canada courier

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More detailed information on any product or service mentioned in this issue is available through the nearest Canadian Government Trade Representative, or by completing the Trade Inquiry Form on page 7 and mailing it to Canada Courier, Department of Industry, Trade and Commerce, Ottawa, Canada. Postal code: K1A 0H5.

Things to wear, to work with, to live with

Canadian manufactured goods of consuming interest!

Canada's position as a leading exporter of raw materials — particularly wheat, wood pulp and similar pulp — is recognized internationally. The international community is also aware of Canada's expertise in such fields as medicine, transportation, oceanology, machinery and electronics.

Less well known — though equally important — are Canada's capabilities as a producer and exporter of finished manufactured products and consumer goods. And here too Canada has a lot to offer, from sporting goods and other leisure products to jewellery, toys, handcrafts and furniture.

Canadian furniture production 100 years ago was valued at $3,500,000 and employed 4,366 persons. Today, 48,000 employees of some 1,225 Canadian furniture companies produce shipments worth an estimated $1,020 million.

A factor accounting for much of this success is that the Canadian furniture manufacturer gives the customer what he wants — whether it be parlor suites, the most modern of decors or modular furniture that fits in easily in home, office or institution.

Anxious to go where the buyers are, Canadian furniture manufacturers have created a favorable impact — and generated sales — by participating in furniture shows such as those in Hickory and High Point, North Carolina, New York and Jamestown, New York, and Chicago, Illinois.

When it comes to the sporting goods industry, Canadian capabilities are efficient and diverse. Canadian sporting goods products cover the entire gamut, from golf clubs, tennis equipment and fishing gear to hockey sticks and skates, swimming pools and accessories, archery equipment and hunting knives.

In 1974 the volume of business conducted by the Canadian sporting goods industry amounted to approximately $320,000,000 — and this is exclusive of such items as sportswear and recreational vehicles.

Toys, jewellery and handcrafts — of every type and description — are also an important part of the finished products manufactured in Canada. While the volume of business done by these industries is somewhat less than that of the sporting goods industry, it is still impressive.

The toy industry in 1974 did a $250,000,000 business while, in the same year, the jewellery and handcrafts industries accounted for approximately $200,000,000.

Like the furniture companies, these Canadian manufacturers are also anxious to go to where the buyers are. One such occasion is the Samples from Canada show being held in Sydney and Melbourne, Australia, in July and August, 1975.

Here, 17 Canadian companies are, for the first time, displaying a cross-section of their manufactured goods.

Some of the companies participating in the Samples from Canada show are highlighted in this edition of Canada Courier (this page and page 8). Yet others are:

Alligator Leather Goods Co. of Montreal, Quebec, showing watchstraps of genuine leathers and fabrics for men, women and children.

All-Purpose Leathercraft Ltd., Scarborough, Ontario, displaying industrial pouches for the electrical, carpenter, dry wall, mechanical and household trades.

Bernzomatic Limited of Toronto, Ontario, produces propane blow torches that incorporate the most advanced propane technology available while Canada Colony Inc., Scarborough, Ontario, has handcrafted stoneware in natural and earth-tone glazes. Dishwasher and oven proof, the stoneware is extremely strong and impervious to water.

Original designs in jugs, bowls, vases, ashtrays, and other items are made by Canadiana Pottery Limited, Ingleside, Ontario.

Dudley Lock Division, United-Carr Division of TRW Canada Limited, Toronto, Ontario, manufactures fool-proof, trouble-free combination padlocks. With an automatic locking feature, the padlocks have a nickel-plated heavy steel case and cadmium-plated solid steel shackle.

Top quality hand tools for the professional automotive mechanic and a lower priced hardware line for the do-it-yourselfer are produced by Gray Tool Company of Brampton, Ontario.

Hersey of Canada Inc., Montreal, Quebec creates headwear, mitts and scarves — all handcrafted in 100 per cent acrylic and acrylic blend mohair. These articles can be custom packaged to customer requirements as retail premium, gift program and sales incentive items.

Keyes Jewellers Mfg. Ltd. also of Montreal, produces a full range of higher priced costume jewellery in a variety of top quality metals with both genuine and imitation stones.

Infinitely variable "Roll-It" shelving that is easy to install is manufactured by Metalworks Limited, Lachine, Quebec. Complete with brackets, standards and shelves, the units are available in a variety of sizes and finishes.

Unusual fashion jewellery in solid brass, copper, sterling silver and gold is the creation of Rafael Canada, Toronto, Ontario. These items feature brilliant hue stones formed of a special glass.

Tek Hughes Products Limited of Mississauga, Ontario, manufactures hair brushes whose special features are back decorations that are integral, subsurface and protected with a thick layer of clear plastic. The brushes are presented in a new blister package that is pilferproof and highly resistant to damage.

Further information about any of these products is available by filling in the trade inquiry form on page 7, quoting the code number at the end of this story and specifying the companies of interest. Code 1-162

Learning to swim is fun! It's also safer — when using inflatable swimming aids developed by Dizard of Canada Limited, Toronto, Ontario. The company's vinyl swim wings, like inflatable bladders attached to the upper arm, are in three sizes: for infants to six years, six to 12 years and 12 to adult. Designed to support body weight and to prevent the head from tipping forward into the water, the swim wings feature two safety air chambers and two safety non return valves. Dizard's other inflatable vinyl products include buoys, tadpole wings, beach bags and specs. The company stresses that its inflatable products are not life preservers. They are confidence-inspiring aids for beginners and should be used only under the supervision of experienced swimmers. Dizard is participating in the Samples from Canada show in Australia. *Code 1-262*

New-age modular furniture that will enhance the appearance of practically any room in the house is designed and manufactured by Jean Caron Ltée of St-Augustin, Quebec. The units, in teak or white laminated plastic finish, provide a limitless variety of combinations, arranged to reflect the owners's personality, taste and requirements. With soft lines and of high quality construction, the modules can be one colour and the doors another. The queen size bed is 60 by 80 inches (152.4 by 203.2cm) while a single bed is 39 by 74 inches (99.1 by 188 cm). Jean Caron Ltée currently exports to United States and will serve markets wherever the demand for its product exists. *Code 1-326*

And inside . . . **Page**

Science and art of medicine . . . . . 4, 5 and 6

Chair mats prevent wear and tear

A relatively new piece of equipment, the Excelite chair mat, made by Graham Products Limited of Inglewood, Ontario, is fast becoming an essential part of the furnishings of many modern-day offices.

Produced as translucent sheets of tough FRP (fibreglass-reinforced plastic), Excelite mats are installed in offices to provide easy rolling surfaces for chairs, protecting floors and carpets from the wear and tear that would otherwise result. Since these mats are much thinner than plywood or hardboard protectors, it is easy to slip the chair back into position should one leg accidentally roll off the edge.

And Excelite mats, unlike their wooden or hardboard counterparts, will last almost indefinitely, since they will not chip, split, warp or crack. And being reversible makes them even more durable.

Excelite mats are translucent, so that there is no colour-matching problem; they also transmit daylight, so that the likelihood of faded floor areas after furniture has been rearranged is greatly diminished.

Graham's Excelite chair mats are available in either tongue-style units for desks with legs at the knee space or rectangular units. There are three sizes — 36 inches by 48 inches (91.44cm by 121.92 cm), 48 inches by 54 inches (121.92cm by 137.16cm) and 48 inches by 60 inches (121.92cm by 152.5cm).

Already exporting to the United States and the West Indies, Graham Products is interested in all international markets. Code 2-126

Clear, tough, fibreglass-reinforced Excelite chair mats from Graham Products Limited provide an easy rolling surface while protecting carpets and floor tiles.

The new order of the bath

Arguments for conventional bathtubs no longer hold water — they may even be down the drain, now that Boeing of Canada Ltd. has produced its new acrylic-shell fibreglass reinforced bath-shower units.

Designed and manufactured by the Winnipeg, Manitoba division of Boeing, these units are marketed under the trade name Wascan — from the old English meaning "to wash."

Everything — right down to the choice of acrylic — has been designed to please and pamper the most discriminating user. Acrylic is not only more slip resistant than other tub surfaces, it is warmer to the touch and retains the heat of the water longer than porcelainized metal tubs, a fact that could mean savings in fuel costs.

