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Canada in nuclear industry forefront

Canada is a world leader in developing peaceful uses of atomic energy. The Canadian nuclear power-plant concept — CANDU — is being evaluated by many of the world's utilities. Concurrently, Canada has become a trailblazer in non-power uses of atomic energy, especially in applications using radioactive isotopes.

At the start of 1971, nuclear generating capacity in Canada amounted to a modest 233,000 kilowatts. By year's end it had been multiplied to more than 1,400,000-

kw. Chiefly responsible for the dramatic increase was 2,000-megawatt Pickering Generating Station, near Toronto, where the first two of four 540mw units were quickly brought into operation and worked up to full power production. Units 3 and 4 are now well advanced and a 3,000mw station at Bruce, Ontario, is scheduled to begin producing power in 1976.

One of the world's largest nuclear power stations, Pickering has been built by the owner-operator, Hydro Electric Power Commission

of Ontario. Nuclear consultant and designer of the nuclear portion and station controls is Atomic Energy of Canada Limited, a federal government company whose responsibilities include research and development, engineering and the marketing of nuclear power stations. A third major participant is Canadian industry: contracts amounting to more than \$300,000-000 have been awarded to some 900 companies for products and services for Pickering.

Known as CANDU, the Cana-

dian nuclear system features the use of heavy-water moderator, natural-uranium fuel and pressure tubes. Most important is the economical use of fuel: raw-uranium requirement and actual fuelling costs of a CANDU reactor are only about half those of other current commercial nuclear plants. The Canadian fuel is inexpensive, relatively simple to fabricate and highly reliable.

In addition, a 250-mw boiling-light-water version of CANDU was recently completed at Gentilly, Quebec. A CANDU power reactor is being built in India and a second is under construction. Another has been completed in Pakistan. Canada has also supplied a research reactor to India and another is being built in Taiwan.

To meet this massive commitment to nuclear power, Canadian scientists, engineers, designers and equipment manufacturers have developed a highly advanced nuclear capability. Nuclear performance specifications are extremely stringent but manufacturers, in conforming to them, have developed proven standards of excellence comparable to any in the world. Consequently equipment, materials, instrumentation, nuclear fuels and engineering services — employing the latest advances in technology — are readily available from Canadian sources.

In the process of meeting her own nuclear needs, Canada has also become established as a supplier on an international scale. With Pickering now providing convincing proof of Canadian competence, there has been an upsurge of interest from other countries.

Because of their inherent stability and neutron-transparent quali-

ties, zirconium alloys are used extensively in CANDU reactors. Eldorado Nuclear Limited of Port Hope, Ontario, has developed a direct-cast method of producing zirconium ingots that is superior to the more commonly used sponge method. Zircaloy calandria tubes are being produced by Westinghouse Canada Limited, also at Port Hope. World's first all-Zircaloy calandria was made by Dominion Bridge for the Taiwan research reactor.

Pumps used to transfer the primary cooling water through the pressure tubes and associated heat exchangers have evolved with experience. Where Pickering has 16 1,900hp pumps per unit, the Bruce plant will have only four per unit — each of 11,000hp. They'll weigh about 80 tons each and be 30 feet (9m) high. Testing them has required the maker, Byron Jackson Division of Borg Warner (Canada) Ltd., to install a new test loop at its Scarborough, Ont., plant — now one of North America's largest. To ensure meeting rigid specifications, castings used in critical services must be exhaustively checked for flaws and defects. At its Canadian Steel Foundries Division in Montreal, Hawker Siddeley Canada Ltd. has installed a Beta-tron that can radiograph steel sections up to 18 inches (457mm) thick.

MLW-Worthington (Canada) Ltd. of Montreal and Babcock & Wilcox of Galt, Ont., produce sophisticated heat-transfer equipment such as heat exchangers, steam generators and coolers. These are examples of companies which, besides serving the Canadian program, have succeeded in penetrating the highly competitive U.S. nuclear market. MLW-Worthington has obtained the "N" (nuclear) stamp of the American

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Two of the four units of Pickering nuclear-power station are already supplying more than 1,000,000kw to Ontario Hydro system.

