

EARL BECK
 Burroughs Corporation
 Phone 424-3856 or 373-1771

THE PRODUCTS OF BURROUGHS



Burroughs business is the recording, storing, computing, processing and communicating of data. Its products include electronic data processing systems; data communications terminal devices; special systems for defense, space and other government agencies; electronic accounting systems and electro-mechanical accounting

machines; adding machines and calculators; data recording equipment; electronic components, and a comprehensive line of business forms and office supplies. This brochure contains a representative sampling of the range of products and services which Burroughs engineers, manufactures and markets worldwide.



electronic data processing systems

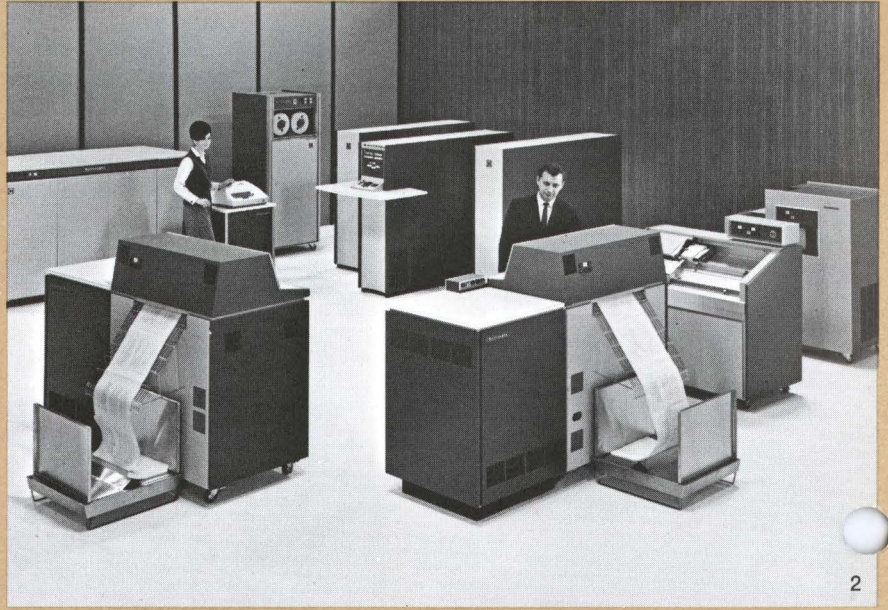
Burroughs is recognized in the EDP industry as a supplier of computer systems of very advanced design. The unique architecture of Burroughs "500" Systems computer family incorporates modular design to permit system growth without reprogramming, and "dynamic self-regulation" through operating system software that automatically schedules and allocates the system's resources to programs being processed.

Multiprogramming is the normal mode of operation and, on the larger systems, parallel processing with multiple central processors provides maximum throughput and reliability. The data communications-oriented design of Burroughs computers permits full utilization of terminal devices in on-line remote data processing and time sharing networks. An outstanding library of applicational

program packages is available to "500" Systems computer users.

The B 500 computer system (1) is the smallest member of the "500" Systems family. It has higher-level language compatibility with other "500" Systems computers, providing a natural bridge for Burroughs users into the larger systems. The B 500 brings the versatility of high speed random access processing and full COBOL programming within the reach of many more small system users.

The medium-scale B 2500 and B 3500 computers (2) like other Burroughs systems, are characterized by automatically controlled multiprogramming capabilities and outstanding productivity. The U.S. Air Force is one of many current B 3500 users and is installing these systems to automate more than 150 of its air bases situated both in the United States and overseas.

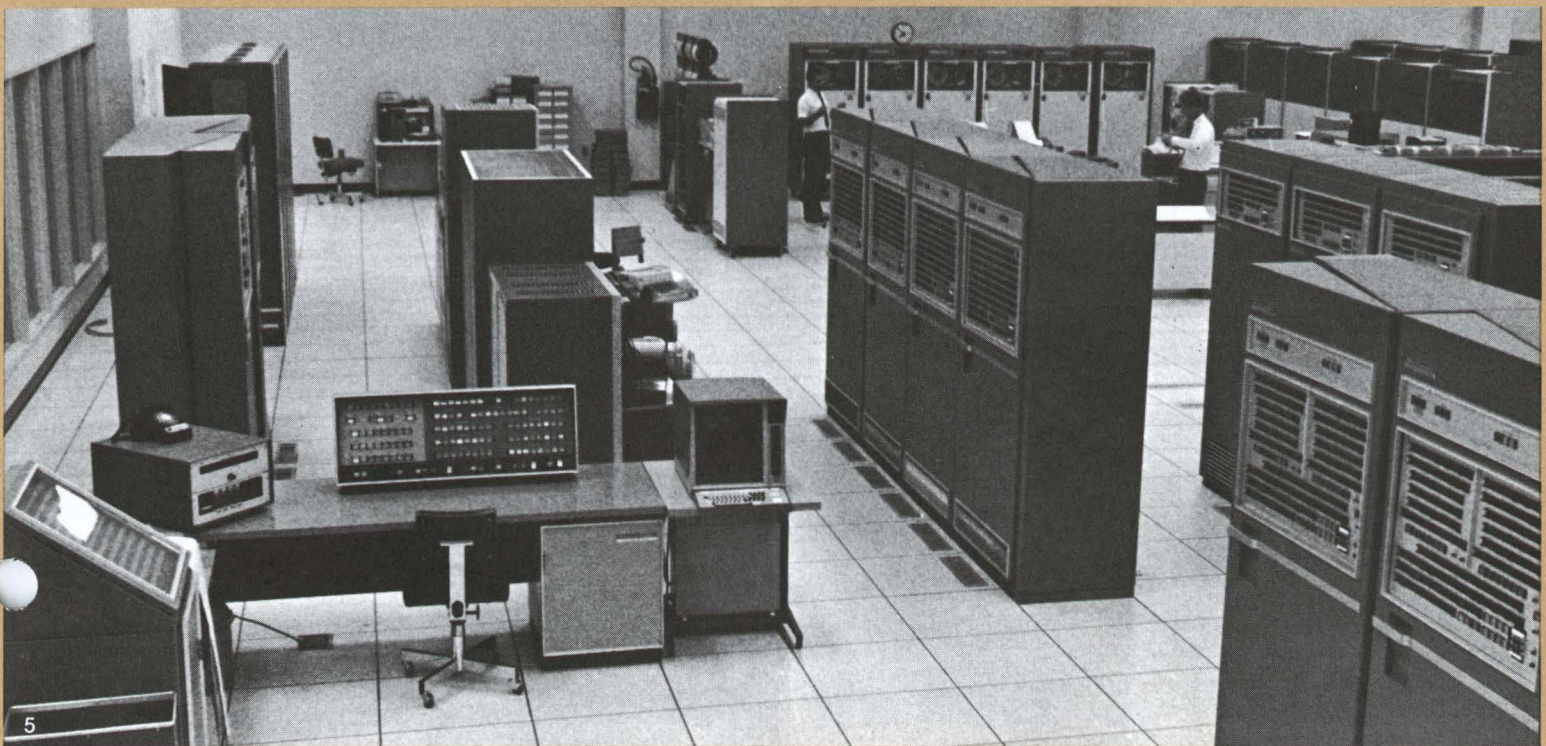
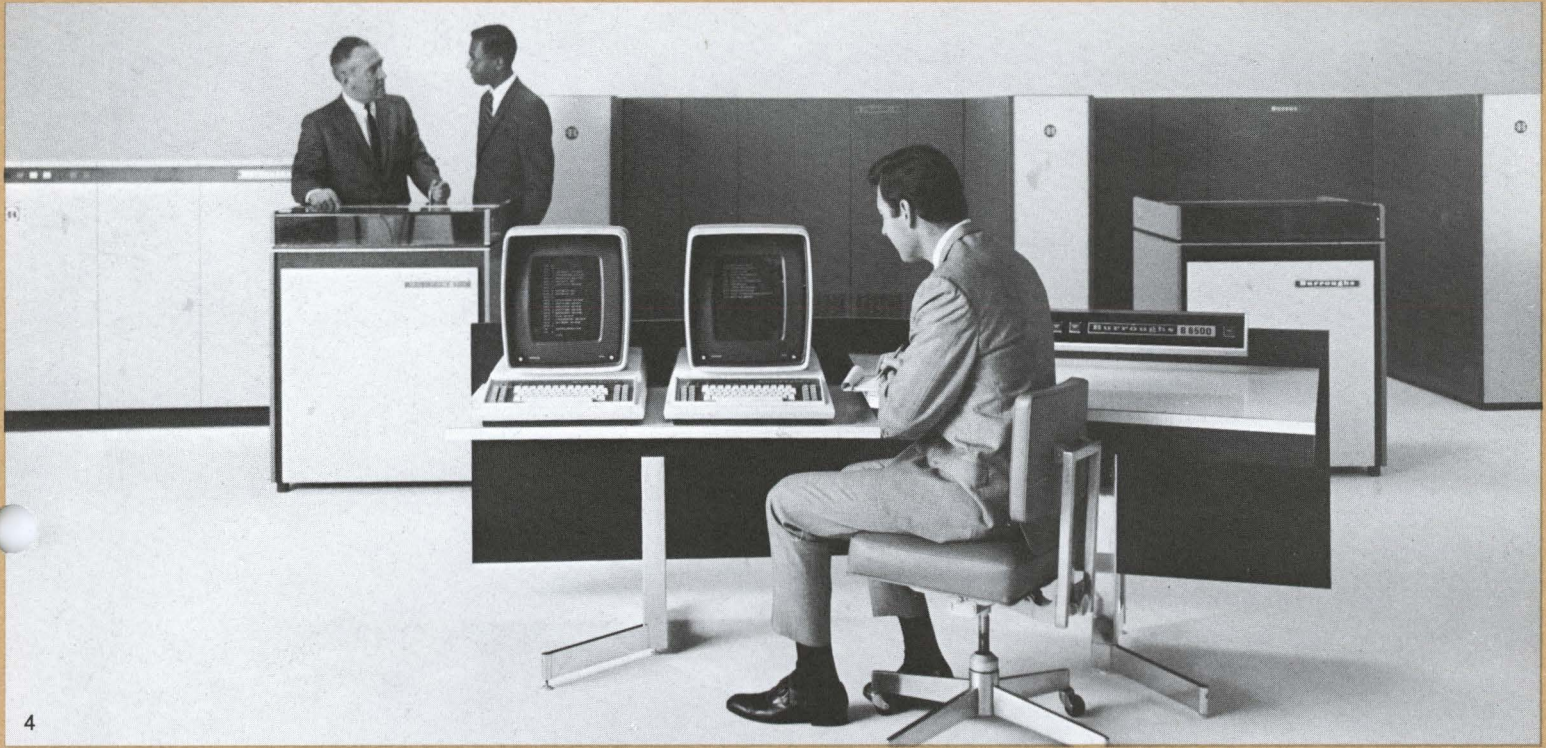