Wascan enclosures also offer a wider choice of bathing positions. Rather than being confined to standing or sitting, the bather can recline in the tub with arms in a comfortable resting position, stand with one leg on the seat to wash feet or shave legs, or sit to wash hair.

A vertical grab bar of chromed steel, built into the centre of the back wall, makes it simpler and safer to get in and out. The narrow front edge around the tub and shower area is also easy to grip and makes the unit four inches (10.2cm) wider than a regular tub.

The backrest of the Wascan units differs from conventional tubs in that it is said to follow more closely the lines of the reclining human form. Directly above the backrest is a canopy that can accommodate a light fixture and/or a vent.

The easy-on-the-eye smooth curves of the tubs are also easy on the person who cleans them: there are no corners to trap dried soap or dirt.

The bath-shower units are available in one and three-piece modules. The three-piece unit is directed toward renovation housing as well as new home construction because of its flexibility: the three adjoining sections — bath, wall and canopy — can be carried through a standard door.

The one-piece unit is designed to be installed before the frame of the house is completed.

Both enclosures are 60 inches (152.4cm) long, 34½ inches (87.6cm) wide and 90 inches (228.6cm) high. The one-piece unit weighs 150 pounds (68.1kg) while the three-piece unit weighs 175 pounds (79.5kg).

The enclosures are made of a cross-linked acrylic shell with a flame retardant polyester backing. And they're strong. A two-pound (0.9-kg) metal ball dropped from 10 feet (3.0m) will leave only a small dent with no chip or fracture.

For contractors there's also considerable savings on labor costs because Boeing has incorporated into the bath-shower enclosures all the items normally found in that area of the bathroom.

Wascan's space age enclosures "for people who don't mind sharing their bath with a world of ideas" are available in six colours: appliance white, bone white, pale blue, avocado, bright red and bright yellow. Code 2-226

Designed and manufactured by Boeing of Canada Ltd., fibreglass reinforced bath-shower units are comfortable, economical and easy to clean.

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Matter for analysis?. . . Inax does the job

Practically any sample — solid, liquid or powder — can be analyzed quickly and easily with the x-ray fluorescence analyzers designed and manufactured by Inax Instruments Ltd., Ottawa, Ontario.

The company's newest analyzer, the XRF 511A, has a wide variety of research and industrial applications. It can be used in mineral analysis of ores and for metals, foods and drugs, environment, cement, chemicals, fuels and pigments.

In mining applications the analyzer provides a quick and accurate determination of the presence and the percentage concentration of elements. It is applicable to most elements of interest: Cu, Zn, Pb, Ag, Mo, Fe, Co, Ni and to heads, tails and concentrates.

When applied in manufacturing, the XRF 511A can be used for alloy identification and for quality control measurements of raw materials and finished products.

It is also useful in measuring toxic elements in consumer goods. Containers used for food or beverages can be quickly examined for Pb, Cd, As or other toxic elements. Elements like Ca, Fe and K can also be accurately determined.

For environmental studies the XRF 511A is used in the measurement of air particulates to identify such elements as Pb, Ca, Fe, Zn, Br and Sr. And in fuel technology the unit can analyze ash and sulphur in coal and sulphur and vanadium in oil.

In addition, the XRF 511A is a valuable tool for pigment analysis in art galleries and in forensic science work. The spectrum display identifies the elements present in a fraction of a minute.

With XRF systems the source radiations — Inax uses a radioactive isotope — penetrate the sample, causing its atoms to emit x-rays. These x-rays, characteristic of the elements emitting them, are absorbed by the detector and converted into electrical pulses. The electronics then sort the pulses according to the elements which emitted them. The result of the analysis is displayed as a direct readout.

This type of technology is said to have several distinct advantages over atomic absorption and other techniques based on the analysis of solutions.

The XRF system is capable of analyzing many elements simultaneously (Z11 through Z92); the analysis is fast, inexpensive per determination and can be portable or automated; it provides direct assay readout, requires no wet chemistry or weighing of samples and is non-destructive. As well, XRF gives accurate analyses from low parts per million levels through high percentage concentration levels.

Features of the XRF 511A are many. It is compact for convenience and modular for maintenance, easy to use with no vacuum needed for the sample and the sample changer can accept up to 100 samples with 30 being the standard.

A spectrum stabilizer eliminates gain drift and the annular source makes it easy to position the sample. Detectors are of silicon or ultra high purity germanium and the encoder can accept high count rates to provide fast measurements.

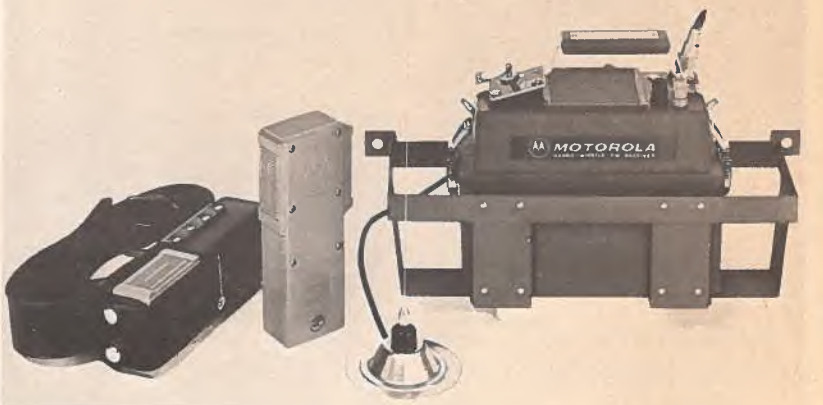
With the XRF 511A integration limits can be stored on programmable plug-in cards or manually in internal memory. Programs can be self-prepared and there is simultaneous multi-element data display and optional logarithmic spectrum display to identify elements and x-ray peak energies.

Inax Instruments Ltd. also designs and manufactures laboratory x-ray emission analyzers, aerial and ground gamma ray spectrometers, pulse height analyzers and detectors.

The company, which seeks international markets, currently exports to such countries as the United States, Germany, Italy, Indonesia and Brazil. Code 2-333

The Inax 410 portable x-ray fluorescence analyzer used to verify metals in manufacturing is designed and manufactured by Inax Instruments Ltd., Ottawa, Ontario. A multi-channel instrument, the 410 integrates and displays the characteristic x-ray counts that fall within any four digitally selected regions of the spectrum. A built-in timer stops the measurement after a preset interval. Inax analyzers and systems are used throughout the world.

New efficiency in remote control



Communication between the chokerman and yarding engineer in logging operations is safe, fast and efficient with this portable remote control transmitter/receiver developed by Canadian Motorola Electronics Company of Willowdale, Ontario. Ideally suited to high lead logging operations, the fully solid state transmitter is mounted in a virtually indestructible polycarbonate housing that is shockproof and waterproof. The omnidirectional antenna is located inside the housing for unhampered operation. Compact and light-weight, the transmitter measures 7.9 by 3.16 by 1.65 inches (20.1 by 8.0 by 4.2cm) and, with a rechargeable nickel cadmium battery, weighs less than 20 ounces (576 grams). Complete with leather carrying case and belt, the unit has a built-in two-switch interlock to eliminate the possibility of accidentally keying the transmitter. The Handie-Whistle receiver, also waterproof, measures 9.0 by 9.75 by 3.75 inches (22.9 by 24.8 by 9.5cm) and, with a three-cell lantern battery pack, weighs 8.4 pounds (3.8kg). Other Handie-Whistle models for emergency one-way voice capability are available with microphone and speaker. In addition to application in the logging industry the Handie-Whistle can also be used in the remote control of doors, motors, pumps, elevators and other electrical apparatus. Code 2-403

Variety of uses for portable structures

Almost any activity can be housed "under the big top" with a portable building from Sprung Instant Structures Limited, Calgary, Alberta.

Dome-like Sprung structures have no additional posts or supports to limit the amount of usable floor space and they can be erected without a foundation on any uniform surface — asphalt, clay, gravel, concrete or bare earth — without pegs and ropes to tie the structure down. The only anchorage needed is two drift pins per beam.

Extremely serviceable because of their unusual design, Sprung structures meet relevant building codes and can handle 60-pound (27.2-kg) loads of snow and winds of up to 140 miles per hour (225.40km/kr). With a high "K" factor against temperature changes, the structures can be used in any climate. Special inhibitors prevent deterioration of the fabric by ultraviolet rays. The fabric is also self-extinguishing, tested, and approved.

