

www.intrumentumgoup.com

INTRUMENTUM GROUP

TOP-NOTCH INDUSTRIAL EQUIPMENT SUPPLIER
TOP-NOTCH INDUSTRIAL EQUIPMENT SUPPLIER

Your Industrial Solutions Partner!





- Competitive Pricing
- Efficient Sourcing
- Widest Product Range
- Fast and Best in Time Delivery



OVERVIEW

Instrumentum Group was established in 2014 by experienced engineers and experienced sales teams with various industries background that includes process instrumentation & Control, valves, pipe & fittings, warehouse solutions, renewable energy, medical devices, commodities and supplies chain management. We aimed to maintain long-term commercial relationships with our customers, who value our reputation and market knowledge. Integrity is the first and foremost criteria that form the basis of our business at Instrumentum. We have a strong commitment to meet our customer needs and application while promoting business practices that respect our employees, our customers, our suppliers and the environment.

Instrumentum group is capable of delivering wide range of solutions for our customers under one window. We work with the best niche manufacturer's to provide quality products with economical prices and expedited delivery, by which customer can fulfill their requirement on time. We are prepared to assist customer in every inquiry whether it's for single equipment or a large project that requires multiple services. Not only we can provide equipment, but also we have the capability to provide the technical consultation on selecting the right equipment and efficient design.

Best Quality Service...

Our professional team is enthusiastic to provide the highest quality of services in this very competitive industry. We maintain high international standards to fulfil the requirement of all our customer needs around the globe. Our main objective is to utilize our sales, technical & sourcing experts to select and source the customer's requirement from our principals or manufacturer to fulfill their application with quality products at economical prices on defined lead time.



Highlights of our Services

Process Measuring/Control/Calibration
Instruments Valves, Actuators, Pipe & Fittings Design control and measuring process loop Design total logistic solution system Warehouse Racking and MHE's

Renewable Energy & Explosive LED Medical Devices
Build & Design Customized Process Equipment
Marketing & Display Product.





Our logistics team can swiftly arrange to deliver spare parts or equipment with fast delivery around the world.



Petrochemical
Power Generation
Oil & Gas
FERTILIZER Precision
Engineering
Pharmaceutical **NUCLEAR**

HIGH QUALITY PROCESS & CALIBRATION INSTRUMENTS

We can supply high quality instruments for a wide range of applications and processes. Whether you need a special or a custom product, we have the product range and expertise to provide the perfect instrument to suit your individual requirements.



Pressure

Digital Pressure Gauge
High Pressure Gauges
Low Pressure Gauges
Differential Pressure Gauges
Industrial Pressure Gauges
Process Gauges
Harsh Environment Gauges
Low Cost Utility Gauges
Smart Pressure Transmitters
Differential Pressure Transmitter
Digital Pressure calibrator
Dead weight Testers & comparator

Temperature

Thermometers
Thermowells
Filled System Thermometers
Gas, Vapor, or Mercury
Glass Thermometer
Temperature Switches
Thermocouples & RTDS
Temperature Transmitters
Dry Bath Temperature Calibrator
Liquid Calibrator
Water Bath
Signal Calibrator & Simulator

Level

Point Level Switch
Multi-Point Level Switch
Continuous Mechanical Level Gauge
Ultrasonic Continuous Level Measuring System
Level Transmitter

Flow

Electro Magnetic Flow meters
Vortex Flow Meter
Mass Flow Meter & Controllers
Thermal Mass Flow Meters
Oval Gear Meters
Variable Area Flow Meters
Portable Ultrasonic Flow Meter
Flow Computers
Flow Controller and Recorder
Flow Calibrator

Recorders

Circular Chart Recorders
Z fold chart recorder
Paperless recorders
Chart Papers & -
Pens for all types of recorder

Industrial Automation

Sensing Components
Switches
Safety Components
Relays
Control Components
Power Supplies
Programmable Logic Controllers
PID Controller
Human Machine Interface
Components of a -
Telecommunication System



We source and supply a complete line of field-proven instruments and assemblies for measuring pressure, temperature, level and flow across all liquid and gas applications as well as Calibration systems including custody transfer, check stations, control loops, batching and more. Handle the toughest conditions, analytical challenges or maintain the utmost precision across your operation with high-quality measurement and instrumentation devices from the leading manufacturers, including gauges, transmitters, recorders, Plc, DCS and more to maximize the performance, profitability and safety of your application.





Quality Products • Competitive
Price • On-Time Delivery

We are a leading sourcing
expert of manual and automated valves
to the energy & industrial sector



Your best source for industrial valvActuators & Positioners

We are leading supplier of energy and industrial solutions, products and spares through our global networking. we can supply and source high quality industrial valves ,from light industrial services to severe services. Whether you need a special or a custom product, we have the product range and expertise to provide the perfect solution to suit your process and application.



Valves and Actuators Solutions

Globe Valve

Globe valve range covers OS&Y, Z-type, Y-type or angle-construction type
Certificate of Compliance: API 602, ASME B16.34, ASTM, ANSI, EN, DIN, BS.
Materials: forged and cast steel or alloys.
Construction: screwed bonnet, bolted bonnet, pressure-seal bonnet
Size: 1/2" up to 36" Class rating: ASME 150# to 2500# (PN, API and other Pressure Class Valves available)

Ball Valves

Ball valve range covers Floating Ball & Trunnion Ball Valves
Certificate of Compliance: API 6D, ASTM, ANSI, ASME, EN, DIN, BS, CSA
Materials: CS, SS, Duplex & Super Duplex Steel and Special Alloys
Construction: Full or reduced port design
Size: 1/2" up to 12" Class rating: ASME 150# to 2500# Floating
Size: 1/2" up to 36" Class rating: ASME 150# to 2500# Trunnion (PN, API and other Pressure Class Valves available)

Plug Vlave

Plug valve range covers short pattern, regular pattern, Venturi pattern, round port and jacketed type
Certificate of Compliance: API 6D, API 599, ASME B16.34, ASTM, ANSI, EN, DIN, BS, CSA
Materials: CS, SS, Duplex & Super Duplex Steel, Iron and Special Alloys
Construction: bolted bonnet, one-two or three pieces
Size: 1/2" up to 24" Class rating: ASME 150# to 2500# (PN, API and other Pressure Class Valves available)

Gate Valve

Gate valve: Forged Steel & Cast Steel
Certificate of Compliance: API 600, API 602 ASTM, ANSI, ASME, EN, DIN, BS, CSA
Materials: Carbon Steel, Stainless Steel, Duplex & Super Duplex Steel, Iron and Special Alloys.
Obturator: Solid wedge & Operator: manual – Handwheel.
Size: 3/8" up to 2" FSGV & Size: 2" up to 42" CSGV Class rating: ASME 150# to 2500# (PN, API and other Pressure Class Valves available)

Check Valve

Check valve Forged or Cast Steel & Alloys by split disc, swing, piston, ball, needle, nozzle construction type.
Certificate of Compliance: API 594, API 602 ASTM, ANSI, ASME, EN, DIN, BS, CSA
Materials: Carbon Steel, Stainless Steel, Duplex & Super Duplex Steel, Iron and Special Alloys.
Size: 3/8" up to 36" Class rating: ASME 150# to 2500# (PN, API and other Pressure Class Valves available)

Butterfly valve

Butterfly valve range covers Concentric, Zero Offset, Double Offset and Triple Offset type
Certificate of Compliance: API 609, ASME B16.34, ASTM, ANSI, EN, DIN, BS, CSA
Materials: Carbon Steel, Stainless Steel, Duplex & Super Duplex Steel, Iron and Special Alloys.
Size: 2" up to 60" Class rating: ASME 150# to 2500# (PN, API and other Pressure Class Valves available)



We pride ourselves in supplying cost-effective solutions through our world renowned manufacturer for your onshore and offshore projects .Our sourcing experts support & sold to upstream projects, midstream, downstream, transmission and maintenance, repair & operating (“MRO”) consumables used in day-to-day production. We provide & source industrial valves for petroleum refining, chemical processing, LNG terminals, power generation utilities, fertilizers, industrial manufacturing plants.





Our employees know our range of products very well. They will be at your disposal with words and deeds. We always rely on the highest quality standards in advice and work processes.

Petrochemical

Power Generation

Oil & Gas

FERTILIZER

Precision

Engineering

Pharmaceutical

NUCLEAR

TOTAL PIPING & STRUCTURAL SOLUTIONS PROVIDER

We supply high quality of piping & structural solution for the oil & gas, petrochemical, fertilizer, and other industries through our reliable and quality certified manufacturer/supplier at the most competitive price and delivery. Our experienced teams of engineers adhere to Quality Management System procedures strictly and constantly strive to meet our client's evolving needs for high-end precise solution. We ensure that the finest quality of products as per required standards API, ASTM, ASME, EN, DIN will be delivered to you in the shortest time possible. We provides pipes & tubes for the equipment involved in the production of Urea, Ammonia, Nitric acid, Sulphuric acid, Phosphoric acid, Petrochemical and Melamine as well as for subsea application



Pipe

- Carbon Steel
- Welded Steel(ERW, HFI, LSAW)
- Seamless Steel
- OCTG
- Low Temperature Steel
- Alloy Steel
- High Yield Strength
- Stainless Steel
- Duplex & Super Duplex Steel
- Surface Finished

Fittings

- Butt weld f-Socket weld - Thread fittings
Material:SS-CS-Alloy
- Elbow
 - Tee
 - Reducer
 - Returns
 - Cross
 - Caps
 - Pipe Bend
 - Lap Joint (stub Ends)
 - Pipe -Outlets
 - Pipe Nipple
 - Coupling & Union
 - Fasteners

Flanges

- Material: SS-CS-Alloy
Facing:RF/FM/M/ TG/RF/FF/RTJ
Pressure Class: Class150-Class2500
Size: 1/2"-60" (DN15-DN3000)
- Socket Weld
 - Slip On
 - Blind
 - Screwed
 - Ring Joint,
 - Weld Neck
 - Long Weld Neck
 - Reducing
 - Spectacle

Plates

- Austenitic
- High machinability
- Super Austenitic
- Heat resistant
- Duplex
- Nickel alloys
- Ferritics: 410S
- Martensitics
- Alloy
- Carbon steel
- Mild Steel Plate Grade

Special Alloy

- We offer the pipe, fittings and plates in Special Alloy
- Nickel Alloy
 - Copper
 - Titanium
 - Aluminum
 - Duplex & Super Duplex
 - UREA Grade
 - Copper-Nickel
 - Brass
 - Magnesium
 - Super Alloys
 - Armour Steel

Steel Structure

- We offer the structural material in SS/CS
- Beam
 - Square Bar
 - Channel
 - Lip
 - Pipe
 - Angle
 - Flat Bar
 - T Bar
 - Rectangular Tube
 - Square Tube
 - Rod



STEEL PIPES & FLANGES

RECOGNIZED SKILLS:

- STAINLESS STEEL PIPES
- STAINLESS STEEL PLATES
- PIPE FITTINGS
- FLANGES
- BOLTS & NUTS

Instrumentum Group is pleased to sell products from the manufacturing of Stainless Steel, Alloy steel and Carbon Steel products with a variety of pipe, tube, beam, structural steel, for domestic and international market. The steel pipes and flanges are used in many industries ranging from petroleum and gas pipeline, water pipeline, building construction, paper mill, medical, health-care and public facilities, etc. The manufacturer of Instrumentum Group is equipped with domestic and international production and inspection facilities. Their main goal is to strictly follow the ISO quality management system, as well as the country standards and regulation under the leadership of professional engineers and production team. Instrumentum Group is capable of exporting to regions such as USA, Brazil, Germany, UK, Arab, Japan, Korea, Malaysia and Russia, etc. Our manufacturer always insist on the principle of Credit-Based, Customer First, High Quality, High efficiency, pursuing 100% customer satisfaction.

