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Jupiter Group

نعمة التقنية The Boon of Technical

Solution provider for Industry needs...

Tel: +973-17-874667 Mob: +973-39236574, E-mail: info@jems4u.com

Jupiter in Production Industry

Jupiter is the pioneer in Boilers, Ice Plant & Water Treatment Machineries since 1988, And we would like to introduce proudly with challenge in Machinery Manufacture, Import, Export, Professional technical services in all kinds of used & new Machineries, spare parts and accessories in around middle east countries. We have well experienced qualified engineers technicians with well equipped workshop and able to provide fast & reliable service facility with guaranteed work perfection.

Head Office in South India-Tamilnadu: Our Branches in Bahrain-Salmabad, Saudi-Dammam, Qatar-Doha, UAE-Dubai, Singapore-Jurong and China-Shanghai.

Our Mission

Our mission is to develop and maintain the best systems available on the market today. To achieve this, we are backed by the highest quality in-house engineering, manufacturing, and service teams in the area.

Our Vision

Our vision is to fabricate an impressive line of equipments in various designs and models as an absolute solution for every client. We focus on precision, perfection and total customer satisfaction at all stages.





Manufacture, Import, Export Rental & Exchange

Jupiter, in the boiler business since 1988, specializes in the design, equipment supply and construction of industrial steam boiler facilities. Our staff is experienced in the steam and pressure vessel plant design to ensure your facility will operate as efficiently and maintenance free as possible. Our customers can be assured the correct equipment will be selected for their projects based upon good engineering and design practices. Since Jupiter does not have an affiliation with any of the large equipment manufacturers,

Supply New & Used Boilers

Jupiter is the premier boiler service and sales provider in Asia. we provide the highest quality boiler products and parts. We emphasize exceptional customer service.

We offers a wide range of products which include Boiler Systems, Industrial Watertube Boilers, Energy Recovery International, Industrial Combustion. From industrial watertube and firetube boilers to burners and feed water systems.

Buying New & Used Boilers

That old boiler you want to get rid of may be worth more than you think. Before you assign it to the scrap heap, make the smart move and contact us.

We specialize in buying and rebuilding all types and sizes of used boilers including oil fired boilers, steam boilers, electric boilers, commercial boilers, industrial boilers, gas boilers, vertical steam boilers, low emission boilers, high capacity boilers, horizontal boilers, and more.







Type of Boilers

Gas, Oil, Coal, Solid Fuel, Solid Waste, Wood, Biomass and Hybrid Fuel Fired Steam and Hot Water Boilers

Jupiter has been manufacturing, designing, engineering and servicing gas, oil, coal, solid waste, wood, biomass and hybrid fuel fired steam and hot water boilers since 1988.

Scotch Marine (Fire Tube) boilers

Our two-pass, three-pass or four-pass Scotch Marine(Fire Tube) boilers are available in dryback, wetback, steam or hot water versions; from 15 to 800 hp with pressures to 300 psig.

Hurst Scotch Marine boilers are rated to 81% minimum efficiency. They are designed with davited rear doors for minimum maintenance and rugged construction for extralong life. UL listed boiler/burner packages for firing gas, oil or a combination of both.

Vertical Boilers

Our compact, space saving vertical boilers provide exceptionally high efficiencies, lower fuel costs, and extremely rugged construction.

The compact, space saving vertical fourpass shock-proof design has no tubes to loosen or burn out. The Hurst Vertical Tubeless Boiler allows convenient access to "eye high" burner and solid-state controls for trouble free operation.

Firebox

The Hurst Firebox is competitively priced, efficient and flexible three-pass boiler design allowing fuel flexibility for gas, oil, heavy oil, and combination gas/oil.

The firebox boiler is ASME code constructed & stamped with the thickest boiler steel in the industry for 15 psi steam/30 water and registered with the National Board of Boiler Inspectors. The boiler includes unified refractory base floor, steel skids and lifting eyes.









Type of Boilers

Low Emission Boilers

Our boilers can burn any liquid or gaseous fuel; and come in sizes from 100 to 2,500 horsepower with pressures to 450psi. Hurst boilers are designed and engineered with larger furnaces, providing for inherently lower "NOx" emissions. To produce lower emissions, our boilers employ technologies such as; gas and air pre-mix, flue gas recirculation, and thermal reduction.