Ventilation is easy with a Sprung structure. The walls or roof can be opened in any location to let cooling breezes in, while extra insulation can be ordered to keep cold winds out.

In addition, this "tent" is completely waterproof and has curbs placed around the perimeter to prevent surface water from running under the structure.

Versatile too, Sprung portable shelters can be adapted to any situation. Each unit comes with one personnel door and one eight-foot (2.4-m) wide overhead garage door that can be placed anywhere: any number or size of additional doors can be ordered. Also the sections of the unit can be opened anywhere for large entrance ways or whole sections can be taken out during the summer to accommodate swimming pools or tennis courts.

If needed, windows of glass or seam-sealed clear vinyl can be placed anywhere in a Sprung structure but since the fabric is translucent, windows are not often required.

Maintenance is minimal — all that is needed is ordinary care to see that nothing sharp touches the fabric to cause it to wear prematurely. The fabric has a life span of 15 years, the vinyl windows two years. Should repairs be necessary, those of less than three or four feet (.9144-1.2m) can be done easily on site with glue and a repair kit. If required, fabric panels can be easily and quickly removed or replaced.

Erecting a Sprung structure is not complicated and it is simple to learn. Company personnel supervise the initial installation and train the purchaser how to assemble and dismantle the unit. Generally, a 5,000-square-foot (464.5-m²) building can be erected by one or two qualified people and four labourers in two days. Dismantling can be done in a matter of hours. The company's supervisor provides all the required hand tools but the purchaser must supply his own scaffolding.

No fabric section or aluminum beam weighs more than 100 pounds (45.40kg) with the total weight of the structure calculated as slightly more than one pound per square foot of floor area (4.88kg/m²).

Sprung structures are available in stock sizes of 20-foot (6.09-m) to 60-foot (18.3-m) widths — in increments of 10 feet (3.04m) and any length — in multiples of 10 feet (3.04m). Standard colours are white, yellow, aqua, red or blue but others are available by special order.

These shelters can either be purchased or leased from the manufacturer. They are suitable for an endless variety of uses including: equipment sheds; automotive showrooms or workshops; portable aircraft hangars; emergency shelters for hospitals or disaster areas; fair exhibits; or such recreational activities as covers for swimming pools, tennis courts, indoor riding academies, race tracks, or ski chalets.

The company already exports its portable modular buildings to the United States and is interested in developing other markets.

Erection and dismantling of Sprung structures is simplicity itself, with the use of lightweight beams and stressed membrane fabric. Since they are also compact for easy shipping, Sprung Instant structures are being widely used to house the products of Canadian exhibitors at international trade shows. Used this past spring at the California Farm Show (inset), Sprung structures will also house Canada's exhibits at the Algiers International Trade Fair and the Baghdad International Trade Fair. Code 3-165

New fabric for seat support

Exceptional resilience, strength and durability characterize the new light-weight suspension fabric manufactured by United Elastic Limited, Bridgetown, Nova Scotia.

Made of DuPont nylon and Lycra spandex fiber, Flexor is designed to replace springs and rubber straps in furniture construction and is used by several furniture designers and builders.

Flexor plays an important role in the furniture frames manufactured by C.F.M. Industries Limited, Whitby, Ontario, where it is used for seat suspension on many of the company's expanded polystyrene furniture frames.

C.F.M. uses the Senoform method of bonding in which Flexor becomes an integral part of the frame to permit structurally sound, trouble-free frame construction. There is no warping, cracking, squeaking or sagging. It is not subject to atmospheric conditions and is half the weight of conventional wood frame construction.

In addition, Flexor seat suspension requires no insulators, sisal and/or padding to forestall spring feel. And, since Flexor is designed as a support fabric, it distends in a carefully controlled manner under load and returns to normal when the load is removed.

United Elastic Limited also produces narrow woven and wide knitted elastic fabrics for outer wear, swim wear, intimate apparel and other clothing applications. The firm exports to such countries as Mexico, Portugal and Switzerland and has agents in Oslo, Stockholm, Hong Kong and Australia. Code 3-226

A Canadian company's answer to challenge of solid wastes

The economic transportation and disposal of solid wastes is a challenge faced by every community. A system devised by Atlas Hoist & Body Incorporated, Montreal, Quebec, which involves equipment of the company's own manufacture, is helping to answer that challenge.

The system involves small vehicles picking up waste in the centre of cities and transporting it to a transfer station. Here it is dumped into the hopper of a stationary compactor where it is compacted into closed containers at very high pressure: 160 cubic yards (122.4m³) of loose material can be compacted into a 40-cubic-yard (30.6-m³) container.

When the unit is full, a truck equipped with a roll-off hoist removes the container and replaces it with an empty one. The vehicle then transports the loaded container to a land-fill site or incinerator and returns to the transfer terminal.

Atlas Hoist & Body — a 25-year-old manufacturer of transportation equipment — makes the stationary compactor/container and the roll-off hoist.

The compactor-container, with a plug-in type hydraulic and electric system, is also ideal for apartments, institutions and fast food outlets. A rugged distortion-free machine with a liquid retention feature, it has a 96,000-pound (43,584-kg) compaction force that compresses the waste material to one-quarter its normal size.

Standard on all models is a walk-on ramp of reinforced diamond plate. This addition eliminates the need to purchase a ramp. Adjustable and replaceable aluminum ram guides eliminate binding and there is a container pinning device that keeps the garbage in the container when separated from the compacter.

The Atlas roll-off hoist features a 60,000-pound (27,240-kg) winch with a grooved drum and a special cable unwind (patented) to keep the cable in the groove — even when unwinding cable from the drum.

The hoist also features universal rails enabling it to pick up most types of containers and the self-cleansing, three-stage double acting inverted cylinder eliminates the need for piping. Controls for the unit are inside and outside the cab and an optional hydraulic stabilizer is available to ensure the vehicle will not dip during loading and unloading.

Atlas Hoist & Body recently shipped a solid wastes transfer system to Italy. The company's products are also used in Britain, Jamaica, Switzerland and the United States.

In addition to solid wastes handling systems, Atlas also manufactures an extensive range of dump bodies and dumping trailers for both on-road and off-road applications. These products are available in either steel or aluminum. Code 3-332

The case of the Perfect Circle

Two of the best known products in the automotive business — Victor gaskets and Perfect Circle piston rings — are manufactured by Perfect Circle-Victor Division, Hayes Dana Limited and exported throughout the world.

In 1952, the Stoney Creek, Ontario, company began manufacturing the Victor gasket. Today, each year, the firm produces more than 24,000,000 gaskets, 9,400,000 rings, 4,000,000 oil ring rails, 1,200,000 special 98 oil rings and more than 350,000 oil springs.

The company's Victocor "soft-seal" gaskets compensate for distortion and irregularities in mating surfaces. They seal tight, need no re-torquing and are available for practically any type of engine. Their rubber/asbestos facing and steel core make them a natural for high compression engines.

Another internationally recognized product is the Perfect Circle chromatic piston ring. Chromatic, the newest development in chrome rings, features a composite coating that consists of an outer chromatic surface over a base of hard conventional chrome.

The outer layer is oil wettable, providing a high degree of scuff resistance, and the ring seats quickly without need of deglazing. The coating wears fast, leaving the ring smoothly mated to the cylinder wall to control blow-by and oil loss. The ring, with a hard chrome base that assures long life, is right for every engine.

The piston rings, gaskets and seals produced by Perfect Circle have a wide range of applications: outboard engines, snowmobiles, passenger cars and trucks, agricultural vehicles and large off-the-road equipment. Code 3-431

An innovative solid wastes transfer system uses stationary compactor/container and roll-off hoist designed and manufactured by Atlas Hoist & Body Incorporated. One such system is currently being used in the town of Lucera, Italy.

Cooling costs cut with Kem Air

Walk-in refrigerators and freezers can be operated more economically and efficiently when they are equipped with the Kem Air unit manufactured by Karing Manufacturing and Distributing Company Limited, Toronto, Ontario.

Used in hotels, restaurants, hospitals and other institutions, the Kem Air unit has been shown to reduce shrinkage of the product, eliminate odor and flavor transfer and reduce electrical usage and maintenance costs.