Canadian toy makers are riding high in a merry-go-round world

Canadian toys tinkle, whisper, coo. They go bang. They flash. They're plush, pliable, plastic and durable. The outstanding style and quality which moves them quickly from the retail shelves attracts many buyers, not only in Canada but around the world.

Canada's relatively new but rapidly growing toy and game industry has shown an impressive record of accomplishment in recent years. Exports from this sector rose by a remarkable 109 per cent between 1967 and 1970.

Today's consumer not only makes demands for a better pro-

duct, he also has the money to back up his demands. The emphasis of most Canadian manufacturers has shifted noticeably towards the higher quality toy that is first and foremost safe, but also great fun to play with.

Canadian toys are sturdy, stylish and educational. They're made from the finest materials, strictly controlled by provincial departments of health.

Excellence of design and construction, combined with effective packaging and merchandizing, have brought spectacular sales success to the industry.

Exports include beautiful dolls, fascinating games and hobby kits, pool tables, toys that whirl, chatter, move and amuse — space vehicles, robots, cars, tractors and aeroplanes, to mention a few.

Sales of mechanical and electrical toys with high play value are booming. These toys constitute a sizeable part of today's toy market and Canadian companies have been quick to meet consumer demands for more imaginative, multi-functional items.

The industry has benefitted from the more specialized and rapidly developing technologies of the seventies, especially miniaturization and computer technology. Canadian manufacturers, quick to respond to the intense competition of new ideas in this industry and to adapt to changes in production, have exhibited at major international toy fairs.

A highly entertaining selection of adult games is now available from Canadian companies. Increased leisure time is partly responsible for their popularity. Psychologists claim they satisfy a growing need for safe sublimation of aggressive or hostile impulses. Most important of all, the games have high entertainment value. They're not only fascinating but challenging, sophisticated, and cater to the most diversified of individual needs.

Continued on page 3



Here is one appealing member of a large family of delightful dolls and other plush and plastic beauties made by Regal Toy Ltd., Toronto. Story on page 3.

Code I-1

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canada courier

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Society of Mechanical Engineers.

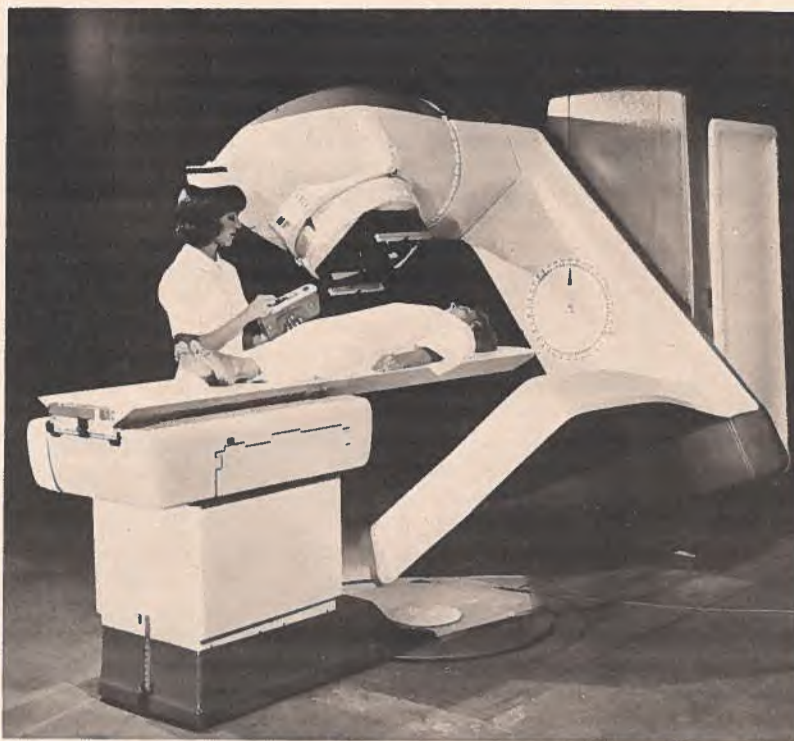
Canadian consultants have acquired a worldwide reputation for expertise in such diverse areas as pulp and paper mills, airport design and hydro-electric projects; they are now gaining similar status in the nuclear power industry. One of the more prominent is Canaton Ltd., a consortium formed by three major consultants: Montreal Engineering Company Limited, Surveyor, Nenniger and Chenevert Inc., and Shawinigan Engineering Co. Limited. Their nuclear experience covers a broad spectrum of complex assignment — including technical and economic feasibility studies, nuclear power-station projects, research reactors, nuclear research facilities and test loops,

