, assembly and powder coating. The service covers the whole path from concept to finished part, including the prototyping stage where a design is proved before tooling or volume is committed. Materials include aluminium, brass and stainless steel, and after-sales support continues past the delivery rather than ending at it.

Specification

Services	Prototyping, laser cutting, bending, welding, assembly, powder coating
Materials	Aluminium, brass, stainless steel
Design Support	Custom solutions on design, material and finish
Volumes	Prototype through to production
Support	After-sales support past delivery

Custom Fabrication Metal

Custom Metal Fabrication · Tolerance to 0.005 mm

Custom metal fabrication from CAD through machining to post-processing, using 4th-axis CNC machines for complex parts and holding tolerances down to 0.005 mm. Materials include steel, aluminium, titanium and others, selected against the application rather than against shop convenience. Processes available include CNC machining, milling, turning, bending, laser cutting, stamping, welding, assembly, polishing, powder coating and injection moulding, under a zero-defect quality policy.

Specification

Machining	4th-axis CNC machines
Tolerance	To 0.005 mm
Services	CAD, modelling, machining, post-processing
Materials	Steel, aluminium, titanium and others
Processes	CNC machining, milling, turning, bending, laser cutting, stamping, welding, assembly, polishing, powder coating
Quality Policy	Zero-defect policy with rigorous quality control
Typical Parts	CNC bent fabricated metal parts and precision components

CNC Milled Components

Complex geometry made repeatable, with no tooling cost from the first part.

CNC Milling Parts

CNC Milled Components

CNC milling removes material from a workpiece using computer-controlled machine tools, which is what makes complex geometry repeatable. It is the preferred process for parts that cannot be turned: housings, manifolds, brackets and anything with features on more than one face. Parts are produced in aluminium and brass among other materials, with turning available where a component needs both processes.

Specification

Process	CNC milling with computer-controlled machine tools
Materials	Aluminium, brass and others
Secondary Process	Turning available
Strengths	Precision and repeatability on complex parts
Volumes	Prototype through to production

CNC Turned Components

Shafts bushings connectors and pins in aluminium brass and stainless steel.

CNC Turning Parts

CNC Turned Components

CNC turned components produced on lathes in aluminium, brass and stainless steel, with milling and polishing available as secondary operations. Turning is the process for anything round: axles, shafts and bushings for automotive work, surgical instruments and medical devices, and connectors and pins for electronics. Parts are made to drawing with the repeatability that comes from computer control rather than from operator skill.

Specification

Process	CNC turning on lathes
Secondary Operations	Milling, polishing
Materials	Aluminium, brass, stainless steel
Automotive Parts	Axles, shafts, bushings
Medical Parts	Surgical instruments and medical devices
Electronics Parts	Connectors, pins and intricate components
Build Type	Custom to drawing

Rubber Seals and O-Rings

NBR HNBR EPDM FKM and FFKM, plus Y seals and the full AS568 size range.

Y Seals and Y O-Rings

Y Seals and Y O-Rings

A range of Y seals and Y O-rings covering the standard hole and shaft universal type, commonly called the Y-ring, along with YX hole, YX shaft, QY hole, QY shaft, high and low Y-type hole and shaft seal rings and KY shaft types. Each is designed around four parameters: the ratio of inner and outer lips, the cross-section, the angle between the two lips and the height. Those four decide whether a lip seal actually seals in a given groove and pressure.

Specification

Standard Type	Hole and shaft universal, commonly called the Y-ring
Specialised Types	YX hole, YX shaft, QY hole, QY shaft, high and low Y-type hole and shaft seal rings, KY shaft type
Design Parameters	Ratio of inner and outer lips, cross-section, angle between two lips, height
Material	Rubber elastomer, selected to fluid and temperature
Automotive Use	Various car parts, to ensure no leakage of fluids

O-rings

O-Ring Range · NBR, EPDM, silicone and more

O-rings in nitrile, EPDM, silicone and other elastomers, used to seal hydraulic systems, pneumatic systems, water filtration systems, automotive engines and industrial machinery. The O-ring is the simplest sealing element there is: a circular cross-section elastomer compressed in a groove, which is why it installs quickly and costs little, and why material selection rather than geometry is what decides whether it survives.