Normally mounted on the ceiling of the cooler or walk-in refrigerator, the Kem Air unit consists of an aluminum frame and two wire mesh screens. These hold a cotton bag containing approximately five pounds (2.2kg) of a "miracle mineral" that is extremely effective in absorbing excess moisture.

The Kem Air unit measures 18 inches by 9 inches by 1 inch (45.7 by 22.8 by 2.5cm) and weighs five pounds (2.2kg). One unit is required for every 80 cubic feet (2.2cm³) of refrigerated space.

Karing Manufacturing seeks additional export markets or licensing arrangements for the manufacture of Kem Air units. Code 3-588

SCIENCE AND ART OF MEDICINE

Canada's contribution to medicine, and notably to its humanitarian side, has been outstanding and is highly respected throughout the world.

It has ranged from Dr. William Osler in internal medicine to such other world-renowed Canadians as Dr. Frederick Banting and Dr. Charles Best who developed insulin to give fresh hope to the world's diabetics; Dr. W. E. Gallie in surgery; Dr. Wilder Penfield in neurological surgery; Dr. Hans Selye in the study of stress; Dr. William Boyd whose textbook on pathology is used around the world; Dr. Brock Chisholm in mental health and Dr. Norman Bethune, the Montreal surgeon who gave his life while treating wounded soldiers of the Eighth Route Army in China in 1939.

These physicians are just a few of the many Canadians who have inestimably helped humanity. A non-physician who has turned a children's hospital into a place where the patient — rather than hospital routine — is the focus of attention is architect George Moiseyev, a former orderly and nurse. He designed the $20,000,000 Children's Hospital for Eastern Ontario which opened in Ottawa in 1974.

All medical staff in this hospital are either trained or willing to be trained in child psychology. Using the most advanced electronic installations and the most efficient equipment, the staff is released from much of the mechanics of running a hospital so they can give maximum attention to the young patients.

Canada is preeminent also in the field of hospital and medical equipment. As examples the industry produces extra-large field angioserialographs; velocity sedimentation cell separators to permit easy separation of suspensions of living cells; neurological and orthopedic surgical instruments; echoencephalographs to study off-centre displacement and size of brain structures; and audiometric instruments.

A recent Canadian breakthrough was the development of an artificial pancreas. Studies are now being conducted to make it implantable.

Other Canadian developments include a system that permits doctors to handle messages swiftly and efficiently; a new time-saving system for patients' calls to nurses; an instrument for rapid continuous determination of sweating rates; an aggregation module to allow visual study of platelet aggregation of blood plasma under controlled conditions; dialysis systems for home use by patients with chronic kidney disorders; an electric colony counter that improves efficiency and reduces danger of contamination; and time- and labour-saving automatic washers for instruments.

Canadian-made hospital furniture includes a complete medicine station for outpatient departments where medication must often be dispensed quickly; a stretcher that permits an attendant to adjust it while ministering to the patient; and retractable beds and accessories.

Canada's hospital and medical equipment industry is growing at a steady rate. Its capabilities are also diverse — as can be seen in the cross-section of individual companies profiled in this edition of Canada Courier. Code 4-182

Laboratory supplies from Johns Scientific

Disposable culture tubes and Pasteur pipets are among the wide range of Maple Leaf Brand disposable glassware available through Johns Scientific, manufacturers of scientific glassware, apparatus and supplies.

The manufacture of scientific glassware, apparatus and supplies has been the specialty of Johns Scientific since 1928.

Products from the Toronto, Ontario, company include: biological research apparatus and supplies, blood analysis equipment, blood bank equipment, bottles and glassware for clinical, laboratory and pharmacy uses, laboratory supplies and blood, bone and eye bank refrigerators.

Johns Scientific, in co-operation with the Ontario Cancer Institute, has also designed a unit that permits easy separation of suspensions of living cells. The "Sta-Put" Velocity Sedimentation Cell Separator separates suspensions of living cells on the basis of differences in cell sedimentation rate in the earth's gravitational field.

Under the conditions of the separation, cells sediment at a rate determined primarily by their size. Density also plays a part. Since separation on the basis of size often yields a separation on the basis of function, it is possible with the "Sta-Put" to achieve separations of functionally different cells.

The "Sta-Put" has the advantage of being easily set up and accepts a wide range of gradient materials including bovine serum albumin, fetal calf serum and Ficoll. The gradient is present only to prevent convection. At no point is it so dense that cells approach their equilibrium density.

Unlike the conditions often encountered in such alternative methods as density separation, the forces and gradient materials used in the "Sta-Put" method have almost no effect on the cells and little, if any, effect on their subsequent viability.

Johns Scientific also manufactures a wide range of "Maple Leaf Brand" disposable laboratory glassware. These include: culture tubes, Bijou bottles, Pasteur pipets, ampoules and serum vials, microhematocrit tubes and Gamma counting vials. All these products are corrosion resistant, ensuring consistent results for all standard laboratory procedures. Code 4-282

Advanced radiography equipment

Extra-large field angioserialographs are a specialty of B.C. Medical Manufacturing Ltd., Montreal, Quebec.

The B.C.M. 500 extra-large field angioserialograph, designed for a time-spaced series of peripheral radiographs, holds up to six superimposed cassettes that can be successfully exposed at intervals of one second or longer.

Cassettes, 14 inches by 51 inches (35.6cm by 129.5cm), are equipped with tapered, high-speed, high-resolution screens arranged to give radiographic results of excellent contrast and uniform density.

When all loaded cassette drawers are placed in the exposure position and the lead-lined table cover is temporarily shifted to the front, the patient can be approached from both sides, since the rear of the table is free for attendants to assist the physician working at the front.

With cassette drawers, table cover and grid shifted to the rear, most rapid-film changers and mobile "C" arm units can be placed, or adapted for placement, under the patient in the central section, or at either end of the floating table top for on-the-spot advanced selective examination.

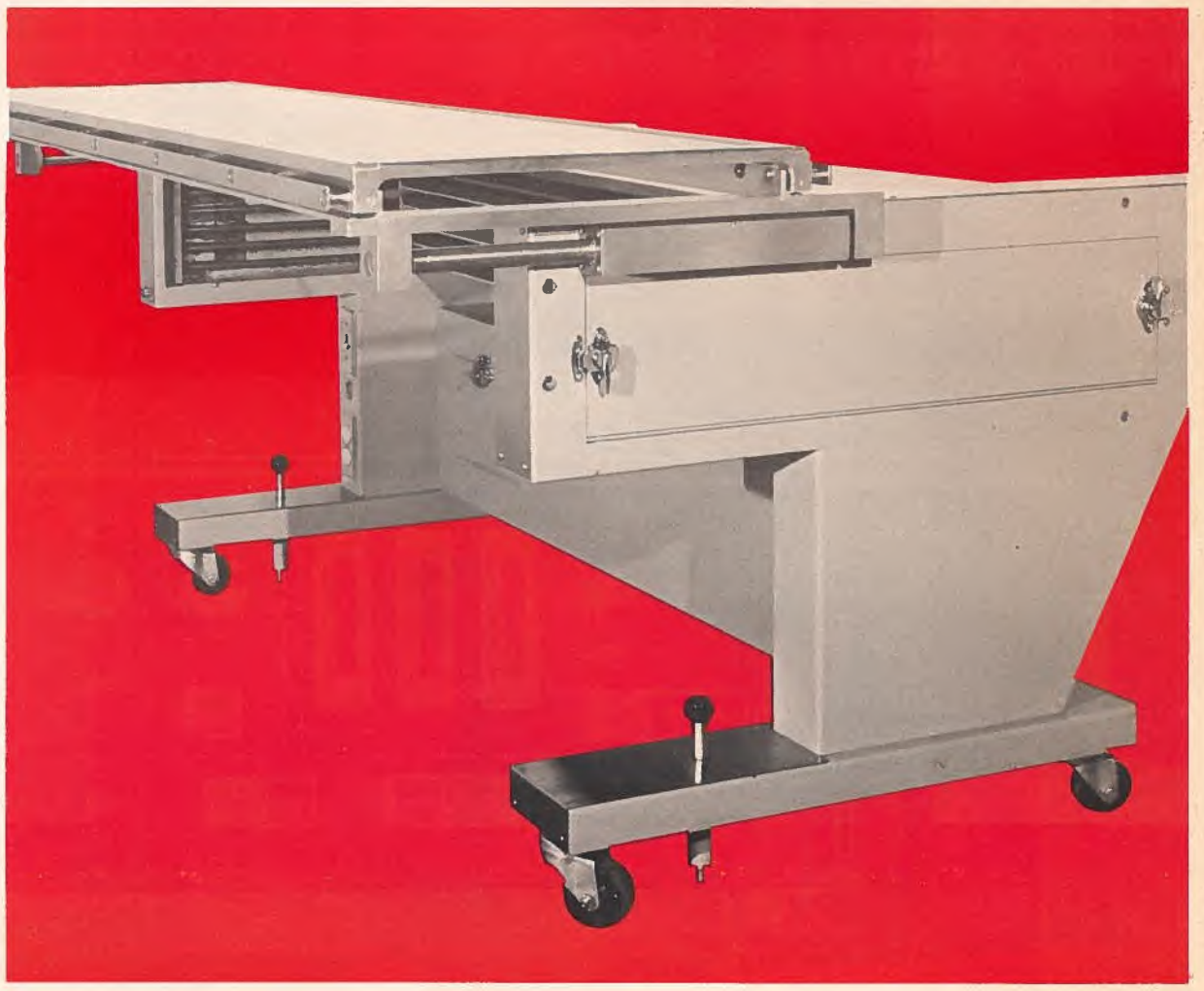
The company's B.C.M. 700 extra-large field serialograph presents up to five cassettes — 14 inches by 51 inches (35.6cm by 129.5cm) — all at the same focal-film distance. The cassette change occurs automatically after each exposure. Minimum interval is 1.2 seconds.