Solid Fuel Fired Boilers

Where There's Steam, There's Hurst! Solid Fuel Fired Steam, Hot Water and Biomass Boilers. Fossil fuel costs are at an all time high without any relief in sight, making renewable energy the fuel source of the future. Biomass Boiler Systems will strengthen your bottom line by reducing, or even eliminating your energy and disposal costs altogether, through the combustion of renewable fuel sources, also known as Biomass.

Biomass Boiler Systems

Energy solutions based on biomass and bio-fuels provide clean and renewable energy for large national and international companies. Green-thinking companies are now using biofuels to mitigate the impact their activities have on the environment by reducing emissions of greenhouse gases. This can also generate earnings for your company by saving money on energy costs, and by the sale of carbon credits. Achieve energy independence, get off the Gas Grid, and no longer be at the mercy of the oil markets.

Consider trading fossil fuels for sawdust, wood chips, and bark. Alternative Fuel Solutions and shovel-ready packaged projects can help you Reduce Carbon, Reduce Emissions, and Reduce both Operating and Fuel Costs, as well as being eligible to Sell Your Carbon Credits!







Type of Boilers

Coal Fired Boilers

Jupiter provides its clients with the support and expertise necessary to design, fabricate and install complete coal fired boiler systems from the fuel storage system thru exhaust gas emission mitigation.

This particular representation exhibits the application of Hybrid coal fired boiler system into a complete turnkey system. It should be understood that every application is different in some way: from coal quality and/or type, steam/heat requirements to site specific local



Wood Fired Boilers

Jupiter provides its clients with the support and expertise necessary to design, fabricate and install complete wood boiler systems from the fuel storage system thru exhaust gas emission mitigation.Various Hybrid Wood Boiler designs are suitable applications for to produce high pressure steam or hot water in ranges from 3,450 -60,000 lbs/hr (3.4



mmBTU - 60 mmBTU) output from 100 up to 400 PSI. The boiler vessel in each of these systems is a two pass hybrid design incorporating a water tubed boiler-type water membrane and a twopass fire tube scotch marine vessel. These boilers advantages over standard water tube boilers include a much larger steam disengagement area providing high quality steam, larger steam storage capability for quicker response to sudden steam demand, and much larger thermal storage that provides fast demand response times and safer operation.

Integrated Control Systems

Offering integration and scalability, the new, high efficiency Integrated Control Systems for boiler room monitoring and communications provide advanced supervisory boiler controls for all new and legacy products.

Integration has become essential for efficient operation and shared duty load. We developed and offers a full line of processor based smart controls fully compatible with all designs including alternative fuel



models. Precise control of fuel and combustion air can result in very high efficiencies. Hurst intelligent control systems allow you to harness these savings while increasing over all boiler plant productivity.

Feed Water Systems

For all types of steam boilers with pressures to 300 psig. Open vented feed water systems. Fully piped and wired. Industrial rated. Ready to install 30 to 1,000 gallons.

Sizes 30 to 1,000 gallons For all types of steam boilers with pressures to 300 psig. The Feedmiser Automatic Return System



provides storage for water make-up and return condensate from the system loop. The system consists of an elevated tank mounted boilers.

When equipped with optional trim, the Feedmiser provides a quality, heavy duty packaged unit fully assembled and ready to install. These units are factory assembled with pre-wired control panel, and fully piped pumps along with all the neccessary fittings and valves. Consider the optional automatic steam preheater. When incorporated into the system, feedwater temperature can be maintained at 210°F. At this high temperature, oxygen and carbon dioxide are released, reducing corrosion problems in the boiler and piping system. Systems are available in single, dual, triple and quad pump configurations and custom orders are welcome.

Industrial Burners

Jupiter is an industrial burner manufacturer, offering complete solutions to combustion requirements from standard burners to individually engineered solutions. Experienced in all common aspects and many more specialised areas of its field, Limpsfield offers experience, quality and competitive prices.

Jupiter burners are of an Industrial Forced Draft design, suitable for alternative or simultaneous firing of all types of gaseous fuels and mineral fuel oils, Jupiter offers burners for a range of application inputs from 1-110 MMBtu/hr

We upgrade, refurbish, and retrofit flares and oxidizers as a regular part of our services because we have a staff of combustion professionals with a vast amount of experience with numerous technologies, designs, and manufacturers. Our specialists can evaluate, modify, and upgrade any manufacturer or model including flares, Burners, and Thermal Oxidizers. Our staff includes the folks that started and helped build Environmental before it was eventually sold to its largest competitor. Our staff includes some of the original pioneers of the flare, thermal oxidizer, and combustion industry.