Specification

Materials	Nitrile (NBR), EPDM, silicone and others
Hydraulic Systems	Prevents fluid leakage between connected parts
Pneumatic Systems	Seals air and prevents loss of pressure
Water Filtration Systems	Ensures no contaminants bypass the filter
Installation	Simple design, quick and hassle-free
Sizing	By inside diameter and cross-section

NBR O-Rings

NBR O-Ring · Nitrile rubber

NBR O-rings in nitrile rubber, chosen for their oil resistance. They are used mainly in the automotive industry, in aerospace, in wire and cable applications and in home appliances. NBR resists oils, fuels and other hydrocarbons better than most general-purpose elastomers, which is why it remains the default material wherever oil is present and cost matters.

Specification

Material	NBR nitrile rubber
Key Property	Good oil resistance
Resists	Oils, fuels and other hydrocarbons
Primary Industry	Automotive
Other Applications	Aerospace, wire and cable, home appliances
Sizing	By inside diameter and cross-section

HNBR O-Rings and Seals

HNBR Seals · Hydrogenated nitrile

HNBR O-rings and seals in hydrogenated nitrile, used predominantly for cold medium sealing where the material's composition keeps it performing at low temperature. In automotive work it is used on power steering pipes and oil seals, and beyond automotive it is found in packer and screw pumps and in O-ring applications generally.

Specification

Material	HNBR hydrogenated nitrile
Primary Use	Cold medium sealing
Automotive Applications	Power steering pipes, automotive oil seals
Industrial Applications	Packer and screw pumps, O-ring applications
Sizing	By inside diameter and cross-section

FKM and FFKM O-Rings

FKM and FFKM O-Rings · Fluoroelastomer and perfluoroelastomer

FKM and FFKM O-rings for chemically demanding service. FKM O-rings are made from fluoroelastomer and resist a wide range of chemicals and temperatures, including petroleum products, hydraulic fluids and acidic compounds. FFKM, or perfluoroelastomer, is specified where the highest level of chemical resistance is needed, withstanding even the most aggressive chemicals in semiconductor manufacturing, chemical processing and similar industries.

Specification

FKM Material	Fluoroelastomer
FKM Resistance	Petroleum products, hydraulic fluids, acidic compounds, wide temperature range
FFKM Material	Perfluoroelastomer
FFKM Resistance	Almost universal chemical resistance
FFKM Industries	Semiconductor manufacturing, chemical processing
Chemical Processing Use	Seals for reactors, mixers and transfer systems

FFKM Seals

FFKM Seals · Perfluoroelastomer

FFKM material seals for industries where chemical attack and temperature defeat every other elastomer. They are supplied into the semiconductor sector, the pharmaceutical industry and chemical processing, and also into petroleum and automobile applications, laser plating, battery manufacturing and special equipment production. FFKM is the most chemically resistant elastomer available, which is why it is specified where a seal failure stops a process rather than merely leaking.

Specification

Material	FFKM perfluoroelastomer
Semiconductor Sector	Process equipment sealing
Pharmaceutical	Manufacturing equipment seals
Chemical Industry	Reactor, mixer and transfer sealing
Other Industries	Petroleum, automobile, laser plating, battery manufacturing, special equipment production
Build	Engineered to the application

FFKM O-Rings

FFKM O-Ring · Perfluoroelastomer

FFKM O-rings for applications where chemical attack and temperature both defeat conventional elastomers. They resist a wide range of aggressive chemicals, solvents and corrosive agents, and maintain sealing integrity under extreme temperatures and thermal cycling. They are used in aerospace, biotechnology where purity and freedom from contamination matter, automotive fuel systems and high-temperature engine components, petrochemical work and semiconductor manufacturing.

