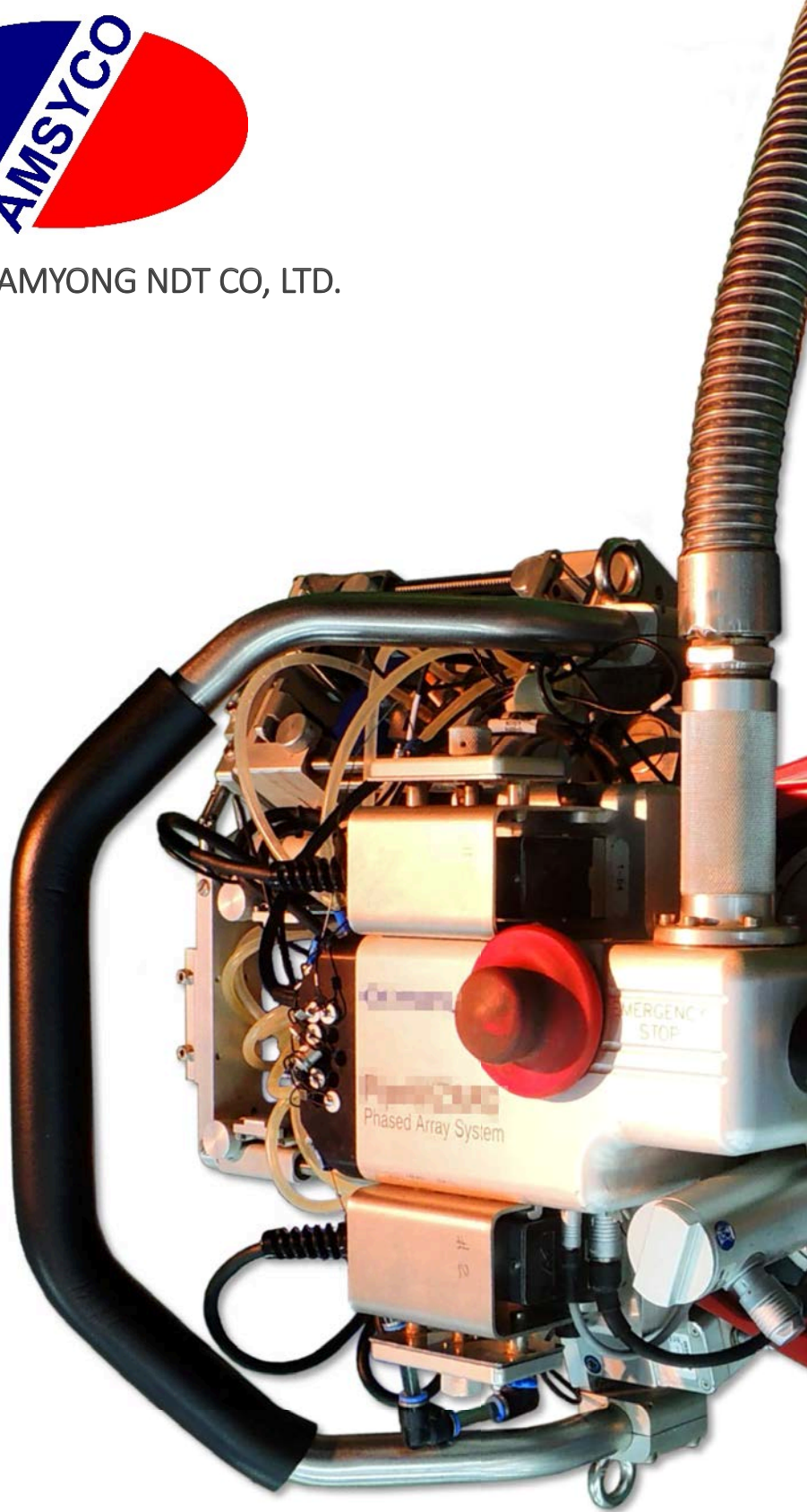




AL MUTAWA SAMYONG NDT CO, LTD.

