Joint ATS Siemens Manufacturing Execution Systems World Tour

Nuremberg, Genova/Italy.
In late September, Siemens will be joining forces with solution partner ATS to launch their MES (Manufacturing Execution Systems) World Tour in Melbourne, Australia, in an effort to generate further exposure on the benefits of MES and promote the relevant portfolios of both companies. Attendees will be able to listen to technical lectures or participate in interactive sessions on the subject of MES.

The agenda includes lectures presented by Mesa (Manufacturing Enterprise Solution Association) Europe as well as industry experts and MES consultants from ATS and Siemens.

Subjects covered by the interactive sessions will include the following subjects: the latest thinking from MESA International (Manufacturing Enterprise Systems Association), integrated quality with MES (real applications from the food and automotive industries), MES in discrete manufacturing (real applications from the aerospace industry), MES in a multi-site roll-out (current roll-out and updates from Carlsberg Breweries), MES “Out of the Box” (Siemens approach towards the “factory in a box” concept), as well as a live demo “Filling, Packaging, Traceability, Environmental and Quality Inspection) for brewing and automotive applications.

World Tour: Siemens- ATS  

Registration for MES seminars  
www.ats-global.com/gb/en/7_ATS-contacts.html?form=16
New interface for the solar sector

Karlsruhe, Nuremberg. Siemens Industry Automation has extended its competence in "Vertical Market Management (VMM) Glass" to the solar sector, to provide support for producers and field users from the solar industry with a range of automation solutions and products. The new VMM Glass & Solar based in Karlsruhe benefits from the extensive fund of expertise built up by Siemens over its many years of involvement in the glass and solar industry. The aim of the VMM is to better utilize potential in the solar sector for Siemens by concentrating existing application expertise.

The VMM acts as an interface to the company’s own sales units. It provides advice, establishes contacts, sets out the sector strategy for the solar industry and draws up technical concepts, addressing different areas such as factories producing ultra-pure silicon, glass for solar applications or manufacturing plants for photovoltaic modules. Here, the VMM offers automation solutions designed to significantly reduce the “energy amortization” period for solar cells. Typically, it takes around three years for a solar cell to supply the amount of energy required for its production.

Siemens Solar Industry
www.siemens.com/solar-industry
Implementing RFID at zero cost

Radio Frequency Identification (RFID) is a technology used to streamline production and logistical processes. As leading supplier, Siemens offers a comprehensive RFID portfolio, including products and systems from Siemens Industry Automation, technical and business management advice, process design as well as technology, process and IT integration. But as the grip of recession tightens, lacking availability of funding can present a significant stumbling block for medium-sized enterprises keen to introduce RFID into their operations. This is the conclusion reached following an online survey by the “Electronic Commerce Network” (EC-NET). To address this deficit, Siemens Finance & Leasing is offering financing for RFID projects. To allow companies to streamline their production and logistical processes with new RFID solutions, Siemens Finance & Leasing has come up with a new scheme which will allow RFID projects to be financed within budget.

RFID technology has become firmly entrenched in a whole range of applications such as production control, tracing or logistical functions. The economic benefits offered by this technology have long since been proven beyond question.
Financing through leasing opens up the benefits of RFID technology without impacting on budgets. But despite the undoubted advantages of introducing RFID, like any other investment this type of project still places an added financial strain on stretched company finances. Small and medium-size enterprises are particularly affected by the present tight-fisted lending climate, preventing them from implementing essential improvements in their business processes through the introduction of RFID. Custom-tailored RFID leasing solutions offer one way out of this predicament, as companies only need to make the far more affordable regular leasing payments rather than find a high initial outlay. The particularly ingenious feature of this scheme is that the payments are financed by the savings achieved using RFID, allowing the RFID project to be implemented without impacting on the budget. As well as having an immediate positive impact on the cost situation, this solution has the knock-on effect of keeping valuable liquidity intact, making for greater flexibility.