The manufacturer is one of the professional trader, which specializes in the stainless steel plate and pipes with grades of **304L, 321, 310S, 316L, 316Ti, 317L, 347H, 904L, 2205, 2304, 2101, 2507, S31803, 800H, 600, and special material on request.**

Main Products Range:

SS SMLS Steel Pipe: OD 0.06 - 32 inch (1.6-820mm)

CS SMLS Steel Pipe: OD 1/2 - 26 inch (21.3-660mm)

ERW Steel Pipe: OD 1/2 - 32 inch (21.3-820mm)

SSAW Steel Pipe: OD 8 - 120 inch (219.1-3048mm)

LSAW Steel Pipe: OD 14 - 64 inch (219.1-1626mm)

SS Plate/Sheet/Coil/Strip: WT 0.3mm to 110mm, CR/GI/GL/PPGI/PPGL



GIANT STEEL PIPES

PROFESSIONAL STEEL PIPE MANUFACTURING

RECOGNIZED SKILLS:

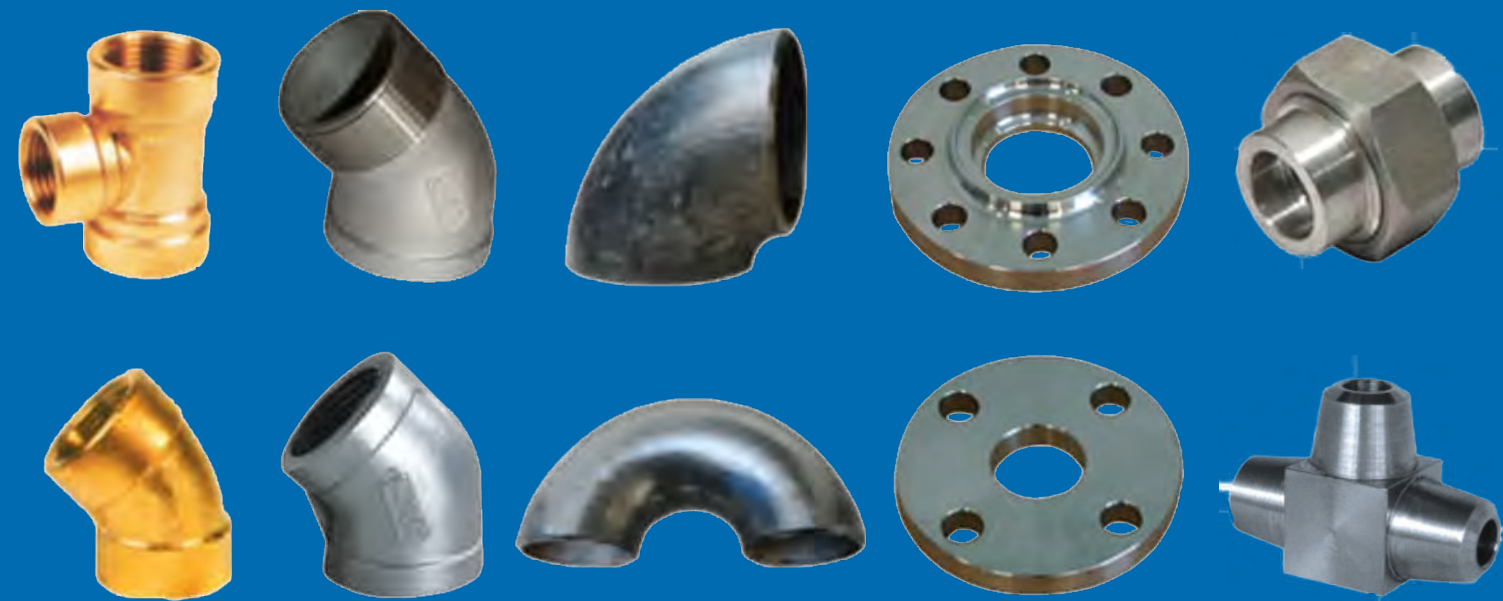
- SSAW STEEL PIPES
- LSAW STEEL PIPES
- ERW STEEL PIPES
- SEAMLESS STEEL PIPES

The affiliated manufacturer of Instrumentum Group is dedicated to provide superior quality of pipes through their continuous research in the areas of pipe engineering. They are the pioneers of China Petroleum Pipeline as well as Gas Pipeline Science Research Institute for the ongoing research and development. In addition, they strictly adhere to international standards, such as ISO certification, CE certification. Furthermore, the manufacturer is capable of offering value-added steel services, which includes hot dip galvanized, anti-corrosion treatment, pipe cutting, or other customized services.

The Giant pipe manufacturer have products that includes the following types of pipes with full range of specifications:

Seamless Steel Pipe, Structural Tube, Fluid Pipe, Boiler Pipe, Carbon Steel Pipe, ERW Steel Pipe, SSAW Steel Pipe, LSAW Steel Pipe, Oil Pipeline, Gas Pipeline, Casing and Tubing, Rectangular and Square Pipe, and Steel Water Pipes.





PIPES, FITTINGS & FLANGES

RECOGNIZED SKILLS:

- PIPES
- STRUCTURAL STEEL
- PIPE FITTINGS
- FLANGES
- GASKETS

In the area of Pipes, Flanges, Pipe Fittings, Fasteners, Gaskets and other spare parts for industrial use, Instrumentum Group is proud to represent XL Industries that manufactures such parts in more than 50 product types available in over 400 sizes and 20 materials. XL Industries is based in Xiamen, China, and they have been in the manufacturing business since 1994 and their operations are ISO 9001:2008 certified.

There is no doubt that XL industries have quality and durable hardware that can stand up under the most rigorous of applications, and their products are API and CE (TUV) certified. XL industries customers include Shell, PDO, QP and KOC. In addition to oilrig hardware, XL industries also offer products for the gas, refined chemicals, pharmaceuticals and papermaking industries.

THE EQUIPMENT/HARDWARE MANUFACTURED BY LANDEE INDUSTRIES INCLUDES:

PIPES: Alloy Steel Pipes, Carbon Steel Pipe, Ductile Iron Pipe, OCTG Steel Pipe, Pipe Tools, Stainless Steel Pipe, Seamless Steel Pipe, and Steel Bar

FLANGES: Blind Flanges, Lap Joint Flanges, Orifice Flanges, Spacer Ring/Spade Flanges, Slip-on Flanges, Socket Weld Flanges, Weld Neck Flanges, and Custom Flanges.

PIPE FITTINGS: Bends, Caps, Couplings, Elbows, Olets, Reducers, Stub Ends, Tees, and Custom Pipe Fittings.



PIPE FITTINGS

RECOGNIZED SKILLS:

- SANITARY FITTINGS
- BUTTED WELD FITTINGS
- SOCKET WELD FITTINGS
- GROOVED FITTINGS
- FLANGES

Instrumentum Group is privileged to represent another well-known global supplier from China which manufactures and specializes in pipeline fittings. Their products range includes industrial pipe fittings to sanitary, as well as SAE standard fitting that can be produced with the materials such as carbon steel, stainless steel, alloy steel, and custom products on request.

Their fittings follows stringent quality control norms in order to ensure international standards of quality as they are ISO 9001 and ISO 9002 certified.

The products include the following: *Elbow, Tee, Reducers, Caps, Bends, Lap Joints, Weldolet, Nipple, Couple, etc.*





Dynamic in stainless

RECOGNIZED SKILLS:

- STEEL PIPES & FITTINGS
- FOOD, DAIRY & INDUSTRIAL
- MACHINING AND PICKLING
- FLANGES

The European/American manufacturer provides excellent value with fast, efficient, reliable, safe and complete deliveries for projects, maintenance and day-to-day business. The customers include the petrochemical industry, food and dairy industry, process equipment, ship building and on and offshore plants.

Material grades from stock include 304/304L, 316/316L, (Super)Duplex and various Nickel Alloys.

PRODUCTS

- Welded and Seamless Tube
- Hollow bar
- Steel and Stainless Steel Flanges
- Pipe Fittings & Threaded Fittings
- Steel and Stainless Steel Fasteners
- Valves (Gate, Globe, Check & Ball)
- Clips
- Sealings

MECHANICAL OPERATIONS

- Machining and bevelling of fittings
- Producing and machining of flanges
- Cutting up to and including outside diameter \varnothing 800mm
- Pickling in our own environment-friendly production hall.
- Grinding stainless steel pipes (OD up to and including \varnothing 100mm) to finish G240.
- Manufacturer of flanges, mechanical machining of fittings and client specific products.
- Technical support and service based on years of experience.

QUALITY STANDARD & CERTIFICATION

- ISO 9001:2008
- AD 2000-Merkblatt W0
- PED 97/23/EC certified for flanges
- ASTM, EN and ISO
- TÜV Rheinland stamp authority



EUROPEAN SPECIAL FITTINGS

RECOGNIZED SKILLS:

- PETRO-CHEMICAL & UREA PIPE FITTINGS
- SPECTABLE BLINDS
- DRIP RINGS

Our European Manufacturer is one of the most experienced manufacturer of Special Fittings for Pipelines, Petro-Chemical and Urea plants since 1954. They are known for machining special materials, such as Monel, Incoloy, Inconel, Hastelloy, Cupro-nickel, Titanium, Duplex, Modified S.S. and others.

OIL AND GAS PRODUCTS

- Spectable Blind
- Ring Spacer
- Paddle Blind
- Drip Ring
- Branch Connectors
- Gaskets
- Flanges
- Special Fittings

LMP manufactures components for the Oil & Gas plants and pipelines in all type of commonly used materials.

UREA PRODUCTS

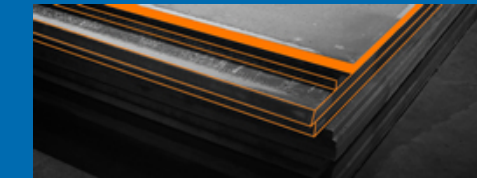
- Carbamate Mixer
- Urea Fittings



The plants manufacturing Urea have severe corrosion problems due to the ammonium carbamate, as a result carbon steel and normal stainless steel cannot be used. Therefore, some parts of the process are manufactured with the use of special alloys to avoid corrosion.

SPECIAL PRODUCTS

- Cushion Tee
- Orifice Plates
- Injection Quills
- Cladding, Lining & Weld Overlay
- Anchor Flanges
- Welded Assembly
- Dismounting Joint
- Ejectors



STAINLESS STEEL PLATES & PLATE PROCESSINGS

RECOGNIZED SKILLS:

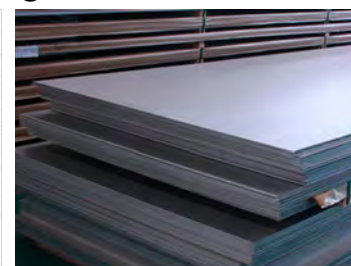
- STAINLESS STEEL PLATES
- DUPLEX STAINLESS STEEL PLATES
- NICKEL ALOY PLATES
- COBALT-RESTRICTED STAINLESS STEEL PLATES

Instrumentum Group is capable of fulfilling the demands of stainless steel nickel alloy plates from the major Steel and Alloy manufacturers based in USA, Europe and Asia. The wide range of industries that Instrumentum Group supplies plates to are Oil/Gas and Petrochemical Industries covering 24 grades and 35 thicknesses, we can satisfy the most demanding and hard-to-find requirements.

Whether your requirement is for 3mm or 150mm thick or 3mm increments in between, we can provide you with the shape or configuration you need. And you can count on us to ship your order when promised, whether you need it tomorrow, next week, or next month. The following are the type of steel plates Instrumentum Group is capable of supplying to our customers:

- Standard plates include 304, 304L, and 316L plate
- Heat resisting and corrosion resisting grades in the 300 series
- Full line of duplex stainless grades, as well as 410 and 17-4PH

Instrumentum Group can supply cutting to size steel plates in custom shapes and sizes using the state of the art cutting systems which includes: **Plasma Cutting, Nitrogen Plasma Cutting, Saw Cutting, Laser Cutting, and Water Jet Cutting.**



STRUCTURAL MATERIAL

RECOGNIZED SKILLS:

- Floor Gratings
- Angle Bars
- Flat Bars
- Channels
- Hollow Section
- Square/Round Bars
- Plates
- Universal Beams

Instrumentum Group is capable of fulfilling the demands of stainless steel and Carbon steel structural solutions from the major manufacturers based in USA, Europe and Asia. The wide range of industries that Instrumentum Group supplies structural material to are general industries, from shipyards to engineering firms to construction companies..





Our expert engineering team committed to provide excellent design, fabrication, installation & ensure that you get the most efficient and cost-effective design

We supply Wide range of process equipment to meet industrial applications



Customize Engineering Solution Providers for your Industry

We are leading engineering company specialized in the supply of ASME 'U', 'S', 'H' & National Board 'R' Stamp Holder Technology Driven Equipment. We can carry out design, engineering, fabrication, installation and start-up of Process equipment like Heat Exchangers, Fired Heaters, Pressure Vessels, Economiser, Boiler & Heater, Finned Tubes, etc. for a wide range of applications in the Oil & Gas, Petrochemical Fertilizers, Power Plants, Pharmaceutical Industries etc. Process design, base and detailed engineering are executed by our team of experienced engineers, which take advantage from the use of the most advanced calculations and design software, which makes our company a recognized leader in providing the most sophisticated solutions to the Clients.