This unit's four-way floating top has a longitudinal travel of 20 inches (50.8cm) and a transverse travel of 26 inches (66.0cm) towards the front of the unit, allowing complete patient coverage for television viewing and rapid film changer centering. The patient rests without stress on the floating top.

The B.C.M. 700 is also available without floating top, adaptable to the majority of special procedure or catheterization tables. In this version, object-to-film distance may be reduced to a minimum of 1.65 inches (4.2cm).

For use with all large field changers is the B.C.M. 101 solid-state universal programmer. This unit features automatic recycling of the rotating anode and the filament-boost between exposures when periods between successive exposures exceed a preset time of five to 15 seconds (to be set internally).

The rotating anode and filament-boost restart shortly before the next exposure. The B.C.M 101 is designed for up to six exposures at preset times, adjustable from 0 to 99.9 seconds in 1/10-second increments, by means of six easy-to-set dials. Code 4-382



The B.C.M. 500 extra-large field angioserialograph, with floating top taken out, is one of the products manufactured by B.C. Medical Manufacturing Ltd., Quebec. The company also produces the B.C.M. 201, a new wide-angle collimator for extra-large field angiography systems and the versatile Centurion injector for arteriography, aortography, phlebography and all selective cardiovascular examinations.

Platelet aggregation modules in single or dual channel units

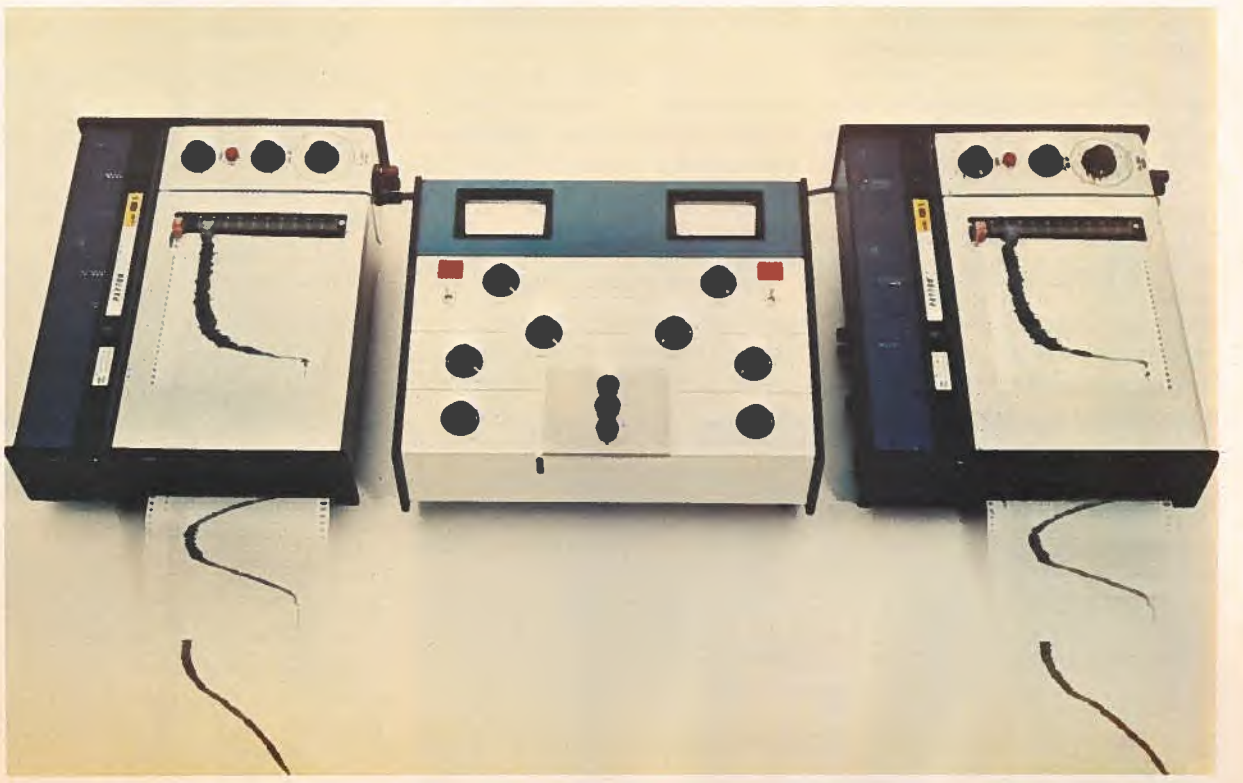
An aggregation module that permits visual study of platelet aggregation of blood plasma under controlled conditions is produced by Payton Associates Limited, Scarborough, Ontario. The device is used to ascertain how and why platelet aggregation takes place.

A cuvette containing platelet-rich plasma or a suspension of washed platelets is placed in a constant-temperature holder between a tungsten light source and a photocell. A small, silicone-coated stirbar is dropped into the cuvette and the recorder adjusted to equilibrate at a base line on the graph paper. An agent to be tested for its ability to aggregate platelets, or to prevent aggregation, is added to the sample under test. The solution is stirred at an adjustable speed by a magnetic device beneath the cuvette.

Platelet aggregation or plasma clotting produces changes in the level of light transmission. The photocell converts these optical changes into electrical voltages which are amplified and fed to the chart recorder. The recorder displays change of the platelets after addition of reagent, the degree of primary and secondary phase aggregation, or aggregation and deaggregation, dependent on the specific stimulus.

Available in one or two channels, the device is simple to operate, has precise accuracy, solid-state circuitry and modular construction to facilitate servicing. The dual channel model permits researchers to run a control and unknown sample at the same time under identical conditions. Accessories for the single and dual channel aggregation module are available to simultaneously detect the scattered light from the platelets and transmitted light through the plasma suspension. A UV source is available to induce aggregation of mammalian platelets without chemical stimulus.

Also from Payton Associates Limited are constant temperature plates (37°C) for microscopic study of living tissue; constant temperature chambers (—10°C to + 40°C) for use in organ transplant research; solid-state conductivity controls and indicators to monitor water purity and dispense detergents; and positive displacement pumps — with electrical or pneumatic sensors — that automatically meter reagents. Code 5-182



Aggregation modules and recorders from Payton Associates Limited permit the visual study of platelet aggregation of blood plasma. The units, both single and dual channel, have proved particularly useful in studies of blood platelet reaction to certain stimuli and platelet response to surfaces in thrombotic states.

Surgical instruments operate effectively to control pain

A leading producer of surgical instruments for neurosurgeons and orthopedic surgeons, OWL Instruments Ltd. manufactures a complete line of radiofrequency lesion generators and accessories. Company products are used in operations for the control of pain, as well as control of tremor and spastic movements caused by certain neurologic diseases.

