

Press Newsletter

Division Drive Technologies and Division Industry Automation

May 2010

www.siemens.com/press

SIEMENS

Division Drive Technologies

Economical system solution for lathes and milling machines

Nuremberg, Germany.
Sinamics V60 is the drive system launched by the Siemens Drive Technologies Division designed to control feed axes in basic CNC machine tool applications.

The system comprises the CPM60.1 Controlled Power Module, the servomotors of the 1FL5 series and matching connection elements. The CPM60.1 module comes with a pulse/direction interface for the connection with a higher level control. The use of the pulse/direction interface in conjunction with the servo motor combines the simplicity of a stepper motor control and the performance of the servo drive to provide a blend in this power range. The 1FL5 servomotor uses an integrated TTL encoder to send position signals to the drive. The sturdy 1FL5 servomotor features an optional holding brake and is available in four dif-

ferent motor types with torque levels of 4, 6, 7.7 and 10 newton meters (Nm). Pre-configured motor drive combinations make for simplified commissioning. Used in conjunction with the Sinumerik 802S base line CNC, control tasks in machine tools are performed easily and economically. The maintenance-free CNC control is suitable for lathes and milling machines with up to three axes and one spindle. Simple operation and programming make for rapid workpiece and tool setup. Moreover, it supports cycle-based and contour-based programming. Using the "manual machine" function, the lathe can also be operated in the same way as a conventional machine by means of handwheels. The integrated PLC is compatible with the Simatic S7-200 controller.

Siemens Sinumerik 802S/802C
www.siemens.com/sinumerik802



Sinumerik 802S base line together with drive system Sinamics V60 and servomotor 1FL5.



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Division Drive Technologies

Online feature about high-efficiency motors

Nuremberg, Germany.

From June 16, 2011 motor manufacturers are only allowed to market motors with a minimum efficiency of IE2. Siemens supplies all the motor series that are affected by this legislation and can provide support

with changeover. On the Siemens press homepage, you can find a feature with background information, among others press pictures, brochures and a video with Dr. Joerg Hassmann, Head of Product Management Standard Motors.

Siemens Drive Technologies - Online Feature
<http://www.siemens.com/presse/drivetechnologies>

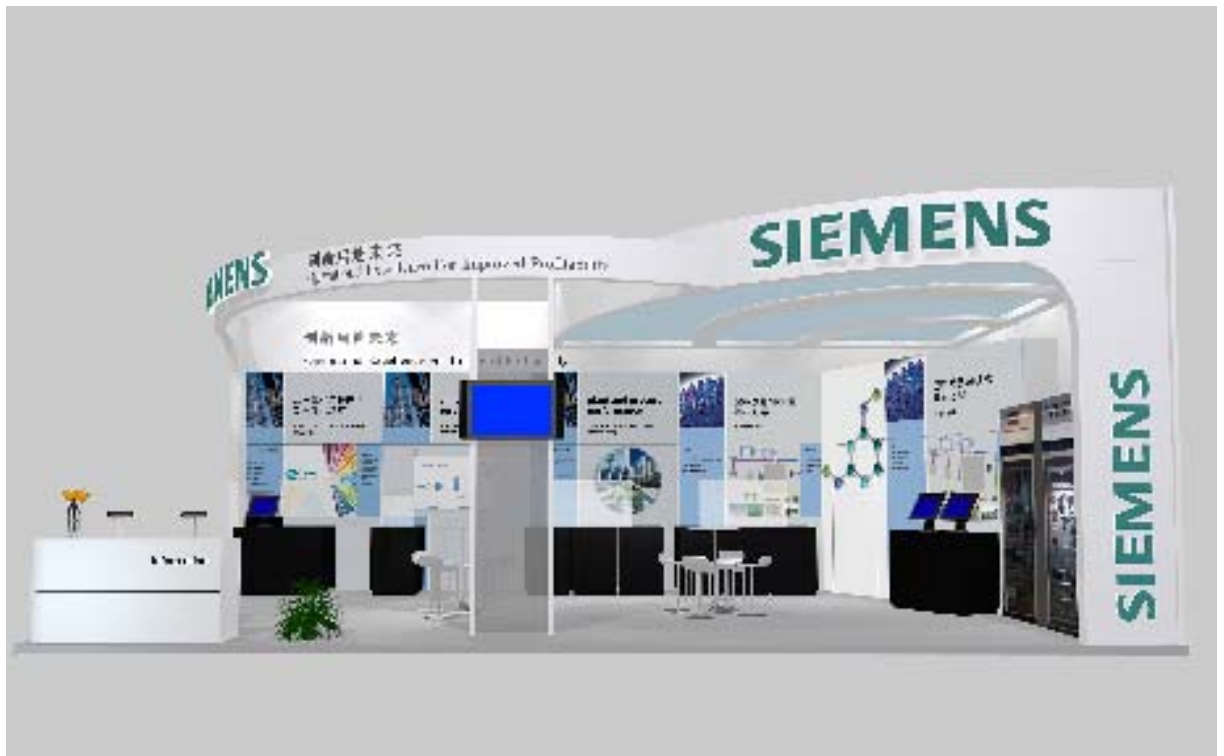
The screenshot displays the Siemens press website interface. At the top, there's a navigation bar with 'Home > Press' and a search box. Below the navigation, a main headline reads 'Only 280 working days left until changeover to high-efficiency motors'. The article text explains that from June 16, 2011, motor manufacturers must comply with the minimum efficiency class IE2 (IE=International Efficiency) as per the EU Directive 2009/125/EC. It highlights that Siemens provides all affected motor series and offers support for the transition. A sidebar on the right lists 'Former Featured Topics' including a press conference in March 2010 and another in November 2009. The bottom of the page features a 'Downloads' section with links to efficiency standards, legal requirements, and a brochure on 'Energy efficiency'. A 'Press Pictures' section at the bottom right notes that only 330 working days remain until the changeover to high-efficiency motors.

