

Satisfaction arises ...

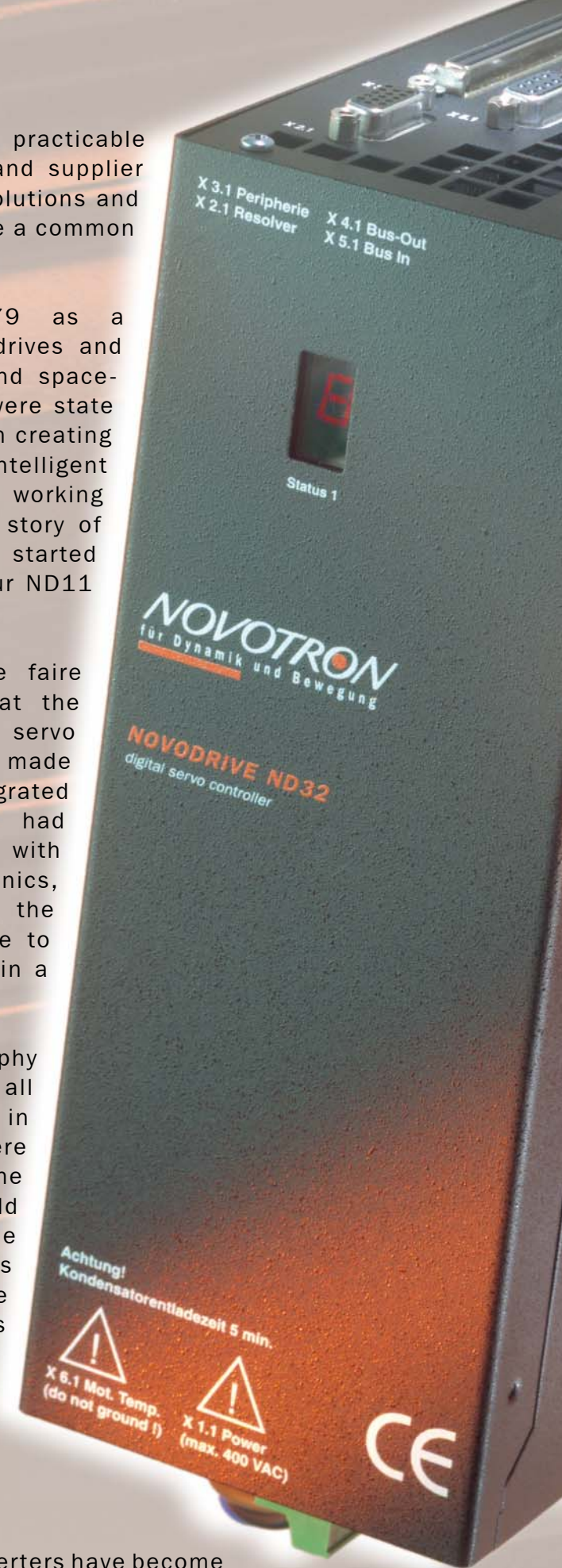
... when technology results in practicable applications, when customer and supplier together are able to develop solutions and when new requirements become a common challenge.

NOVOTRON started in 1979 as a distribution company for DC drives and motors. At the time, heavy and space-consuming drive components were state of the art. With a clear focus on creating more compact and more intelligent solutions, NOVOTRON began working in R&D in 1988. The success story of our NOVODRIVE product series started in 1989, when we launched our ND11 transistor servo amplifier.

At the 1992 Hannover trade faire we presented ND21, which at the time was the smallest 5-kW servo converter ever. Its core was made up of Application-Specific Integrated Circuits (ASICs), which we had developed in collaboration with the Institute for Microelectronics, Stuttgart and which provided the key prerequisite for being able to include broadest functionality in a very small device.

„All in one“ has been our philosophy since then, meaning that all functions be accommodated in a single device. The ASICs were being developed further all the time, until NOVOTRON could present the next member of the NOVODRIVE family, ND31. It was made for a rated supply voltage of 230 V and had a CAN Bus interface and PLC on board. The next step was ND32, the “big brother” of ND31, for a rated supply voltage of 400 V and power levels up to 10 kW.

Although compact servo converters have become state of the art, we are still driven by the determination to keep on developing – in collaboration with our customers - innovative solutions in automation. We are always close to our customers, providing new ideas, profound know-how and a lot of experience. Let your automation requirements be a challenge for you and us!