an intense-reaction generator facility and a sector-focussed cyclotron facility. Other consultants, such as Dilworth Secord Meagher and Associates, have specialized capabilities in such areas as designing nuclear fuel-handling equipment, waste-fuel management, safety studies and accelerator technology.

Canada is one of the world's prime sources of fabricated fuel for water-cooled reactors. Her two nuclear-fuel producers, Canadian General Electric and Westinghouse Canada, produce the natural-uranium fuel for CANDU reactors and have supplied to the U.S.A., Britain, France, Switzerland, India and Japan. Fuels supplied include enriched-uranium metals and alloys, urania and thoria. Both also offer fuel-management programs to aid user utilities in achieving most efficient, most economical use of fuel.

A key component of the CANDU system is heavy water and Canada is in the process of establishing a heavy-water industry that will be able to meet both domestic needs and those of foreign clients. One plant is now in operation; a second will begin producing in late 1972 and a third will start up early in 1975. At present, heavy water is in short supply in Canada, but the situation should ease within three years; eventually Canada will have the capacity to supply enough heavy water to meet the annual 2,000mw requirements of new nuclear plant. Code 2-1

New, advanced cancer therapy units



Computerized Theratron 780 by AECL.

Code 2-2

A new series of cancer therapy units — the most advanced available anywhere — has just been introduced by Atomic Energy of Canada Limited, Ottawa, for 20 years a world leader in designing and producing Cobalt 60 teletherapy equipment. AECL unveiled Series 70 at the end of November 1971, at the Radiological Society of North America Show in Chicago. Line leader is Computerized Theratron 780.

The advent of the electronic computer as a precision instrument for the physician allows him to

develop and use radiation treatment techniques which previously were difficult or cumbersome because of time and detail involved. C.T. 780 is a substantially more accurate machine than previously available. It can rotate round the patient with such precision that beam centre will not wander as it strikes the tumor; it's accurate to one millimetre.

Design refinement of AECL's world-renowned Cobalt 69 teletherapy machine further guarantees years of operation with the highest accuracy. Advantages now offered,

by computer and the more accurate therapy unit, point still greater progress in developing new radiation-therapy techniques.

Computers should soon play a major role in preparing treatment that will optimize the therapy equipment's capabilities and take into account every detail of the tumor and surrounding areas. The equipment is backed by long experience and collaboration with leading radiotherapists and cancer clinics around the world.

AECL produces and sells processing equipment to sterilize a wide range of medical disposables; more than 25 AECL-built plants are operating in many countries. A new model, J-6300, fills the needs of smaller medical-disposable manufacturers who do not need J-6500's larger through-put.

Commercial Products division is marketing another new AECL development: "Slowpoke," a small low-power reactor with numerous applications — from pollution study to crime detection. Size, power, price and operating costs are tailored to fit those of an industry or hospital or a university research group. Neutrons produced can be used to process short-lived radioisotopes, which physicians need to conduct diagnostic tests — or to activate samples for study by activation analysis.

Commercial Products also produces a series of Cobalt 60 power generators, yielding up to 60 watts. They're admirably suited to marine and space applications in areas such as the north, where refuelling and maintenance are not feasible. Cobalt 60 generators can produce electricity, unattended, for at least five years.