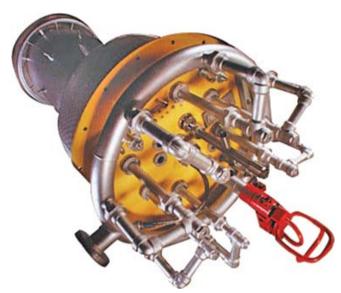
Engineering

Jupiter have the capability of creating technical drawings using the latest 2D and 3D Autodesk packages.

Once we have received all of the site information from our customer we are able to create tailor made technical drawings specially for each project. Once complete, these drawings will be sent along with our submittal package for approval.

Once project approval has been received, manufacture of the burner will begin. Everything from a simple blanking plate, to a complete stainless steel burner will be manufactured in house using our state of the art machinery, coded welders and paint shop.







Erection & Commission

Installation of Boilers, Ice Plant & Water Treatment Machineries requires experience and attention to detail to prevent potentially dangerous safety issues. Jupiter offers unparalleled experience and expertise in startup Installation of the following:

- Electrification Systems
- Modernizations
- Relocations

We have a wealth of experience in all areas ensuring that any fault is promptly diagnosed and corrected. We offer boiler care that keeps the boiler function smoothly. Our maintenance service involves activities like regular checking of the following parameters:

- Water level
- Blow down water column
- Visual check of combustion
- Boiler operating pressure/temperature
- Condensate temperature
- Feed water pump operation
- Gas pressure
- Oil pressure and temperature

Boiler Optimization & Maiintenance

To minimize emissions and optimize efficiency, process monitors, such as those that monitor temperature, oxygen and carbon monoxide levels, can be installed and used with pre-defined schemes to ensure optimum operating parameters. These systems types allow automatic adjustments of air-to-fuel redistribution ratios, of combustion air between the



primary, secondary and (possibly) tertiary combustion zones, and fuel feed rates for stable combustion. These types of controls have been retrofitted on existing wood chip boilers as part of pilot projects.

A key to minimizing emissions is proper boiler maintenance. Some systems in place today have automated ash removal systems. Such systems automatically remove ash from the primary and secondary burn areas. In addition, some systems pneumatically clean the boiler tubes.



Periodical Maintenance

Jupiter offers customized maintenance programs for your operation. From compliance & repairs to preventative & periodical maintenance, Jupiter has the right maintenance program for vour application, including:

- Compliance Programs
- Preventative Maintenance
- Reliability Maintenance
- Maintenance Contracts



Boiler operation and maintenance are closely tied together. Good operation includes performing necessary daily and periodic maintenance. Low maintenance cost depends on good daily operating control, given that the system and fuel are compatible.

provide operators with a log book for recording daily events and a preventive maintenance program for regular, daily, weekly, monthly, semiannual, and annual maintenance procedures. These procedures should include repair, replacement, inspection, cleaning, and lubricating. Technicians should schedule these tests annually and perform them periodically.

Upgrades, Automation, Startup and Training

Jupiter has done upgrades and installations all over Middle east countries. Full automation of systems and new equipment install and integration regardless of whether we supply the equipment or not.

Let Jupiter write your training and operations manuals, we offer startup and safety training, as well as concise operational manuals that your staff can refer to ensure proper operation of the system.



Jupiter will supply a new evaporation plant and an upgrade of an existing recovery boilers. The goal is to strengthen the mill for the future by improving environmental performance and energy efficiency as well as to enable future company expansion.

Jupiter's delivery will allow for a substantial increase in production capacity in the future. In addition, the mill's energy efficiency will be improved leading to a significant reduction in consumption of fossil oil and external biofuels.

Boiler Combustion Services

Maintaining proper efficiency of your combustion equipment helps avoid unnecessary downtime & extend equipment lifespan. Jupiter Combustion Services Division is knowledgeable in all areas of combustion maintenance and can quickly diagnose and remedy any combustion issue.

Regular service and tune-ups by Platinum Energy Group's skilled professionals can help save money, meet and exceed code standards, and prevent major repairs. With monthly and

quarterly contacts, Jupiter boiler combustion services include:

Boiler Tuning Boiler Inspection Boiler Efficiency Optimization Boiler Safety Verification

Jupiter can service all types of combustion equipment, including: Boilers, Burners, Coater Ovens, Furnaces, Incinerators, Air Mixed Propane Systems, Vaporizers Hot Oil Systems.



