

# Nixdorf Product Range

02.60.01

**NIXDORF**  
COMPUTER

*PR* 16.001.027

PARCENTRO - DESenvolvimento de sistemas de informação, Lda.

# Nixdorf Product Range

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# Nixdorf 620

**The Nixdorf 620 data entry system is designed to collect, preprocess and transmit large quantities of data. The system is successfully used by well-known large companies around the world, public administration offices, banks and insurance companies.**

Full compatibility is ensured for the Nixdorf 620 data entry system series with modular hardware and software — which accounts for the high reliability and data integrity ratings, the easy programming and operation and an ergonomically sophisticated design. Extensive data communication features also make the system especially suitable for use in the fields of data entry and preprocessing.

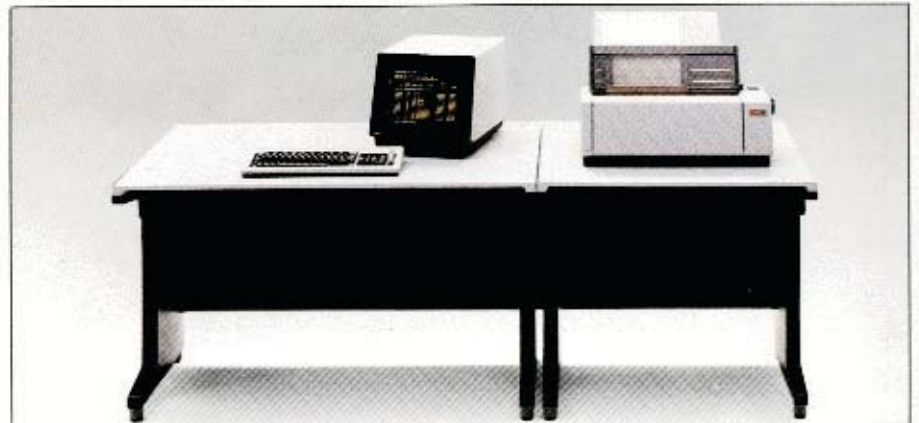
Many international companies envisage a standard EDP concept for their entire organisation which crosses the borders of the individual countries in which they are represented. It proves advantageous in this regard to work with an international partner who, like Nixdorf, is active in over 30 countries world wide and who has a product like the Nixdorf 620 which can meet the different demands of many countries with the appropriate data communication and teleprocessing facilities.