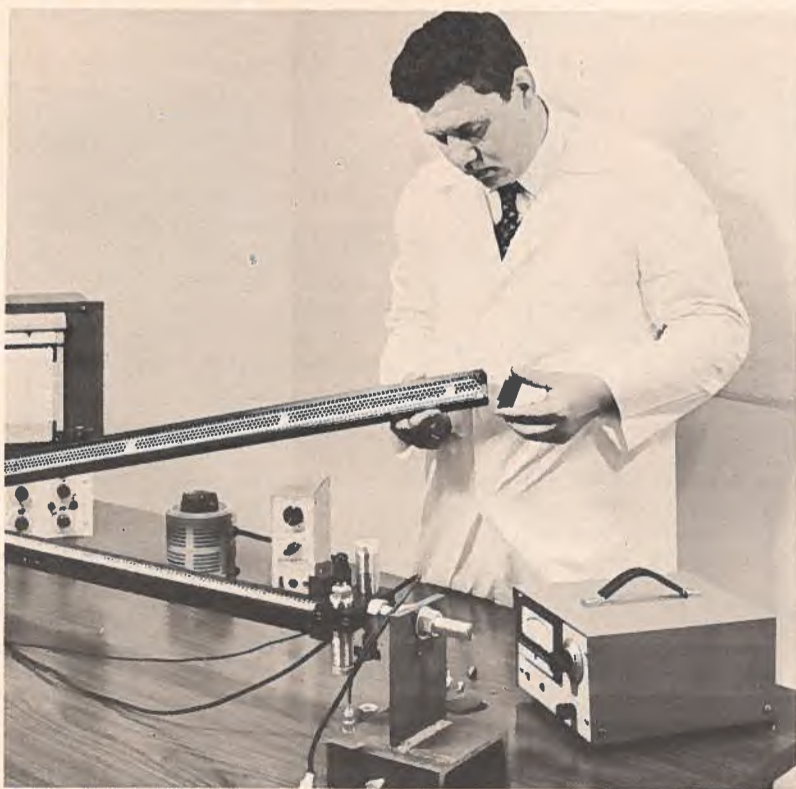
Solid-state inspection systems

Already selling other products worldwide, Nuclear Radiation Developments, Inc. of Downsview, Ontario, is now ready to export its new NRD Hole Detector, a solid-state inspection system that detects holes in a moving web; it scans 100 per cent of the moving sheet. Output signal can be used for indication, recording or control.

Hole Detector's basic system consists of a radioactive source, detector and support assembly. Latter includes a pneumatically operated parting mechanism and an electronic unit. Detector is an ion chamber developed by NRD for this application. Radioactive source is NRD's nuclear foil, containing Americium-241. Source and

detector, together with associated mechanical components, form a complete sensing system that meets all regulatory requirements. System's prime components are custom-built and adapted to user's needs as to web width and machine size.

For the International Years of the Quiet Sun (1964-65), when sunspots were minimal, Atomic Energy of Canada Limited developed at its Chalk River, Ontario, facility, and NRD produced, a neutron counter tube — world's largest in commercial production. NRD has sold the BP-28 to the U.S.A., South America, Europe, the Soviet Union, Africa, Japan and Australia.



Nuclear Radiation Developments engineer completes assembly of detector component for SH-6002 Hole Detector. Code 2-3

For your bookshelf . . .

Millwork Makes It — an 18-page directory of 73 Canadian companies making industrial, commercial and residential millwork products. A convenient reference chart shows at a glance which products are available from each company. Canada's Department of Industry,

Trade and Commerce co-operated with the millwork industry to produce this brochure for the information of potential customers and to keep regular customers up to date. Available in English, it may be obtained free by filling in the trade inquiry form on page 7.

Code 2-6

Problem parts a specialty



Machining Strite mechanical seals. Code 2-4

Patented metallic seals for nuclear and other services are designed and produced by Strite Industries Limited of Hespeler, Ontario, which was organized in 1964 to make ultra-precision parts for the aircraft industry.