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Division Industry Automation



Siemens Industry Automation at the AchemAsia

Beijing, China.

From 1 to 4 June 2010, the Siemens Industry Automation Division will be exhibiting at this year's AchemAsia, the 8th international exhibition for chemical process engineering and biotechnology, staged at the China National Convention Center in Beijing. The wide Siemens portfolio includes automation, drives and control systems, complemented by process instrumentation, Safety Integrated, simulation solutions and engineering software. Over 400 exhibitors will be showcasing their products at the AchemAsia 2010.

Under the heading of "Operational excellence for improved profitability", Industry Automation will be showcasing its integrated DCS (Distributed Control System) / SIS (Safety Instrumented Systems) solutions applied in chemical process engineering and biotechnology. The AchemAsia congress held alongside the exhibition will provide lectures under the heading of "New Products and Services" on "Simulation in process automation" and "Modern APC (Advanced Process Control) technologies". At a special customer event, Industry Automation will provide information on current trends for end users from the chemical and pharmaceutical industries,

system integrators and partners coming mainly from China. Topics due for discussion as part of a general exchange of views and experiences will include process optimization, energy efficiency, integrated engineering and sustainability across the entire life-cycle of a chemical plant.

Siemens at AchemAsia

<http://www.automation.siemens.com/topics/tradeshows/ZH/achemasia/Pages/Default.aspx>

Achemasia

<http://www.achemasia.com>

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SIEMENS

Division Industry Automation



Siemens at China Glass 2010

Beijing, China.

Early in June, Siemens will be showcasing its portfolio at the China Glass 2010 fair. From 4 to 7 June, Siemens Limited China, together with the Siemens Industry Automation Division, will be presenting the latest technologies for the glass industry at the 21st China Glass. China Glass is one of the top three global glass exhibitions, on a par with the Glasstec in Germany and the Vitrum fair in Italy.

With exhibits covering energy efficiency and environmental protection, Siemens Limited China and the Siemens Industry Automation Division will be demonstrating to customers from the glass industry

how to implement efficient solutions in their plants using the latest automation systems. Visitors to the China International Exhibition Center are invited to attend seminars to gather comprehensive in-depth information on the latest Siemens technologies applied in the glass industry. Four topics will be discussed at these seminars including: The APC (Advanced Process Control) solution for glass using the Simatic PCS 7 process control system, energy management on the basis of the B.Data energy management and operating information system, waste heat recovery and process instrumentation for the glass industry. Siemens has been a regular exhibitor at the China Glass since 1996.



第二十一届中国国际玻璃工业技术展览会
2010.6.04 - 07

Siemens Glas Manufacturing
www.siemens.com/glass

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Division Industry Automation

Siemens at Intersolar 2010

Munich, Germany.