Providing Exceptional Quality of  
Service and Customer Support in  
the Middle East since 1982

توفير نوعية استثنائية من الخدمة ودعم  
العملاء في الشرق الأوسط منذ عام 1982



## About AMSYCO

Al Mutawa Samyong NDT Co., Ltd. (AMSYCO) is one of, if not the most, respected Non-Destructive Testing and Inspection Service Providers in the Kingdom of Saudi Arabia and elsewhere in the Middle East. AMSYCO is a recognized industry leader with over 35 years experience and a proven track record of providing a range of quality inspection and testing services on schedule and exceeding Client expectations.

Established in 1982, AMSYCO still maintains the high standards that are demanded by the oil and gas, petrochemical, desalination, power and construction industries in the Region supported by its sister companies and affiliates in the U.A.E., Bahrain and Qatar. The Company employs a team of qualified and experienced Technicians, Inspectors and Coordinators dedicated to providing support, assistance and services to its valued Clients.

Since its inception in 1982 AMSYCO has successfully met the requirements of more than five hundred Clients within the Kingdom and elsewhere in the Middle East.

AMSYCO is a professionally managed company providing value for money, timely on target services, unparalleled Client support and with a reputation for quality and integrity. We firmly believe in sustainable and long-term relationships with our employees, suppliers and most importantly with our valued Clients.



We foster a working culture that encourages and permits our employees to do their best. AMSYCO supports their development and stands by any decisions made by them on behalf of the Company. In return we expect our employees to demonstrate their loyalty and commitment to AMSYCO's goals and code of ethics.

AMSYCO is fully committed to employing and training Saudi youths eager to learn and practice NDT and Inspection methods in order to meet the VISION 2030



ADVANCED NDT  
CONVENTIONAL NDT  
INSPECTION  
QA/QC  
WELD HEAT TREATMENT

# Advanced NDT Services (ANDT)



- **Automated Ultrasonic Testing (AUT)** for Cross Country and Offshore Pipeline Projects
- **Phased Array Ultrasonic Examination (PAUT)**
- **Time of Flight Diffraction (ToFD)**
- **Tube Inspection (ECT, IRIS, REFT and MFL)** on Exchangers, Evaporators, Air Coolers, etc.
- **Full Saturated ECT** on Exchangers, Air Coolers, etc.
- **Surface Eddy Current Examination**
- **Automated Corrosion Mapping**
- **Ultrasonic Guided Wave Testing**
- **Acoustic Emission Testing**