Strite specializes in volume production of problem parts that are difficult to produce because of

close-dimension tolerances or because they are made from materials difficult to machine. Reputation for top-quality production has brought the company an export market absorbing 60 per cent of total production.

Main types of Strite metallic seals — for high-temperature services, sealing hydraulics, air or

Globe-circling nuclear valves

First North American valve manufacturer to earn the "N" (nuclear) stamp of approval from American Society of Mechanical Engineers was Velan Engineering Ltd. of Montreal, a leading manufacturer of nuclear valves.

In two decades Velan has established a solid and growing demand for its forged and cast valves — gate, globe and check — in bolted and welded-bonnet, bonnetless and pressure-seal designs. More than 25,000 varieties of Velan valves are supplied to an expanding market covering 22 basic industries in 52 countries.

Most notable penetration has been in the nuclear field, because of Velan's unique use of forgings for valve bodies in sizes up to 24 inches (609.6mm), in pressure classes ASA 150 to 1,500 pounds (68 to 680 kg). Among its largest customers are producers of pres-

surized-water, boiling-water and gas-cooled reactors. Velan valves have been sold to more than 70 generating plants. They have contributed significantly to large ship-building programs.

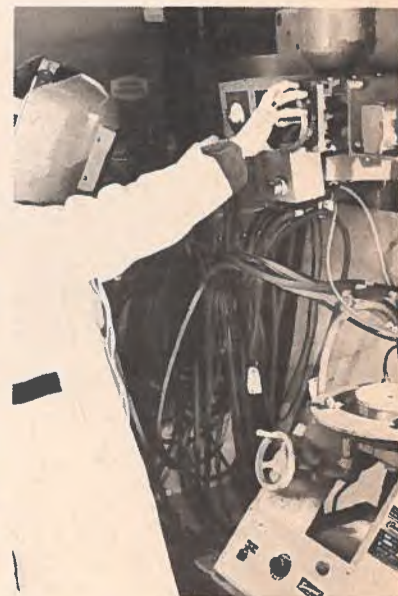
In the critical service of nuclear application, no effort is spared to achieve safety through quality. Velan valves are subjected to a planned procedure: from initial supplier qualification through stringent in-plant process control and non-destructive testing to final packing and shipping.

Velan Engineering has almost 500 employees in its Montreal head office and two suburban factories, as well as a large number in subsidiaries abroad. The company plans continuing investment and upgrading of forging dies and other equipment to maintain its hard-won leadership in producing valves for the burgeoning nuclear industry.

vacuum — are re-usable static seals, seals for oscillating rods and bore seals. The latter use a flexible lip design permitting diameter changes up to .02 inches (.508mm) in four-inch (101.6-mm) diameter. Materials are selected to suit particular operating conditions such as corrosive atmospheres, flexibility, thermal expansion in applications as stem seals for high-temperature valves.

Strite also produces numerous other nuclear service components where tolerances required can be as low as $\pm .0005$ inches (.0127-mm) on four-inch (101.6-mm) diameter. Components of inertial guidance systems are machined from materials such as titanium, magnesium or 4340 Series stainless steels. Dimensional tolerances, roundness, concentricity are held as low as .002, flatness to 50/1,000,000ths, groove widths to .008.

Strite offers practical engineering assistance, the most exacting of quality-control procedures and a modern machine shop capable of machining exotic materials for the most demanding services.



Automatic plasma arc process for depositing Stellite on valve seats, at Velan Engineering's Montreal plant. Code 2-5

Continued from page 1

Plastics continue to be the most widely used single type of raw material; technical improvements and lower prices have favoured their use. Synthetic fibres are favoured materials for such things as doll parts and accessories and stuffed animals. Other materials used in significant amounts include rubber, metals, wood, paper and cardboard.

Packaging is geared to the growing trend to self-service merchandizing. More and more toys are being bought on impulse from rack displays, usually without the aid of a sales clerk. Canadian producers have developed attractive, informative and durable packaging, necessary to encourage this type of buying. Code 3-1

Regal makes merry medley for growing world markets

They're fun to play with; they're safe, life-like and almost indestructible — that's why Regal toys are so popular around the world.