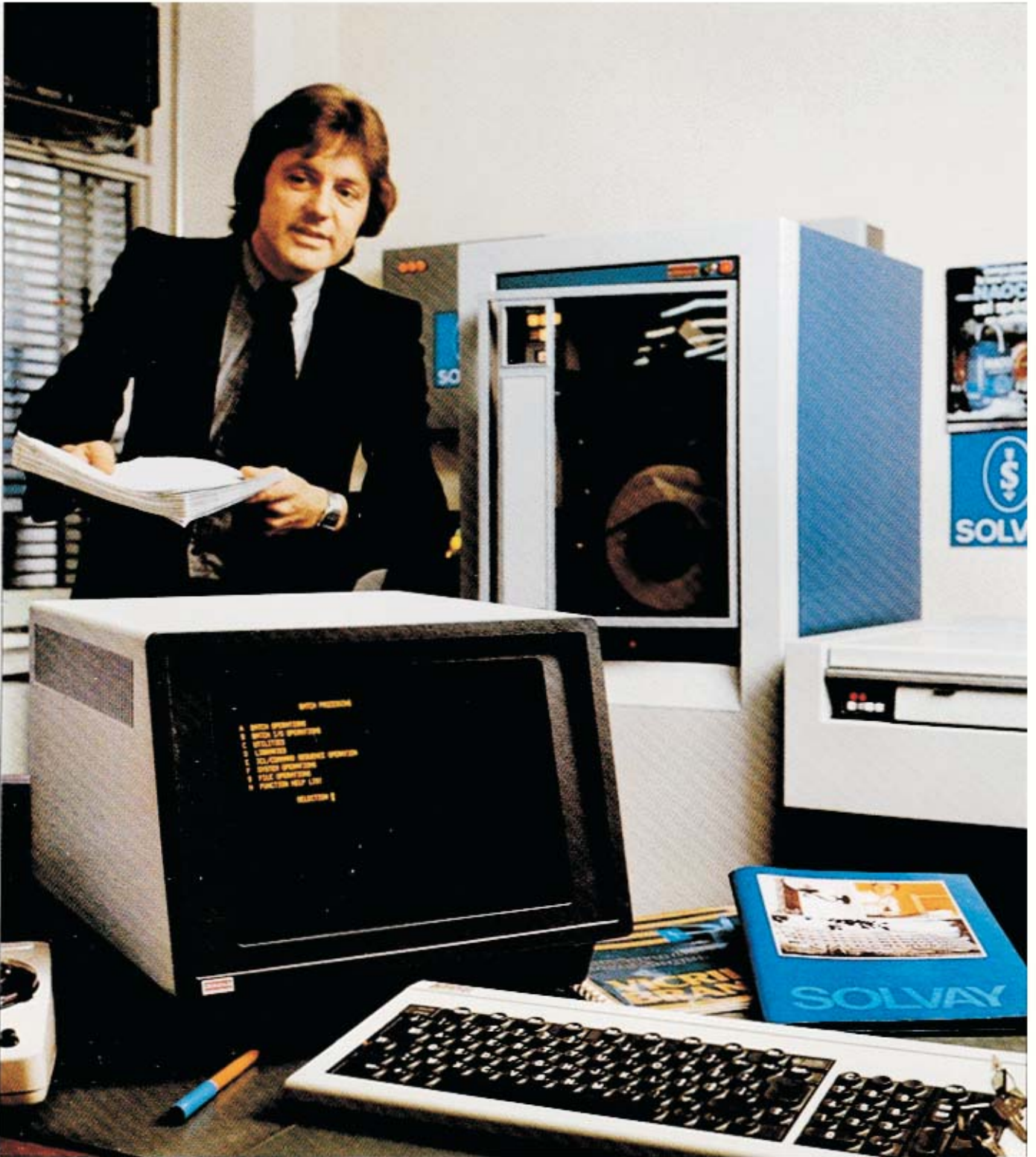
With its extensive range of peripheral devices and the flexibility of so many different configurations the Nixdorf 620 data entry system is very easy to install. Anywhere, whether in the various office departments, in the store, in sales offices, banks or insurance companies, branch offices . . . — implementation is made simpler with this easy-to-use and ergonomically designed equipment.

A consistent, standard concept runs through the system series, regardless of the particular size or configuration of the system, providing the same system features throughout.

Once installed the system can be enhanced and upgraded, adapting to new functions without any software compatibility being lost.

The Nixdorf 620 is a particularly reliable system and, as with all of its products, Nixdorf can guarantee high system availability.





# Nixdorf 8850

**The Nixdorf 8850 data communications system is a further development of the Nixdorf 620 data entry system. It has broader application and network facilities and increased capacities.**

The Nixdorf 8850 data communications system is highly versatile and has large capacity.

It runs batch and dialog operations with the higher-level central processor, with peer systems and of course with terminals on the user level. On the one hand, therefore, it connects the office department, the branch office, the sales office or the local store to the central EDP base, while at the same time providing the staff in the various locations with exactly those computer facilities which they need to handle their particular job.

Not only can the Nixdorf 8850 data communication system handle data entry and preprocessing tasks cheaply and effectively, it can also access the data files and information stored in large central mainframes.

With intelligent dialog the system can adapt to existing central data bases and further process centrally stored data on local installations.

The concept of the 8850 system is modular. It can therefore grow with the needs of the company, from a stand-alone to a multi-terminal system with 264 MB disk capacity and 24 workstations.

The link between workstations and the 8850 central unit may be the dedicated line (local, up to 1500 m) or dial-up line (remote) over whatever distance is necessary.

And beyond this there are many other advantages of the system: a virtual operating system, multiprogramming, disk redundancy and data backup on tape for high availability, COBOL oriented programming language, minimum maintenance and down times due to preventive diagnostic routines, automatic restart with accurate pick-up and sophisticated operator guidance with clear-text notes on the display.





# Nixdorf 8860

**The Nixdorf 8860 Distributed Information System can be configured to meet business needs and reflect those needs as they change. The 8860 also offers the benefits of distributed information while retaining the advantages of central control and administration. This, coupled with a wide range of software facilities, makes the 8860 a cost-effective, powerful solution.**

Nixdorf's 8860 family of distributed information systems provides considerable benefits, including compatibility, protection of investment, high systems availability and total control of the network.