Specification

Material	FFKM perfluoroelastomer
Chemical Resistance	Aggressive chemicals, solvents and corrosive agents
Temperature Performance	Maintains integrity under extreme temperatures and thermal fluctuation

Aerospace	Fluid and fuel system sealing
Biotechnology	Ensures purity and prevents contamination in processes
Automotive	Fuel systems and high-temperature engine components
Other Industries	Petrochemical, semiconductor manufacturing

EPDM Seals and O-Rings

EPDM Seals and O-Rings · Ethylene Propylene Diene Monomer

EPDM seals and O-rings, chosen for heat, ozone and weather resistance. EPDM is used across automotive, electronic and electrical industries, daily necessities, sports equipment and mechanised industrial equipment, and as insulation material for wires, cables and high-voltage and ultra-high-voltage applications. In sealing it covers heating systems, automotive brakes, water systems and refrigeration units, and food-grade EPDM extends it to pharmaceutical and food processing.

Specification

Material	EPDM, Ethylene Propylene Diene Monomer
Key Properties	Heat, ozone and weather resistance
Heating Systems	Hot water and steam service
Automotive	Brake system sealing
Refrigeration	Resistant to coolants and refrigerants
Food Grade Option	Pharmaceutical and food processing
Electrical Use	Wire, cable, high-voltage and ultra-high-voltage insulation

AS568 O-Ring Series

AS568 · Full standard size range

The AS568 series is the American standard O-ring size range, and the complete set of moulds for it is held in stock, so standard AS568 parts are supplied promptly rather than tooled to order. O-rings from the series are used across machine tools, agricultural machinery, instrumentation, construction machinery, automobiles, ships, aerospace equipment, engineering machinery, chemical machinery, mining machinery, plastic machinery and petroleum machinery.

Specification

Standard	AS568 O-ring size series
Tooling	All moulds for the AS568 size range held
Availability	Standard parts supplied promptly
Variants	AS568 O-RING, AS568 O RING, AS568 ORING
Applications	Machine tools, agricultural, instrumentation, construction, automobiles, ships, aerospace, engineering, chemical, mining, plastic and petroleum machinery

Rubber and Plastic Products

Custom moulded rubber and plastic parts with in-house mould design and manufacture.

Silicone Hot Water Bag

Silicone Hot Water Bag · Qualified products

A silicone hot water bag measuring 13.8 cm x 10 cm x 3.5 cm with a 300 ml capacity, made from silica gel with ABS and PA components and supplied with a woollen cover. Two types are available: a standard bag for general warmth and a therapeutic version designed for targeted pain relief. The design is leak-proof and built to withstand regular use.

Specification

Product Name	Silicone hot water bag
Dimensions	13.8 cm x 10 cm x 3.5 cm
Capacity	300 ml
Materials	Silica gel, ABS, PA, with woollen cover
Types	Standard; therapeutic
Grade	Qualified products
Safety	Leak-proof design

SBR Rubber Products

SBR Rubber Products · Styrene butadiene rubber

Rubber products moulded from SBR, including counterweight blocks supplied to American customers. An in-house structural design team designs the product structure and manufactures the mould independently, so a part can be developed from a requirement rather than from a finished drawing. SBR offers weather and abrasion resistance with a low water absorption rate, and it is non-toxic.

Specification

Material	SBR, styrene butadiene rubber
Products	All kinds of rubber products including counterweight blocks
Design	In-house structural design team
Tooling	Mould designed and manufactured independently
Abrasion Resistance	Superior resistance to wear and tear
Water Absorption	Low absorption rate
Safety	Non-toxic

Rubber Moulds

Rubber Mould · Compression and transfer

Rubber moulds designed and developed in an in-house mould manufacturing workshop with an experienced structural design engineer. Two mould types are made: compression moulds, suited to large parts with simpler designs, and transfer moulds, used for intricate designs and over-moulding. The moulds serve automotive seals and gaskets, medical flexible instruments and equipment parts, consumer goods including household items and toys, and construction seals, gaskets and insulation components.