Siemens RFID Solutions
www.siemens.de/rfid

Customer benefits offered in the “Funding by saving” scheme

<table>
<thead>
<tr>
<th>ROI calculation</th>
<th>Saving potential &amp; Leasing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investment:</td>
<td>Investment per month:</td>
</tr>
<tr>
<td>155,000 EUR</td>
<td>2,500 EUR</td>
</tr>
<tr>
<td>Annual return:</td>
<td>Return per month:</td>
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<tr>
<td>45,000 EUR</td>
<td>3,750 EUR</td>
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</tbody>
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**ROI**
**dependent on assumed interest rate**

Leasing payments are financed solely by the savings achieved using RFID!
New transponder for harsh industrial environments

Nuremberg.
The Siemens Industry Automation Division has extended its range of RFID (Radio Frequency Identification) systems to include a new transponder (data storage): the rugged heat-proof Simatic RF680T designed for harsh industrial environments.

The new Simatic RF680T is a passive, maintenance-free UHF-based transponder (EPC, Class 1 Gen2) for storing the "Electronic Product Code" (EPC, 96/240 Bit) with 64 bytes of additional memory. The transponder permits direct mounting onto metal and has a high acquisition range of up to four metres. It is heat-proof, extremely rugged and possesses a high protection rating (IP68; IPx9K) for resistance to oils, lubricants and cleaning agents. The transponder is designed for the frequencies 868 MHz (Europe) and 915 MHz (USA).

The heat-proof data storage is typically used for the RFID identification of load carriers, car bodies and transport containers as well as in asset management, and also for applications in production logistics subject to high thermal stress (up to +220 °Celsius).

Siemens RFID Systems
www.siemens.de/simatic-sensors/RFID
Siemens updates and extends its training program on automation and drive technology

Nuremberg.
On 1 October 2009 Siemens updated its Sitrain Certification Program and extended its training portfolio of AZWV-certified courses (Anerkennungs- und Zulassungsverordnung Weiterbildung – Regulation on the recognition and licensing of continuing training courses). Sitrain – training from Siemens for automation and industrial solutions – is tailored to meet current requirements in industry.

The updated version of the proven Sitrain Certification Program now includes qualification as a PLC technician. Another new feature in the service sector is that the Siemens Certified Service Technician Level 1 can now be obtained after the second training phase. A student who passes the five-hour exam will receive a certificate which is valid for three years and certifies that he or she has state-of-the-art knowledge of the field. After expiry of the three-year validity period, repeat certification will be required.

For Germany, four additional training programs on Simatic and Sinamics automation and drives have been certified as complying with the AZWV Regulation (Anerkennungs- und Zulassungsverordnung Weiterbildung). Attendance at these courses is funded by the Federal Labour Agency. Information on continuing training courses certified as AZWV-compliant and a complete list of all Sitrain courses are available at www.siemens.de/sitrain-azwv. Further information is available from your local labour agency or at www.arbeitsagentur.de.

The AZWV is a statutory regulation issued by the German Federal Ministry of Economic Affairs and Labour and governs the recognition and certification of training providers and courses.

Sitrain course portfolio
www.siemens.de/sitrain

Programmers, Commissioning engineers, Configuring engineers

New approaches to learning

Service personnel, Operators, Maintenance personnel, User

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1) Check your entering requirements online at www.siemens.de/sitrain
China keen to install efficient heat metering systems

Nuremberg/Germany, Beijing/China. The Chinese government is planning to invest millions in new-build and extension work on a district heating (CPH) network. In the weeks since July 2009 alone, the Siemens Industry Automation Division in China has received over 30 orders for ultrasonic energy metering systems. As major projects were being completed in the run-up to the 2008 Olympic Games, Siemens supplied an extensive heat metering solution to the Beijing District Heating Group (BDHG). BDHG chose Siemens as its preferred supplier because of the vendor’s reputation for high-end technology and dependability, and also for reasons of price and the quality of its after-sales service. The delivery to BDHG included the Siemens Sitrans FUE380 ultrasonic heat meter, and Siemens was also appointed full-line system and application provider for the district heating industry.