All these benefits are achieved because Nixdorf's 8860 provides the six key elements for a successful distributed data processing strategy

**Compatible system family:** 8860 systems match the required needs by providing a family of systems in which all hardware, software and communications facilities are compatible. Systems are field upgradeable and can be expanded in cost-effective increments.

**Central systems management:** the 8860 provides DP management with facilities to program, administer and maintain the network from a central site. These facilities include down-line loading of software releases and remote support.

**Networking:** the Nixdorf 8860 system family can be integrated into a wide variety of current computer communications networks, including SNA and Nixdorf's own communication network philosophy. The system also offers the flexibility needed for future growth by handling all communications functions in programmable front-end processors.

**Designed for users:** the 8860's ease-of-use features are designed for clerical and administrative staff who may have little or no computer experience.

**Proven and reliable:** the 8860 has evolved from Nixdorf systems already proven in over 5,000 installations throughout the world, supporting some 40,000 workstations in one of the most exacting of business environments — retail banking networks.

**International support:** both nationwide and international networks require hardware and software support, which are readily provided by Nixdorf's existing world-wide service organisation.







# Nixdorf 8862 and 8812

**Nixdorf retail-oriented systems can be used in all sizes of company and are easily adapted to the company's growing requirements.**

**The Nixdorf POS range starts with a stand-alone POS terminal, goes on to Master and Slave POS clusters and data entry POS terminals for goods received and labelling and on to integrated information systems where many terminals working in varied application areas communicate with a central mini-computer.**

The extensive software facilities of the Nixdorf 8862 allow not only the handling of data entry, consolidation and processing tasks, but also support more complex applications from goods administration through to establishing networks, for instance in the Multiple or Variety chain environments.

The Nixdorf 8812/10 POS terminal provides all sales-oriented functions as well as handling goods received data entry, order processing, inventory data capture and remote communications.

The organisational facilities can be extended to meet the demands of the particular application — particularly in the area of the varied peripherals that may be connected to the 8812 POS terminal. Therefore the terminal can support the reading of OCR or EAN labels by hand-held reader or laser scanner and bubble memory or fixed Winchester disk may be used for data or program storage. They open up new applications in small, medium and large self-service stores.

The Nixdorf 8812 POS terminal is available in two designs: the 8812/10 compact POS terminal and the 8812/60 modular unit that can be built into the supermarket-style checkout desk. Both models have been carefully designed to take advantage of modern ergonomic thinking. Particular attention has been taken to ensure that all Nixdorf retail POS systems are both easy to



use and simple to install with a minimum of disturbance to the customer.

In the Nixdorf 8812/50 terminal system, the POS specific peripherals have been replaced by a 2000-ch. VDU screen and full alpha-numeric keyboard and a larger terminal printer.

The major functions of this intelligent display workstation cover the entry, consolidation and processing of goods information. It can also be used to handle such tasks as the entry of data from the accounting, invoicing or other commercial departments.

Like the POS terminals, the 8812/50 can also be used as a stand-alone or master terminal and can equally well be run in a network with the Nixdorf 8862 retail system.





# Nixdorf 8864

**The concept of the Nixdorf 8864 system meets all the demands of the marketing organisation and EDP specialists in the field of banking. The modularity of the system in both hardware and software makes it possible for different jobs to be handled by a staff-oriented information system using modules with the appropriately adapted capability. In developing this concept attention was not only paid to the organisational applications but also to the design of the equipment – for this plays a decisive role in the concept of the workstations in terms of environment, organisation and industrial medicine.**

**The Nixdorf 8864 helps the staff to handle their work quickly, reliably and independently. With this system any number of different jobs can be run at the same time on different terminals.**

One main support field is the front office. The system is so flexible that very different types of organisation in the customer service area are covered – with models ranging from individual job oriented terminals to the all purpose terminal.

In the savings account sector with its emphasis on input, output and monitoring, the Nixdorf 8864 makes sure that transactions are handled quickly and correctly, with the aid of passbook printers and the DIN standard ZEKOSA system.

In current-account transactions the immediate booking of deposits and withdrawals at the banking terminals saves a lot of handling time.

In order to give qualified advice to customers on matters of securities, savings investments, personal credits, with bank transfers or standing orders, the bank clerk must have a great deal of information at his fingertips; with the Nixdorf 8864 system this data is provided at once from the central files. The use of self-service equipment on the other hand, such as the Nixdorf Automatic Teller Machine and Automatic Statement Printer, not only relieves the bank personnel of many jobs but above all offers an additional service to the customer.