Specification

Compression Moulds	Suitable for large parts with simpler designs
Transfer Moulds	Ideal for intricate designs and over-moulding applications
Automotive Use	Seals, gaskets and other components
Medical Use	Flexible instruments and equipment parts
Consumer Goods	Household items, toys and more
Construction Use	Seals, gaskets and insulation components
Capability	In-house mould workshop with structural design engineer

Scalability	Small and large-scale production
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Rubber Rollers

Rubber Rollers · EPDM, silicone, PU or SBR

Rubber rollers including printing rollers, paper rollers, paper feed rollers and twist rollers, covered in EPDM, silicone rubber, PU rubber or SBR. The covering material is the specification: it sets grip, chemical resistance and wear life against the substrate the roller touches. Conveyor rollers move products or raw materials, and coating rollers apply coatings or laminates to surfaces. Rollers are tailored to the industry requirement and designed to need minimal maintenance.

Specification

Roller Types	Printing, paper, paper feed, twist, conveyor, coating
Covering Materials	EPDM, silicone rubber, PU rubber, SBR
Conveyor Rollers	Used in conveyor systems to move products or raw materials
Coating Rollers	Used to apply coatings or laminates to various surfaces
Customisation	Tailored to specific industry needs
Maintenance	Designed to require minimal maintenance

Custom Plastic Parts

Custom Plastic Parts · Injection moulded and extruded

Custom plastic parts made to your specification by injection moulding, extrusion and assembly. The service covers both intricate designs and large-scale components, with the part designed and produced to the dimensions and function you require rather than selected from a standard range. Any shape, size and design can be produced within the process limits.

Specification

Processes	Injection moulding, extrusion, assembly
Build Type	Custom to client specification
Geometry	Intricate designs and large-scale components
Versatility	Parts of a wide range of shapes, sizes and designs

O-Ring Moulds

O-Ring Mould · Multi-cavity production tooling

O-ring moulds designed and manufactured in an in-house mould workshop that also produces a range of other moulds and tools. The mould is engineered so every O-ring produced is of uniform size and quality, built from materials that withstand high moulding temperatures without deformation, and designed for easy cleaning and minimal upkeep. It is compatible with a range of rubber and elastomer materials.

Specification

Capability	In-house mould workshop for a variety of moulds and tools
Consistency	Every O-ring produced of uniform size and quality
Temperature Resistance	Withstands high moulding temperatures without deformation
Maintenance	Designed for easy cleaning and minimal upkeep
Compatibility	Various rubber and elastomer materials

Plastic Parts

Plastic Parts · Injection and blow moulded

Plastic parts produced by injection moulding and blow moulding across three plastic production suppliers, with inquiry handling, quality control and delivery supervision provided as part of the service. Injection moulded parts are formed by injecting molten plastic into a mould; blow moulded parts are used primarily for creating hollow objects. Parts are made to the exact specification of the project, for automotive, electronics and other sectors.

Specification

Injection Moulded Parts	Formed by injecting molten plastic into a mould
Blow Moulded Parts	Used primarily for creating hollow objects
Production Base	Three plastic production suppliers
Services	Inquiry, quality control, delivery supervision
Applications	Automotive, electronics and other industries

FKM Rubber Products

FKM Rubber Products · Fluoroelastomer

Custom processed FKM rubber products, made in an in-house mould workshop where the tooling is designed and manufactured alongside the part. FKM resists a wide range of chemicals, oils and fuels, from aggressive acids through to industrial lubricants, and retains its structural integrity at elevated temperatures where other elastomers degrade. It is used in automotive and other high-performance applications.