Siemens is a total solution provider in the heat metering field and thus a full-line system and application provider for the district heating industry. This means that a customer’s needs for process instrumentation and automation can all be met by a single supplier – from individual components to entire systems. With over 30 years of experience of ultrasonic heat metering and as market leader in the field, Siemens’ systems have a reputation for utmost precision, long-term measurement constancy and little or no need for maintenance. Siemens ultrasonic energy meters comply with all relevant international standards. The ultrasonic energy meter most often selected for the projects in China was Sitrans FUE380, which is particularly suited for metering at remote sites, e.g. substations, and in large building complexes. These are locations where an independent power supply or a back-up to the mains power supply is required. With a guaranteed six-year battery life, Sitrans FUE380 ensures a reliable supply in any system - whether stand-alone battery-operated or a back-up for a potentially unreliable mains supply. Deployed in district heating systems, Sitrans FUE380 can measure water quality and conductivity to a high standard of accuracy and reliability, regardless of any additives, particles and scale adhering to pipe walls and whether the system is open or closed. In such projects, Siemens not only delivers products but also provides help every step of the way through implementation - from product selection, documentation, installation and commissioning to after-sales service.

China is today the world’s second biggest energy consumer and emitter of CO². In 2007, the country’s space heating requirement was 2.85 billion square meters, a 7.1% increase over the previous year. And further growth is expected. Faced with these high growth rates in heat and heating demand, the government has set a number of targets for 2010, including a 16-million-tonne saving in standard coal consumption by means of heat metering and energy-saving alterations to existing buildings in the northern district heating area and achievement of 35% of its heat metering renovation target in large cities. Additionally, all government and other large public buildings currently not equipped for energy conservation are to comply with the government’s heat metering requirements within two to four years.

Process Instrumentation
www.siemens.com/flow
Extended water library to support efficient hydrological engineering

Nuremberg. Water management places exacting requirements on the operational management of waterworks, pumping stations and desalination plants – particularly in terms of process automation. To assist in the planning phase, Siemens Industry Automation offers a free Simatic water library which makes for ultimate efficiency in planning automation projects. The recent release of version 7.1 has made operation significantly easier and it supports the current versions of both the Simatic PCS 7 process control system and the Simatic WinCC process visualization system.

Since 2008, Siemens has been providing this free Simatic water library in German, English, Chinese and Spanish and already has over 200 registered users. The newly released 7.1 version is now available for the current V7.1 issues of the Simatic PCS 7 process control system and V7.0 of the Simatic WinCC process visualization system. The Simatic PCS 7 variant supplements the recently introduced Advanced Process Library (APL) with the functions required in water management and makes consistent use of the new PCS 7 system architecture.

The Simatic water library is an integral part of the extensive Siemens product and system portfolio, an offering which ensures integrated automation and power distribution throughout water management. It includes over one hundred tried-and-tested function modules as well as industry-specific visualization images, engineering templates and tested typicals of measuring points and drives. Demo applications from all fields of water management illustrate the applications for and performance of each module. They are designed for use by system integrators and operators alike as efficient templates to support their automation planning.

In its appearance, the Simatic water library is consistent with the look and feel of both Simatic PCS 7 and Simatic WinCC, and it offers intuitive operation without tedious prior training and with a reduced risk of faulty operation.

Simatic water library
www.siemens.de/wasser/wasserbibliothek
Future-proof innovations in machine tools

Nuremberg, Milan/Italy.

“It is only by taking a holistic approach to productivity, life-cycle costs and total cost of ownership that time and costs can be minimized – a principle that applies equally to an individual machine tool and the workpieces produced on it”; this is a view emphatically defended by Uwe Häberer, head of Machine Tools at Siemens Drives Technologies. “Acting on that principle, Siemens continues to support the mechanical engineering sector and its customers by constantly innovating in the field of machine tool automation. Siemens will be exhibiting its latest innovations at EMO, to be held from 5 to 10 October 2009 in Milan. The machine tool innovations on display range from energy-efficient operation through complete CAD/CAM/CNC chain integration to new software applications such as MDynamics.