The company produces: OWL Cordotomy System, Model OCS-1 — a top quality device commonly used in hospitals around the world for percutaneous cervical cordotomy; OWL RF Generator/Stimulator, Model RFS-1 — two high output instruments in one, since it is a general purpose physiological stimulator and an RF lesion maker for all procedures except cordotomy; OWL Universal RF System, Model URF — a versatile RF generator for use in any procedure requiring electrocoagulation.

The OWL Cordotomy System and RF Generator/Stimulator are an ideal combination for all RF lesion-making purposes. Each device has been custom designed by company experts for its special application and has proved effective in many surgical procedures.

When one instrument is desired for all RF lesion making purposes, the OWL Universal RF System is the perfect choice. A compact package, this system is fully equipped with 25 watts of RF power, impedance monitor, stimulator, automatic timer, all solid-state electronic construction and portability.

OWL accessories for these instruments include: cordotomy head holder and electrode carrier; cordotomy electrode; gasserian ganglion kit; RF brain lesion kit, and RF facet rhizotomy kit.

Designed for repeated reliability, all devices from OWL Instruments Ltd. feature illuminated push-button control for simplicity of operation, solid-state electronics and built-in safety features to minimize the possibility of accidental application of a stimulus or lesion. Code 5-282

A product of OWL Instruments, this universal radio frequency lesion making system can be used in any procedure requiring electrocoagulation. The company, whose products are used in operations for the control of pain and spastic movements, is a leading producer of neurological and orthopedic surgical instruments.

Trouble-free X-Ray generators

Guaranteed accuracy of output, minimal circuitry, long and trouble-free life . . . that's what's offered in the X-Ray generators designed and manufactured by York Medical Services, Thornhill, Ontario. Built to the highest standards, the generators are available in: 100, 300 and 500 mA at 125 or 150 KVP single phase or in 300, 500 or 800 mA at 150 KVP three phase. The units operate on 60-cycle or 50/60 cycle, as ordered. The 50-cycle units operate on 60 cycles with a simple wiring change. Main voltages cover 200/250 and 385/415, while timers are calibrated in 60-cycle or 50-cycle, 19 or 23 steps. All units meet the health, education and welfare standards in the United States. Code 5-382

Exporting worldwide

Audiometry by Madsen

A forerunner in the field of audiometric instruments, Madsen Electronics (Canada) Limited manufactures portable and clinical electro-acoustic impedance meters, audiometers and electric response audiometers. The Oakville, Ontario, company also produces a full range of accessories for free field testing together with play-back units for recorded speech audiometry.

Because the middle ear is a mechanical system, it can be objectively tested for integrity and function. Impedance audiometry is a testing technique that measures sound pressure level changes in a sealed ear canal. These changes are created by a variety of stimuli and the resulting physiological responses, and by pressurizing the external auditory canal.

Objectivity is the primary advantage of impedance audiometry. The technique differentiates between a normal and abnormal middle ear. In addition, impedance audiometry aids the diagnostic process in the case of an abnormal middle ear. Differential diagnosis among the various middle ear pathologies is possible, authenticated by articles published in clinical journals throughout the world.

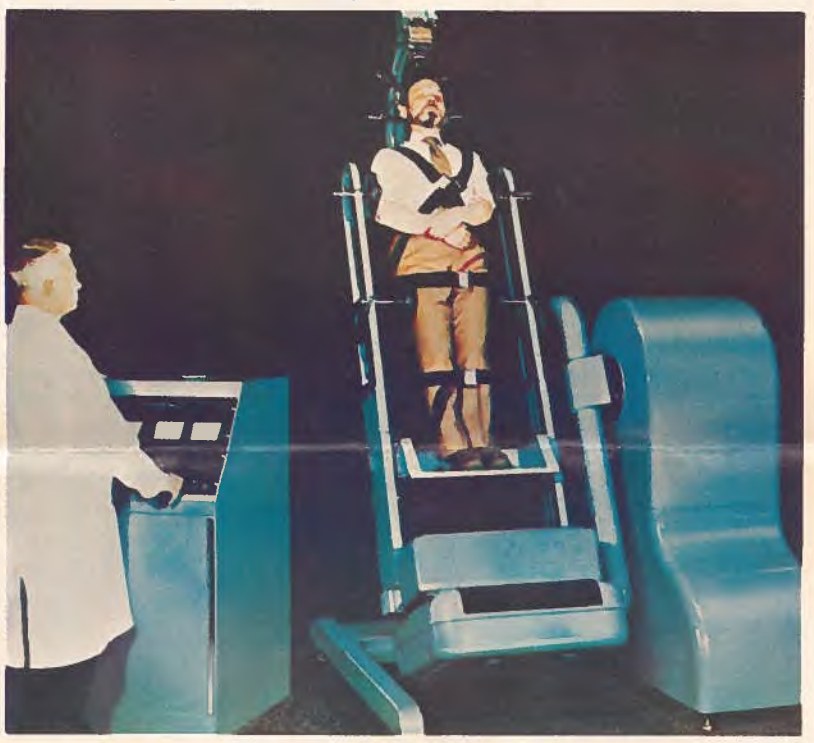
The first practicable electro-acoustic impedance meter, Madsen Model ZO61, became available commercially in 1957. Six years later, with the introduction of Madsen's Model ZO70, impedance audiometry became established as a routine clinical procedure. Later, in 1971, Madsen provided the world's first complete impedance audiometer system, Model ZO72, a combination electro-acoustic impedance meter and stimulus generator.

Also from Madsen is the ERA system which permits all electric response audiometry — from measurement of cochlear microphonics through electrocochleography up to the slow vertex response — with the use of surface electrodes.

An experienced exporter, the company maintains a worldwide network of agents and distributors.

Code 6-182

Accurate positioning, minimum discomfort



What may look like the machinery for the final stages of a Frankenstein experiment is actually a valuable biomedical unit which is gaining wide acceptance in the study and diagnosis of disorders and diseases of the inner ear and vestibular system. It is the Royco posture table and console designed and engineered by Royco Apparatus Ltd., Toronto, Ontario. Simple to operate, the equipment permits accurate patient positioning with minimum operator effort and patient discomfort. The patient, in either the upright or reclining position, has head and body weight supported at head, shoulders and hips by adjustable straps and pads. The specially designed head support is readily adjustable and affords easy access to the ears. It is complete with ear-cups and drainage facility for Caloric tests and can also be used in neck torsion studies. Indicators for rates of movement and position are conveniently grouped on the control console and may have internal illumination if required. Finished in high gloss enamel, the table may be easily broken down into small units that can be transported through a standard 30 by 78-inch (76.2 by 198.1-cm) door. Code 6-382

Rapido system lives up to name

A time and labour-saving radiographic device that automatically loads and unloads its own film cassette is produced by Picker X-Ray Mfg. Limited, Bramalea, Ontario.

The Picker Rapido System consists of a Horizontal Bucky table with a built-in vacuum cassette. The unique film handling unit loads the cassette with conventional X-ray film and unloads it after exposure.

The Picker Rapido is available in a choice of systems. System I is equipped with an integral tubestand and automatic collimator. System II permits use of the table with an overhead ceiling tubemount and automatic collimator.

With its integral tubestand, System I allows angulation of up to 40° either side of vertical with beam always centred on the exposure area. Focal film distance is fixed at 40 inches (101.6cm) for ease of positioning. The automatic collimator restricts beam to size of film in the exposure area.

The overhead ceiling tubemount configuration — System II — allows all movements of the tubemount independent of the table. The X-ray beam must be centred over the exposure area when in use with the table. Focal film distance is variable from 36 to 48 inches (91.4 to 121.0cm) depending on ceiling height. Film size sensing is provided by the automatic collimator throughout this focal film distance if the tubestand is centred over the exposure area.

Positioning of body part over exposure area is simple with the Rapido's four-way floating tabletop that mechanically locks in position when foot treadle is released. Each of four film magazines holds 100 films. After exposure, the film is transferred into a receiving magazine that holds up to 100 films. Film formats are 14 inches × 17 inches (35.6cm × 43.1cm), 17 inches × 14 inches (43.1cm × 35.6cm), 11 inches × 14 inches (27.9cm × 35.6cm) and 10 inches × 12 inches (25.4cm × 30.4cm).