The use of the Automatic Teller Safe remodels the job of the cashier to incorporate greater consulting activity. Cash is paid directly out of the safe and there is no need for a security glass wall.



But the Nixdorf 8864 system is not only intended for use in the customer area. Special peripheral units and system devices such as magnetic disks and diskettes or punched card readers allow data carriers to be exchanged with customers, other banks or the accounting service centre. And communication equipment transfers data in batches for printing statements of account or listings. Magnetic disks and diskettes store data for processing, transfer and printout.

The system is partner and complement to the central mainframe. It brings the information needed for effective application of the bank's marketing strategy, fast and secure and in the required form to the place where it is wanted – right to the workstation itself.





# Nixdorf 8870

The Nixdorf 8870 System Family consists of several upgradable modules. They are readily adaptable to the given requirements on processor performance, magnetic disk capacity, connection facilities for display workstations, printers, data communications, and so on. The system is display-oriented and is designed for decentralised use with the computer power at the workstation.

The 8870 is not only the ideal solution for small and medium-sized businesses, it is equally suited to the various departments of large enterprises — including international organisations. The system is currently being used in trading companies, in industry, in professional offices, in the hotel and catering trade, in banks, insurance companies and hospitals. The Nixdorf 8870 is oriented to mass storage, easy to use, compact, quiet . . . perfect for the office. Easy to upgrade and simple to install. The basic configuration of the Nixdorf 8870 includes one display workstation, one magnetic disk drive, a printer and the central control and processing unit. Due to its modular design the system can be built up to a multi-terminal system of up to 24 display workstations. The display and keyboard form the workstation. They may either be built into a height-adjustable desk or can be free-standing on any available desk.

Apart from magnetic tape, diskettes, magnetic tape cassette and data communications equipment for exchanging data with other systems, many other devices may be connected: printers with different capacities, OCR readers, punched card readers, paper-tape readers and punches as well as plotters. The plotter uses one or more colours to output information on paper or transparencies as graphical data.

Particular attention was paid to ensure easy operation. No special EDP staff or knowledge of programming is needed. The NIROS operating system makes sure that the central unit, peripheral devices and application programs work together in absolute harmony, while comprehensive program support makes the system very easy to use. In simply formulated texts the TAMOS operator guidance leads the user through the programs needed to handle the particular work in question. Different tasks can be dealt with at the different workstations at the same time: for example, order entry, stock queries, invoicing. TAMOS also makes sure that no unauthorised person is able to access the stored data and looks after the automatic data backup.

The modular software program package COMET can be used on the 8870 system. Each of the standard job fields — such as order processing, invoicing, purchase order processing, financial accounting, fixed asset accounting, stock control, payroll, cost accounting and production control — is covered by one set of programs. The user then assembles his own customised solution from these modules according to his particular needs, using a simple checklist procedure known as CHICO.

COMET INTERNATIONAL is a proven business system created specifically for the international company. Individual country-specific requirements may be taken into account within the framework of a standard system throughout the world.

And if you should have any special demands with regard to your computer application there are over 100 tried and tested vertical-market solutions available to help you attain your goals — regardless of the sector in which you operate.





# Nixdorf 8890 Information System

**For companies which have substantial data processing requirements, the 8890 is the ideal information processing system. It can be used as a central system, a distributed system integrated into a computing network and as a system dedicated to specific applications.**

**The 8890 is the most powerful system in the Nixdorf range. Reliable hardware, proven system software, extensive application software and a comprehensive range of services ensure a well structured and versatile system. With its compatibility to both the 4300 and Ethernet standards the 8890 is a very cost-effective alternative compared with other systems in this capacity range.**

Ergonomically designed terminals with easy-to-use features give the best possible basis for providing a user-oriented system with good throughput and fast response.

The more important uses of the Nixdorf 8890 are concerned with data base management, maintenance and query, the decentralisation of processing by independent company divisions or by application (production control, financial accounting, order processing) and the implementation of new applications with good documentation.

The Nixdorf 8890 has flexible capacity levels and a wide range of configurations. Although the system works on a virtual memory concept, a main memory of up to eight megabytes enables even the largest systems to be permanently resident in the main memory, thus ensuring excellent performance.

The central processing unit is micro-programmed to emulate the instruction set required. This allows new instructions and improved ways of executing programs to be easily incorporated into the system.