Build and Design Custom-made Process Equipments...

- Heat Exchanger
- Economizer
- Pressure Vessel
- Boiler & Heater
- Dryers and Spray cooling Plat
- Flue Gas Cooler
- Shot Cleaning System
- Fired Heaters
- Steam Reformers
- Heat Transfer Equipment for Refineries and Petrochemical
- Finned Tubes

Heat Exchangers

Design.

Efficiency .

Quality.

We make it Happens.



Solution Provider for Heat Transfer System

We provide Custom-designed and built shell & tube heat exchangers such as Oil-to-Oil Economizer, Steam Condenser and Cooler. We also offer a variety of heat exchanger types include Air-Cooled Heat Exchanger and high-efficiency heat exchangers such as Corrugated/ Spiral Tube Heat Exchanger and Welded Plate Heat Exchanger. Our Heat Exchangers are designed and built according to major International Codes and Standards, such as ASME, PED TEMA and API.

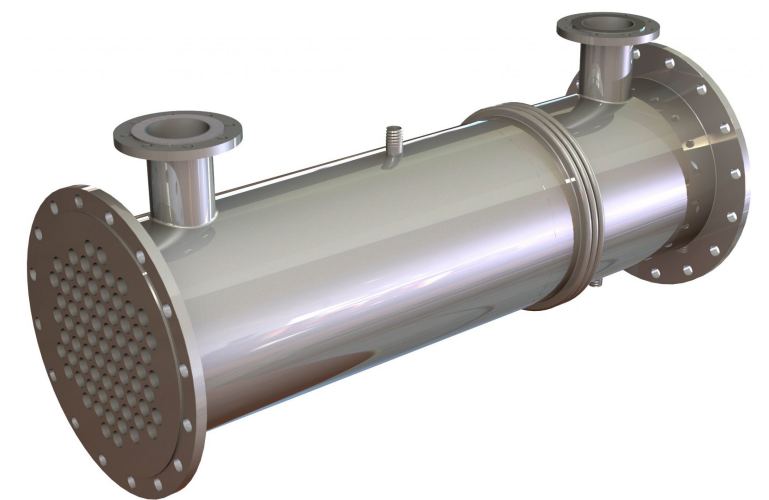
Our Manufacturer

ASME “U”, “H”, “S” & “R” Stamps Holder



We specialize in

- Shell & Tube Hx
- Air preheater / Cooler
- Plate & Shell Hx
- Fin Plate Cooler
- Spiral Hx
- Dimpled Plate Hx
- Steam Condenser



Wide range of Heat Exchangers to meet industrial applications

- Oil & Gas
- Petrochemical Industry
- Food Processing
- Wastewater Treatment
- Fertilizers
- Distillery
- General Industry



Boilers & Heaters



We supply Industry Boilers those are safe to use with easier operation to achieve maximum efficiency. We offer a package of Clean Steam Generator system include feed pump, feed tank, deaerator and water treatment. Our chimneys are manufactured to comply with British Clean Air Act.

We specialize in

- HRSG-Heat Reclaimed Steam Generators
- Clean Steam Generators
- Electric Steam Boilers & Heaters
- Thermal Oil Heaters
- Imported High Pressure Boilers for Power Plant
- Hot water boilers
- Electrical Steam Boiler



Pressure Vessels

Our manufacturer is one of the market leaders in fabrication of pressure vessels & they manufacture a wide range of process equipment such as Column, Fermenter, Reactor and Hot Water Tanks. We provide design and manufacturing service to serve food, petrochemical, chemical and oil-and-gas industries. Our pressure vessels and process tanks products are built in accordance with requirements of ASME 'U', 'H', 'S' and National Board 'R' Stamp.

We specialize in

- Reactors, Distillation Columns
- Fermenters
- Pressure Filters & DI Column
- Ammonia Vessels
- Short Path Distillator (SPD)
- Wiped Film Evaporator (AWFE/ATFE)
- Falling Film Evaporator (FFE)
- Calorifier
- Sanitary Tanks
- Filter Presses
- DAP



Fired Heaters & Air Coolers

We are the leading supplier of Fired Heaters, Steam Reformers and Heat Transfer Equipment for Refineries and Petrochemical Plants.

We specialize in

- **FIRED HEATERS FOR REFINERIES & PETROCHEMICAL PLANTS**
- **AIR COOLERS**

Our manufacturer has accumulated over 60 years of engineering experience in manufacturing as well as servicing hundreds of different types of heaters and reformers supplied worldwide. If required, the equipment can be engineered in accordance to the basic design of International Licensors like UOP, Axens, Chevron, Hal-dor Topsoe, Davy Process Technology, KBR, Exxon, and Stone & Webster, since has been selected as an approved constructor of their fired heaters. Equipment can be supplied worldwide either on FOB basis or on turnkey basis according to Customer requirements.

The following are the list of various type of heaters that can be supplied by manufacturer

- Refinery and Petrochemical Heaters: Reactor Charge Heaters, Reboilers, Regeneration, etc.
- Reaction Heaters: Visbreaking, Thermal Cracking, Coking, EDC Pyrolysis, and VCM.
- Steam Reforming Heaters: Haldor Topsoe, Davy Process Technology, and Kellogg Brown & Root
- Ethylene Cracking Heaters: Process Design of Stone & Webster and Lummus
- Waste Heat Recovery Units (WHRU): Gas Turbine WHRU, Waste Heat Boilers and Furnaces, etc.



Replacement-of Platforming Furnace



Steam Reformer for 1500 MTPD Ammonia Plant



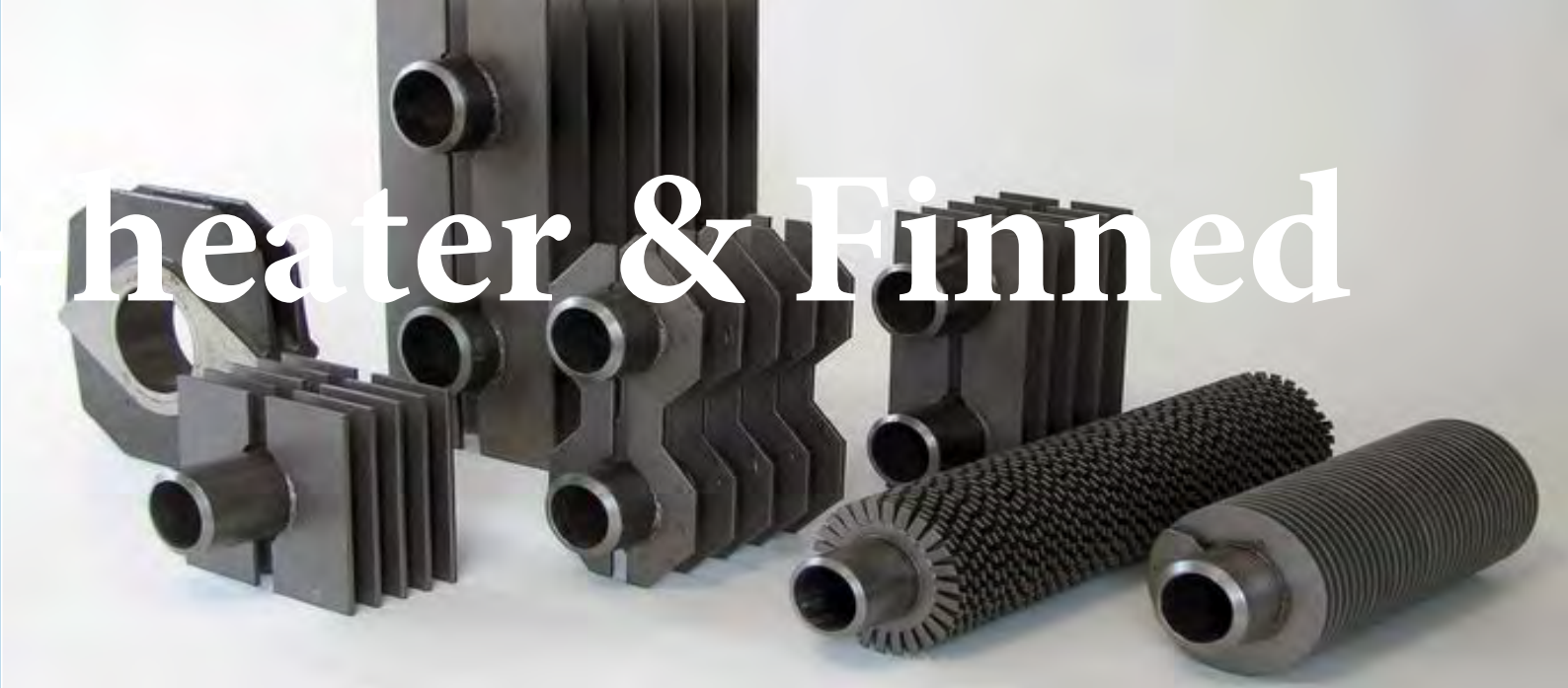
Air Coolers for Refineries and Petro-Chemical Plants.



Fully modularized Heaters for Condensate Project



Economiser, Preheater & Finned Tube



We design, and supply of Flue gas coolers, Economisers, Air-preheaters, shot cleaning systems and extended surface heat transfer tubes, spiral finned or gilled tubes, for utility power generation, industrial processes and marine applications.

- **ECONOMISERS**
- **FLUE GAS COOLERS**
- **AIR-PREHEATERS**
- **SHOT CLEANING SYSTEM**
- **FINNED TUBES -L,LL,KL,GN & Extruded**
- **LOW & MEDIUM FINNED TUBES**
- **TUBE SUPPORTS**
- **HEAT EXCHANGER/CONDENSER TUBES**
- **LOUVERS**
- **HEAT EXCHANGERS PARTS & ASSEMBLY**



Economiser



Flue gas coolers



Finned Tube



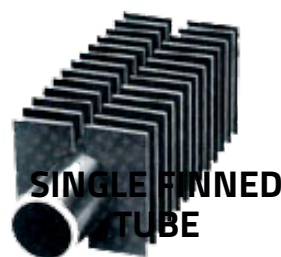
Gas-preheater



Shot Cleaning System



Parts & Assembly



SINGLE FINNED TUBE



DOUBLE FINNED TUBE



SPIRAL FIN TUBE WITH SOLID FIN



SPIRAL FIN TUBE WITH SERRATED FIN

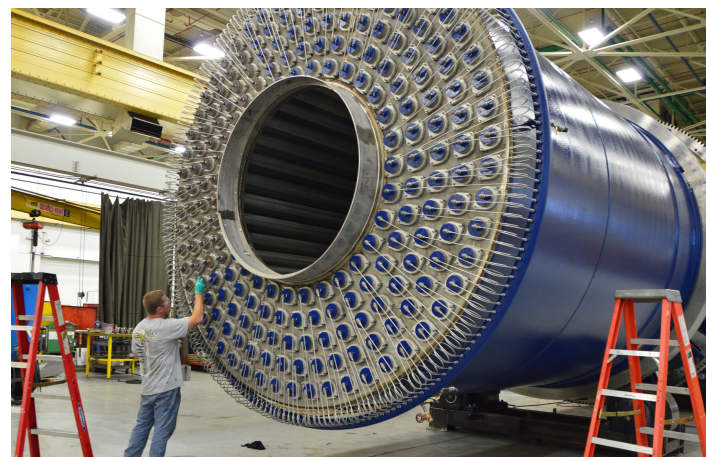
Dryers & Cooling Plant

Design & Built Plant

We provide custom design, fabrication, installation & commissioning of spray drying through our reputable manufacturer. In addition, we have a wide range of dryers such as rotary drum dryer, paddle dryer and mesh belt dryer for drying product or sludge. Application of dryer and spray cooling system is commonly used in food, pharmaceuticals, waste management and metallurgy industry. Our high quality spray cooling parts are imported from the respective countries such as Japan, Italy, Germany and USA.