Renovation & Modernisation

The boiler is the heart of any industrial plant, and even the smallest problem with it can have an adverse impact on your profits. The Renovation and Modernization group has successfully implemented for large boilers and heaters since early the 1988s.

Features of Performance Enhancement Solutions, Steaming capacity enhancement, Efficiency improvement, Pollution abatement solutions, Instrumentation and controls, Troubleshooting & de-bottlenecking

Features of Utility Boiler Revamp Services

Remaining life analysis and life extension studies, Selective pressure part replacement/ upgrades, Re-engineering of fuel firing system, Performance enhancement solutions, Emission control solutions, Enhancing pressure parts by redesigning heat transfer surfaces like furnace water walls, super-heaters, re-heaters, economizers etc. Replacement of pressure parts



Commercial & Industrial Boiler Repair

Commercial and Industrial Boiler repair, Breakdown and Emergency call-out service for boilers. We have over 30 years experience in repairing commercial and industrial boilers. Fast and efficient service is what our clients receive when they call out our central heating engineers in India and Middle East countries. Jupiter offer a reliable and affordable service from professional central heating engineers.

We also offer many other services to business which include:

- Industrial Boiler Repair
- Industrial Boiler Breakdown
- Risk Assessment
- Design & Installation
- Boiler Servicing
- Boiler Analysation
- Service & Maintenance
- Pipeline Installation
- Wet Systems
- Vented/Unvented Cylinders
- Chlorifiers
- Flue Performance & Combustion Testing

Commercial & Industrial Boiler Servicing

We service and maintain Industrial and Commercial boilers to keep them at peak efficiency. Regular boiler servicing is a wise investment which will minimise the chance of an emergency call out and save money in the long run by having your boiler running in the most efficient manner.

Commercial & Industrial Heating: We have vast experience in installing, maintaining and repairing any business or industrial heating system that utilises over 70kw heat input. We can repair all types of systems from Atmospheric Boilers to the most modern Cascade Systems.

Contact us for a quotation from our commercial central heating engineer. Our assessment of energy usage, combined with the functionality of your current heating system, enables us to advise how to achieve that ambient climate for your work place. Our many years of professional experience dealing with boilers that require high volumes of gas mean that we will be able to quickly identify and fix the problem.



Ice Plant Design and Installations

We specialize in the design and installation of new ice plant facilities as well as additions and renovation of existing facilities. Our industry experience helps us to understand the unique

challenges faced by ice plant manufacturers. jupiter, will work with you through the entire process starting with a thorough needs analysis and CAD design. Our specialist design team will ensure that the plant is laid out for optimum efficiency and productivity, taking everything into account including equipment requirements, piping, plumbing and electrical engineering. Sizing the equipment correctly is critical to the success of the operation. We focus on taking both the current operational requirements and future growth potential into consideration.

Our technical team will work closely with you to ensure that the plant produces the highest quality packaged ice with the least amount of equipment and minimum maintenance. Installations are overseen by an experienced project team who work closely with the contractor, subcontractors and installers every step of the way. Finally, we



will train your operations and maintenance crew to ensure that the plant runs smoothly, efficiently and most importantly that it meets the goals for which it was built.

Whether you need a complete installation or simply the plant CAD design, Jupiter, is available to help your company run a productive and efficient operation.



Commercial Heating Industrial Heating Installations

We have performed many Heating Installations. Our knowledge of industrial heating installations in London and the South East include experience in warehousing, industrial units, kilns, factories and production spaces. We have invaluable experience and knowledge of all manufacturers in the industrial heating installation industry.

Your heating requirements combined with our assessment will determine the best industrial solution for you. Our services

solution for you. Our services include:

We also offer many other services to business which include:

- Design
- Installation
- Service & Maintenance
- Purging & Testing
- Upgrades
- Programming
- Automatic Shut Offs
- Combustion Testing
- Energy Assessment
- Energy Loss

Inspection Service



Good and accurate diagnosis is the first step in the maintenance or repair of a boiler system. Jupiter experienced professionals carry out boiler inspections thoroughly and efficiently to evaluate the condition of the boiler, and to determine what if any repairs are needed. To assist them in this work, the engineers utilize the latest and most sophisticated detection and verification equipment, such as u-sonic and fibre endoscopes and magnetoflux.

As with most technology, the earlier a boiler problem is identified, the better. This is especially

true of a system under presure, where even tiny flaws can quickly escalate into difficult and even dangerous problems.