In designing the medium-scale B 5500 computer (3) Burroughs software experts worked with hardware engineers to develop one of the first commercial computers designed to operate under the control of self-regulating operating system software. Multiprogramming is a normal mode of operation for the B 5500. It also functions with dual central processors for parallel processing and is widely used in on-line time sharing networks.

Burroughs B 6500 (4) and B 7500 computers are very large scale language processor systems designed for the multiprocessing/time-sharing environment. Their unique data communications-oriented design permits a user to perform real time operations, remote computing and inquiry, and on-line programming while continuing to handle routine on-site tasks. The B 6500 and B 7500

are derived from the B 5500 and expand upon its proven-in-use software and advanced system design.

The B 8500 supercomputer was developed to handle the massive data processing needs of the world's largest corporations, government agencies and educational institutions. Its inherent system modularity and dynamic self regulation, combined with advanced hardware and software characteristics, assure users of immense data processing power and versatility. The B 8300 system (5), part of the B 8500 development program, is used by one of the world's largest airlines, instantly handling requests from thousands of passenger reservation agents throughout the world.



high speed computer peripherals

Burroughs offers "500" Systems users a wide range of high speed input and output devices, random access memory files and satellite data storage and retrieval systems.

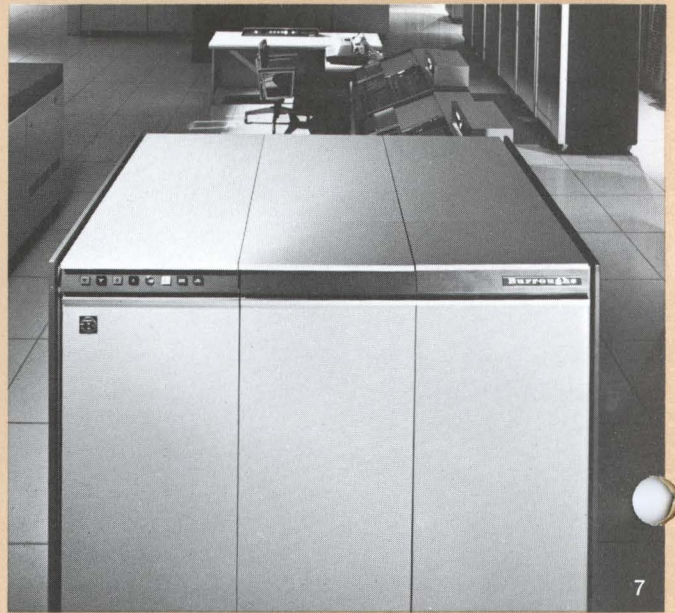
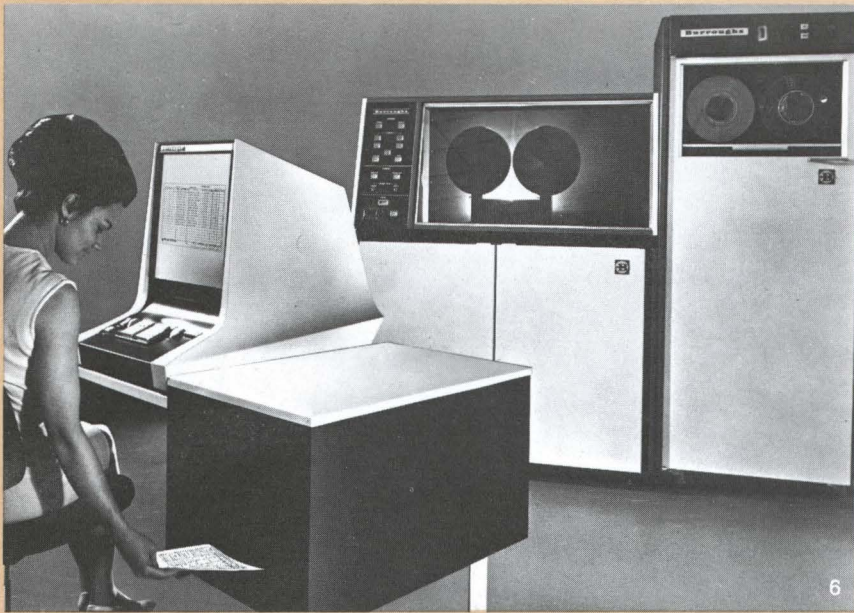
BCOM, Burroughs Computer-Output-To-Microfilm system (6) produces microfilm images from data recorded on magnetic tape at speeds up to 96,000 characters per second. A film viewer can be used to locate individual frames of information so that "hard" or film copies of displayed records can be reproduced from the microfilm.