We specialize in

- Spray Chamber
- Cyclone
- Bag Filter
- Fluidised Bed
- Clean Air Cooler / Heater
- Air Duct
- Anti Caking Mixer
- Nitrogen Heater
- Twisted Tube Heat Exchanger
- CIP System



Our manufacturer has tremendous records in building process plant projects like Essential Oil, Herbal, Omega-3 Extraction, Palm Food Emulsifier Plant, Esterification Plant, Solvent Plant Industrial Autoclave and heat transfer system as a turnkey solution. They provide design, plant project management, involves EPCC, plant analysis, 3D design and automation according to the client's requirement.

We specialize in

- ***Palm Emulsifier Plant***
- ***Reactor Plant & Co-Generation Power Plant***
- ***Waste Oil Purification***
- ***Palm Phytonutrient***
- ***Essential Oil Extraction***
- ***Tank Farm***
- ***Piping***





3P Management Philosophy

- Consulting Professional-CP
- Field Professional-FP
- Service Professional-SP

High quality racking ,shelving, MHE's & impact protection solutions for warehouse automation

Instrumentum Group supply and design a warehousing system to fit your needs considering the budget,floor space, product ,inventory management and material handling equipment. Our engineering team always make sure that our systems meet the expectations by providing safe and full reliable systems with International standards..Our goal is to help client's choose the most cost efficient and quality product to fulfill their requirements. The following are list of services Instrumentum group provides to help clients:

1. Warehouse Design & Layout
2. Select the suitable Racking System
3. Select the appropriate Material Handling Equipment
4. Design of Prefabricated Steel Warehouse Building
5. Select the Warehouse Management System (WMS)
6. Provide in-house support from design to supply and installation

We offer the most convenient high density, high throughput AS/RS (Automated Storage & Retrieval Systems) solution for your warehouse, whether storing pallets or boxes.

Racking System

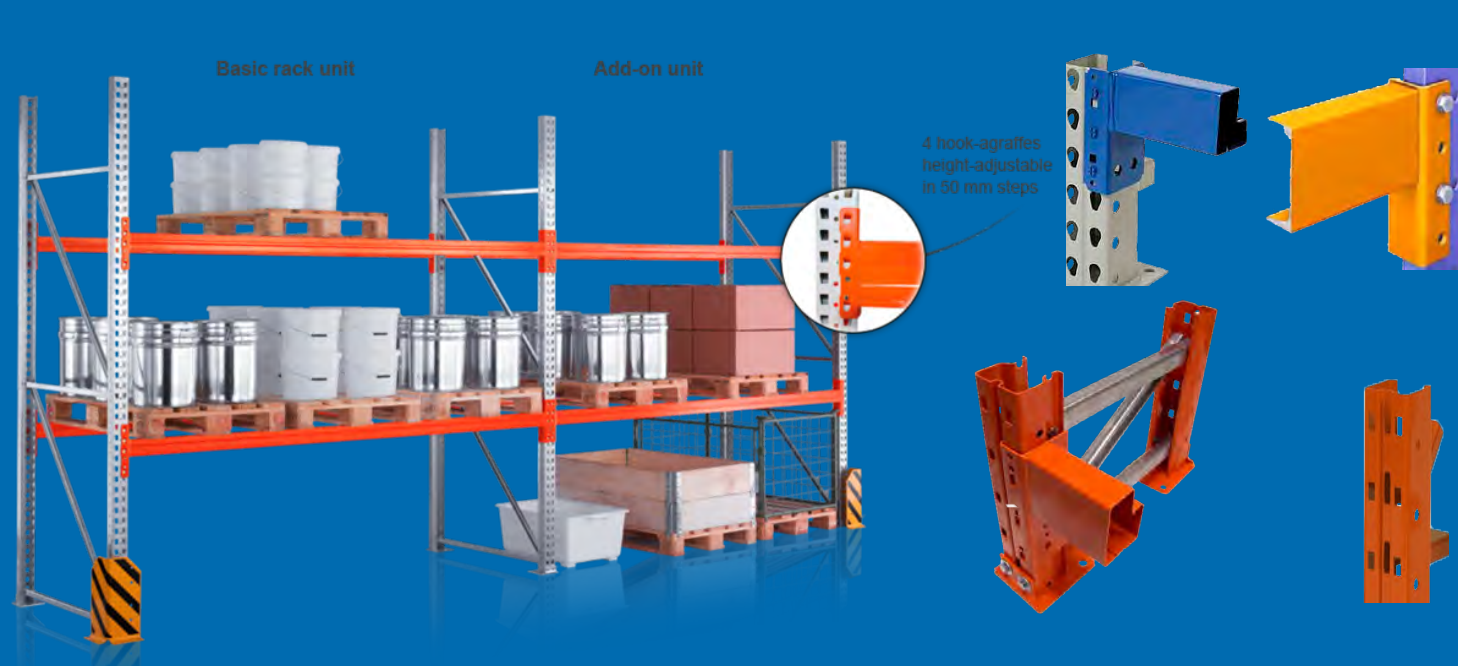
We offer the most convenient high density, high throughput AS/RS (Automated Storage & Retrieval Systems) solution for your warehouse, whether storing pallets or boxes.

MHE'S

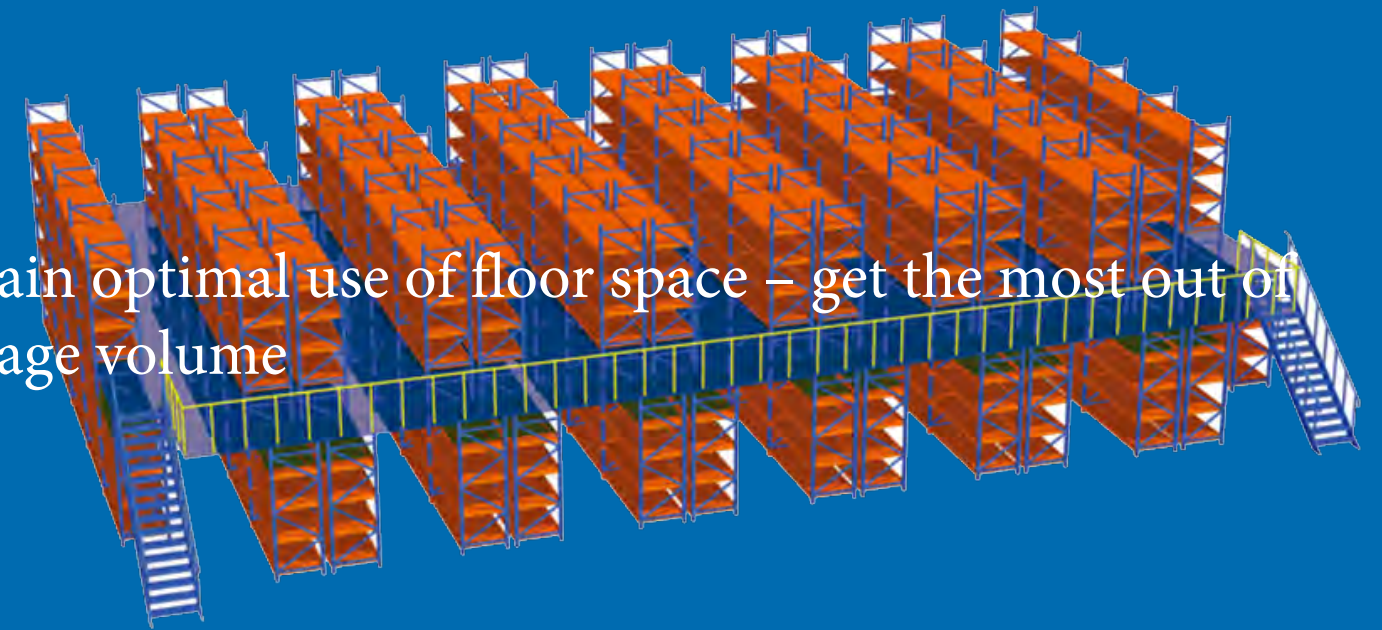
Instrumentum Group covers full range of conventional, mechanical and automat-ed material handling systems. We help our clients implement the best possible solution for their warehouse through evaluation and selecting the right equip-ment, according to their specifications. For clients with low budget Instrumentum Group has an alternative that can provide refurbished or used machines, plastic pallets, bins, batteries, and racking systems with well track maintained record.

Prefabricated Steel W .BLDG

Warehouse Steel building are very useful for industrial warehouses to accommo-date racking systems and to utilize the space efficiently. Our experts can pre-pare a feasibility study of the material required along with the cost to construct the building. Moreover, we can provide consulting in the design stage of the steel structure of the building to ensure strength and viability by conducting structural analysis of the beams and columns. We work along with the best suppliers of steel in North America to ensure the supreme quality product.



Obtain optimal use of floor space – get the most out of storage volume



WAREHOUSE RACKING SYSTEMS

The Best Solutions for your Business and Budget

Pallet Racking systems are the most efficient way of storage in many distribution centers and warehouses. A good warehouse racking system can cut down the overall cost of handling equipment and save time.

Instumentum group can provide new or used racking system with the most economical prices; this sets us apart from our competitors. We have many options to assist our customers for storage solutions whether they require racking system for a small facility or a very complex multilevel warehouse.

Our design engineers convey the best solution to consumers by understanding their requirements, according to their site specific warehouse system. In addition, they can provide the racking solution based on products that either requires a FIFO (First in First Out) or LIFO (Last in First Out).

Our additional services include a feasibility report that uses a mathematical model to predict the endurance of the rack for current and future environment.

TYPES OF RACKING SYSTEMS

- Standard Pallet Racking
- Drive-In Pallet Racking
- Gravity Flow Pallet Racking
- High Density Racking
- Double Deep Racking
- Push-Back Pallet Racking
- Mezzanine Racking
- Mobile Pallet Racking
- Cantilever Racking
- Gondola Racking
- Light Shelving
- Heavy Duty Shelving
- Carton Flow
- Pallet Runner
- Roller Rack System
- Shuttle Type Rack System



Multi-Tier Rack



Shelf Rack



High Bay VNA Rack



Drive IN Rack



Cantilever Rack



Steel Pallets

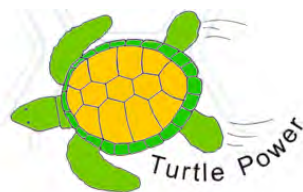


RackPro is a cost effective, easy to install protector for pallet racking up-rights against expensive and potentially life threatening structural damage. It is a highly visible upright protector with an innovative design that has been drawn from the requirements of FEM 10.2.02 for impact loads and protection for pallet upright racking.

FEM 10.2.02 draws the distinction between protection for uprights at the end of racks between cross aisles and gangway intersections which require protection from any direction as compared with inter-mediate uprights that require protection in a direction normal to the aisle.

FEATURES

- Very Tough, impact resistant, and round outer shell
- Resilient inner shock absorbing pad
- Simple clipping system to ensure fast installation at low cost
- Flexible, strong and very easy to remove
- 500 mm high standard height
- Outer shell and absorbing pad stable down to -30°C
- Does not require to fix to the floor
- The slim fit design means there is absolute minimum bay and aisle intrusion so as not to reduce any safe working clearances



Tough polyethylene rounded outer shell designed to deflect impact, and Resilient inner rubber shock absorber to spread the impact load.



RackPro is really simple to install by one person, without tools. No need to drill into the floor or the rack upright to make this protection product work properly.



High fluorescent colour gives operators notice of frame locations and thereby reduces probability of impact.

WAREHOUSE HANDLING EQUIPMENT

We are Pioneers of Providing Solutions for Storage and Material Handling Systems for any type of warehouse.

The following are the wide range of equipment we can provide :

EQUIPMENT

- Hydraulic Pallet Trucks
- Battery Operated Stackers
- Electric Counterbalanced Forklifts
- Combustion Counterbalanced Forklifts
- Narrow Aisle Turret Truck
- Machinery Movers & Rollers
- Lift Tables & Skid Lifts
- Floor Cranes
- Tow Tractors
- Dollies
- Batteries
- Barcode Scanners
- Printer and Labelers
- Wood/Plastic/Steel Pallets
- Bin and Systems
- Steel Shelving/Wire Shelving
- Wire Louvered Panels





ELECTRIC FORKLIFT TRUCK MANUFACTURER

Zowell is a self-owned brand that is part of Suzhou Pioneer Material Handling Equipment & Technology Co. which focuses on the research and development, and production of material transporting equipment.