The new Sinumerik 828D compact control will be the highlight of Booth E10/F03 in Hall 3. “With Sinumerik, Siemens is offering an integrated system platform for machine tool automation”, Häberer explained. “Our completely redesigned Sinumerik 828D is setting standards for compact CNC systems.” Building on the Sinumerik 802D sl for standard machine applications and the 840D sl for premium applications, the new Sinumerik 828D offers clients an application designed to meet the needs associated with complex lathes and milling machines in a workshop setting. Offering intelligent kinematic transformations, an efficient tool management system and 80 bit precision, this new CNC control has performance features which were previously found only in the premium segment. The Sinumerik 828D is suitable for single part manufacture and small production runs as well as for large-scale series production. Programmable in full graphic, high-level language command or ISO, it can be used anywhere around the globe. Together with its new Sinumerik 828D control, Siemens will be launching Sinumerik Opera, a new, intuitive user interface which incorporates HMI Advanced, ShopMill and ShopTurn. Siemens’ extensive portfolio of electrical and control equipment and other technology applications for machine tools reduces time-to-market, lowers the total cost of ownership and simplifies updating with new software versions and generations throughout a machine tool’s entire life cycle, Häberer explained. The portfolio, he continued, allows for a uniquely broad and internally compatible range of flexible and scaleable automation solutions: “This portfolio can be used to efficiently leverage the potential for optimization still resident in existing machine tool concepts, but more importantly it can be used cost-effectively to shorten the time-to-market for new ideas.” Siemens’ comprehensive range of automation solutions, he summarized, gives its customers an edge which they can transform into strategic success – an opportunity of particular benefit in a fiercely competitive environment. “Siemens’ machine tool automation solutions provide the predictability and reliability which are key to the success of any innovation and rationalization project.”

Siemens at the EMO
www.siemens.com/emo

Industry

The Siemens Industry Sector (Erlangen, Germany) is the worldwide leading supplier of production, transportation, building and lighting technologies. With integrated automation technologies as well as comprehensive industry-specific solutions, Siemens increases the productivity, efficiency and flexibility of its customers in the fields of industry and infrastructure. The Sector consists of six Divisions: Building Technologies, Drive Technologies, Industry Automation, Industry Solutions, Mobility and Osram. With around 222,000 employees worldwide Siemens Industry posted in fiscal year 2008 a profit of EUR 3.86 billion with revenues totalling EUR 38 billion. www.siemens.com/industry

Industry Automation

The Siemens Industry Automation Division (Nuremberg, Germany) is a worldwide leader in the fields of automation systems, low-voltage switchgear and industrial software. Its portfolio ranges from standard products for the manufacturing and process industries to solutions for whole industrial sectors that encompass the automation of entire automobile production facilities and chemical plants. As a leading software supplier, Industry Automation optimizes the entire value added chain of manufacturers – from product design and development to production, sales and a wide range of maintenance services. With around 42,900 employees worldwide Siemens Industry Automation achieved in fiscal year 2008 total sales of EUR 8.7 billion.

Drive Technologies

The Siemens Drive Technologies Division (Nuremberg, Germany) is the world’s leading supplier of products and services for production machinery and machine tools. Drive Technologies offers integrated technologies that cover the entire drive train with electrical and mechanical components. This includes standard products but also encompasses industry-specific control and drive solutions for metal forming, printing and electronic manufacturing as well as solutions for glass, wood, plastic, ceramic, textile and packaging equipment and crane systems. The services provided by the Division include mechatronics support in addition to online services for web-based fault management and preventive maintenance. With around 39,900 employees worldwide Siemens Drive Technologies achieved in fiscal year 2008 total sales of EUR 8.9 billion.