The Picker Rapido provides maximum efficiency with a minimum of work. The patient identification marker imprints patient data on film after exposure. In addition, the film is marked automatically left or right by pressing the L or R button on the control panel.

Operator controls are conveniently located tableside and also include a selection of film size, film advance and magazine replacement. Red light indicators signal when a magazine requires more film while a green EXP light signals when an exposure is ready to be made. Code 6-282

Automatic x-ray equipment that makes the technician's job easier is produced by Picker X-Ray Mfg. Limited. The Rapido System 1 is equipped with an integral tubestand and automatic collimator while the System 2 uses an overhead ceiling tubemount and automatic collimator. Ten patients can be x-rayed in 20 minutes using the casetteless Rapido x-ray systems.

Precise, portable, easy-to-use instrument for brain measurements

A portable, easy-to-use echoencephalograph that calculates off-centre displacement and size of central brain structures is produced by Radionics Limited, Montreal, Quebec.

The Digiecho 1000 beams pulses of ultrasound into the midline region of the head, measures the distance travelled by the midline echo, records this distance and displays it in digital form.

Selection of the echo is accomplished by a technically advanced receiver which screens all returning ultrasonic pulses. The receiver identifies that particular echo that emanates from the designated anatomical region and that is highest in amplitude. This selection process yields a series of consistent, reliable readings, free from operator subjectivity. Literally thousands of unwanted echoes are rejected for each one the instrument accepts and displays.

A crystal controlled clock measures elapsed time from transmission of the ultrasonic pulse to reception of the selected echo. The clock indicates distance of midline shift in millimetres — with accuracy to ± .5mm. Unique two point tracking gives accurate measures in the cases of infants and adults, despite tissue differences.

When the Digiecho 1000 has selected the proper echo, it automatically indicates the distance by a light emitting diode (LED) digital display. This number remains displayed for one second to enable the operator to record the reading. The instrument then initiates a new reading cycle. There is no waiting between readings.

Advanced solid-state integrated circuit design has resulted in far fewer electronic components.

Code 6-582

Patient comfort and safety

Furnishings and equipment for hospitals and nursing homes are manufactured by Metal Craft (1970) Limited, Beamsville, Ontario.

The company's products, nearly all of stainless steel, include: anaesthetic trolleys and stands, dressing and instrument tables, cribs, bassinette stands, mobile chart carriers and stretchers.

One of Metal Craft's newest low maintenance products is the manual hi-lo bed with such features as self-storing, self-locking safety sides and a tilting seat board to permit greater patient comfort.

With a patient-controlled balanced head gatch, the hi-lo bed has a deck size of 36 by 80 inches (91.4 by 203.2cm).

Established in 1970, Metal Craft currently exports to Jamaica and the United States and seeks international markets.

Code 6-682

Hotpack incubators versatile, reliable

Reliable, user-designed laboratory equipment is the specialty of Hotpack (Canada) Ltd. of Waterloo, Ontario. The well-known Canadian company produces ovens, incubators, furnaces, baths, humidity chambers, growth chambers, environmental rooms and low temperature freezers.

The versatile mechanical convection table top CO_2 incubator operates in a choice of two temperature ranges — 20°C to 60°C or 5°C above ambient to 60°C with ± 0.2°C uniformity. The large capacity, 10-cubic-foot (283.2-dm³) unit has a fully solid-state proportional controller sensitive to ± 0.01°C with thermistor sensing device and calibrated dial for direct setting of temperature. This unique control automatically proportions power between zero and 100 per cent and provides radio frequency interference-free operation.

The incubator is equipped with a remote dial thermometer and automatic thermostat with audible alarm. A digital temperature control with 0.1°C resolution is optional.

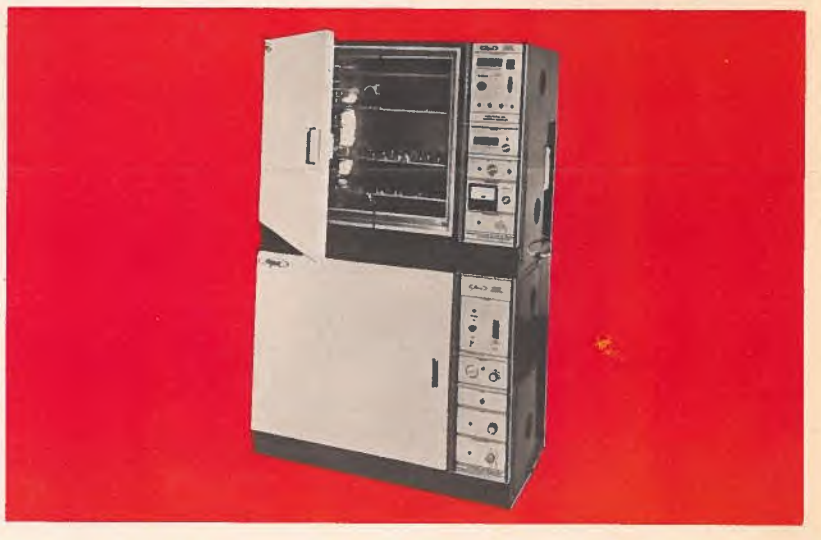
The unit's constant flow CO_2 system is maintained by an easy-to-set flow meter that permits direct selection of tension from zero to 20 per cent CO_2. In addition, CO_2 recovery throughout the entire range is automatic with the push of a button. An analytical CO_2 control/monitor with digital readout is optional as is a direct-dial RH control with a range of ambient to 98 per cent RH.

Standard features include a self-decontamination device for fast and effective decontamination of troublesome bacteria and spores that form on chamber walls; and a built-in door switch that de-energizes the blower to prevent excessive heat loss while loading and unloading the unit.

The incubator's stainless steel exterior is attractively finished in durable baked-on enamel. The interior stainless steel chamber is completely insulated with three-inch (7.6-cm) thick glass wool and a practical inner glass door, which allows full view of the work chamber and protects the environment.

Four sliding stainless steel shelves are adjustable to 17 levels on 1¼-inch (3.2-cm) centres. This 17-shelf capacity provides more than 74 square feet (6.9m²) of load area, which can easily be doubled by stacking two units vertically.

Code 6-482



These two vertically stacked CO_2 table top incubators are examples of the laboratory equipment designed and manufactured by Hotpack (Canada) Limited. The company is also noted for the manufacture of humidity chambers, growth chambers, environmental rooms and low temperature freezers.

BIG in Baghdad

Canadian participation in International Trade Fair

Canadian know-how in such areas as consultancy, engineering, construction and manufacturing will be demonstrated in Baghdad when 15 Canadian companies participate for the first time in the Baghdad International Trade Fair being held in the Iraqui capital.

Acres International Limited of Toronto, Ontario, is a leading international consulting engineering company whose four divisions are involved in power and heavy civil engineering, metals and mining and heavy industry, fuels and industrial and special services. With other international companies it is currently engaged in power system and transmission line work in Iraq.

Atco (Quebec) Ltd., Ville Lasalle, Quebec, is one of the world's largest manufacturers of prefabricated structures and provides housing for various large construction projects ranging from drilling and pipeline operations to schools and hospitals. Every Atco unit is custom-designed to satisfy the specific requirements of the buyer. Among other things, the company has supplied housing for a petroleum tank farm construction project in Mannesman, Iraq.

Canron Limited, Rexdale, Ontario, with eight divisions and nine subsidiaries produces such products as iron, concrete and plastic pipe; grey and alloy iron castings; heavy industrial machinery; valves; rotating electrical equipment; and railway equipment.

A Don Mills, Ontario, company, Cansult Ltd., is engaged in consulting engineering and provides services in urban and regional planning; transportation; surveying and mapping; tourism and recreational planning; and municipal, structural, electrical, mechanical and industrial engineering. Cansult projects include highway work in Oman, Abu Dhabi and Saudi Arabia; large scale dredging works in Abu Dhabi; and sewerage and storm drainage systems for the cities of Riyadh and Medinah.

Collavino Brothers Construction Company Ltd. of Windsor, Ontario, is a contractor with extensive experience in the construction of water and sewerage facilities; water and sewerage pipelines; highway bridges; roads and other heavy construction projects. Other completed projects include parking structures, schools, hospitals, apartment buildings and shopping centres.