This prominent Toronto company may not be the oldest in Canada, but its president, S. Frank Samuels, has been in the toy-making business for no less than 52 years.

Regal Toy Ltd. makes a wide assortment of toys and dolls as well as delightful stuffed animals such as a washable monkey, a cuddly panda and a washable donkey. Regal's animal puppets are other favourites with children.

Other equally well known products include character dolls and walking dolls; wind-up and musical toys; sturdy plastic ride-em toys, tricycles and beach toys.

Plush toys are stuffed with new, sanitary materials, and surface decorations are attached with non-toxic adhesives.

Life-like flesh-coloured pigment or other colours are always built

Reliable toys — and more

It has been 51 years since Reliable Toy Co. Ltd. was born in humble lodgings in Toronto. The company has grown with each succeeding generation to become Canada's largest and oldest toy maker, a pioneer in many ways.

Reliable toys are found in more than 30 countries around the world and customers have some 1,300 toys to choose from.

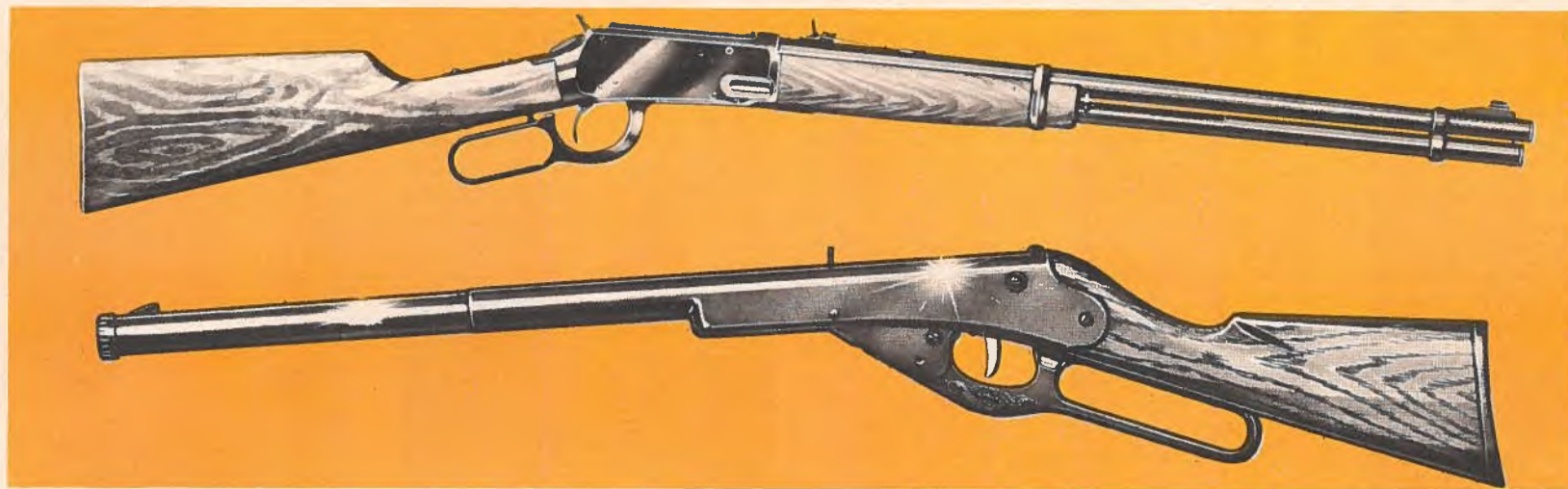
Several of the company's products were chosen for display at the Canadian pavillion at Expo 70, in Osaka, Japan. One toy, a cement-mixer truck of sturdy polyethylene was chosen for its "excellence of design" by the Royal Canadian Academy of Arts at its 90th annual exhibition in 1970.

Reliable's best known and most popular products are its dolls and plastic Ride-Em toys. The Reely Ride-Em Tractor, introduced in 1961, was the world's first plastic pedal toy. It is still popular, in advanced design.