Zowell has over 15 years of industry experience manufacturing 6 series of products, which includes: **electric counterbalance forklift trucks, electric reach truck, electric reach stacker, electric power pallet jack trucks, electric lift stacker, and electric tuggers.**

Zowell strictly adhere to ISO9001 quality management system standards as well as other industrial certification requirements to ensure all equipment meets international safety and performance standards. Zowell tests every equipment to determine whether it meets the requirements of the order prior to delivery. In addition, they adjust the moving speed of the truck to ensure the safety of the operator and the goods within. Last but not least, they check if the max lifting height of the gantry mounting is within the standard range and test the truck's ability to operate in a rigorous environment.



Electric Counterbalance
Forklift Trucks



Electric Lift Stacker



Electric Reach Truck



Electric Tugger's

STEEL WAREHOUSE BUILDING

We can help you build a robust and adaptable steel warehouse building that can withstand the harshest climate. Our special prefabricated layout design is not only best for industrial warehouses, but also it's suitable for agricultural metal barns, and storage sheds.

Benefits

1. The outstanding quality of steel allows metal buildings to endure the harshest elements such as fire resistant and moisture damage.
2. Steel warehouse buildings are prefabricated that can accommodate multiple stories or large structures, with the flexibility of column-free interiors.
3. The inside walls are customizable and they can be easily moved and rearranged according to the specification.
4. The prefabricated buildings can provide a cost-effective option for a wide range of buildings such as industrial warehouse and commercial buildings.
5. To provide the best service to our clients we work with the best prefabricated metal buildings suppliers.

TYPES OF FRAMES



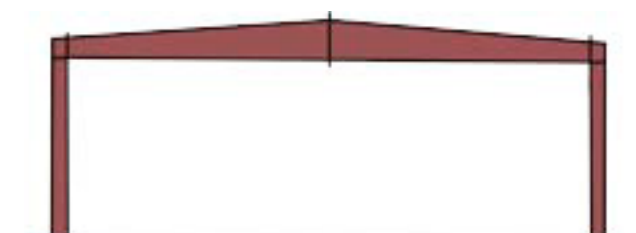
Multiple Span Straight Column



Multiple Span Tapered Column

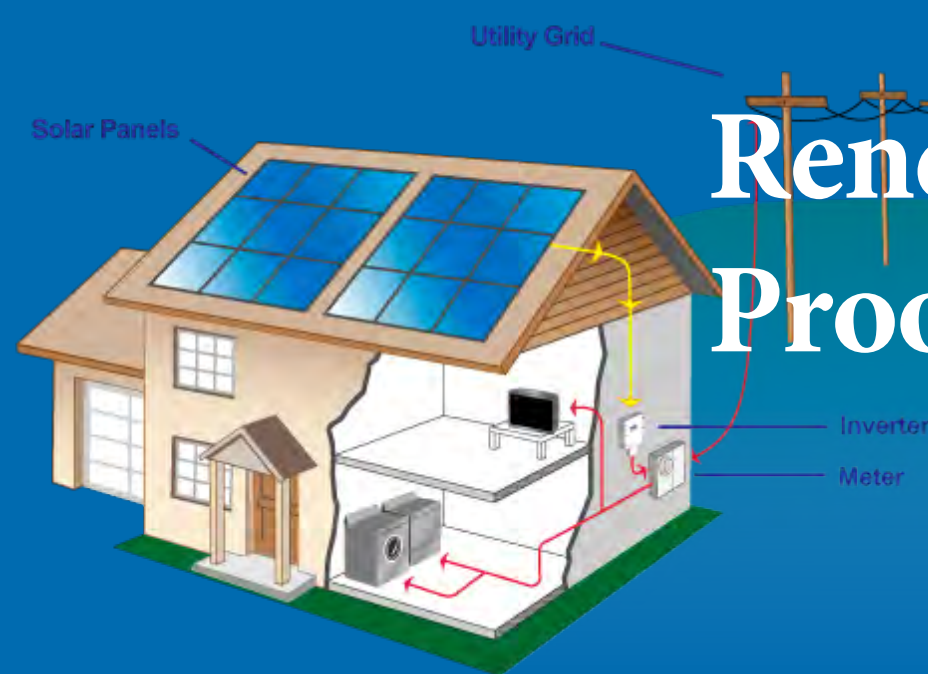


Clear Span Tapered Column



Clear Span Straight Column

Grid-Tied Solar System is the most efficient and cost saving system that does not require battery back-ups and connectd directly to the utility grid in case of power failure.



Renewable Energy & Explosion Proof LED Lighting Solution



SOLAR ENERGY

Did you know the Solar panels are capable of generating more electricity than its required to light up a home or run appliances?

The grid tied solar system lets home and business owners to take the excess electricity generated back to the utility grid and sell it to the utility companies at the same rate as they sell it themselves.

Intrumentum group is capable of providing you with all the necessary equipment for Grid-tied system connected to the utility grid, or Off-Grid system that requires batteries for storing energy for later use. We specialize in feasibility studies to ensure the efficient design for residential, commercial and industrial with the best selection of suitable equipment.

Equipment for Grid-Tied Solar Systems (Connected to Utility Grid)

Solar PV Panels or Arrays
Grid-Tie Inverter or Micro Inverters
Isolation Switches
AC Circuit Breaker Box
Power Meter



Equipment for Off-Grid Solar Systems (Standalone Sytem)

Solar PV Panels
Charge Regulator
Battery Bank
DC Disconnect Switch
Off-Grid Inverter
Backup Generator



SOLAR WATER PUMP



SOLAR WATER HEATER



OTHER PRODUCTS

Garden light
Street Lights
Home Light System
Mobile Charger
Radio
Reading Lamps
Motion Sensor Light
Laptop Bags





LEDs are the preferred lighting solution of both professionals and residential users.

Commonly used in the following industries:

Aerospace, Architectural lighting, Automotive, Aviation, broadcasting, electronic instrumentation, entertainment and gaming, industrial automation and controls, the military, traffic and safety & transportation.

LED TECHNOLOGY

Benefits of LED Light Technology

LED (Light Emitting Diodes) are the most exciting invention in the lighting industry. They consist of small solid light bulbs which are exceptionally energy efficient with extended life.

Longer Life Span

LED lights have longer life span of up to 60,000 hours as compared to 1,500 hours of incandescent bulbs.

Efficiency

LED Lights typically uses 25-80% less energy as compare to a typical incandescent bulb as a result LED saves running cost.

Durability

LEDs are able to withstand shock, vibration and extreme temperature.

Safety

LED lights generate virtually no heat and reduce the potential for safety risks such as burns and fires.

Environment

LEDs are made from non-toxic materials, which can be recycled and considered 'green' or Earth-Friendly.

PRODUCTS

LIGHT BULB

TUBE LIGHT

SPOT LIGHT

STRIP

DOWN LIGHTS

BAY LIGHTS

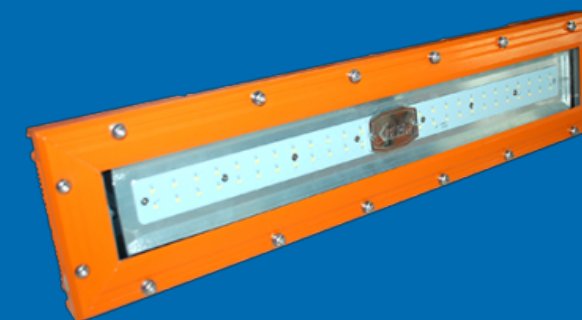
PANEL LIGHT

ELECTRICAL MODULES

COB SPOT LIGHTS

FLOOD LIGHTS





LED EXPLOSION PROOF LIGHTING

Instrumentum Group can supply the explosion proof lights for the hazardous environment areas where a potential for explosion and/or fires exists due to flammable gases and vapors in the air, enhancing the strength of housing, offering failsafe design resistant to the open fire, spark, electric arc, hot surface, ensuring the safety and the property.

Products

LED Explosion Proof Emergency EXIT Light
Explosion Proof LED Highbay Light
LED Explosion Proof Signal Light
LED Explosion Proof Aviation Obstruction Light
Explosion Proof LED Floodlight



Polaris Series



Firefly Series



Mickey Mouse Series

Researching Explosion Proof Lights

Our manufacturer focus on researching explosion proof lights in the hazardous environment areas where a potential for explosion and/or fires exists due to flammable gases and vapors in the air, enhancing the strength of housing, offering failsafe design resistant to the open fire, spark, electric arc, hot surface, ensuring the safety and the property.



Swordfish



Sea Anemone



Sea Anemone



Frog



Brownbear



Jellyfish



Contact Information



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 TE DESIGN

SHOPPING CART **DISINFECTION** SYSTEM

THE MOST **EFFECTIVE** METHOD FOR **DESTROYING** VIRUSES AND BACTERIA.

TE DESIGN shopping cart disinfection systems work by atomizing disinfecting liquids under high pressure to reach every point of the shopping cart in cloud form.

CONTAMINATION WAS ALWAYS THERE..

WHAT ARE THE FACTS?

Supermarket carts are used extensively by people causing the transmission of viruses and bacteria from person to person before the Covid 19 outbreak. Since these viruses and bacteria were not deadly and did not spread rapidly, we did not care about this situation. However, since the Covid19 pandemic, we have seen that viral contamination and spread fatally threatens our health. A solution had to be devised to disinfect the shopping cart and prevent the spread of the virus from shopping carts. Many methods have begun to be applied for the cleaning of supermarket carts. Among these methods, the traditional washing method is a long and labour-intensive method. In addition, one or more personnel must work continuously. It is both an expensive and ineffective method for people to clean with personal disinfectant wipes or fluids. When using the disinfection method with UV light, unilluminated side of the carts are not disinfected, and UV light must be applied to the surface for a long time for complete cleaning. For this reason, in markets where hundreds of shopping carts are used in a short time, this method is slow and ineffective.

WHAT IS THE SOLUTION?

TE DESIGN engineers studied all disinfection systems and methods to design their system. They concluded the system required for disinfection must be quick, effective, and economical. After the atomized disinfectants are sprayed on the shopping cart, they would remain on the surface for a long time until the cart is used. The atomized spray from the nozzles allows the mist to reach every surface. For this reason, the effective method that enables the liquid disinfectant to be sprayed on the object has been applied in the design. It is also determined that this misting method is quick and economical. The TE DESIGN disinfection system is designed to operate without staff. Spraying high-pressure liquid disinfectant by atomizing reduces the liquid consumption and ensures that the liquid disinfectant reaches every surface., The Shopping Cart Disinfection System can be used economically and effectively through the photoelectric sensor. It enables rapid disinfection for multiple shopping carts at the same time.

QUICK, EFFECTIVE AND ECONOMICAL !!!

”



The SAFETY

CHILD SAFETY BARRIER

When the shopping cart disinfection system is not in use, uncontrolled passage through the disinfection tunnel is prevented by using a barrier.



LOCKED MAIN SWITCH

The control unit main panel is designed with a lock to prevent unauthorized access.



EMERGENCY STOP BUTTON

Two emergency stop buttons are placed on the tunnel and control cabinet. It is easily accessible in case of an emergency.



” Safety First



LOCKED DISINFECTION TANK COVER

It prevents unauthorized access to the tank. Flammable and irritating disinfectant liquids should not be put into the tank.



PRESSURE RELIEF VALVE

Some disinfection fluids are noted to produce gas. The pressure release valve helps in reducing the pressure in the tank to avoid danger. Some disinfection fluids may lose their properties when constantly in contact with oxygen. The valve on the tank ensures the evacuation of the trapped gas and prevents oxygen ingress. When the disinfection liquid in the tank decreases, reverse pressure will also develop, resulting in reduced disinfectant flow to the pump. This reverse pressure is reduced regularly by opening the cover of the tank.



WARNING LABELS

Visible safety warning labels are placed on the disinfection system.





STAINLESS STEEL MATERIALS

The disinfection tunnel and control cabinet are made of AISI 304 quality Stainless Steel, whereas the disinfection tank is made of AISI 316 quality Stainless Steel. Welded plumbing and environmentally friendly materials are used in our production.

ANTIBACTERIAL TRANSPARENT CURTAIN

An anti-bacterial curtain prevents the disinfection liquid from escaping the tunnel. The length can be adjusted according to the size of the shopping cart.



DEVICE SECURITY



DISINFECTANT LEVEL SENSOR

Tank level sensor protects the pump from running without liquid. When the liquid level is low, the disinfectant level light on the control cabinet turns on.