Magnetic Disk Files (7) range from Systems Memory files with capacities of from one to four million characters, to massive Data Memory Banks with capacities ranging to billions of characters of information. The unique head-per-track design of the Burroughs disk file eliminates mechanical moving-arm mechanisms for

improved speed, performance and reliability. Customers can select from a full spectrum of memory sizes and access speeds.

Burroughs high speed electronic reader sorter (8) for banking and business, reads both optical and magnetic characters simultaneously and sorts documents at a speed of 1,625 per minute. The unit is expandable from four to 32 pockets.

Punched card readers (9) range in speed to 1,400 cards per minute and card punches (10) to 300 cards per minute. Burroughs offers a range of magnetic tape devices including the unique magnetic tape cluster (11) containing the equivalent of four conventional tape drives in one cabinet. High speed printers (12), operating at speeds to 1,040 lines per minute, and high speed paper tape readers and punches are also available on Burroughs "500" Systems configurations.



data recording and encoding equipment

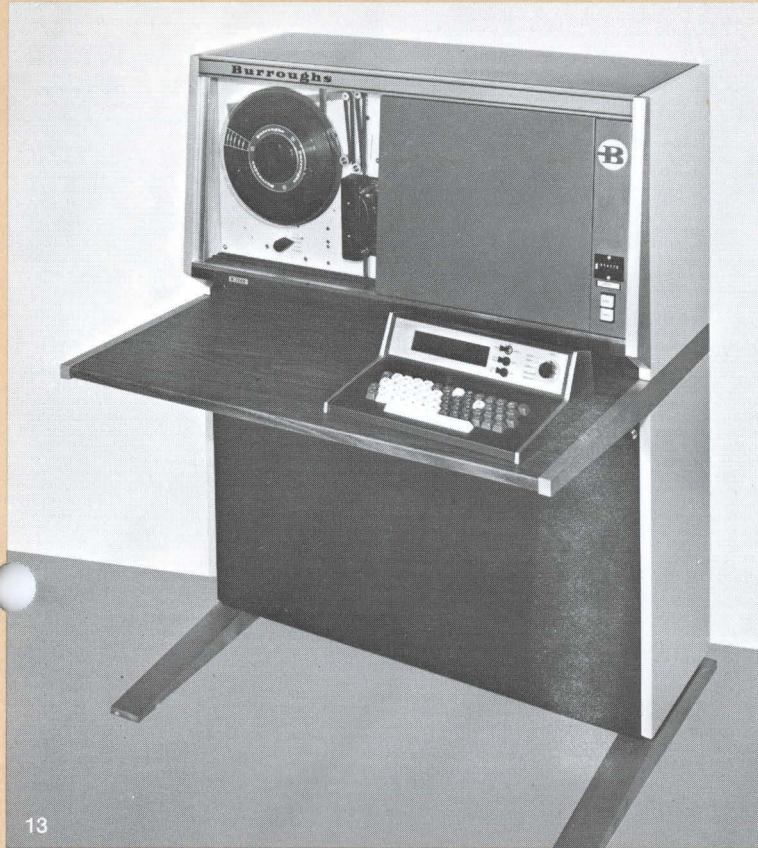
Burroughs N 7000 magnetic tape data recorder (13) permits information to be recorded directly on 7 and 9-channel computer-compatible magnetic tape at a density of 200, 556 or 800 bits per inch. A movable 48-character (optional 64-character) keyboard enables the operator to perform entry, verification and search functions with ease. Visual displays aid operator efficiency. Burroughs A 150 keypunch (14) is a high performance unit which permits encoding of data in punched card form.

The P 903 MICR (Magnetic Ink Character Recognition) proof encoder (15) encodes financial documents for automatic item processing. The versatile P 903 encodes both amount and account

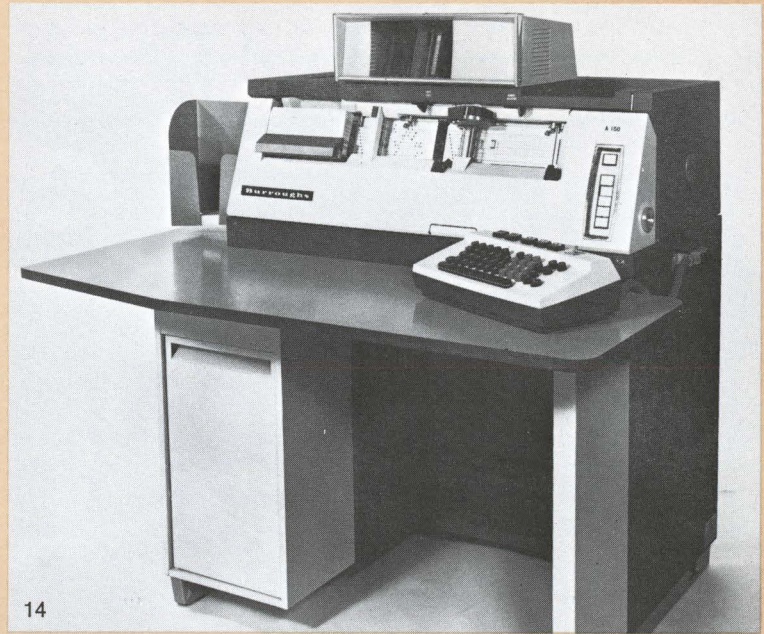
numbers in a single operation.

The T 600 MICR /line encoder (16) and T 400 imprinter-encoder (17) are two members of the Burroughs MICRIGHT family of systems designed to provide automated banks with the ability to prepare internal and external bank documents for computer input. With the T 400, banks can provide fully-personalized, sequentially numbered pocket and business check packages. Both systems offer a full range of MICR-encoding applications.

The T 100 exception item encoder (18) adds MICR data to any computer input document not previously fully encoded.



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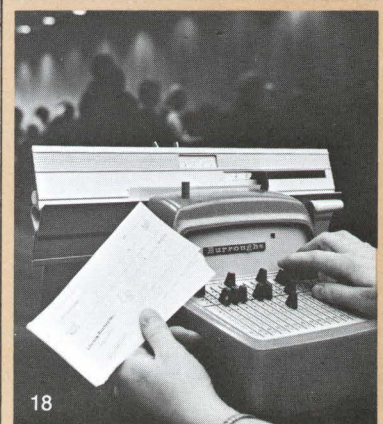
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data communications terminal devices

Burroughs manufactures a wide range of terminals for use in on-line data communications-oriented systems. These terminals can extend the applicational power of computers to thousands of remote locations.