Reliable's pioneer work in plas-



These dolls are being introduced by Reliable Toy in the company's learn-while-you-play series. There are five new dolls teaching numbers, time, colours, ABC's and traffic signals in this new line. Code 3-4



Top, model 1894 Daisy "Spittin' Image" B.B. gun — looks just, say the makers, like the famed carbine that "won the West." Wood grained and 38 inches (965mm) long, it comes complete with authentic saddle ring, 40-shot magazine, controlled velocity and a host of other real-gun features. Hammer safety must be cocked before shooting, easy two-way lever cocking — cocks half-way on back stroke. Sights feature ramp front and buckhorn adjustable rear. Below, the Daisy 102 Cub B.B. gun also made by Daisy/Heddon of Preston, Ontario, is an extremely ver-

into the plastic before it is moulded, eliminating the need for paint.

The nylon hair used on Regal's dolls is non-combustible, can be washed, combed, styled and doesn't lose its curl. Special sockets are created in the doll's head in which to firmly lock the eyes, made of unbreakable plastic. Make-up applied for the brows, cheeks and lips is non-toxic and lead-free. No elastics, screws or nails are used in attaching heads, arms and legs to torsoes.

Regal dome-fastens each item of clothing on the doll instead of using pins. Fabrics are the same as those used in children's apparel and two skilled fashion designers provide doll wardrobes that are as up-to-date as the average youngster's.

The play value of the dolls is enhanced by such accessories as rockers, cribs, hair brushes, combs and other toiletries.

Regal offers its many overseas customers its entire selection of products. Code 3-3

tics after World War II brought new safety features to the industry. Sharp edges, splinters and rust were eliminated.

The Ride-Em series has included a motor bike, a moon mobile and a dune buggy. Top sellers at the 1971 Canadian Toy Fair were a new Amphi-Buggy, a 747 Jumbo Jet, a Tugboat, and a Ski-Mobile.

Reliable's dolls have won international acclaim for their beauty and quality. Equally popular are the many varied accessories such as toters, cribs, high chairs and cradles — best sellers the world over.

An increasing number of the company's toys are educational playthings. They offer enriching experiences and play an important part in socialization.

Important safety standards in manufacturing were urged by Reliable's president Mannie Grossman in 1969. The Canadian government and the toy industry have worked together to bring these about.

Canada steps out in style with shoes for all seasons

"Creative styling is what sells shoes," says Ross Hahn, President of the Shoe Manufacturers' Association of Canada. And style is what Canadian shoe designers have in spades — along with fine craftsmanship and materials. Members of this Association have been responsible for such design achievements as the needlepoint style in

satire low-cost model with "big gun" quality and construction — ideal for beginners. The new-style simulated wood grain stock is designed to fit young shooters. Other features include a 350-shot lever action repeater, blued heavy gauge steel, post front and "V" slot rear sights. Length, 30.5 inches (775mm). Daisy/Heddon has expanded its export markets to include Australia, New Zealand, the Bahamas and eight European countries. Code 3-2

women's shoes, which swept the western world, and the high style in women's boots.

Other Canadian innovations: wooden clogs as the soles of boots; leather flowers appliquéd to canvas boots; "granny" buckled, buttoned or lace shoes, high to ankle; graceful, oval, dressy shoes.

Speaking categorically, Canadian

shoes comprise: men's dress, men's work; women's; women's boots — dress and winter; men's and women's sport and other novelty; infants' and children's.