PROTECTION AND ALIGNMENT BARRIER

The protection barrier and alignment bar are made of a robust stainless-steel tube. The supermarket carts can safely pass through the center of the disinfection tunnel using the alignment bar. The sidewalls of the tunnel are also protected against accidental shopping cart bumps.



IP 65 CONTROL CABINET

The control cabinet is designed in accordance to the IP 65 protection class.

SYSTEM EFFICIENCY

NOZZLE

High-pressure nozzles atomize the disinfection liquid and spray it in the form of a fog. This atomization ensures reduced use of disinfection liquid and helps the liquid reach the shopping cart's entire surface. A total of six nozzles, two of them are on the top, two on the right-side wall and two on the left sidewall. One nozzle spray's approximately 0.05 l/min of the disinfection liquid at maximum pressure.



SENSOR

An object-sensitive photoelectric sensor is used in our design. When it senses the shopping cart entering the tunnel, the disinfection system's pressure pump powers up, and disinfection spraying begins. This feature prevents unnecessary operation of the system and reduces the consumption of the disinfection liquid. The sensing distance is adjustable through switches in the Modular Control Unit, allowing it for use on all sizes of shopping carts. The photoelectric sensor works in all harsh environments.



MODULAR CONTROL UNIT

With its wheeled structure, the control unit can be positioned anywhere within five meters from the disinfection tunnel. It allows the installation of the disinfection system even in narrow spaces. Users can place the control cabinet in a sheltered area to prevent unauthorized access.



TANK

The tank is made of corrosion-resistant AISI 316 quality stainless steel. The tank comes with a liquid level indicator and a pressure relief valve with a lock and key to prevent unauthorized access. The tank has a capacity of 10 gallons, sufficient to keep the system running continuously for approximately 120 minutes. The disinfection system's operation is so quick that 15 shopping carts can be disinfected in 10 seconds. A user can disinfect more than 10,000 shopping carts in a tank full of disinfectant.



PUMP

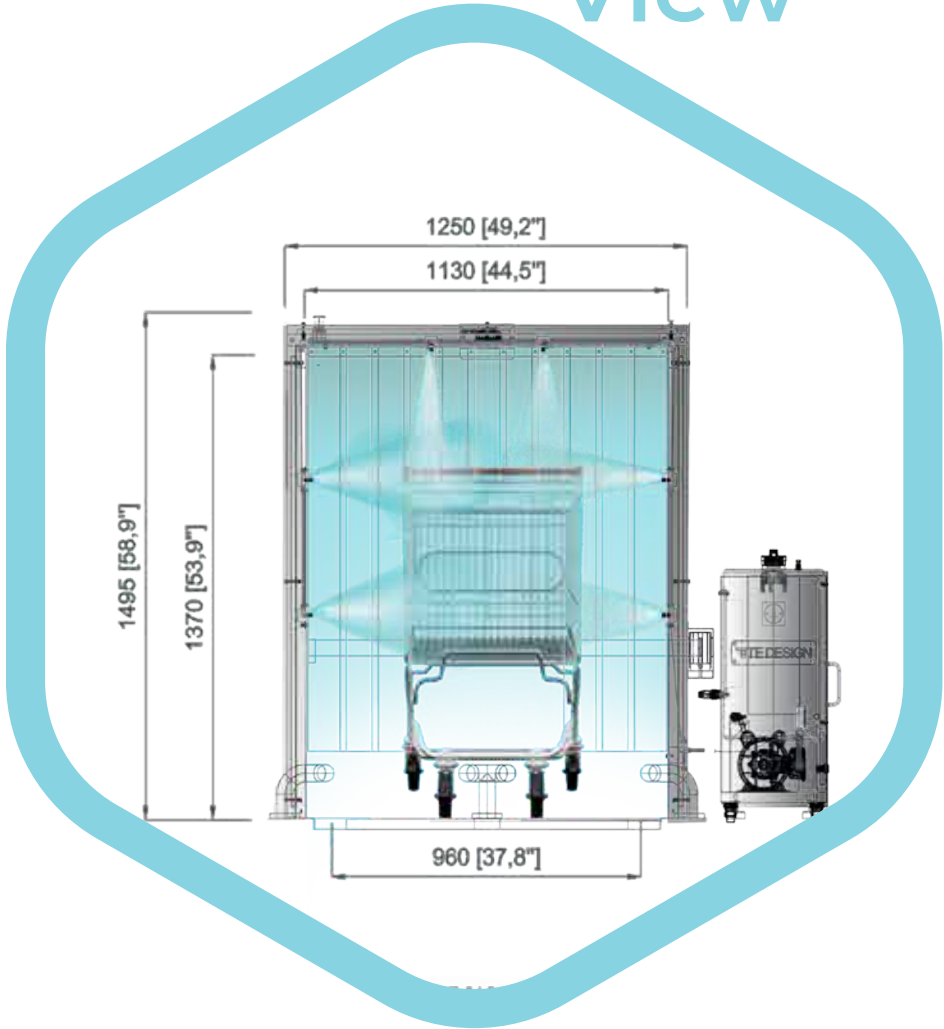
The pressure of the high pressure pump is adjustable by the pressure gauge on the pump helping technical staff. The bypass line on the pump protects the pump and the system.

EXAMPLE OF AN APPLICATION



Technical Drawings

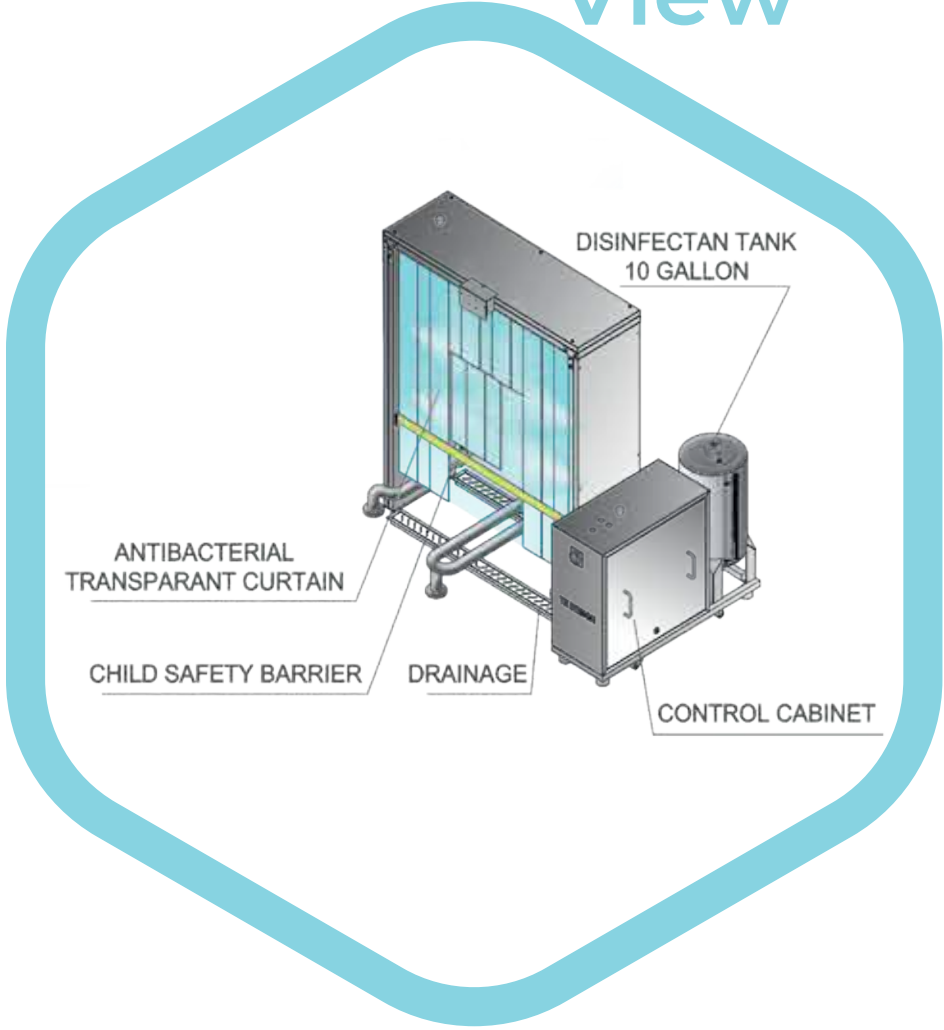
Front View



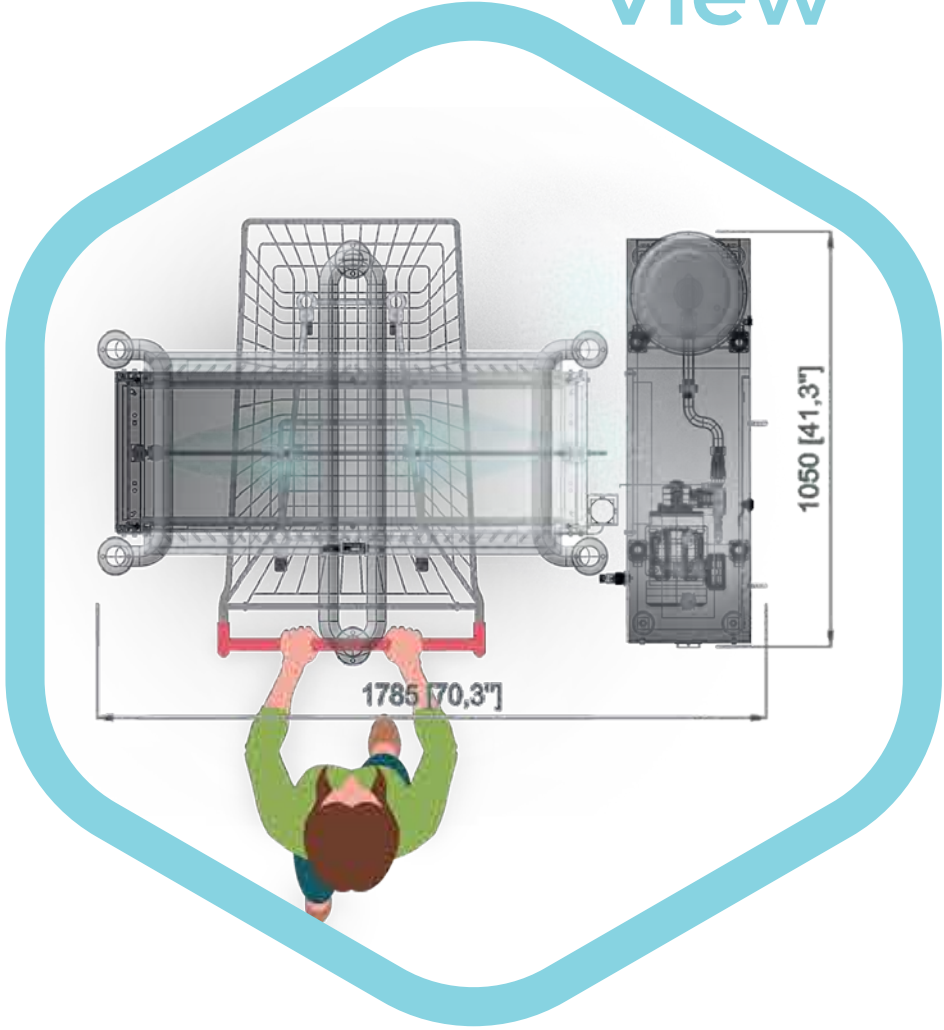
Side View



Perspective View



Top View



Certificates







99,9% hygienic



Customer-friendly



Practical & easy to use



Cost-saving



OTHER DISINFECTION SYSTEMS

LUGGAGE DISINFECTION SYSTEM



CARGO DISINFECTION SYSTEM



STRETCHER DISINFECTION SYSTEM



HealthGate

PROTECTION | SYMPTOM DETECTION | IDENTITY MANAGEMENT



elenium
AUTOMATION



Elenium Moves You Faster and Safer

Our self-service products are used by millions of people across aviation, healthcare, aged care and government infrastructure. Winner of the Frost & Sullivan 2020 Airport Self-service Technology Innovation Leadership Award, our team has capabilities in robotics, mechanical engineering, physics, machine learning and data science.

HealthGate

The HealthGate medical device uses touchless fever detection to provide health screening and visitor safety for workplaces and public spaces such as medical centers, transportation hubs and at events.