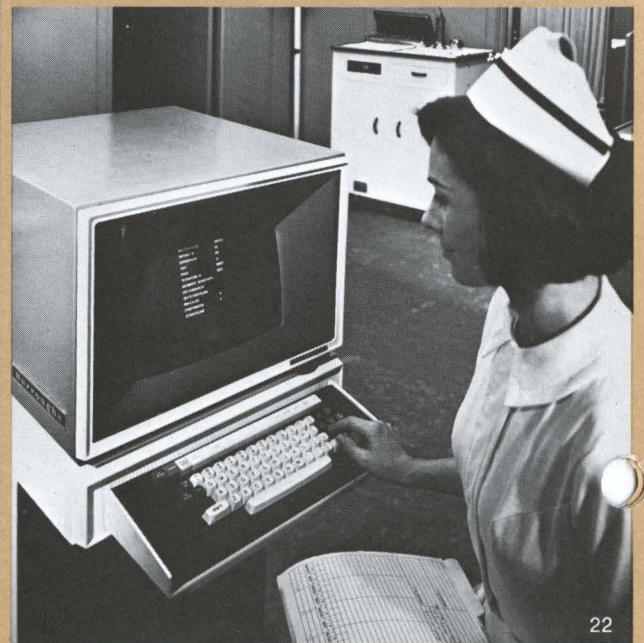
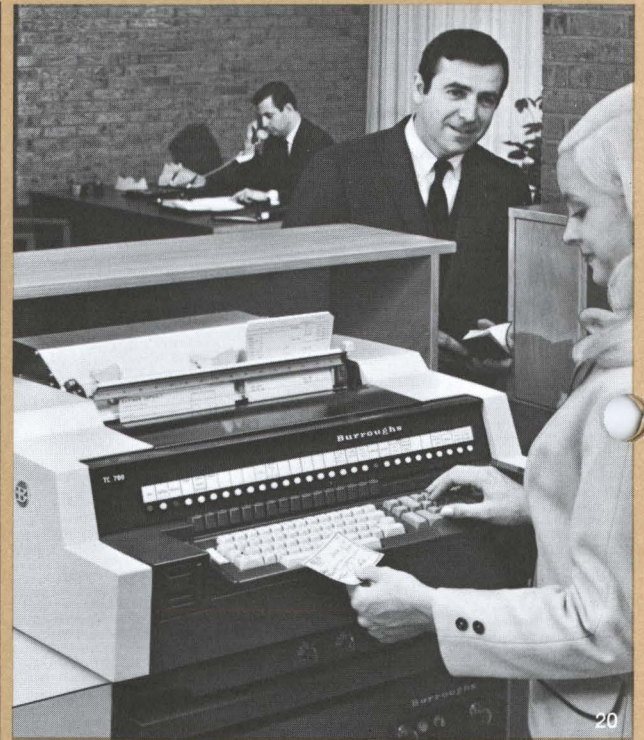
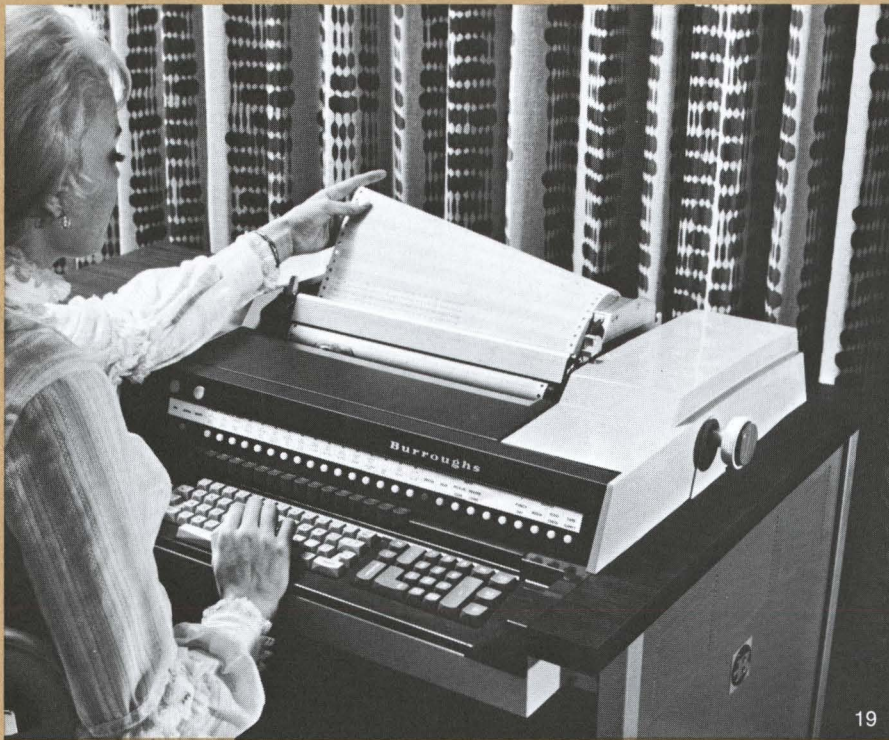
The TC 500 terminal computer (19) is designed to operate either as a data communications terminal "on-line" to a larger central computer system, or function "off-line" as a free-standing, independent computer system. In addition to its data communications capability, the TC 500 can edit and format information and perform operations which previously had to be handled by the central computer, thus lowering costs through reduced data transmission and processing time.

The TC 700 (20) is an electronic terminal for financial, commercial and governmental applications where a window or counter terminal with its own processing power and on-line capability is required.

The memory unit in the TC 500, TC 700 and the L 2000 electronic

billing computer described on Page 6, is an advanced, proven-in-use magnetic disk—similar in design to the head-per-track disk memory concepts used in large-scale Burroughs computer systems. The compact disk unit stores 1,024 words of data and has an average access time of five milliseconds.

Burroughs B 606 teller terminals (21) are in wide use in on-line financial installations throughout the United States. The B 606 transmits deposit and withdrawal information to a central computer which updates the customer's computer-stored record, and then prints the new balance from the computer in his passbook. Burroughs B 9352 data input and display system (22) combines the display capabilities of the cathode ray tube with a typewriter keyboard to provide a versatile remote terminal device. (The B 9351 data input and display system is shown in use with the large scale B 6500 system on page 2.) Such units permit instantaneous "conversation" between a central computer and the user.



accounting machines and systems

Burroughs is a major manufacturer of electronic accounting systems and electro-mechanical accounting machines, offering customers a complete range of applications where the user desires "hard-copy" records of his operation.

The L 2000 electronic billing computer (23) is one model of a new class of machines representing the most fundamental design advance in billing equipment in the last 60 years. The L 2000, and the TC 500 and TC 700 terminal computers, described on Page 5, are essentially the same machine with variable application capabilities. "Firmware," or strings of micro-instructions stored in disk memory, is the system control which establishes the functions the machine is capable of performing.

With the addition of a data communications unit the L 2000 becomes a terminal computer and can function on-line to a central computer in the same manner as a TC 500 or TC 700.

Burroughs offers 128 models of the Series E family of electronic accounting systems, ranging from the E1000 to the E6000. All

Series E systems, including the low cost E3000 (24) have advanced electronic circuitry. Automated forms handling and automatic punched tape or card output for subsequent processing by a larger-scale computer, are other Series E features.

The E 6000 (25) is an internally programmed system with 400 words of magnetic core memory. Available with a range of peripheral devices, including wide line printer, punched card reader and magnetic stripe ledger reader, the E 6000 offers outstanding accounting productivity in addition to its ability to provide timely statistics and management reports.

Burroughs Series F electro-mechanical accounting machines provide an efficient means of handling the modest batches of data generated in hundreds of small and medium-sized applications. One example, the F 9000 alphanumeric accounting machine (26), has an electronic keyboard and a new, advanced alpha printing mechanism. It is suited to a broad range of general accounting applications.