NOVOTRON

für Dynamik und Bewegung

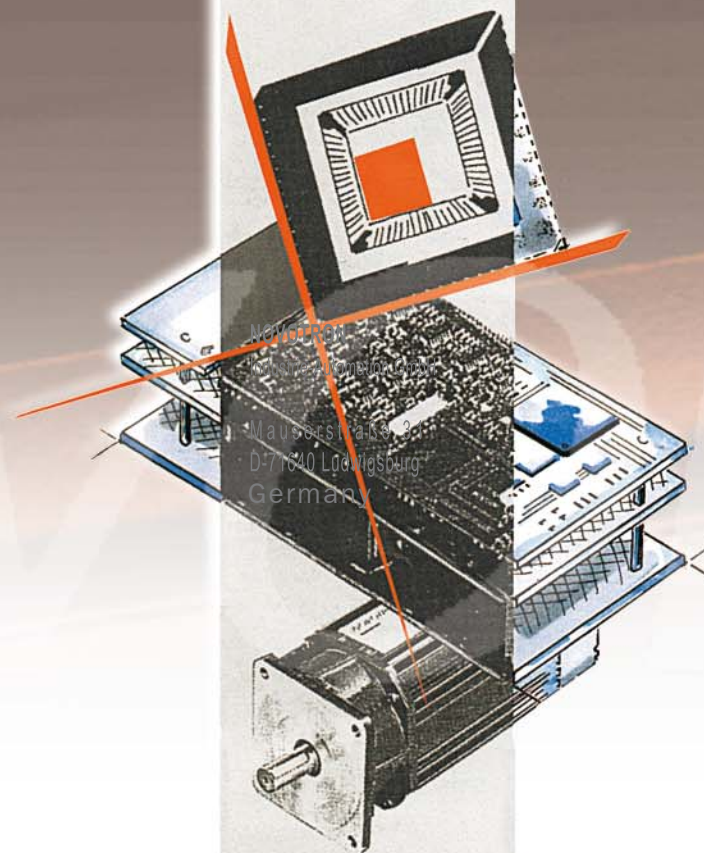
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THE MAKER OF
NOVODRIVE
NOVOMERIK
NOVOBUS
NOVOCHIP
NOVOMOT

NOVOTRON

für Dynamik und Bewegung



NOVODRIVE

NOVOTRON's all-in-one servo converters

NOVOMERIK

NOVOTRON's positioning control

NOVOBUS

NOVOTRON's communication interface

NOVOCHIP

NOVOTRON's ASICs

NOVOMOT

NOVOTRON's brushless servo motors

NOVODRIVE

NOVOTRON's all-in-one servo converters

Latest technology, high-quality components, high-level performance, concentrated intelligence, outstanding flexibility and space-saving usage - this is what characterizes NOVODRIVE servo converters. Both versions, ND31 and ND32, are available either as a 19" plug-in device or in a single-axis, two-axis or three-axis compact case. NOVODRIVE servo converters are suited both to control synchronous servo motors and linear motors, and they work both in an analog and in a digital mode. ND31 is available in four power levels, that is 0,5 kW, 1 kW, 2 kW and 4 kW. ND32 is available in a 2,5 kW, 5 kW and 10 kW version. Using these all-in-one devices, there are practically no limits when it comes to meeting highly demanding automation requirements.

NOVOMERIK

NOVOTRON's positioning control

Part of the NOVODRIVE all-in-one solution is NOVOMERIK, NOVOTRON's single-axis positioning control, which can be integrated into NOVODRIVE without the need for additional hardware and complicated wiring. Various bus systems allow to programme position values, speed and acceleration. As an additional software extension, NOVOTRON offers a sequencing control, which in combination with the positioning control allows you to utilize various machine functions at the same time. Without the need for an external master computer and PLC, the all-in-one module executes the positions programmed. Up to 256 parameter sets can be stored, describing the functions to be executed.

NOVOBUS

NOVOTRON's communication interface

If you want a cost-efficient solution for interconnecting your drives with a central computer or PLC, you may use NOVOBUS, NOVOTRON's communication interface. Using a ring-shaped structure, NOVOBUS allows to transmit position values, controller parameters, control commands as well as actual values and setpoints. Apart from this, NOVOBUS provides information concerning the servo converters' states, heat-sink temperature, motor temperature, limit switches, ready-to-operate switches and much more.

As an option, NOVODRIVE has an interface for CAN Bus and Profi Bus.

NOVOCHIP

NOVOTRON's ASICs

Drive components have to be small, lightweight and intelligent. This has always been NOVOTRON's credo. To meet these requirements, NOVOTRON developed NOVOCHIP in collaboration with the Institute for Microelectronics, Stuttgart. Features NOVOCHIP comprises are coordinate transformer, signal processor, modulator, current controller and driver unit.

NOVOMOT

NOVOTRON's brushless servo motors

The motors of the NHDM, NHR, NHRS, NHJM and NHJ series are characterized by a very long lifespan of 20,000 hours at least. They cover a torque range starting from 0,2 Nm and reaching up to 67 Nm. All motors are equipped with Neodymium-Iron-Boron magnets and have the highest possible protection class IP 65. Motor and sensor are connected over plugs.

NOVOTRON's collector motors

Beside our brushless servo motors, we offer brush-type DC servo motors. Our MT series comprises motors with a torque range starting from 0,5 Nm and reaching up to 11 Nm. The motors' maximum speed is 5000 rpm.

NOVOTRON

NOVODRIVE ND 32-5610

NOVOTRON
für Dynamik und Bewegung