Up to eight independent, microprogram controlled input/output processors control the attached peripherals. The compatible standard channels and communication interfaces which allow for the attachment of other compatible equipment are also controlled by these processors.

The Nixdorf 8890 information processing system is compatible with the IBM systems 370/4300 and thus can make use of the vast amount of software written for those systems. The hardware supports NIDOS/VSE (Nixdorf Operating System) or IBM's DOS/VS, DOS/VSE, OS/VS1 or VM/370.

The main features of NIDOS/VSE are its compatibility to DOS/VSE, its user-friendliness and the incorporation of additional features only found in the large OS operating systems.

Complementing the powerful operating system is a range of software including compilers, utilities, data base and data communications systems and application development tools. A range of application packages covers the commercial application areas such as financial accounting, order processing, stock control, etc.

The Nixdorf 8890 thus provides a good foundation on which to run a company's business.







# Nixdorf 8840

**The 8840 System Family is a series of modern, intelligent typing systems. No more difficult to operate than a standard typewriter but much more powerful. They provide all text editing and word processing facilities — with one big difference: they are easy to learn and simple to use.**

**These systems are not the complicated computers of which the staff need to be afraid. In no time at all they will be fully familiar with all the system functions. The careful ergonomic design is another advantage: free-standing units adapt to the needs of each individual user.**

**Nixdorf's upgrading concept makes sure that you always have the right number of workstations and printers and sufficient storage capacity for your current needs. Depending on the size of the company and the range of jobs to be handled, the 8840 can be used either as a multi-terminal or a stand-alone system.**

The workstation consists of a display and keyboard. Both are free-standing so that each user has freedom of movement at his own workplace. The display is designed according to the latest findings of ergonomics and industrial medicine: its tilt and height are adjustable, the screen does not flicker or dazzle and the type is particularly large and easy to read. The separate keyboard meets the German Industrial Standards and is based on the familiar typewriter keyboard, extended by a few quickly mastered function keys. A decimal key pad helps with calculator functions and the programmed maths applications. With the exemplary design of the 8840 workstations and the very extensive performance range, there could hardly be a better working environment.

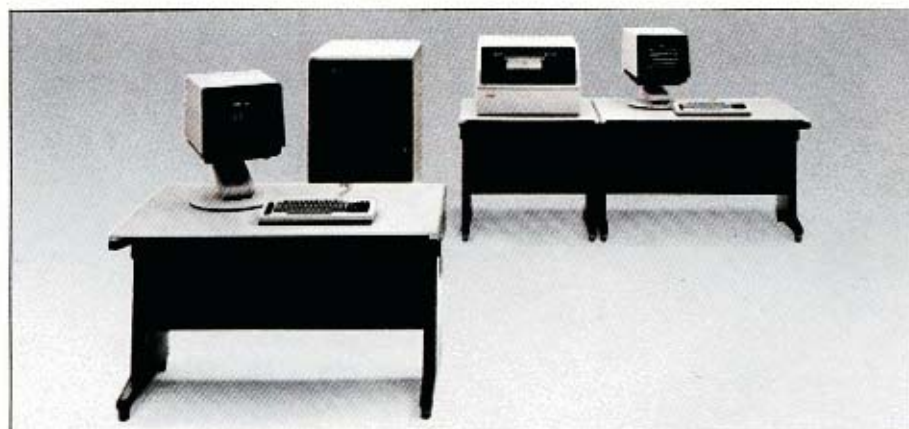
At the heart of each 8840 system lies the central processing unit. It manages the software and looks after the automatic control of the connected peripherals. They store and administer all the texts entered and transfer them to external storage media. Texts which are not needed all the time can be saved on diskettes, filed and stored outside the system. Programs are maintained and new software packages are input on such diskettes also.

Whether daily correspondence, text manuals, standard letters or address files, all your texts can be neatly filed right from the start with the extensive storage facilities of 4 magnetic disks which have room for over 2000 pages of texts, documents and files. An indicator shows the current disk usage as a percentage of the total capacity.

Single sheets of paper and continuous stationary can be run on the printers which are all fitted with soundproofing hoods so that they can be properly integrated into the office environment.

Nixdorf is highly committed to the concept of workstation ergonomics. Like all Nixdorf products, the Nixdorf 8840 word processor has been designed as an easy-to-use, practical system.