EBS Systems Limited, Toronto, Ontario, is a design and sales organization co-ordinating the efforts of nine Canadian companies who produce building system components. The componentized building system with mass production and in-factory quality control reduces time and cost and ensures quality.

Ferrco Engineering Limited, Whitby, Ontario, is an engineering construction company which specializes in designing and building steel plants in Canada and overseas. The company exports to Britain, United States, Saudi Arabia, Indonesia, and Mexico.

Foundation Company of Canada Ltd. of Ottawa, Ontario, is engaged in the general construction and professional consulting fields from feasibility studies and planning to preliminary design and complete project.

The firm's experienced professional and technical personnel and modern equipment provide complete services in regional and urban planning, site investigation and soil engineering, research and consulting engineering, architectural and engineering design, realty development and management, construction management, building construction, heavy engineering construction, electrical and mechanical services, marine construction and pollution control.

Intercomp Resource Development and Engineering Ltd. of Calgary, Alberta, is a resource industries company whose services include detailed geological and reservoir engineering studies, petrophysical evaluations and turnkey studies of major gas utilization projects. Intercomp has conducted projects in Europe, the Middle and Far East and South America.

Another Calgary, Alberta company, Loran International Ltd., is a construction firm engaged in the construction of railroad grade and in irrigation, highways, dams and opal stripping. Loran is also involved in the development, extraction and transportation of natural resources. Current jobs include an iron ore concentrator plant, railroad construction and rehabilitation, and earth moving and coal development.

MLW Industries, Montreal, Quebec, is a leading manufacturer of diesel electric locomotives, 61 of which are currently on order for Iraq. Exporting internationally for 55 years, the 73-year-old company also manufactures diesel generating sets and heat transfer and nuclear energy equipment.

P. G. L. Architect of Montreal, Quebec, with specialists in a number of disciplines, plans and designs entire projects from airports and educational centres in the Canadian Arctic to housing complexes and student residences. It was also responsible for the Quebec Pavilion at the 1967 International Exhibition in Montreal.

One of Canada's largest and most diversified contractors is Poole Construction Ltd. of Edmonton, Alberta, The 69-year-old company is noted for quality workmanship and on-time performance as well as for its good construction labor relations and safety record. Poole constructs all types and sizes of commercial and institutional buildings; industrial buildings, highways, dams, tunnels and bridges.

Sprung Instant Structures Ltd. produces easily erected, easily dismantled structures that can withstand 60-pound (27.2-kg) snow loads and 140 mile-per-hour (225.4-km/hr) winds. The structures will house many of the Canadian exhibits at the fair.

Wilson Auto Electric Ltd., Winnipeg, Manitoba is a remanufacturer of automotive, tractor and industrial electrical units. Described as the largest specialized remanufacturing operation of its kind in North America, Wilson produces alternators, generators, starters and voltage regulators for all types of motor vehicles as well as agricultural and industrial equipment.

Code 7-140

The C.N. Tower in Toronto, Ontario, is the world's tallest free-standing structure with a total height of 1,815 feet (553.2m). The 1,200 tons (1,088.6 metric tons) of steel that went into the 335-foot (102.1-m) high mast atop the tower were fabricated and erected by the Eastern Structural Division of Canron Limited, one of the Canadian companies participating in the Baghdad International Trade Fair in October 1975.

Sails set the pace

Setting the pace at the First Laser World Championships held in Bermuda last year is a fleet of Laser sailcraft. Designed by Bruce Kirby, the 14-foot (4.3-m) one-hander is produced by Performance Sailcraft Inc. of Pointe-Claire, Quebec. The Laser, with a hull of fibreglass reinforced plastic, first splashed into the market in 1970 and since then has generated waves of interest as well as sales throughout the world. To date more than 25,000 Lasers have been produced, not only in Canada but at Performance Sailcraft plants in Auckland, New Zealand; Sydney, Australia; Banbury, England; Waterford, Ireland; San Rafael, California; and São Gonçalo, Brazil. The company also has marketing offices in Japan and Switzerland. Photo by François Richard.

Code 8-162

Elegant bar sets which are a boon to the giftware trade are manufactured by Empire Cutlery Limited, Montreal, Quebec. Made of the finest metals available, the bar sets are packaged in from one to five pieces, beginning with a double jigger and building up with ice tongs, bottle opener, measuring cup, bar spoon, cocktail shaker, corkscrew and bar knife. The bar accessories have walnut, ebony and bronze handles. Also manufactured by Empire Cutlery and displayed at the Samples from Canada show are carving and steak knife sets. With scalloped or fine edges and of Sheffield stainless steel, the carving and steak sets have handles in Alpine stag, Briar stag, walnut beige, brushed ebony and burnished bronze. *Code 8-362*

Lighting the way

Destined for markets around the world are candles created by F. Baillargeon Ltée of St-Constant, Quebec, one of the companies showing in Australia this year. In 1896 Frederic Baillargeon began making religious candles. Today, the firm manufactures every kind of candle imaginable: boudoir tapers, wrapped singly or pair-packed, in decorator colours of ivory, lemon yellow, baby blue, Persion blue, pale pink, red, holly green, fern green, bitter-sweet amber, topaz and white. Designed to drip, the Big Dripper is boxed in assorted colours of red, blue, pink, yellow, green, purple. The Rainbow Dripper melts into a kaleidoscope of colours — a new one every inch. Baillargeon's religious candles, made from beeswax to exacting and changing church standards, are still a major part of the firm's production, as are Vulcan Lites and LowBoy and Tear-Drop Festive glass candles.

Code 8-462

New look for old-established company

Blue jeans and denim for fun fashions

A new fashion look for an old established Canadian company is the aim of Hamilton Carhartt's new owners, Larry Moody and Kim Valliani.

A leading producer of work clothing, Carhartt Limited, of Toronto, has long been synonymous with quality denims.

The new owners, in introducing their new line of fashions designed for the contemporary blue jean and denim market, are applying the same aggressive advertising and marketing concepts that first made Carhartt an international success in the field of work clothing.

Today denim is more than material for serviceable work clothing — it's the "in-fashion" of the seventies.

Carhartt's 1975 line includes many new trend-setting styles. Wide leg, Big Hartt jeans, one of the new styles, are made of 14-ounce (396.90-grams) Canadian denim cloth and have a 26-inch (66.04-cm) flare.

The wide leg look is only one of Carhartt's four styles of jeans. Type A is the popular boot cut; B, the 20-24-inch (50.80-60.96-cm) cut; and C, a French-style jean with patch pockets in front. All come in a variety of materials including denim, corduroy and such fashion cloths as polyester and yarn-dyed twill. The French cut is also made in 10-ounce (283.5-grams) denim and drill material.

Also introduced in 1975 are men's and boy's co-ordinate safari suits and shirt-style suits. Jackets are unstructured and the pants are made on a jean cut in yarn-dyed twill material and corduroy. A three-piece corduroy French-cut suit is the company's newest product and it is available in all corduroy colours.

To give a new look to what Carhartt has been doing best for more than 90 years, unisex fashion overalls for boys and girls and men and women are being made in sizes 8 to 60 in corduroy, denim, twill and drill material.

Shorts are another big item for tennis and squash, or for walking. They are made in all kinds of materials and come in men's and boy's sizes. Extremely popular are the new Waterbabies, cut-out shorts made of denim.

But in keeping with tradition, Carhartt still produces work garments for various mines, oil companies and municipalities.

A growing firm, with competitive prices and deliveries on schedule, Carhartt Limited will introduce its mid-seventies fashion look to all international markets. Code 8-218

Uniforms needn't be!

Uniforms Registered, of Toronto, Ontario, has been a pioneer in bringing fashion to uniforms -- opening up new areas of sales opportunities in the garment industry. This company, as it showed in the Samples from Canada exhibit in Australia, continues to be a leader in presenting the latest stylish fashions in career attire. Uniform Registered's extensive collection lets the wearer be and feel individualistic. Styles range from the classic to the pert and dainty — and all have figure-flattering lines. Dresses, pant suits and co-ordinates; tops, smocks and pants; are of practical polyester, polyester/nylon and polyester/cotton in various knits and textures and provide the wearer optimum working comfort. They are available in vivid colours, pastels and white. *Code 8-518*