Specification

Material	FKM fluoroelastomer
Chemical Resistance	Aggressive acids, industrial lubricants, oils and fuels
Temperature	Retains structural integrity at elevated temperatures
Durability	Resists wear, tear and environmental degradation
Tooling	In-house mould workshop, design and manufacture
Applications	Automotive and other high-performance uses

Bushings and Shock Absorbers

Shock Absorber Bushings · Bonded rubber to metal

Automotive shock absorbers, bushings and shocker bushes produced with an in-house machining workshop and coating workshop. Metal parts are machined and coated on site, then rubber is moulded onto them, which is what makes a bonded rubber-to-metal component rather than an assembled one. The bushes resist wear and tear, keeping the vehicle's suspension system working as designed.

Specification

Products	Automotive shock absorbers, bushings, shocker bushes
Metal Processing	In-house machining workshop
Surface Treatment	In-house coating workshop
Construction	Rubber moulded onto machined metal parts
Durability	Resistant to wear and tear
Function	Maintaining vehicle suspension system condition

Plant Utility Equipment

Boilers, cooling towers, air compressors and chillers sized to the process they serve.

Boiler

HTK-GL-01 · Electrical or steam heating

A boiler built to the working capacity you specify, in electrical heating or steam heating types, for beer, beverage, soft drinks, fruit juice, pure water, mineral water, dairy and seasoning plants. Minimum order is one unit and monthly production capacity is 20 units, so a single machine for a line extension is a normal order rather than an exception.

Specification

Product Model	HTK-GL-01
Working Capacity	Customised to requirement
Type	Electrical heating type, steam heating type
Minimum Order	One unit
Production Capacity	20 units per month
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning

Cooling Tower

HTK-LQT-01 · Round or square type

A cooling tower in two configurations, circular flow inverse (round type) and square transverse, with working capacity built to your requirement. It serves beer, beverage, soft drink, fruit juice, pure water, mineral water, dairy and seasoning plants, rejecting the process heat that pasteurisers, chillers and compressors generate. Minimum order is one unit with a monthly production capacity of 20 units.

Specification

Product Model	HTK-LQT-01
Working Capacity	Customised to requirement
Type	Circular flow inverse (round type); square transverse
Minimum Order	One unit
Production Capacity	20 units per month
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning

Air Compressor

HTK-KYJ-01 · Oil free screw or frequency converter

An air compressor for food and beverage production, available as an oil free screw compressor or a frequency converter compressor, with working capacity built to requirement. Oil free matters wherever compressed air contacts product or packaging, and the frequency converter type matches output to demand instead of running unloaded. Minimum order is one unit with 20 units produced per month.

Specification

Product Model	HTK-KYJ-01
Working Capacity	Customised to requirement
Type	Oil free screw air compressor; frequency converter air compressor
Minimum Order	One unit
Production Capacity	20 units per month
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning

Chilling Unit

HTK-C-01 · Air cooled or water cooled

A chilling unit in air cooled or water cooled types, with working capacity built to your requirement, for beer, beverage, soft drink, fruit juice, pure water, mineral water, dairy and seasoning production. The choice between the two types is normally decided by whether cooling water is available on site and by the local ambient conditions. Minimum order is one unit and monthly production capacity is 20 units.

Specification

Product Model	HTK-C-01
Working Capacity	Customised to requirement
Type	Air cooler type chilling unit; water cooler type chilling unit
Minimum Order	One unit
Production Capacity	20 units per month
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning

Copper Foil and Strip

C1100 oxygen-free electrolytic copper at 99% IACS for transformer windings.

Copper Strip for Transformers

C1100 · Oxygen-free electrolytic copper

C1100 copper strip for transformers, 0.2 to 3.0 mm thick and 50 to 1350 mm wide, on inner diameters of 300, 400 or 500 mm or customised. Copper content is 99% or higher, conductivity 99% IACS or better and tensile strength above 193 MPa. The material is oxygen-free electrolytic copper with oxygen content below 0.02% and purity of 99.95% or higher, and the product complies with IEC, BIS and ASTM standards.