Due to the latest hardware design and well-constructed software, the system has the necessary flexibility to adapt to the needs of the individual user, just as easily as to the changing demands of market-oriented companies.





# Nixdorf 8818 Digital Switching System

**The future plans of the German Federal PTT show that digital switching techniques are becoming ever more important, with implementation of the first public test exchanges in 1982 for the telephone network and a 64 Kbit/sec model network scheduled for 1983.**

**But „digital“ switching is not only the latest in technology, it is also a tremendous advance in terms of economics.**

**Digital switching provides an all-encompassing solution for inhouse communications. And Nixdorf is the first manufacturer in the Federal Republic of Germany to offer such a digital switching system — the Nixdorf 8818.**

**One more important facility has been introduced to information processing — voice communication. With Nixdorf the different office applications and the information modes: voice, text, data and image, are all assembled within one system.**

Digital techniques bring several additional advantages to the user.

Voice, text and data switching can all be handled by one system, providing a comprehensive, low cost solution for office communication. The Nixdorf 8818 uses the technology of the future: time multiplex and pulse code modulation. The whole system family has a high internal switching capacity via the PCM bus, with 246 subscribers being able to talk at the same time.

Between 30 and 600 telephones or terminals can be connected to the 8818 system.

The high grade of service makes sure that "busy" situations no longer occur due to internal blocking.

The 8818 digital switching system also ensures excellent voice quality. Analog disturbances do not occur and even telephone conferences with 6 participants are as clear as standard two-way conversations. The digital switching system offers more facilities for more sophisticated telephoning.

Important incoming calls will reach you wherever you are with the "follow-me" function — even if your job takes you to all four corners of the office building.

The caller will always be able to reach a person competent in the required field: a collective line connects several

employees under one shared number, while each of these employees still retains his own individual number.

Or if you want to work in peace for a while, the telephone can be set for privacy so that you cannot be reached for incoming calls.

With "consultation hold" you are saved the trouble of having to call someone back after clarifying a couple of things with someone else; during an inhouse conversation you can dial the number of a third party and hold the first line.

A 20 digit number is called within half a second; a memory for 10 numbers is provided for each authorised user.

You may also want to confer with several people at once — with the digital switching system conferencing is possible on one line for up to 6 people.

Automatic dialling: if you didn't get through the first time — particularly annoying with long numbers — the system will redial until it gets a line.

Or maybe you didn't reach the person you wanted to speak to? If the required subscriber is busy, you can program an automatic call-back.

Or if the telephone at the other end is permanently engaged and you urgently need a particular piece of information, then you can "camp-on" by simply pressing a button.





# Head offices of Nixdorf subsidiaries and agencies

## Head Office

Nixdorf Computer AG  
4790 Paderborn,  
Fürstenallee 7,  
Tel. (0 52 51) 3 00-1  
Pontanusstraße 55,  
Tel. (0 52 51) 3 02-0  
Unterer Frankfurter Weg,  
Tel. (0 52 51) 3 04-1

## Subsidiaries

### Australia

Nixdorf Computer Pty. Ltd.  
5-9 Harbourview Crescent,  
Milsons Point, 2061 N.S.W.,  
Tel. 4 36 13 33

### Austria

Nixdorf Computer Ges. m.b.H.  
Untere Donaustr. 11, 1020 Vienna,  
Tel. 26 67 67

### Belgium

Nixdorf Computer S.A.  
Rue Colonel Bourg, 105,  
1040 Brussels,  
Tel. (02) 7 35.80.50

### Canada

Nixdorf Canada Ltd.  
505 Consumers Road, Suite 102,  
Willowdale, Ontario M2j 4V8,  
Tel. 4 98 72 00

### Denmark

Nixdorf Computer A/S  
Dynamovvej 11, 2730 Herlev,  
Tel. 2-91 98 10

### Finland

Oy Nixdorf Computer AB  
Höyläämötie 11, 00380 Helsinki 38,  
Tel. 55 80 72

### France

Nixdorf Computer S.A.  
7-13 Bd. de Courbevoie,  
92200 Neuilly-sur-Seine,  
Tel. 747 12 70

Nixdorf Computer Lyon  
83-85 avenue Félix Faure,  
69003 Lyons, Tel. 60 00 91

### Great Britain

Nixdorf Computer Ltd.  
125 - 135 Staines Road  
Hounslow, Middlesex  
Tel. 01-570 18 88