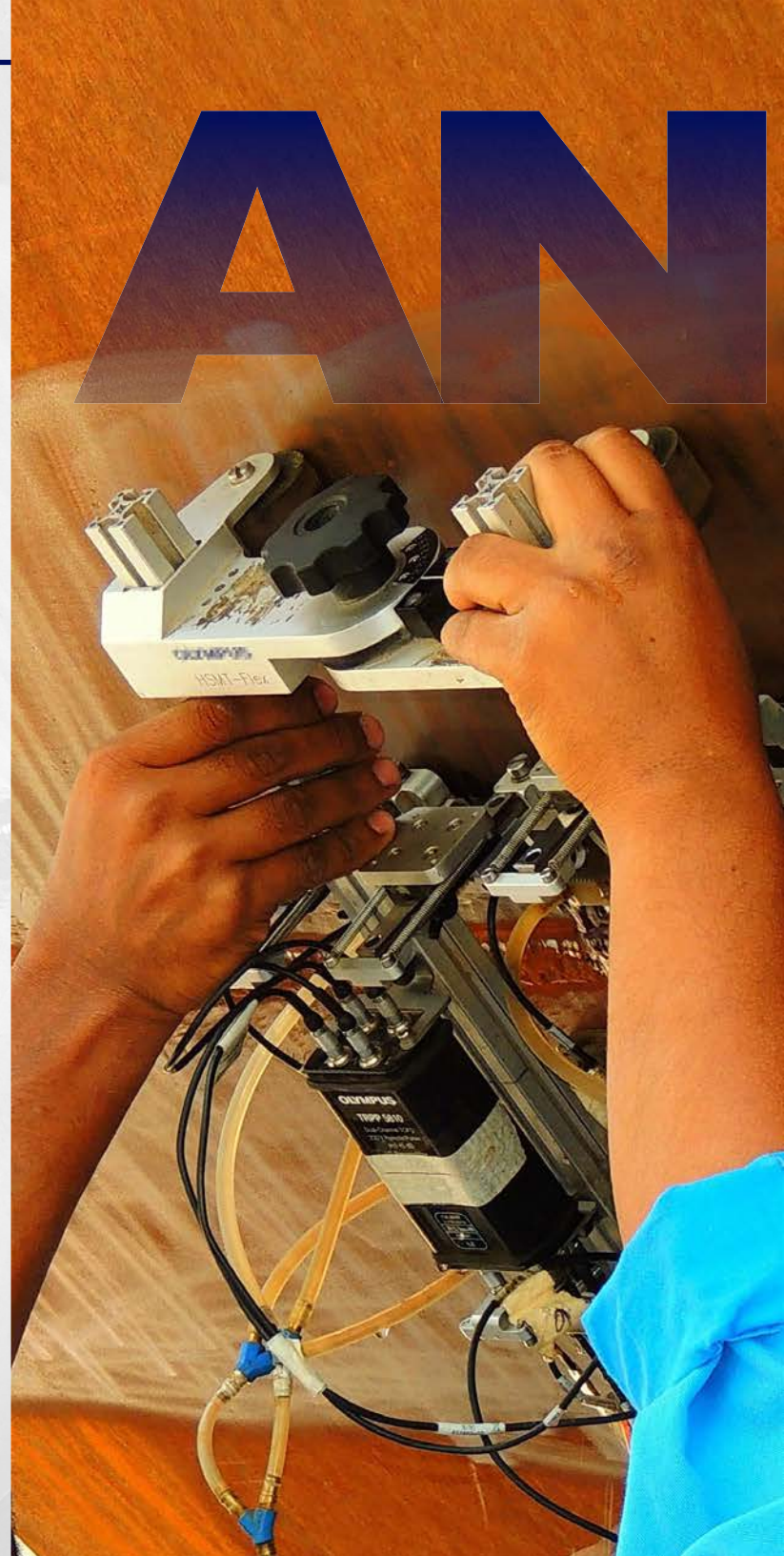
AMSYCO is committed to anticipating current and future Client and Project needs. We aim to regularly strengthen our range of Advanced NDT Services by investing in developing technologies so as to provide up-to-date automated and semi-automated ANDT methods throughout the Middle East and beyond.

AMSYCO's extensive portfolio of Advanced NDT solutions offers our Clients a range of applications from weld inspection to the detection of hidden cracks, voids, and other internal discontinuities.

## Your Advantage

AMSYCO's extensive experience and impressive track record in ANDT together with an extensive and in-depth knowledge of the problematical technical issues involved means that we are more than capable of satisfying Client requirements effectively, with value added and ensuring:

- Greater detection probability of discontinuities.
- Higher speed and productivity compared to conventional NDT as the process is fully automated and computerized.
- Real-time identification of defects including sizing, location, orientation and depth.
- Elimination of a radiation hazard area as required for conventional radiography allowing construction/fabrication to continue without disruption.
- Elimination of costly consumables such as isotopes, films and process chemicals used in radiography.
- Use of environment friendly methods that only discharge couplant water.
- Test results are available in real time on site. No waiting for film processing or interpretation as required with radiography. Minimal standby time on site.
- Test data and reports are electronic. No bulky storage needed for films and reports. Data and reports can be emailed or uploaded upon request. Total project data can be saved on a data storage device .
- In the event that the Client's ANDT data files are damaged or corrupted, they can be retrieved by AMSYCO and made available.



A major advantage of using AMSYCO's ANDT capability is that the Company is equipped with a comprehensive range of scanners which can be used on the differing types of geometrical configurations encountered for test. These range from manually encoded units that are very versatile to fully automated scanners that are highly sophisticated.

