



■ Sinumerik 828D

A Real Global Player

The compact and strong Sinumerik 828D is perfectly suited for global machine tool manufacturers.

Compact, strong, simple – simply perfect! This was the theme under which Siemens presented its new Sinumerik 828D numerical control to the world at the EMO 2009 trade fair in Milan, Italy. With its open and modular structure and its flexibility, the Sinumerik 840D sl supports almost every conceivable machine concept in the premium segment. By contrast, the job shop demands a smaller variety of machines that offer simpler commissioning and handling when servicing. These requirements are best met by the Sinumerik 828D, as confirmed by the extremely positive feedback received at EMO.

Perfect for global marketing

The Sinumerik 828D provides machine tool manufacturers with a tailored solution that enables them to market their globally-usable machines with a single

CNC system. The Sinumerik 828D fulfills a major prerequisite for a 'Global CNC': the combination of all the required operating and programming functions in a single control system. ShopMill/ShopTurn workstep programming offers job shop users a well-established solution, while the Sinumerik 828D provides an extremely flexible CNC high-level language, which makes it possible to market machines, even in the automotive supply industry. Lastly, Sinumerik 828D can also be programmed with ISO commands – a programming language used widely throughout Asia. This means that this particular market can also be covered by a single CNC system.

However, marketing machines on a global scale also requires the global provision of services by the machine tool builder or dealer. The Sinumerik 828D addresses these requirements perfectly. PLC programming and online diagnostics are performed in the

» We have decided to equip our new EMCOMILL E350 CNC machining center for industrial use with Sinumerik 828D. It was the user-friendliness of the control system through its graphical user interface that really impressed us. We can also program in ShopMill and ISO, thus making us very flexible. «

Dr. Stefan Hansch, CEO EMCO Group



Emco Group

easy-to-understand contact plan technology. Easy Extend offers a perfect solution, particularly for the retrofit of optional machine components, such as CNC rotary tables. This means that the required CNC parameters can be preconfigured in the factory. The subsequent installation of components is then accomplished at the touch of a button without any CNC expertise or software tools.

Compact and strong

Another advantage of the new Sinumerik 828D CNC is its compact design. Thanks to the small dimensions of the vertical and horizontal panels, it can be integrated into very compact control panel housings, without changing the machine design. The compact unit – made up of control panel, keyboard and CNC electronics – is also extremely robust since it has no interface ports. Together, the maintenance-free design is a central requirement in the job shop. The Sinumerik 828D is also maintenance-free; there is no hard disk or fan. The CNC data are also saved on modern NVRAM. That way, no expensive battery is needed and all data are retained even if the machine is transported or shut down for several months.

A compact control system does not need to compromise on performance. The Sinumerik 828D offers users unique 80-bit accuracy of calculation in the CNC and drive control loops, thus permitting extremely precise machining. In addition, an extensive range of technology cycles support the production of highly complex workpieces. And with the new milling package, Sinumerik MDynamics, the Sinumerik 828D is also more than capable of machining challenging

molddmaking workpieces. The system software versions are tailored specifically to the demands of challenging turning and milling machines that are typically used in the job shop. This significantly restricts the number of control parameters, which minimizes the commissioning time.

State-of-the-art technology

Setting new standards in CNC technology also means confronting the trends of modern communication technology. Thanks to its intelligent software architecture, the Sinumerik 828D supports all the modern communication media, such as USB, Compact Flash (CF) card or an unrestricted network capability. The new, convenient Sinumerik Operate user interface contains complete online documentation with numerous graphical diagrams or animated elements to support input with moving picture sequences.

One highlight offered in particular by Sinumerik 828D is Easy Message, a process monitoring system that uses text messages. Information, such as workpiece counters, tool wear limits or upcoming machine services are transferred by text message (SMS) to the machine operator's mobile phone. This ensures maximum machine productivity, even in the job shop. ■

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