From 9 to 11 June 2010, Siemens will be showcasing products, systems and solutions for the solar industry at the Intersolar trade fair due to be held in Munich. In Hall B4, booth 310, Siemens will be exhibiting inverters and components used in photovoltaic plants as well as technologies for concentrated solar power and photovoltaic power plants.

At Intersolar, the Siemens Industry Automation Division will stage an extensive display of innovation including the latest Sinvert inverter generation: The new Sinvert PVS500, featuring a particularly efficient power pack, the new Sinvert PVM20 inverter with a rating of up to 20 kilowatts and the highly efficient Sinvert PVM17 inverter. These inverters transform direct current into alternating current which is then fed into the grid via medium-voltage components.

Also on show will be the Sinvert Combiner Box which combines individual

strings of a PV field and conveys the power to the inverter using large cross-section cables to minimize line losses. Industry Automation will also be showcasing its Simatic WinCC software used for plant monitoring; its Sinvert Select plant design tool; and the Sinvert Weather Station, which uses sensors to pick up the outside temperature, the cell temperature of solar modules and the level of insolation, thus enabling optimum plant utilization.

Siemens Energy will be exhibiting products, solutions and key technologies applied in photovoltaic and solar thermal energy generation.

Under the motto: "How open are you to bright solar opportunities?", Siemens will be inviting visitors into a dialogue on how to successfully implement their future solar projects. A regular exhibitor at the show, this will be Siemens' ninth appearance at the Intersolar trade fair.

Siemens Solar Inverter

www.siemens.com/sinvert

Siemens Solar Power

<http://www.energy.siemens.com/hq/en/power-generation/renewables/solar-power>



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SIEMENS

Division Industry Automation



RFID and code reading systems portfolio merge under joint banner of Simatic Ident

Nuremberg, Germany. The Siemens Industry Automation Division (IA) has now merged its range of RFID (Radio Frequency Identification) and optical code reading systems under the joint banner of Simatic Ident. Simatic Ident encompasses the two technologies most commonly used for this type of application in today's industrial environment. These reliable technologies ensure the seamless traceability of products and components throughout the entire manufacturing, procurement and shipping process.

Depending on the specific application, there are two identification technologies used predominantly in industrial environments today: RFID based on radio waves, and

optically operating code reading systems for the detection of 1D codes (barcodes), 2D codes such as Data Matrix Codes (DMC) and Optical Character Recognition (OCR). IA's General Manager for Industrial Communication Herbert Wegmann: "Our decision to merge these two field places us right at the front line of a growing trend. Our customers have no interest in analyzing the ins and outs of specific ID technologies, what they want is an integrated solution. Because suppliers today operate as part of a global supply network which has to remain transparent and controllable on the basis of logistic concepts such as Just-in-Time and Just-in-Sequence, an efficient system of identification is a vital aspect of their process design. With Simatic Ident, we are supplying the

ideal solution to meet the growing need."

Simatic Ident provides a cohesive system concept for production and material flow control through asset management and traceability to industrial logistics. No matter what the application, the Simatic Ident portfolio contains the right device family with the specific strengths required for the job. Other bonuses include identical topology on the networking level and identical architecture for integration – which not only saves engineering input but also ensures greater operational stability and permits step-by-step upgrading for future expansion.

Siemens Industrial Identification Systems
www.siemens.com/ident



Herbert Wegmann

A look at the Simatic Ident product portfolio

Simatic RF300 is a compact RFID system operating in the HF range for production and material flow control. Scalable, maintenance-free and rugged, this RFID system is used primarily for non-contacting identification in closed production cycles.

Simatic RF600 is a wide-range RFID system designed for production-related logistic and distribution applications.

The broad spectrum of available UHF read/write devices opens up versatile application scope coupled with high reading speeds. Alongside integration into Simatic and Sinumerik controls as well as Profibus, Profinet and Ethernet communication networks, the system also provides the assurance of a cohesive system environment in line with ISO and EPC standards.

Simatic MV420 and MV440 are flexible code reading systems for simple, high-contrast codes and data matrix codes. The stationary 1D/2D code reading systems can reliably read printed, laser-inscribed, dot-peened, drilled or punched codes – even under difficult ambient conditions. The compact dimensions of these readers make them ideal for product tracing, production control and verification as well as optical character recognition (OCR).