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small application machines

Compact computing power through integrated circuitry is offered by Burroughs Series C 3000 electronic calculators which provide exceptionally fast answers to algebraic and arithmetic problems in complete silence. The C 3350 (27) can extract a square root in less than one-third of a second. The J 600 adding machine (28) is a high performance ten-key machine with advanced features that substantially increase operator speed and comfort.

The J 800 automatic ten-key printing calculator (29) is an exceptionally fast, efficient multiplying machine. It features sim-

licity of operation and high-performance in one compact unit.

The P 5000 duplex adding and subtracting machine (30) is available with wide tabulating carriage (as shown) or optional automatic shuttle carriage providing broad flexibility to meet the needs of modern business.

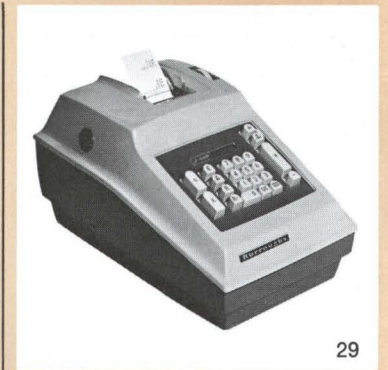
The P 2000 full keyboard adding machine (31) guarantees correct indexing, before adding, with visible audit keyboard design. Ciphers print automatically, reducing the number of key depressions required.



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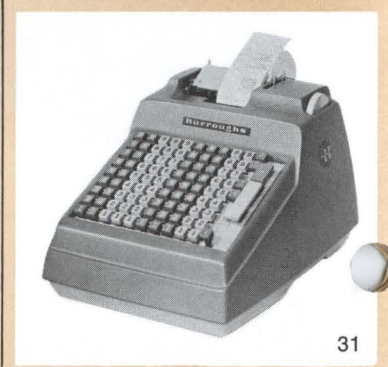
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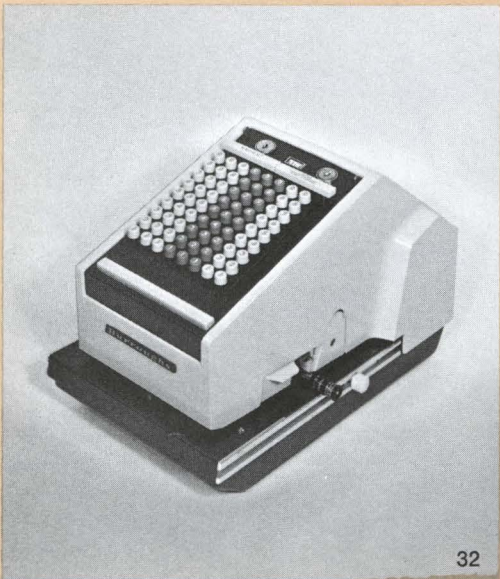
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protection, safety and control systems

Burroughs T 880 check disburser (32) is a multiple-function machine which protects, signs, dates and controls disbursements in a single operation, shredding the authorized amount indelibly into the fibers of the paper to make unauthorized alteration virtually impossible. Burroughs offers several other models in the T 800 Series including the T 860 check signer (33) which imprints an

authorized forgery-proof signature, and the T 890 amount protector (not illustrated).

The T 142 controlled signature machine (34) combines seven essential check disbursement functions in one compact unit. The system lists, adds and protects amounts, and signs, dates, counts and controls checks in a single operation.



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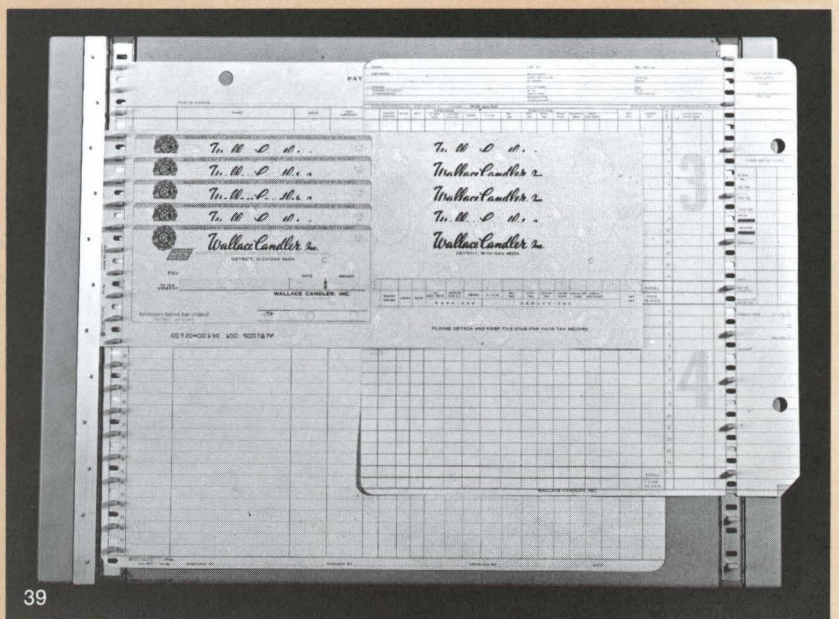
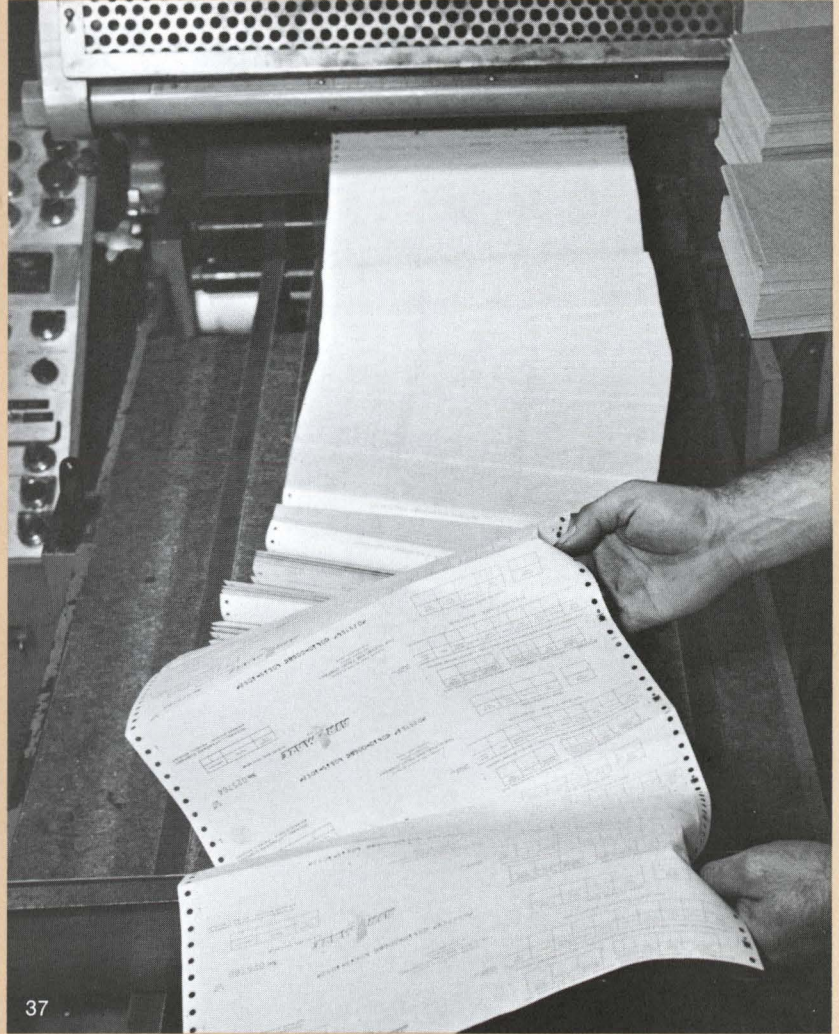
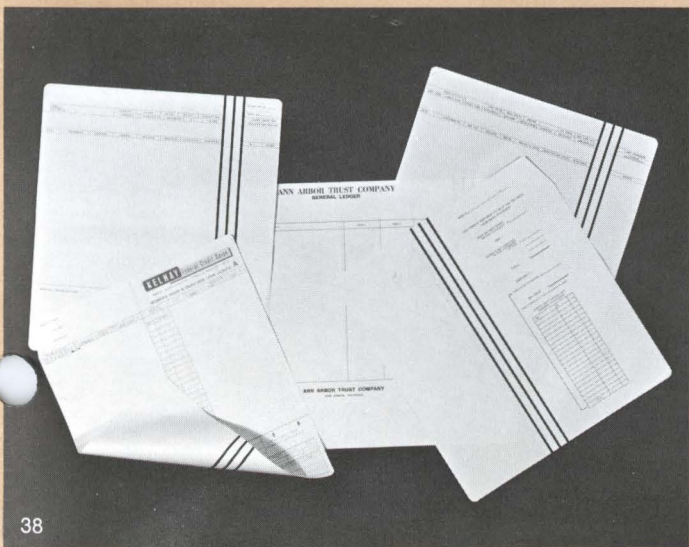
forms and supplies