Perhaps the most important inspection method, visual inspection by trained, experienced inspectors should precede the application of every other inspection method and is often used to determine the use of additional tests.



Heat Exchangers, Supply & Remanufacture Services

Jupiter has 25 years of experience in heat exchanger fabrication and supply, and in the reconditioning and repair of heat exchangers. From merely plugging a tube, to complete heat exchange retubing and all the way to rebuilding your heat exchanger from the ground up, we have the knowledge and expertise to do it right and to guarantee it.

Every heat exchange unit that leaves our shop is guaranteed against leaks. A thorough set of non-destructive tests is performed as appropriate to the vessel, including air testing of the tubes and the complete assembly, a vacuum test, and a hydro test. Quintel can perform either complete or partial heat exchanger retubes, and can, as necessary, manufacture a new bundle assembly, shell, or end channels.

Quintel is also a reseller of heat exchangers and heat exchange equipment for several of the major OEMs. Everything is thoroughly tested before being shipped out, saving our customers from risks of downtime.

Heat Exchanger Repair Services

From plugging a single tube, to the removal of deposits by chemical cleaning, to rebuilding units from the ground up, Jupiter offers heat exchanger repair services to suit each customer and situation. Our 25-plus years of experience in the reconditioning and repair of heat exchangers is on your side when it comes to performing quality work on your vital equipment. Our work also provides the same warranties as would apply to equipment direct from an OEM, and our customers can enjoy them at a fraction of the cost. And should repair of your heat exchange equipment not be the most cost-effective solution in your case, we will be the first to tell you.

Every unit that leaves our shop is guaranteed against leaks. Our chart recorders ensure that test results are saved and can be utilized in preventative maintenance evaluations.



Tube and Shell Pool & Spa Heat Exchanger



Upgrading of Heat exchangers and Components

Jupiter offers valuable expertise to operators who are considering an upgrade or replacement solution for their heat exchanger when process demands have outstripped the original specification and the space or funds are not available for a new installation.

Our thermal and mechanical assessment will establish the best and most cost-effective upgrade within the limitations of your budget – our vast experience with fin fans, fan drive motors and other aspects of air-cooled heat exchanger technology can make an air cooler upgrade a surprisingly successful option even if it is just a tube bundle upgrade.

Existing fans are often old, noisy or obsolete. Applying the correct engineering solution and using an up-rated drive with increased power electric motors can modify an outdated cooler to cope with a higher heat load while still meeting the ever more stringent industry standards for noise and vibration levels

Custom Made Heat Exchangers

Jupiter custom heat exchangers include tube-fin heat exchangers, flat tube heat exchangers, plate-fin heat exchangers, evaporators, condensers, and more. With 25 years of experience designing and building heat exchangers for performance-critical applications, Jupiter expertise is second-tonone. We have designed and built small ultra-lightweight plate-fin heat exchangers for airborne military applications, large flattube oil cooler heat exchangers for medical equipment, stainless steel tubed heat exchangers for lasers, and everything in between. Our strong engineering expertise and experience with all of the thermal components in a liquid cooling loop makes Jupiter the ideal partner for all of your heat exchanger needs.

Our streamlined design process for all heat exchangers relies on a combination of advanced modeling and analysis software, and hundreds of man-years of experience.



Brazed Plate Exchanger Stainless Steel



Water to Air Exchangers



Instrumentation Service

We specializes in certified instrument calibration and instrument service, even for the highest level of instrument precision and performance. Instrument accuracy is essential to reduce scrap, improve production rates, maintain quality and reduce energy usage. Jupiter can help you assure instrument accuracy.

Jupiter can: Service your existing instrumentation Design and supply complete control systems for a new plant Upgrade an existing plant

Jupiter provides the regular calibration services required to achieve and maintain best of standards. Our technicians are experienced in carrying out calibration either at your facility



or in our dedicated instrument repair and calibration shop. Jupiter will work with you to design a schedule to meet all your requirements.

Jupiter technicians are classroom-trained in all forms of instrument calibration, including devices to measure temperature, flow, relative humidity, PH, viscosity and more. They are skilled in calibrations of a single loop used in a simple application, or in establishing accuracy of a plant-wide automation system.