### Greece

Nixdorf Computer A.E.  
Leof-Sygrou + Skra 1  
Athens-Kallithea  
Tel. 9 59 51 90

### Ireland

Nixdorf Computer Ltd.  
Fitzwilliam Court, Leeson Close,  
Dublin 2, Tel. 76 75 51

### Italy

Nixdorf Computer S.p.A.  
Via F. Turati, 27, 20121 Milan,  
Tel. 65 71 041 - 63 05 41

### Luxembourg

Nixdorf Computer S.A.  
107 - 111, route d'Arlon  
8009 Strassen  
Tel. 31 28 28-1

### Morocco

Nixdorf Computer S.A.  
23, Bvd. Girardot  
Casablanca, Tel. 30 76 39

### Netherlands

Nixdorf Computer BV  
Europalaan 101, 3526 Kr Utrecht,  
Tel. 0 30-88 44 04

### Singapore

Nixdorf Computer Pte. Ltd.  
100-c Pasir Panjang Road  
Singapore 0511

### South Africa

Nixdorf Computer Pty. Ltd.  
Triumph House,  
Stanley Avenue, Milpark  
P.O. Box 7911  
Johannesburg, 2092  
Tel. 7 26 80 00

### Spain

Nixdorf Computer S.A.  
Capitán Haya 38, Madrid 20,  
Tel. 2 79 78 08

### Sweden

Nixdorf Computer AB  
Box 1508  
S-125 25 Stockholm  
Tel. 47 26 50  
Varuvägen 9B  
Aelsvsjoe

### Switzerland

Nixdorf Computer AG  
Obstgartenstraße 25, 8302 Kloten,  
Tel. (01) 8 14 34 34

### USA

Nixdorf Computer Corporation  
168 Middlesex Turnpike,  
Burlington, MA 01803,  
Tel. 617 273 0480  
TWX 710 332 1263

## Foreign Agencies

### Brazil

Labo Eletrônica S/A, Av. das  
Nações Unidas 13797 - Bloco II -,  
17 Oandar, 04794 São Paulo,  
Tel. 5 43-55 67

### Denmark

Logatron A/S  
Datagården, Tagensvej 86,  
2200 Copenhagen,  
Tel. 1-83 03 33

### France

Uhl-Bonaventure, Informatique S.A.  
5, rue de Picardie,  
67460 Reichstett-Strasbourg,  
Tel. 20 00 05

### Hong Kong

Zung Fu Company Ltd.  
Nixdorf Computer Department  
G.P.O. Box 209, 36 Leighton Road,  
Hong Kong, Tel. 57 95 72 40

### Israel

Nicom Computer Ltd.  
P.O.B. 25018, 45, Amishav Str.,  
Tel-Aviv, Tel. 31 94 48

### Italy

Serenissima Srl  
5, Via Croce Rossa,  
35100 Padua  
Tel. 77 40 00

### Japan

Kanematsu - Nixdorf Computer Ltd.  
Nihonseimei-Gotanda Bldg., 1-31-1,  
Nishi-Gotanda, Shinagawa-ku,  
Tokyo 141, Tel. 03-4 90-13 51  
Marubeni Electronics  
16-16 Toranomon 1 Chome,  
Minato-ku, Tokyo, Tel. 5 07 45 20

### Korea

Jyoni Corporation  
C.P.O. Box 7554, Seoul, Tel. 75 01 31

### New Zealand

Equipment and Systems  
Evaluation Limited,  
9 Manakau Road, P.O. Box 9337,  
Newmarket, Auckland, Tel. 54 25 74

### Norway

Logatron A/S  
Kirkeveien 71b,  
1344 Haslum dl, Tel. 2-12 26 50

### Philippines

Summa Computer Services  
Corporation, Penthouse,  
Provident Ins. Building  
Esteban Street, Legaspi Village  
Makati MM, Tel. 85 42 36

### Portugal

Araujo & Sobrinho, Sucrs.  
Rua Júlio Dinis, 841,  
4099 Oporto Codex, Tel. 69 00 55

### Venezuela

Ingedigit C. A.  
P.O. Box 1622, Edificio, Pisos 1 - 3  
Avenida Libertador, El Rosal - Caracas  
Tel. 32 31 50

### Yugoslavia

RIZ-OD Informatika  
Prosinackih Zrtava 35  
41040 Zagreb, Tel. 25 65 34

### Zimbabwe

T.A. Computer Services (Pvt) L  
2 Beatrice Road, Harare