Burroughs sets the same high standards for the production of forms and supplies that it maintains for its electronic data processing systems and other business equipment. Advanced production techniques are combined with the finest materials and rigid quality controls to produce superior solvent coated transfer papers, machine ribbons and roll papers (35).

High-speed presses produce a wide range of attractive safety paper checks (36), and multiple-part and continuous forms (37) for

computers and accounting equipment in all types of business and banking applications.

Magnetic striped ledger forms (38) permit information to be stored magnetically and read automatically by Burroughs electronic accounting systems. Manual accounting and bookkeeping systems (39) for accounts receivable, payroll, accounts payable, and general accounting are among the many other business forms products provided by Burroughs.



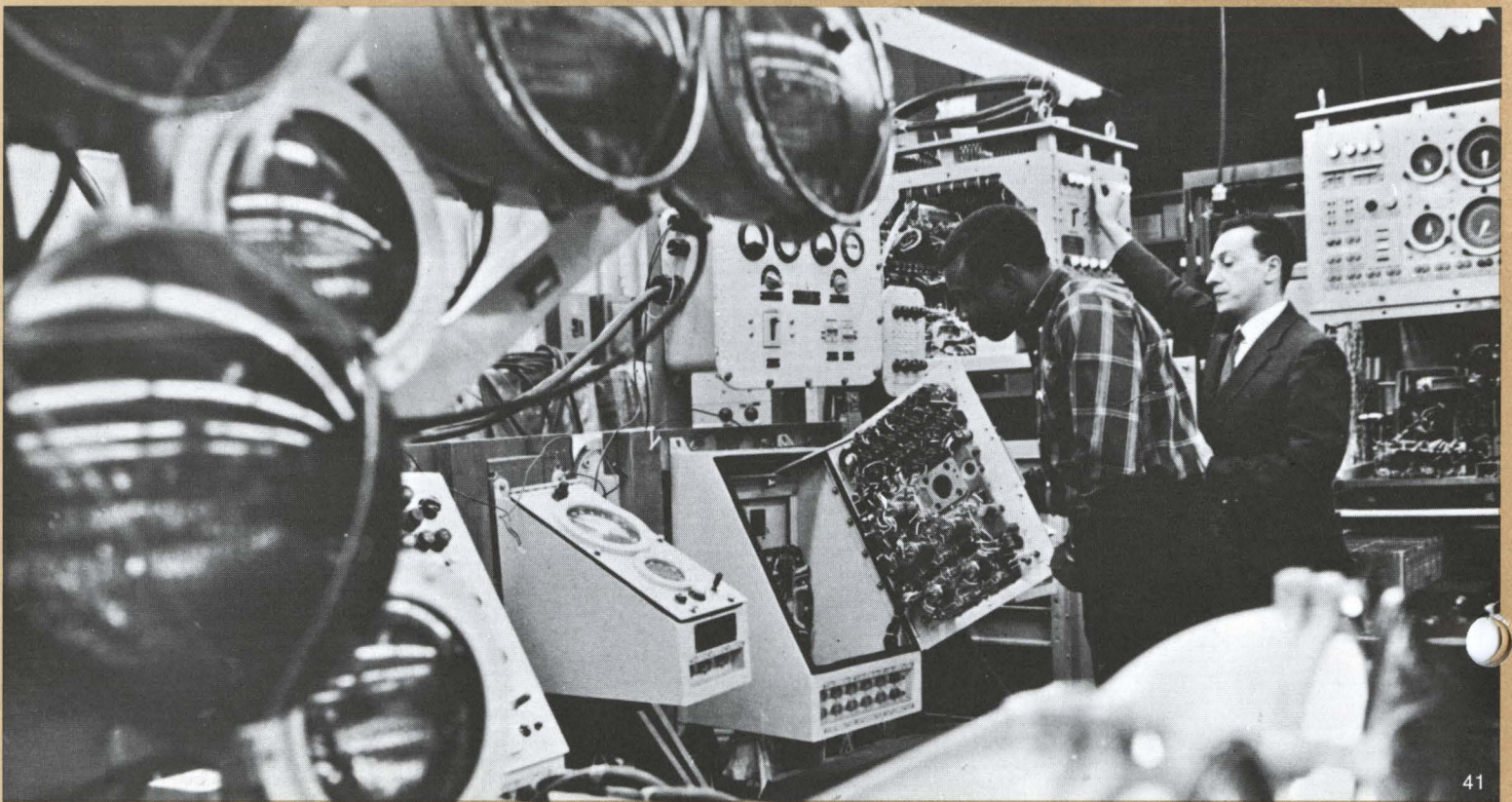
special systems

Burroughs engineers and manufactures data processing systems and advanced products for defense, space and other government agencies as well as large-scale computer systems for special commercial, educational and scientific applications.

Display consoles (40), D 825 computers and radar data processors are supplied to the U.S. Air Force for its Back Up Interceptor Control (BUIC) system for North American Continental Air Defense.

Burroughs aircraft landing systems (41), consisting of arrays of lights, precision optical lenses and special purpose computers, guide pilots to safe landings on U.S. Navy aircraft carriers.

Burroughs information processing systems provide unparalleled reliability and performance in automatically routing messages and from command centers. This D 825 system (42) handles all digital communications for the North American Air Defense Command's underground Combat Operations Center.