AMSYCO's technical team will be more than happy to give you a demonstration and identify which Advanced NDT method is best suited to your requirements.



# Inspection Services

- Mechanical Equipment Inspection
- Paint and Coating Inspection
- Electrical and Instrumentation Inspection
- Material Expediting
- Site Quality Control
- Welding Inspection and Welder Performance Qualification Test (WQT)
- Procedure Qualification Record (PQR)
- Mechanical Testing



Our Clients recognize that AMSYCO provides the highest level of certainty and confidence by ensuring that inspected materials and equipment are safe and in full compliance with applicable Codes and Standards and approved Project Specifications. We only employ qualified, highly trained and experienced Inspectors and Expeditors. We are committed to achieving and maintaining a reputation for professionalism, trustworthiness, commitment, and passion forged through the partnerships we build with our Clients.

## Why choose AMSYCO Inspection Services?

- AMSYCO has been in partnership with many of its Clients for more than three decades; achieving a reputation for delivering reliable and responsible Inspection Services.
- Every AMSYCO Inspector or Expediter has a minimum of 10 years experience in their respective disciplines and regularly refresh their knowledge through participation in AMSYCO's long established Training Programs.
- AMSYCO has an ample resource of Inspectors and Expeditors and is therefore able to deal with any Client requirement or emergency.
- Our Clients benefit from our personalized support services, which include an assigned Coordinator and timely, comprehensive Inspection and Expediting Reports.
- Inspection and Expediting Reports are submitted within 24 hours upon completion of any Inspection Assignment and are inclusive of all relevant data and photographs.
- AMSYCO Inspection Department uses **PERIDOT** and **ONYX** software.

**PERIDOT** is one of AMSYCO's unique in-house developed computer programs that manages the scheduling, mobilization and activities of Inspectors and Expeditors all the way through from initial discussions with Client and Vendor to final invoice submission. **PERIDOT** allows for:

- Efficient appropriation and deployment of resources
- Systematic method of coordination
- Rapid data retrieval of inspection assignment details such as vendor name, location, inspection date, type and scope of inspection, assigned inspector etc.

**ONYX** is designed for:

- Creating and storing all Welder Qualification data
- Printing of WQT IDs on polyvinyl chloride (PVC) card
- Data retrieval for purpose of certificate renewal

# INSPE



### PERIDOT

SCHEDULING														
Month:	01/2017	Condition:												
Input:		Type:	M	R	Status:		Independent:							
Days:		Order:			Travel by:									
Class:		Location:			Right Status:									
RS:		Region:			Job Status:									

# Nondestructive Testing Services (NDT)

- Industrial Radiography (RT)
- Small Controlled Area Radiography (SCAR)
- Ultrasonic Examination (UT)
- Magnetic Particle Examination (MT)
- Liquid Penetrant Examination (PT)
- Magnetic Flux Leakage (MFL) of Storage Tanks
- Ferrite Testing
- NDT Level-III Consultancy, Training and Certification Services



Managed from its base in Al Khobar, Saudi Arabia, AMSYCO has registered branches located in the Eastern, Western and Central Regions all of which have radioisotope storage facilities duly approved by the King Abdullah City for Atomic and Renewable Energies (KA-CARE), the Regulatory Authority in the Kingdom. AMSYCO can rapidly deploy its highly skilled, multi-disciplined and qualified NDT Technicians and Crews from the location nearest to a Client's facility or project. AMSYCO can guarantee the rapid submission of test results; the highest levels of productivity and professional integrity in the business. We are the solution to meeting a Client's specific requirements on schedule and within budget.

## We Provide Solutions

AMSYCO provides an exceptional quality of service to its Clients by ensuring:

- Use of the correct tools and devices on site which are always in good working condition.
- Safe operating practices supervised and monitored by a Radiation Safety Officer (RSO).
- Availability of optimum strength radioisotopes essential to achieving maximum productivity.
- Timely completion of the number of joints identified for testing.
- Technician and Crew productivity which is continually monitored by the application of our QUARTZ Program; developed in-house and which guarantees conformity to acceptable productivity and quality parameters.
- Clients can be provided with data relating to tests conducted by referral to our in-house SAPPHIRE Program.