TRAINING - Combustion & Controls

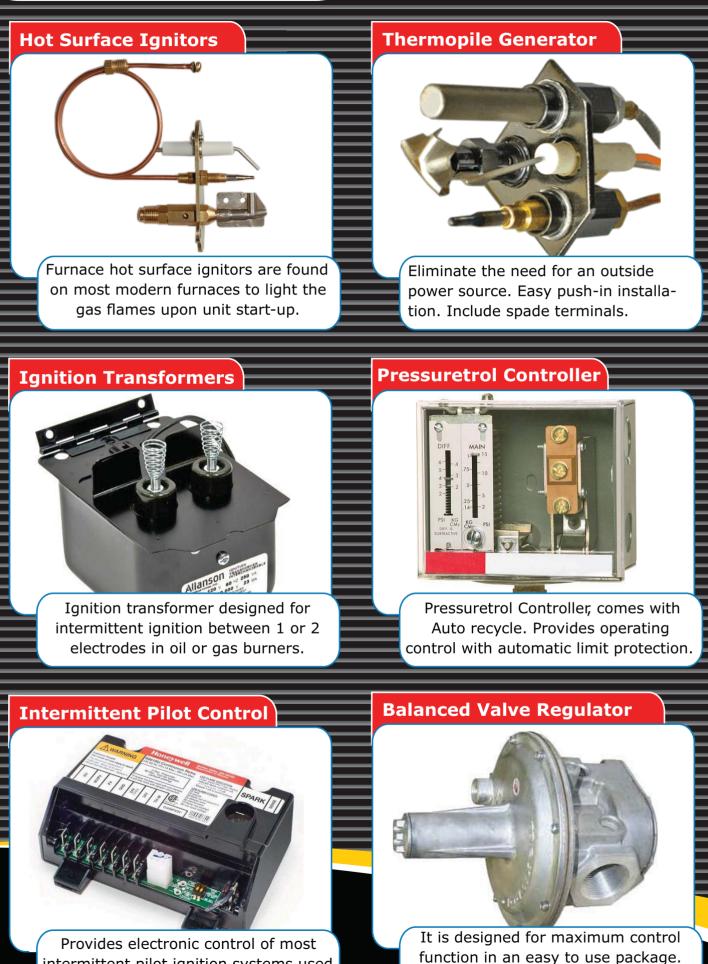
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(Boiler Spare Parts & Accessoriess)



intermittent pilot ignition systems used on gas-fired furnaces, boilers etc...

Intended for use with gas boilers etc...

(Boiler Spare Parts & Accessoriess)

Oil Burner Control



Oil Controls safely control the oil burner, oil valve & the ignition transformer in response to a call for heat.

Pressure-Temperature



Combination Pressure and Temperature Gauges are used in commercial, residential & institutional applications

NG/LP Conversion Kits



Natural Gas to Liquid Propane Conversion Kit Orifices, Fitting, Reg/Hose

Oil Vent Damper



Reduces heating bill, Improves efficiency, Increases comfort, Reduces off-cycle heat loss

Gas Pilot Assembly



Various types of brackets dual-flame pilot hood available for both orientations with or without electrode



Re-assembled Hydronic Module will simplify any radiant hydronic heating project.

💶 H.O: INDIA

(JEMS) Jupiter Equipments Manufacturer & Supplier Pvt Ltd.

Main Road, Pathur 613705, Tiruvarur-Dt, Tamilnadu, S. India Tel: +91-4366-232333, Mob: +91-95000 60000 E-mails: info@jems4u.com india@jems4u.com Skype: jupiter-india-h.o Web: www.jems4u.com

Main Branch

BAHRAIN

JEMS Co.W.L.L Salmabad, Kingdom of Bahrain E-mail: info@jems4u.com Skype: jupiter-bahrain-br

QATAR

Industrial Estate, Doha Qatar E-Mail: qatar@jems4u.com Skype: jupiter-qatar-br

SAUDI ARABIA

Industrial Area, Dammam Skype: jupiter-saudi-br

CHINA

JEMS Trading Co Ltd. Shanghai, China E-mail: china@jems4u.com Skype: jupiter-china-br

DUBAI UAE

Industrial Zone-1, Dubai UAE E-Mail: dubai@jems4u.com Skype: jupiter-dubai-br

SINGAPORE

Jurong West Singapore Skype: jupiter-singapore-br

We Solicit Agent, Dealers, Distributors, Marketing. Technical Service Support Enquiries & Information:

Contact for Middle East : **R. Jehan** (Sales & Sr Manager) Mob: 00973-39236574 Tel : 00973-17-874667 E-Mail: info@jems4u.com

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