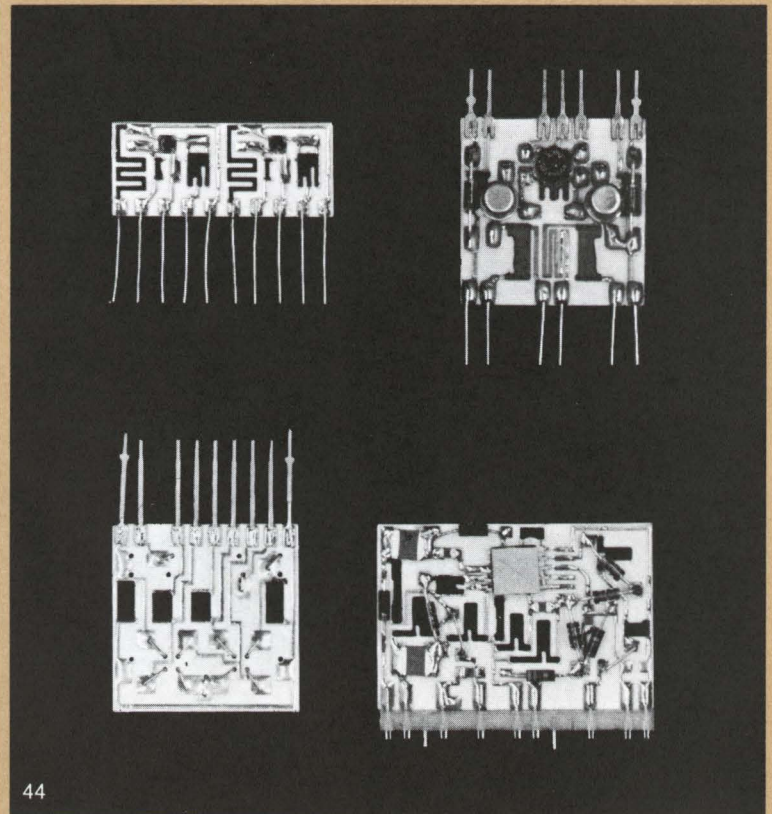




electronic components

The industry's most widely used readout device for numeric or alphanumeric information is Burroughs Nixie® tube (43). Nixie tubes are commonly used for information display in electronic instruments, office machines, and machine tool control systems.

Burroughs also manufactures microelectronic circuits (44), for special applications in its data processing systems, for sale to other manufacturers, and for use in signal amplifiers and decoders to operate Nixie readout tubes.



THE PRODUCTS OF BURROUGHS

Burroughs maintains a worldwide field marketing force of some 18,000 skilled sales, service and technical support personnel.

The Company utilizes its advanced electronic data processing equipment, software, and application knowledge in time sharing and data processing service centers in a number of locations throughout the world.

This brochure contains only a sampling of the broad range of data processing products and services provided by Burroughs Corporation, its subsidiary companies and distributors operating throughout the world.

principal worldwide locations of Burroughs plants, marketing offices and distributors