3 in 1: Safe, Simple and Legal Check-In Device



Government QR Code Check-In
Certified Health Screening
Contact Tracing



Peace of Mind Through Behaviour Change

70%

Of people are more comfortable entering a public space that has **health screening** technology

Want additional health screening in place alongside a vaccine

88%

Will be honest on pre-arrival health screening questions if they knew they would be screened upon arrival

Of people with viral infections have fevers ¹

"People don't do what you expect, they do what you inspect" Lou Gerstner



¹ Source: <https://www.who.int/docs/default-source/coronaviruse/who-china-joint-mission-on-covid-19-final-report.pdf>



Tested and Certified Accuracy

HealthGate is tested and certified to make sure you can confidently keep your employees and business safe

14 day sprints of laboratory drift testing, every 5 seconds, proved the accuracy and consistency of HealthGate

9 million test cycles completed as part of our development phase

Globally, one of the few medically certified thermographic fever detection devices

- Entered in the ARTG (355032), Class IIa medical device in Australia
- Class IIa medical device in Europe

HealthGate includes the CDC return to work guidelines for pre-arrival screening

Why Did Elenium Certify HealthGate?

It's the law

In many jurisdictions, including Australia and Europe, Thermal Imaging Systems are classified **a medical device**

Selling or implementing non-certified devices is illegal in these jurisdictions.
Organisations which distribute or implement non-certified devices can be fined.

Board directors and senior management are personally liable for the health and safety of their employees under the new workplace legislation in Australia

It's best practice globally

Elenium complies with ISO13485:2016, the globally recognised quality management system requirements for manufacture of medical devices

Elenium received the highest compliance rating (A1) for our quality management system as assessed by the Therapeutic Goods Administration (TGA), Australian regulator for medical devices

People expect it

70% of people are more comfortable entering a public space that has health screening technology and expect it alongside vaccines

More than half of the people surveyed are not confident to return to offices citing health and safety concerns





Traditional Model of Access Control

\$240

Daily cost of minimum wage staff temperature screening at a facility with 3 entrances

\$2,500

Daily cost of nursing staff temperature screening at a healthcare facility with 3 entrances

HealthGate Access Control

\$20

Daily cost of HealthGate deployed at a hospital with 3 entrances in year 1

Value

Keeps staff safe. Trained nurses can focus on essential duties of care.

HealthGate, a touchless certified medical device, proven to protect your customers and business while changing behaviour



Multidimensional Protection

Touchless

Interact at a distance with self-service devices, designed for loud environments.



Certified Medical Device

Accuracy is tested. ARTG, 355032.
EC Certified.

Change Behaviour

People tend to respond to health declarations more honestly.



Health Declarations

Enable visitors' self-declaration about symptoms & history.

Biometrics Recognition

Highly accurate, fast and secure facial recognition to authenticate and authorize.



Body Temperature Screening

Audible alarm and notifications for exception cases

Mask Detection

Configurable option prompting visitor for action in line with mandated process.



Integration and Scalability

Simple integration into 3rd party system or access control system



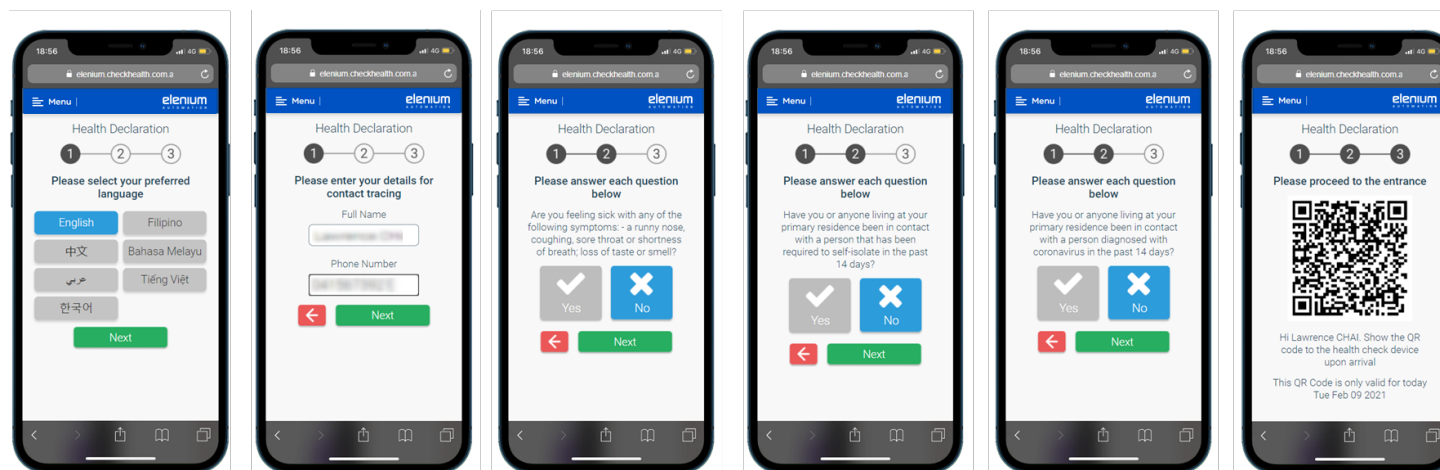


Verify Health Status before Arrival

Register visitors and record health declarations, ensuring they are pre-screened and healthy with HealthGate Declare.

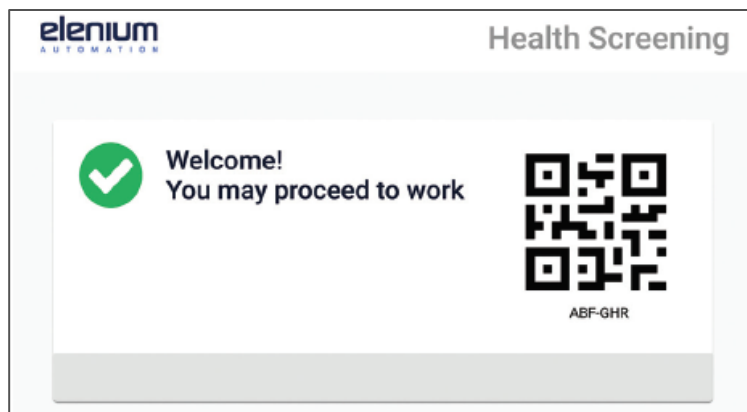
A multi-language online application allowing a user to register their attendance to a site and submit a health declaration to be used with HealthGate device.

HealthGate Declare, based on customisable business rules, will advise the user if they can enter the facility or to seek further advice minimising the risk of transmission and encouraging social responsibility.





Support QR Code and Biometric Check-In



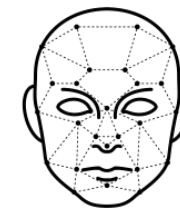
Contact tracing will most likely remain part of our daily lives in a post-pandemic world. Even with a successful distribution of vaccines, contact tracing will deal with outbreaks of variants when international borders re-open.

HealthGate supports the display of government QR Codes.

A Seamless Experience

Biometric Recognition enhances the check-in experience by using highly accurate facial recognition.

The entire biometric process takes less than one second. It can be integrated into government systems and can be added to the HealthGate as a software upgrade.



Better for your Staff and Customers

Biometric Recognition enables a simple, secure and authenticated process that will make entry to your premises easier for staff and customers.



Common Use Cases



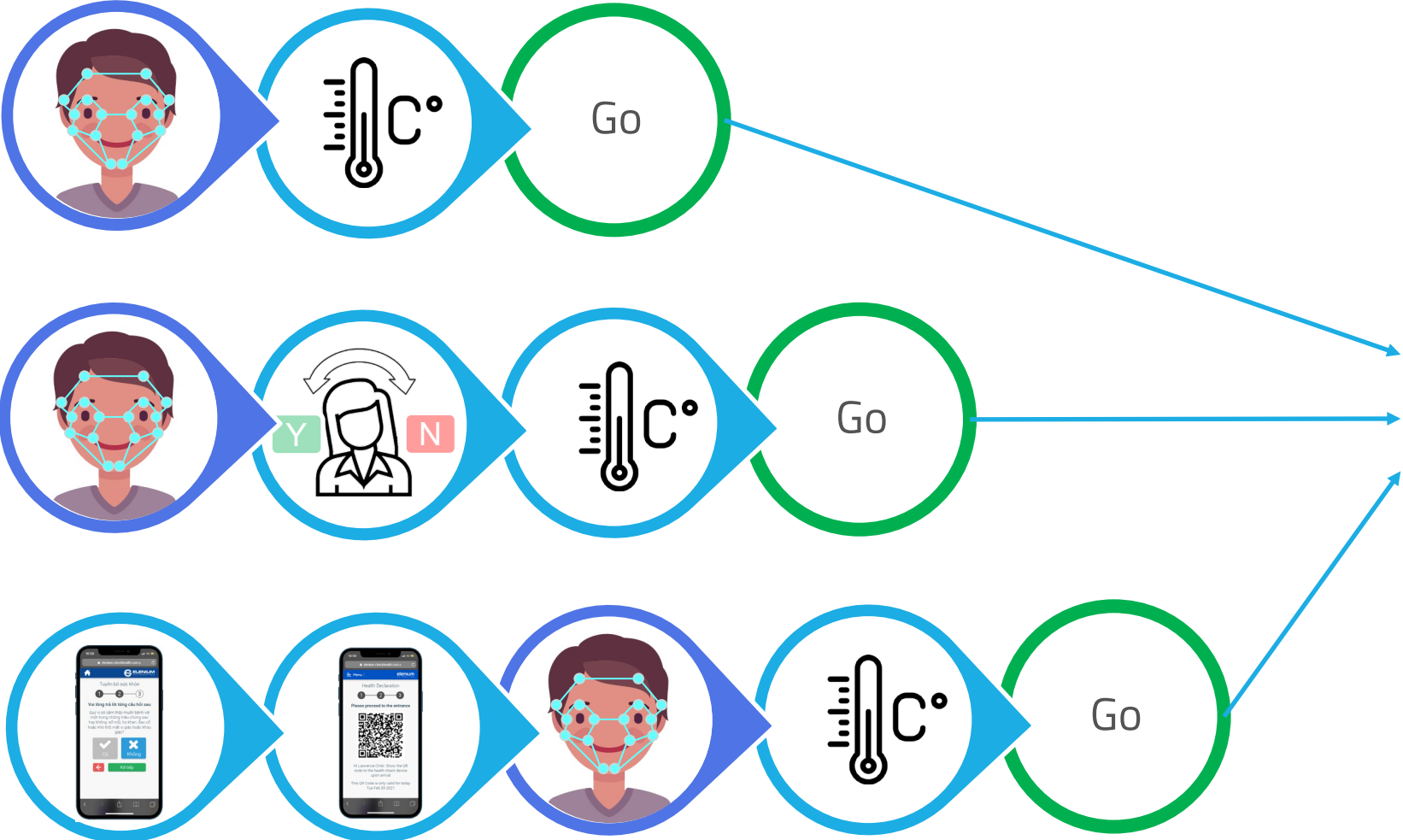


Use Cases with Biometric (Facial Recognition)