Specification

Alloy	C1100
Material	Oxygen-free electrolytic copper
Oxygen Content	Below 0.02%
Purity	99.95% or higher
Thickness	0.2-3.0 mm
Width	50-1350 mm
Inner Diameter	300 / 400 / 500 mm or customised
Copper Content	99% or higher
Conductivity	99% IACS or better
Tensile Strength	Above 193 MPa
Standards	IEC, BIS, ASTM

Copper Foil

C1100 Foil · Oxygen-free electrolytic copper

C1100 copper foil for transformer windings, 0.2 to 3.0 mm thick and 50 to 1350 mm wide, on inner diameters of 300, 400 or 500 mm or customised. Copper content is 99% or higher, conductivity 99% IACS or better and tensile strength above 193 MPa. The material is oxygen-free electrolytic copper with oxygen below 0.02% and purity of 99.95% or higher, and it complies with American, European, German and Japanese standards. Supply covers transformer manufacturing, assembly, maintenance and repair.

Specification

Alloy	C1100
Material	Oxygen-free electrolytic copper
Oxygen Content	Below 0.02%
Purity	99.95% or higher
Thickness	0.2-3.0 mm
Width	50-1350 mm
Inner Diameter	300 / 400 / 500 mm or customised
Copper Content	99% or higher
Conductivity	99% IACS or better
Tensile Strength	Above 193 MPa
Standards	American, European, German and Japanese

Power Tools And Custom Tooling

Catalogue tools and custom-designed power tools from a team with 15 years in the industry.

Power Tools

Power Tool Range · Specification to be confirmed

A range of power tools supplied alongside the custom power tool design and processing service. The original product listing carried no published specification, so voltage, power rating, chuck capacity and certification are confirmed per enquiry rather than stated here. Send the tool type and the market you are supplying into and a specification sheet is issued with the quotation.

Specification

Product Range	Power tools
Specification	TBC, confirmed per enquiry
Certification	TBC, confirmed against destination market
Customisation	Custom design and processing available

Electric Drills and Custom Power Tools

Custom Power Tools · Custom design and processing

Electric drills and custom-made power tools, designed and processed by a technical design team whose power tool designers have more than 15 years of experience in the industry. The service covers both the design of the tool and its manufacture, which means a tool can be developed from a specification rather than selected from a catalogue.

Specification

Products	Electric drills and custom power tools
Services	Custom-made power tool design and processing
Design Experience	More than 15 years in the power tool industry
Build Type	Custom to client specification

Aluminium Foil and Strip

1050 1060 and 1070 alloys at 63% IACS for lighter transformer windings.

Aluminium Foil for Transformer

1050 / 1060 / 1070 · Content 99.6% minimum

Aluminium foil and strip for transformer windings in alloys 1050, 1060 and 1070, from 0.2 to 3.00 mm thick and 20 to 1500 mm wide, on inner diameters of 150, 200, 300, 400 or 500 mm or customised. Aluminium content is 99.6% or higher, conductivity 63% IACS or better and tensile strength above 74 MPa. Thickness is specified to the transformer design, and commonly used thicknesses range from 0.2 mm to 3 mm.

Specification

Alloy	1050 / 1060 / 1070
Thickness	0.2-3.00 mm
Width	20-1500 mm
Inner Diameter	150 / 200 / 300 / 400 / 500 mm or customised
Aluminium Content	99.6% or higher
Conductivity	63% IACS or better
Tensile Strength	Above 74 MPa
Application	Transformer foil windings

Enamelled Wire

Magnet wire in copper or aluminium with enamel or polyurethane insulation.