We are committed to ensuring that the Technicians and Crews we assign to a Client are more than capable with regard to skills, experience and knowledge.

- AMSYCO's Technicians are industrious and honest workers
- Over 70% of our NDT Technicians are multi-disciplined and are certified in two or more NDT methods resulting in the saving of time and money for the Client.
- Every Technician have a minimum of 5 years experience in his respective disciplines.
- AMSYCO's Technicians, though qualified and proficient in their respective NDT methods, are encouraged to attend in-house refresher courses to further enhance their skills.
- In addition our NDT Technicians attend regular AMSYCO's Radiation Safety Training Courses and participate in Emergency Response Exercises.



## SCAR



AMSYCO owns and operates the latest SCAR equipment which is ideal for shutdowns and for carrying out radiographic work in heavily congested work areas. The SCAR system permits the performance of radiography within a confined controlled area without disruption to normal operations. We are licensed to import and operate Selenium 75 sources.

## Radiation Safety

AMSYCO's Radiation Safety Officers (RSO), are certified by KA-CARE and are stationed at strategic locations within Saudi Arabia. They are responsible for monitoring and overseeing the use and safety of radioisotopes. It is a regulatory requirement by KA-CARE that any establishment involved with equipment or material that emits harmful radioactive energy must employ an RSO.

An RSO's duties include the training and instructing of personnel in the handling and use of radioactive materials, in particular regarding protection from exposure of radiation and the safe transportation and deployment of sources. The RSO's responsibilities also include maintaining exposure records, applying to KA-CARE for permits to operate, emergency accident response and implementing corrective action in the event of any radiation related incident.

Kingdom of Saudi Arabia  
King Abdulaziz City for Science and Renewable Energy  
National Center for Radiation Protection

المملكة العربية السعودية  
مدينة الملك عبد الله للعلوم والتقنية  
المركز الوطني للأمن وإدارة الأزمات

ممارسة التصوير الإشعاعي الصناعي

رقم الرخصة: ( ت ص - ٢٤ - ٣ )

صدرت في: ١٤٣٦/١/١٨ هـ  
تنتهي في: ١٤٣٦/١/٢٢ هـ

تم منح  
شركة المطوع سام بونج لاختبار المواد الصالحة - ينبع  
رقم السجل التجاري: (٤٧٠٠٠١٣٣٨٢)

هذه الرخصة لمزاولة الممارسة بالمصادر المشعة التالية

Isotopes	Max. No.	Physical State	Containment	Max. Activity/Source
Ir-192	9	Solid	Sealed	100 Ci

Projector Max. No.	Projector Shielding
0	D.U.

موازين المصادر المشعة

الموازين	الخطأ النسبي (%)
١	١

مدير إدارة الإشعاع

الموافق: ١٤٣٦/١/٢٢ هـ

الموافق: ١٤٣٦/١/٢٢ هـ

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المملكة العربية السعودية  
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الموافق: ١٤٣٦/١/٢٢ هـ

Kingdom of Saudi Arabia  
King Abdulaziz City for Science and Renewable Energy  
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المملكة العربية السعودية  
مدينة الملك عبد الله للعلوم والتقنية  
المركز الوطني للأمن وإدارة الأزمات

ممارسة التصوير الإشعاعي الصناعي

رقم الرخصة: ( ت ص - ٢٤ - ٣ )

صدرت في: ١٤٣٦/١/١٨ هـ  
تنتهي في: ١٤٣٦/١/٢٢ هـ

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مدير إدارة الإشعاع

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الموافق: ١٤٣٦/١/٢٢ هـ

الموافق: ١٤٣٦/١/٢٢ هـ



## Pre and Post Weld Heat Treatment (PWHT)

AMSYCO offers the Pre and Post Weld Heat Treatment of pipes and small vessels by means of electrical resistance heating using flexible ceramic pads. We have an extensive inventory of 50 kVA and 65 kVA capacity PWHT Equipment sets including control programmers, consumables, spares and accessories together with ceramic pads of all sizes, more than sufficient to service major site or project requirements.