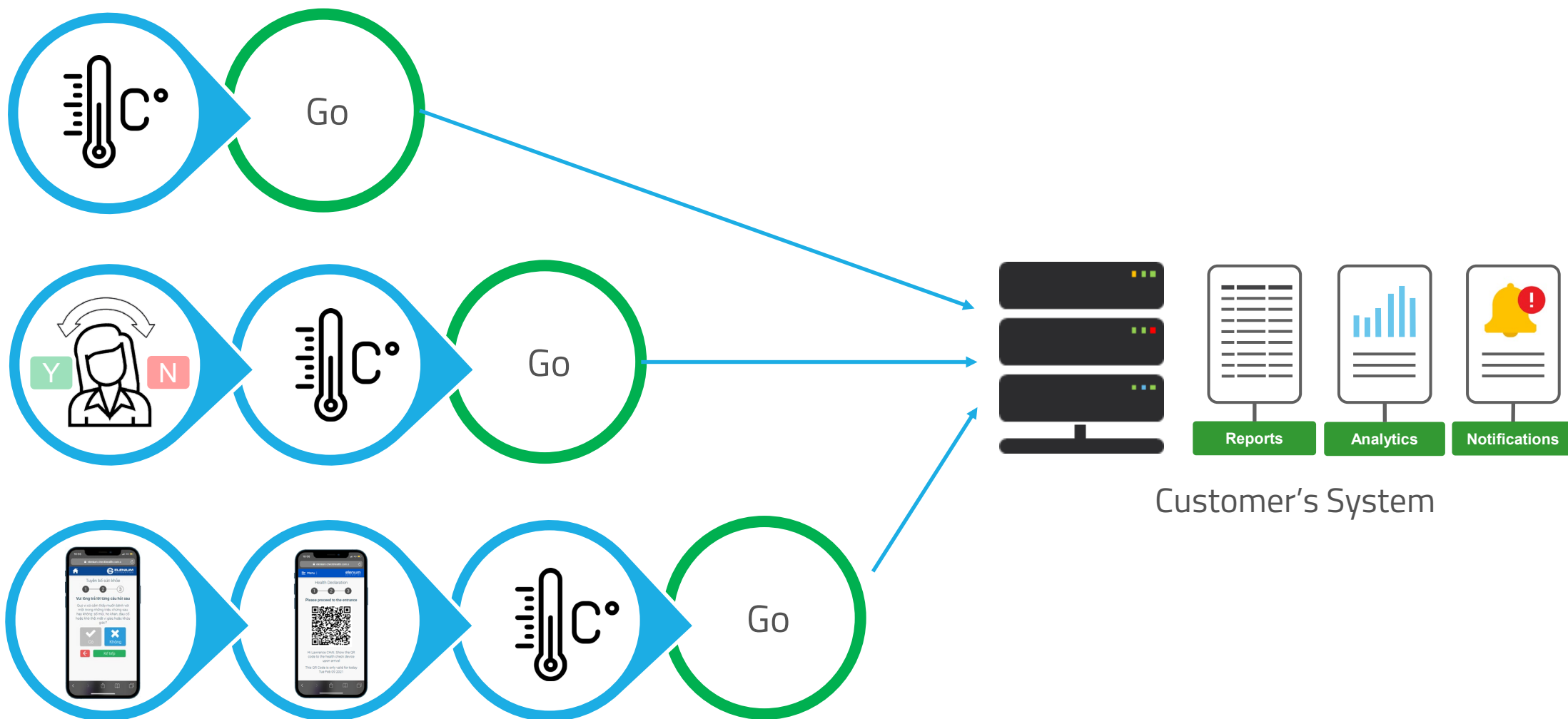


Use Cases with Biometric & Automatic Gov. QR Code Check-In

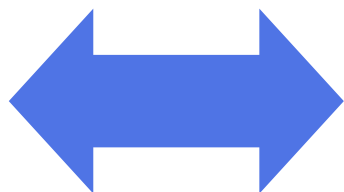




Common Use Cases with Outbound APIs



Accessories



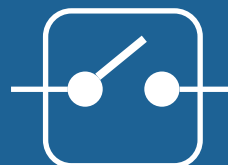
4G WiFi Modem

Provide HealthGate with internet access



Label Printer

Print label sticker with triage outcome



Low Lever Interface

Integrate with a wide range of access control system

Intuitive and Reassuring

"Intuitive to understand and easy to use, even for people with limited technical skills"

Recent State Government trial employee feedback



"HealthGate has already saved us considerable time, but it has also given us and our team great peace of mind, which is priceless"

Retail chain management feedback

Video Links:

<https://www.youtube.com/watch?v=ROSoVZ588M4>

<https://www.youtube.com/watch?v=-c9fQAtHJbA>

<https://www.youtube.com/watch?v=aeMryq4-pV8>



COTTON:ON



intel




say"ers




Certified Medical Device


ARTG Certificate

| | | |
|--|--|------------------------------|
|  Australian Government Department of Health Therapeutic Goods Administration | | |
| Australian Register of Therapeutic Goods Certificate | | |
| Issued to Elenium Automation Pty Ltd for approval to supply Elenium Automation Pty Ltd - Thermography system, infrared | | |
| ARTG Identifier | 355032 | |
| ARTG Start Date | 16/02/2021 | |
| Product Category | Medical Device Included Class IIa | |
| GMDN | 40803 | |
| GMDN Term | Thermography system, infrared | |
| Intended Purpose | The device is a self-serve contactless interactive Desktop kiosk which uses infra-red thermography of the face surface for the purpose of screening potentially FEBRILE individuals. | |
| Manufacturer Details | Address | Certificate number(s) |
| Elenium Automation Pty Ltd | 7 Challenger Court Essendon Fields, VIC, 3041 Australia | DV-2021-MC-02674-1 |
| ARTG Standard Conditions The above Medical Device Included Class IIa has been entered on the Register subject to the following conditions: - The inclusion of the kind of device in the ARTG is subject to compliance with all conditions placed or imposed on the ARTG entry. Refer Part 4-6, Division 2 (Conditions) of the Therapeutic Goods Act 1989 and Part 5, Division 5.2 (Conditions) of the Therapeutic Goods (Medical Devices) Regulations 2002 for relevant information. - Breaching conditions of the inclusion related to the device of the kind may lead to suspension or cancellation of the ARTG entry, may be a criminal offence, and civil penalties may apply. | | |
| Products Covered by This Entry 1. Thermography system, Infrared | | |
| Product Specific Conditions No specific conditions have been recorded against this entry. | | |
| Therapeutic Goods Administration PO Box 100, Woden ACT 2606 Australia Phone: 1800 020 653 Email: info@tga.gov.au | ARTG Identifier: 355032 ARTG Start Date: 16/02/2021 | |

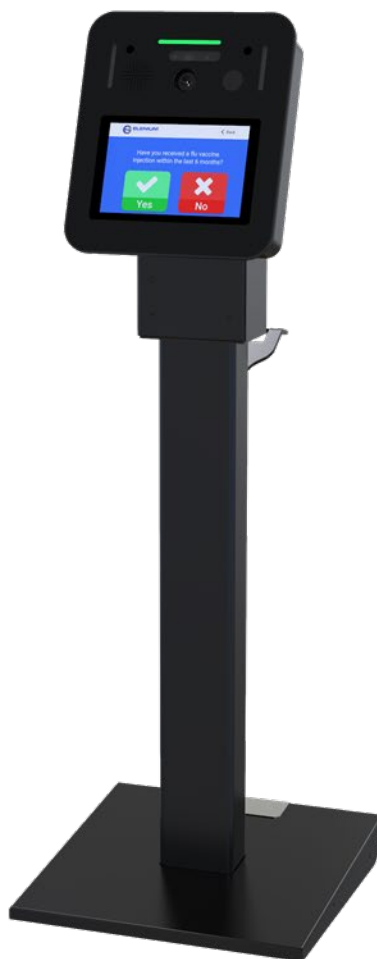
ARTG EC Certificate

| | | |
|--|--|----------------------------------|
| Notified Body Identification number 0805 |  Australian Government Department of Health Therapeutic Goods Administration | Certificate Number MRA Q00096 |
| EC Certificate Production Quality Assurance Procedures Annex V of the Council Directive 93/42/EEC on Medical Devices | | |
| Issued to Manufacturer Name: Elenium Automation Pty Ltd Manufacturer Address: 7 Challenger Court ESSENDON FIELDS VIC 3041 Australia | | |
| For the Manufacture and Final Inspection of device categories specified on page two of this certificate. This is to certify that the quality management system described below conforms to the relevant provisions of Annex V of the Council Directive 93/42/EEC on medical devices. Certification is based on an examination of the Quality Management System for production and final inspection to ensure that each medical device to which the system is applied conforms to the product described in the Type Examination or the technical documentation as applicable. This certificate has effect at all times from the commencement date, until the end of the period specified in the certificate (expiry date), or unless it has been suspended or revoked. | | |
| Commencement Date: | 11 February 2021 | |
| Certificate Expiry Date: | 26 May 2024 | |
| Associated CA Certificate: | AU Q00471 | |
| This certificate is issued by: Jie ZHOU Signed electronically Delegate of the Secretary Medical Devices Branch Therapeutic Goods Administration PO Box 100, Woden ACT 2606 Australia | | |
| TGA Conformity Assessment Certificate Page 1 of 3 | | |

HEALTH CANADA IO

| | | |
|--|---|---|
|  Health Canada Santé Canada | Medical Devices Directorate Direction des instruments médicaux | |
| COVID-19 Medical Device Authorization for Importation or Sale | Autorisation d'importation ou de mise en vente d'un instrument médical relatif au COVID-19 | |
| Authorization Reference Number : | 332509 | Numéro de référence de l'autorisation |
| Issue Date: | 2021-10-06 | Date de délivrance: |
| Device Class/Classe de l'instrument : I | | |
| Pursuant to section 5 of the Interim Order Respecting the Importation and Sale of Medical Devices for Use in Relation to Covid-19, made by the Minister of Health on March 18, 2020, the medical device listed below is now authorized for sale or importation in Canada. Each shipment of a COVID-19 medical device that is imported into Canada must be accompanied by a copy of this authorization document. Please ensure to highlight the Authorization reference number during the import declaration process to facilitate port entry without any delays. This authorization is only valid for so long as the Interim Order Respecting the Importation and Sale of Medical Devices for Use in Relation to COVID-19 is in effect. | | Conformément à l'article 5 de l'Arrêté d'urgence concernant l'importation et la vente d'instruments médicaux relatifs au Covid-19, réalisé par le ministre de la Santé le 18 mars 2020, les instruments indiqués ci-dessous sont présentement autorisés pour la mise en vente ou l'importation au Canada. Tout envoi d'un instrument médical relatif au COVID-19 doit être accompagné d'une copie de la présente autorisation. Veillez vous assurer de souligner le numéro de référence de l'autorisation durant le processus de déclaration d'importation pour faciliter l'entrée sans délais aux points de contrôle frontalier. Cette autorisation est uniquement valide tant que l'Arrêté d'urgence concernant l'importation et la vente d'instruments médicaux relatifs au Covid-19 est en vigueur, ou l'autorisation est annulée. |
| Device Name(s) Nom de l'instrument ELENUM AUTOMATION: HEALTHGATE DESKTOP | | |
| Name & Address of Authorization Holder/Nom & adresse du titulaire de l'autorisation ELENUM AUTOMATION PTY LTD. 7 CHALLENGER COURT ESSENDON FIELDS, VICTORIA AUSTRALIA 3041 | | |
| David Bondeam, ing., Director General, Medical Devices Directorate Directeur général, Direction des instruments médicaux | | |
| Application Number: Numéro de la demande: | 332509 | Manufacturer ID: Identificateur du fabricant: 165299 |

| Feature | Elenium HealthGate |
|-----------------------------------|---|
| ARTG Entered | Yes (355032) |
| 14 day drift test compliant (-59) | Yes |
| Sensor Resolution | 320 x 240 |
| Sensor Sensitivity | 0.7 |
| Accuracy | 0.3 – 0.5 degrees |
| Frame Rate | 8.7hz |
| Elenium Air Shield | Yes |
| Nvidia GPU | Yes |
| Client OS | Windows or Android |
| HD Camera | Yes - 13mp with mechanical focus |
| Near Infrared Camera | Yes |
| Touch Screen | Yes |
| Voice Recognition | Yes (optional SaaS) |
| Virtual Touch (Head control) | Yes |
| Barcode reader | Yes |
| Facial Recognition | Yes (optional SaaS) |
| Monochrome Printer | Optional |
| Multilingual support | Yes |
| Portable | Yes |
| Operating Environment | Indoors (Ambient Temperature 18°C to 24°C) |



The Elenium HealthGate complies with the following standards

| Standard | Description |
|----------------|---|
| ISO 13485 | Medical Device – Quality Management Systems |
| IEC 62304 | Medical Device Software – Software lifecycle Processes |
| IEC 60601-1 | Medical Electrical Equipment – Part 1 |
| IEC 60601-1-2 | Medical Electrical Equipment – Part 1-2 |
| IEC 60601-1-6 | General requirements for basic safety and essential performance Collateral Standard: Usability |
| IEC 62366-1 | Medical Devices – Part 1: Application of usability to engineering to medical devices |
| ISO 14971 | Application of risk management to Medical Devices. |
| ISO 15223-1 | Medical Devices – Symbols to be used with medical device labels, labelling and information to be supplied |
| IEC 80601-2-59 | Medical electrical equipment – Particular requirements for the basic safety and essential performance of screening thermographs for human febrile temperature screening |
| ISO TR 13154 | Medical electrical equipment – Deployment, Implementation and Operational Guidelines for Identifying Febrile Humans Using a Screening Thermograph |

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HealthGate 

Elenium HealthGate Presentation (AUS): AUEAEE-00522 V4.0



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