Enameled Wire

Magnet Wire · Flat and round

Enameled wire, also known as magnet wire or winding wire, made by coating a thin insulation layer of enamel or polyurethane over a copper or aluminium conductor. The coating provides the electrical insulation that prevents short circuits between adjacent turns. Flat conductor thickness runs from 0.8 to 5.6 mm and width from 2.00 to 16.00 mm, at a width-to-thickness ratio of 1.4:1, with 130 polyester enameled wire among the categories supplied. Conductors can be solid or stranded.

Specification

Also Known As	Magnet wire, winding wire
Conductor Material	Copper or aluminium
Insulation Material	Enamel or polyurethane
Conductor Thickness	0.8 to 5.6 mm
Conductor Width	2.00 to 16.00 mm
Width Ratio	1.4:1
Flexibility	Solid or stranded
Product Category	130 polyester enameled wires among others

Silicon Steel

Cold rolled electrical steel under 2 mm in grain oriented and non-oriented grades.

Silicon Steel for Transformer

Electrical Steel · Grain oriented and non-oriented

Silicon steel, also called electrical steel, is a silicon-bearing steel with magnetic properties that create a hysteresis region, increase permeability and reduce core losses. It is a soft magnetic alloy used throughout electrical engineering. For transformers it is cold rolled and typically less than 2 mm thick, and multiple pieces are pressed into stacks known as silicon steel sheets for use in transformer and motor stator and rotor cores. After stacking, the steel is cut and shaped using a dimple die, laser or EDM process. Two main categories are supplied: grain oriented and non-oriented.

Specification

Also Known As	Electrical steel
Material	Silicon-bearing soft magnetic alloy
Categories	Grain oriented and non-oriented
Form	Cold rolled
Thickness	Typically less than 2 mm
Magnetic Properties	Hysteresis region, increased permeability, reduced core losses
Shaping Processes	Dimple die, laser, EDM
Applications	Transformer cores, motor stator and rotor cores

CBCT Imaging Systems

Four-in-one CBCT panoramic cephalometric and model scanning with a 3 year warranty.

Carejoy CBCT

4-in-1 CBCT System · 3 year warranty

A 4-in-1 dental imaging system covering CBCT, panoramic, cephalometric, wrist and model scanning from one unit. The field of view is adjustable from 5 cm x 5 cm to 16 cm x 17 cm in 1 cm increments so the scan matches the treatment plan rather than exposing more than needed. Panoramic imaging uses tomosynthesis multi-trail technology gathering data from multiple angles, and the scanner delivers full HD colour output with 5 µm precision and 10 µm accuracy. Warranty is 3 years.

Specification

Usage	Implant, orthodontic, restoration
Scanning Modes	CBCT, panoramic, cephalometric, wrist, model
Field of View	5 cm x 5 cm to 16 cm x 17 cm in 1 cm increments
Panoramic Imaging	Tomosynthesis multi-trail technology
Scan Field	18 x 16 mm
Scan Depth	20 µm
Precision	5 µm
Accuracy	10 µm
Colour Output	Full HD, true colour
Full Jaw Scanning Time	1-2 minutes
Handpiece Weight	228 g
Tip Types	3 types
Autoclave Cycle for Tips	30-50 minutes
Anti-Fog System	Intelligent heating
Warranty	3 years
Minimum Order	1 piece or set
Payment Methods	TT, bank transfer, Western Union

Dental Chairs

Complete treatment units with a noiseless 24V motor and 9 memory positions.

Dental Chair

Dental Treatment Unit · AC 220V/50Hz or 110V/60Hz

A complete dental treatment unit with a 24V DC noiseless chair motor, three or nine memory positions and a luxury multifunction foot controller. It runs on AC 220V/50Hz or 110V/60Hz, takes a water pressure of 0.2-0.4 MPa and an air pressure of 0.55-0.8 MPa with air output above 55 L/min, and is supplied with two high speed handpiece tubes, one low speed tube and two three-way syringes for cold and hot water. Unit dimensions are 142 cm x 110 cm x 120 cm, with 16 pieces per 20-foot container and 32 pieces per 40HQ.