MARKETING: ALGERIA ALGIERS ANGOLA LUANDA ARGENTINA BUENOS AIRES CORDOBA LA PLATA MENDOZA ROSARIO AUSTRALIA ADELAIDE BRISBANE CANBERRA DANDENONG GEELONG HOBART LAUNCESTON LISMORE MELBOURNE NEW CASTLE PERTH ROCKHAMPTON SYDNEY TOWNSVILLE WOLLONGONG AUSTRIA VIENNA BAHAMA ISLANDS NASSAU BARBADOS BRIDGETOWN BELGIUM ANTWERP BRUSSELS CHARLEROI COURTRAI GHENT LIEGE LUXEMBOURG BERMUDA HAMILTON BOLIVIA LA PAZ BRAZIL BAURU BRASILIA CAMPINAS FORTALEZA PAISSANDU PORTO ALEGRE RECIFE RIO DE JANEIRO SALVADOR SANTO ANDRE SAO JOAO SAO PAULO BRITISH HONDURAS BELIZE CAMEROUN DOUALA CANADA CALGARY DON MILLS EDMONTON HALIFAX HAMILTON KITCHENER LONDON MONTREAL MOUNT ROYAL OTTAWA QUEBEC CITY REGINA SAINT JOHN SHERBROOKE SUDBURY TORONTO VANCOUVER VICTORIA WINDSOR WINNIPEG CENTRAL AFRICA BLANTYRE BULAWAYO SALISBURY CENTRAFRICAINE BANGUI CEYLON COLOMBO CHAD FORT LAMY CHILE ANTOFAGASTA ARICA CONCEPCION COQUIMBO PUNTA ARENAS SANTIAGO VALPARAISO COLOMBIA BARRANQUILLA BOGOTA CALI MEDELLIN CONGO REPUBLIC BRAZZAVILLE POINTE NOIRE COSTA RICA SAN JOSE DAHOMEY COTONOU DENMARK COPENHAGEN ODENSE DOMINICAN REPUBLIC SANTIAGO DE LOS CABALLEROS SANTO DOMINGO EAST AFRICA KAMPALA LUSAKA MOMBASSA NAIROBI NDOLA ECUADOR GUAYAQUIL QUITO FINLAND HELSINKI FRANCE ABIDJAN ALGIERS BORDEAUX CASABLANCA CLERMONT-FERRAND DIJON GENNEVILLIERS GRENOBLE LILLE LYONS MARSEILLES MONTPELLIER NANCY NANTES PARIS REIMS RENNES ROUEN STRASBOURG TOULOUSE TOURS FRENCH GUIANA CAYENNE FRENCH WEST INDIES FORT-DE-FRANCE POINT-A-PITRE TRINITE GABON PORT GENTIL GERMANY DUSSELDORF FRANKFURT HAMBURG HANOVER MUNICH STUTTGART GHANA ACCRA TAKORADI GREAT BRITAIN BELFAST BIRMINGHAM BOLTON BRADFORD BRISTOL CARDIFF CHATHAM CHESTER COVENTRY CROYDON DUNDEE EDINBURGH GLASGOW ILFORD LEEDS LEICESTER LIVERPOOL LONDON LUTON MANCHESTER MIDDLESBROUGH NEWCASTLE NORWICH NOTTINGHAM PARK ROYAL PLYMOUTH PRESTON SHEFFIELD SLOUGH SOUTHAMPTON SOUTH THAMES SURREY SUSSEX WOLVERHAMPTON GREECE ATHENS GUATEMALA GUATEMALA GUINEA CONAKRY GUYANA GEORGETOWN HAITI PORT-AU-PRINCE HOLLAND AMSTERDAM ARNHEIM DEN BOSCH GRONINGEN THE HAGUE ROTTERDAM 'S-HERTOGENBOSCH UTRECHT HONDURAS SAN PEDRO SULA TEGUCIGALPA HONG KONG HONG KONG ICELAND REYKJAVIK INDIA BOMBAY CALCUTTA INDONESIA DJAKARTA IRAN TEHERAN IRAQ BAGDAD IRELAND DUBLIN ISRAEL TEL AVIV ITALY BOLOGNA GENOA MILAN PADUA ROME IVORY COAST ABIDJAN JAMAICA KINGSTON JAPAN AKITA AOMORI ASAHIGAWA CHIBA GIFU FUKUOKA HAKODATE HAMAMATSU HIMEJI HIROSHIMA IIDA KAGOSHIMA KANAZAWA KITAKYUSHU KOBE KOHCHI KOHRIYAMA KOKURA KOSAKA KUMAMOTO KUSHIRO KYOTO MAIZURU MATSUE MATSUMOTO MATSUYAMA MITO MIYAZAKI MORIOKA MURORAN NAGANO NAGAOKA NAGASAKI NAGOYA NIIGATA NIIHAMA NUMAZU OHITA OHMIYA OKAYAMA ONOMICHI OSAKA SAPPORO SENDAI SHIZUOKA TAKAMATSU TAKASAKI TOKUSHIMA TOKYO TOYAMA TOTTORI TSU WAKAYAMA YAMAGATA YAMAGUCHI YOKOHAMA JORDAN AMMAN KUWAIT KUWAIT LEBANON BEIRUT LIBYA TRIPOLI LUXEMBOURG LUXEMBOURG MALAGASY TANANARIVE MALAYSIA KUALA LUMPUR MALI BAMAKO MALTA VALETTA MEXICO CHIHUAHUA CIUDAD OBREGON GUADALAJARA MEXICO CITY MONTERREY SAN LUIS POTOSI TIJUANA VERA CRUZ MOROCCO CASABLANCA MOZAMBIQUE LOURENCO MARQUES NETHERLANDS ANTILLES WILLEMSTAD NEW ZEALAND AUCKLAND CHRISTCHURCH DUNEDIN HAMILTON INVERCARGILL LOWER HUTT NAPIER PALMERSTON NORTH WELLINGTON NICARAGUA MANAGUA NIGER NIAMEY NIGERIA KADUNA LAGOS PORT HARCOURT NORWAY OSLO PAKISTAN Dacca KARACHI LAHORE PANAMA PANAMA PARAGUAY ASUNCION PERU LIMA PHILIPPINES CEBU MAKATI MANILA PORTUGAL LISBON OPORTO PUERTO RICO PONCE SAN JUAN REPUBLIC OF THE CONGO KINSHASA LUBUMBASHI EL SALVADOR SAN SALVADOR SAUDI ARABIA JEDDAH SENEGAL DAKAR SIERRA LEONE FREETOWN SINGAPORE SINGAPORE SOUTH AFRICA BELLEVILLE BENONI BLOEMFONTEIN CAPE-TOWN DURBAN GERMISTON JOHANNESBURG JOHANNESBURG KRUGERSDORP LADYSMITH PIETERMARITZBURG PORTELIZABETH PRETORIA SPAIN BARCELONA BILBAO MADRID SEVILLA VALENCIA SURINAM SURINAM SWEDEN GOTEBOURG MALMO STOCKHOLM SWITZERLAND BASEL BERNE FRIBOURG GENEVA LAUSANNE LUGANO ST. GALLEN ZURICH SYRIA DAMASCUS TAIWAN TAIPEI TANZANIA DAR ESSALAAM THAILAND BANGKOK TOGO LOME TRINIDAD PORT OF SPAIN TUNISIA TUNIS TURKEY ANKARA ISTANBUL UGANDA KAMPALA UNITED ARAB REPUBLIC ALEXANDRIA CAIRO UNITED STATES AKRON ALBANY ALBUQUERQUE ALLENTOWN AMARILLO ANCHORAGE ATLANTA AUGUSTA AUSTIN BALTIMORE BATON ROUGE BEAUMONT BEVERLY HILLS BILLINGS BINGHAMPTON BIRMINGHAM BLUEFIELD BOISE BOSTON BRIDGEPORT BROOKLYN BUFFALO BURLINGTON CAMBRIDGE CAMDEN CANTON CEDAR RAPIDS CHARLESTON CHARLOTTE CHATTANOOGA CHEYENNE CHICAGO CICERO CINCINNATI CLARKSBURG CLAYTON CLEVELAND COCOA BEACH COLORADO SPRINGS COLTON COLUMBIA COLUMBUS, GA. COLUMBUS, O. CORPUS CHRISTI DALLAS DAVENPORT DAYTON DECATUR, GA. DECATUR, ILL. DENVER DES MOINES DETROIT DULUTH ELIZABETH EL MONTE EL PASO ENGLEWOOD ERIE EUGENE EVANSTON EVANSVILLE FAIRFAX FARGO FLINT FLORENCE, ALA. FLORENCE, S.C. FORT LAUDERDALE FORT WAYNE FORT WORTH FRESNO GAINESVILLE GRAND RAPIDS GREEN BAY GREENSBORO GREENVILLE HAMMOND HARRISBURG HARTFORD HEMPSTEAD HONOLULU HOUSTON HUNTINGTON HUNTSVILLE HUTCHINSON INDIANAPOLIS INGLEWOOD JACKSON, MICH. JACKSON, MISS. JACKSONVILLE JAMAICA, L.I., N.Y. JAMESTOWN JOHNSTOWN KALAMAZOO KANSAS CITY KNOXVILLE LAFAYETTE LANSING LAS VEGAS LEXINGTON LIMA LINCOLN LITTLE ROCK LONG BEACH LOS ANGELES LOUISVILLE LYNCHBURG MACON MADISON MANCHESTER MAYWOOD MEMPHIS MIAMI MILWAUKEE MINNEAPOLIS MOBILE MODESTO MONTGOMERY MUNCIE NASHVILLE NEWARK NEW HAVEN NEW ORLEANS NEW YORK NEWPORT NEWS NORFOLK OAKLAND OKLAHOMA CITY OMAHA ORLANDO PALO ALTO PARKERSBURG PATERSON PEORIA PHILADELPHIA PHOENIX PITTSBURGH PONTIAC PORTLAND, ME. PORTLAND, ORE. POUGHKEEPSIE PROVIDENCE PUEBLO QUEENS RACINE RALEIGH REDWOOD CITY RICHMOND ROANOKE ROCHESTER, MINN. ROCHESTER, N.Y. ROCKFORD ROCKVILLE SACRAMENTO ST. LOUIS ST. PAUL SALT LAKE CITY SAN ANTONIO SAN DIEGO SAN FRANCISCO SAN GABRIEL SAN JOSE SANTA ANA SANTA BARBARA SAVANNAH SCRANTON SEATTLE SHREVEPORT SIOUX CITY SOUX FALLS SOUTH BEND SPOKANE SPRINGFIELD, ILL. SPRINGFIELD, MASS. SPRINGFIELD, MO. STOCKTON SYRACUSE TACOMA TAMPA TALLAHASSEE TERRE HAUTE TOLEDO TOPEKA TRENTON TUCSON TULSA UNIVERSITY CITY UTICA VALLEY FORGE VAN NUYS WACO WASHINGTON WEST PALM BEACH WESTCHESTER WHEELING WICHITA WILMINGTON WINSTON-SALEM WORCESTER YOUNGSTOWN UPPER VOLTA BOBO DILOULASSO OUAGADOUGOU URUGUAY MONTEVIDEO VENEZUELA BARQUISIMETO CARACAS MARACAIBO VALENCIA

MANUFACTURING AND ENGINEERING: BELGIUM LIEGE SENEFFE BRAZIL SANTO AMARO VELEIROS CANADA GREENFIELD PARK SCARBOROUGH COLOMBIA BOGOTA FRANCE PANTIN VILLERS-ECALLES GREAT BRITAIN CUMBERNAULD GLENROTHES STRATHLEVEN MEXICO GUADALAJARA PHILIPPINES MANILA UNITED STATES BIRMINGHAM CARLSBAD CARLSTADT CINCINNATI CITY OF INDUSTRY DALLAS DENVER DETROIT DOWNINGTOWN EAST WHITELAND FORT WASHINGTON HOLLYWOOD HOWELLVILLE KIRKSVILLE MAYWOOD MISSION VIEJO PAOLI PARK RIDGE PASADENA PISCATAWAY PLAINFIELD PLYMOUTH RADNOR ROCHESTER SANTA BARBARA TREDYFFRIN TOLLAND WESTLAKE