In today's competitive market companies are looking at new ways to reduce costs. One of the primary causes of loss in any operation is that of frequent equipment breakdown. AMSYCO's preventive maintenance program ensures that our PWHT equipment is maintained in peak condition at all times. We are therefore confident that we can sustain maximum productivity with minimal downtime on site. Furthermore, our PWHT Technicians are fully trained in the use of the equipment and are capable of troubleshooting associated problems on site.



## Positive Material Identification (PMI)

Depending upon application, material and Client requirements, we can provide Positive Material Identification by means of Optical Emission Spectrometry (OES) and X-ray Fluorescence (XRF) using our SPECTROTEST equipment which is capable of analyzing Carbon Content or the NITON XRF Analyzer anywhere in Saudi Arabia.



## Hardness Testing (HT)

AMSYCO provides Hardness Testing as part of our PWHT Services and which can also be made available separately.

- Portable Brinell Hardness Testing by hammer blow involving the comparison of the dimensions of the resulting impressions (indents) against the Telebrineller chart.
- Digital Equipment which enables quick and convenient on-site hardness testing utilizing the Ultrasonic Contact Impedance (UCI) method. This handy piece of equipment can be deployed anywhere without the need of a microscope normally associated with Telebrineller Hardness Testing.

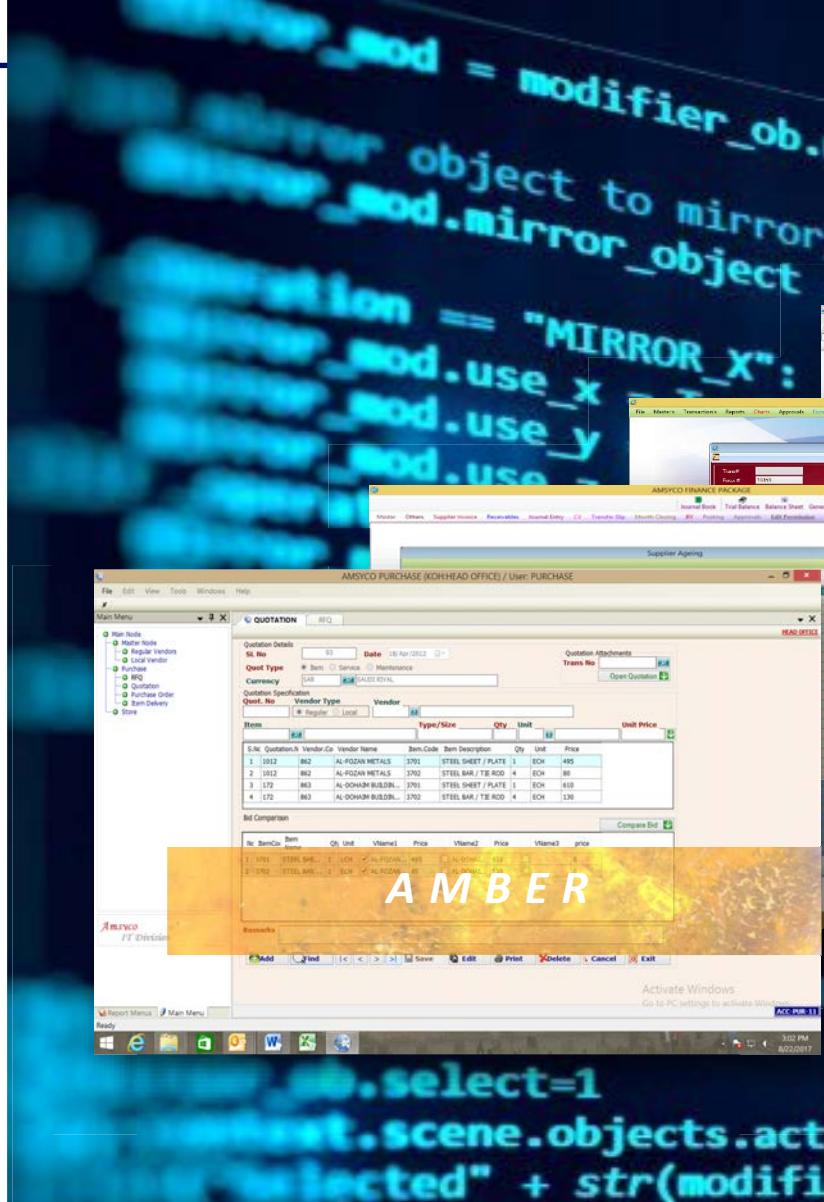


## IT System Supported Services

AMSYCO has always strived to provide the highest quality of services to its Clients. In order to achieve this we practice efficient management protocols and equip all employees with the current technology necessary to run our business efficiently and effectively.

We have designed and implemented our own ERP System to suit our line of business and the needs of our Clients and which provides:

- A platform to simplify and speed-up the recording, retrieval and assessment of data.
- Indication of probable risk or failure.
- Records Control and Management.



RUBY	AMSYCO Business System	One of the most powerful modules incorporating Job Order creation and any subsequent activities relating to Business and Contract Management.
JADE	Personal Management Information system	Human Resources and Administration modules covering Travel, Transport, Housing, Messing, Training, Certification etc.
SAPPHIRE	RT Reporting System	Manages and Controls all test results and data relating to Radiographic works.