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Siemens Dubai, United Arab Emirates

New Comos Center of Competence for the MENA region

Dubai, United Arab Emirates.

In line with its expansion strategy for the Comos Plant Lifecycle Management software, the Siemens Industry Automation (IA) Division is extending its sales and service network for the MENA (Middle East and North Africa) region. It was with this aim in mind that IA recently opened its Center of Competence in Dubai. "Over many years, we have gained a wealth of experience with integrated engineering and integrated operations solutions in the oil and gas business. We are now making this expertise and our services easily and quickly available to

our customers in this region", states **Andreas Geiss, Vice President, Comos Industry Solutions, Siemens Industrial Automation Systems Business Unit.**

Comos is an integrated enterprise solution for Plant Life Cycle Asset Information Management which meets all functional requirements: Process engineering, conceptual design, piping and function planning, automation and control engineering, electrical engineering, instrumentation and control, asset management/maintenance, as well as document and project management.

The expansion of sales and services for the MENA region is managed by Rainer Zintl, a seasoned industry expert who has been in control of sales activities for the region from the company's headquarters in Germany for the last two years. Joachim Kundt, CEO UAE (United Arab Emirates), Siemens Dubai: "Our business partners in the region very much appreciate the fact that we now have a team here in Dubai covering Sales, Consulting and Services."

Siemens Industry Software – Comos
www.comos.com

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SIEMENS

Division Industry Automation

Focus on solar technology from Siemens

Nuremberg, Germany. In time for Intersolar USA, the largest solar energy trade fair worldwide, Siemens is due to launch its new customer magazine **SolarFocus** at the end of June. The customer magazine published by the Siemens divisions **Industry Automation (IA)** and **Drive Technologies (DT)** will provide a wealth of information from across the world of automation and drive technology applied in the solar industry.

The journal will provide insights into current solutions and projects, and illustrate what Siemens has to offer in the field of automation and drive technologies to companies operating in the solar

industry. One such example is Masdar PV, a leading provider of thin-film photovoltaic modules, which relies on Siemens technology in its new high-tech production hall:

On its 15 hectare site in Ichtshausen near Erfurt, since October 2009 Masdar PV has been producing high-tech modules, which are exported to customers all over the world. Having already installed Siemens building management technology in its newly built hall, Masdar PV now also relies on Siemens technology for automating individual process stages. "We aim to continuously advance our ultra-modern production plants, and envisage great automation potential here", stated Thomas Richter, technical opera-

tions manager at Masdar PV. The project is presently in its technical design phase. At this crucial stage, Richter is relying on Siemens solution expertise tailored to the particular needs of Masdar PV. "After all, we can't order automation systems from a catalogue."

For more information on SolarFocus, send an e-mail to solar.industry.automation@siemens.com or visit www.siemens.com/solar-industry.

Contact SolarFocus
solar.industry.automation@siemens.com

Siemens Solar Industry
www.siemens.com/solar-industry

In December 2009, Masdar PV installed a 268 kWp (kilowatt peak) plant on the roof of its new production hall in Ichtshausen near Erfurt.



Masdar PV

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SIEMENS

Division Industry Automation
Division Drive Technologies

The Siemens Industry Sector (Erlangen, Germany) is the worldwide leading supplier of environmentally friendly production, transportation, building and lighting technologies. With integrated automation technologies and 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 207,000 employees worldwide (September 30), Siemens Industry achieved in fiscal year 2009 total sales of approximately €35 billion.

www.siemens.com/industry

The Siemens Drive Technologies Division (Nuremberg, Germany) is the world's leading supplier of products and services for production machinery and machine tools. This includes standard products but also encompasses industry-specific control and drive solutions. Integrated technologies along the entire drive train with electrical and mechanical components offer highest potential to reduce energy consumption in industrial plants. The services provided by the Division include mechatronics support in addition to online services for web-based fault management and preventive maintenance. With around 36,000 employees worldwide (September 30), Siemens Drive Technologies achieved total sales of €7.5 billion in fiscal year 2009.

www.siemens.com/drivetechnologies

The Siemens Industry Automation Division (Nuremberg, Germany) is a worldwide leader in the fields of automation systems, industrial controls 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 39,000 employees worldwide (September 30), Siemens Industry Automation achieved sales of €7.0 billion in fiscal year 2009.

www.siemens.com/industryautomation

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