Specification

Power / Voltage	AC 220V/50Hz or 110V/60Hz
Water Pressure	0.2-0.4 MPa (2.0-4.0 bar)
Air Pressure	0.55-0.8 MPa (5.5-8.0 bar)
Air Output Volume	More than 55 L/min
High Speed Handpiece Tube	2 pcs
Low Speed Handpiece Tube	1 pc
3-Way Syringe	2 pcs, cold and hot
Rotatable Spittoon	90 degree ceramic or glass
Memory Programs	3 or 9 memory positions
Foot Controller	Luxury multifunction foot controller
Water Purification System	Built-in or built-out
Cushioning	Microfiber or PU leather with armrests
Chair Motor	24V DC noiseless motor
Dimensions	142 cm x 110 cm x 120 cm
Container Capacity	16 pcs per 20-foot, 32 pcs per 40HQ
Minimum Order	1 piece; customised logo from 3 sets
Payment	TT, bank transfer, Alibaba, Western Union

Dental Microscopes

3.6X to 23X zoom with 4K recording and illumination above 80,000 lux.

Dental Microscope

4K Dental Operating Microscope · 3.6X-23X zoom

A dental operating microscope with 4K recording at 30fps on a Sony image sensor and static images up to 12MP (4000 x 3000). Magnification is 3.6X to 23X with 12.5X eyepieces at an 18 mm aperture and a 250 mm focal length, with 200 mm and 400 mm objective lens options. LED illumination exceeds 80,000 lux at 6500K with an 85 mm spot, and yellow (CB550) and green filters are fitted. It stands on a mobile base, weighs 125 kg and measures 1250 mm x 1080 mm x 470 mm.

Specification

Video Recording	4K Ultra HD, 30fps, Sony image sensor
Static Image Resolution	Up to 12MP (4000 x 3000)
Control Methods	Mobile app, wireless remote, tablet, PC
Storage	TF card up to 128GB
Wireless Data Transfer	Download to PC via wireless connection
Live Streaming	Supported with additional live broadcast module
Eyepieces	12.5X, aperture 18 mm
Binoculars	0-210 degree adjustable inclination
Magnification	3.6X-23X zoom, 250 mm focal length
Objective Lens	200-400 mm options
LED Illumination	Variable brightness, more than 80,000 lux
Spot Size	85 mm diameter
Light Filters	Yellow (CB550) and green
Colour Temperature	6500K natural light
Swing Arm	460 mm radius, 360 degree rotation
Microscope Arm	700 mm radius, plus or minus 315 mm up and down motion
Voltage	AC100-250V, 50/60Hz
Power Consumption	Max 70VA, light source 20VA
Weight	125 kg
Dimensions	1250 mm x 1080 mm x 470 mm
Support System	Standard mobile base

Dental Milling Machines

Five-axis milling of zirconia wax PMMA and PEEK at 30,000 RPM.

Dental Milling Machine

DTR-55 · 5-axis

The DTR-55 is a 5-axis dental milling machine for dental laboratories. Simultaneous multi-axis milling produces detailed and intricate restoration geometry, and the machine processes zirconia, wax, PMMA, PEEK and other materials for crowns, bridges, implants and dentures. Spindle speed reaches 30,000 RPM, an efficient tool-changing system limits downtime, and a touchscreen display with one-click automatic calibration keeps setup simple.

Specification

Model	DTR-55
Axes	5-axis simultaneous milling
Materials	Zirconia, wax, PMMA, PEEK and more
Restorations	Crowns, bridges, implants, dentures
Spindle Speed	Up to 30,000 RPM
Tool Changing	Automatic tool-changing system
Interface	Integrated touchscreen display
Calibration	One-click automatic calibration
Weight	87 kg
Depth	628.5 mm

Contact

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