PERIDOT	Inspection Service Program	Manages all Inspection activities from scheduling and mobilization of Inspectors and Expeditors through to final billing.
QUARTZ	Data Analysis System	Manages Technician productivity, working time, consumable usage and performance monitoring. Includes a module for NDT invoicing.
OPAL	Accounts Package	AMSYCO's custom made accounting package.
EMERALD	Payroll Package	The package handles all payroll related activities in association with the HEXAGON Program and in compliance with the Saudi Wage Protection System.
AMETHYST	Store System	Handles materials and equipment issuance and receiving including store to store transfers by means of digital approvals.
AMBER	Purchase System	Manages all purchasing activities including handling of requests, quotations, bid-comparisons, and ordering.
ONYX	Welder Qualification System	Welders Qualifications digital registrations and records including printing of plastic Welder ID Cards.
PEARL	<a href="http://www.amsyco.com.sa">www.amsyco.com.sa</a>	We are equipped with a portal for external access by our employees and we also provide a window for our valued Clients.

NOTES:





AMSYCO's Industrial Supply Division is a special branch that supplies various equipment and materials to Saudi Arabia. Among which, is the distributor of the best and most trusted Injection Moulding Machines from Korea, WOOJIN PLAIMM.

We distribute a comprehensive line-up of hydraulic, electric, and pneumatic driven Injection Moulding Machines starting from 30 Tons up to 3,500 Tons mold force with a variety of features and options for energy savings, high speed operation, table attachments and others.

For Inquiries, please call +966 13 890 7451 Ext. 350, mobile +966 55 547 0312 or send an inquiry to: [isd@amsyco.com](mailto:isd@amsyco.com).

DL-A5 series	Premium Two Plate Turning Injection Molding Machine	450 ~ 3300 tons (14 models)	
TB series	Energy-saving universal hydraulic injection molding machine	90 ~ 880 tons (11 models)	
TH series	Multipurpose Hydraulic Precision Injection Molding Machine	50 ~ 450 tons (10 models)	
NC series	Double (two-color) hydraulic injection molding machine	130,220 tons (2 models)	
TE series	Electric injection molding machine	30 ~ 850 tons (10 models)	
TE-K series	High-performance electric injection molding machine	50 to 330 tons (6 models)	
DL series	Two-Plate Direct Injection Molding Machine	450 ~ 3500 tons (10 models)	
VH series	Vertical Injection Molding Machine	50 ~ 150 tons (5 models)	





## HEAD OFFICE

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