A few of the many Canadian shoe manufacturers ready, willing and able to serve world markets, put a good foot forward here. . . Code 3-5

These boots were made - to win an "Oscar"



An international award — the Oscar — has been won for three boot designs by Cristina Shoe Co. of Montreal. Company owner Tony Iammateo accepted it in Torino, Italy, from Academia Internazionale della Calzatura (international Academy of Footwear). Mr. Iammateo says the award proves that "Canadian shoes can compete on a world basis." Judging at Torino was on three points: creation, workmanship, fitting. This is one of Cristina's Oscar-Winning boots. Code 3-7



These three-eyelet wing-tipped laced walking oxfords are by Hanna Shoe Corporation Ltd. of Grand-mère Quebec. Code 3-8



Sandal by Wallace Footwear (1962) Ltd. of Montreal. Code 3-9



Two-tone skate boot at right, designed by Bauer of Greb Shoes Ltd., Kitchener, Ontario, for St. Louis Blues, was first coloured skate used in the National Hockey League. Beside it, Montreal Canadiens' colour combination. Boots are of kangaroo leather. Code 3-6

A LITTLE turkey goes a long way

Canada has a higher per capita consumption of turkey meat than almost every other country, so it's not surprising that one of the most successful breeds of turkey was developed in Canada. It's Diamond White, a bird which accounts for more than a quarter of all turkeys bred in Canada and is now well established in many European countries.

Diamond White, a product of Hybrid Turkeys Limited of Kitchener, Ontario, is very different from the traditional Christmas turkey; it's a small-bodied turkey — known in some countries as a junior, in others as a broiler or fryer, and in others as a medium turkey. Diamond White was bred to mature early, to be ready for market in 13 to 14 weeks at a live weight of 10-10½ pounds (4.5-4.75 kg), resulting in better use of labour and capital for the producer, and a smaller, more economic carcass for the consumer.

Diamond White and similar compact turkeys have been available year-round in Canada for many years. Similar patterns are emerging in the European countries where Diamond White is distributed; in France, for example, 2,500,000 of the 10,000,000 turkeys grown each year are Diamond White.

An ongoing program of research

and development is behind the Diamond White turkey. Besides pedigree breeding and selecting for high reproductive capacity and rapid early growth, Hybrid Turkeys is testing new management practices and disease eradication programs.

Breeding stock — inspected frequently by Canada Department of Agriculture veterinarians — is shipped by air from the Hybrid hatchery in Ontario to distributors in France, Italy, Cyprus, Hungary and Belgium while commercial eggs and poults are shipped to Spain, Greece, Peru, Venezuela, Philippines and the U.S.A. The company's guarantee of 100 per cent "liveability" on arrival assures customer confidence.

The company believes that technical service is as important to the overseas customer as the product itself, so technical personnel from Canada regularly visit overseas clients to exchange experiences, troubleshoot and advise on breeding, hatching and growing the commercial birds. Distributors are encouraged to visit Hybrid's farms for seminars and workshops.

A five-a-year-shipment Hybrid contract to supply 40,000 day-old turkey poults to members of a co-operative in Hungary has opened up another export market. The Canadian birds will provide 1,500,-

000 turkey broilers each year and will be used to stock other co-ops. As a result, a Hungarian government delegation of farm experts recently visited Canada to tour Hybrid's facilities and others in the district.



Proud parents. Typical Diamond White hen and tom produce commercial turkey-hatching eggs.

Code 4-1

Aluminum bridges, trusses, towers

Aluminum ranks second among metals widely used today; performance and properties are in many instances superior to those of other metals; modern fabricating techniques allow the finished product to be produced at competitive cost. Aluminum's corrosion resistance is achieved by a very thin film of aluminum oxide, formed when the metal is exposed to the atmosphere. Aluminum can corrode only if this film is ruptured and prevented from re-forming.

Dominion Aluminum Fabricating Limited of Toronto has for some years been a major producer of welded tubular aluminum structures for supporting overhead highway signs. Neat and clean, they need little or no structural maintenance. This led to studying aluminum trusses for supporting process pipe and initiated development of various types of structures to meet varying load and span parameters.

Next, D.A.F. turned to the pulp and paper industry, with the aim of reducing expense involved in servicing pipelines. Practically maintenance-free, aluminum has high strength-to-weight ratio and lends itself readily to this type of structure. It has also gained admit-

tance to a fairly restricted range of corrosion-resistant materials.

Extensive tests have been run on aluminum, stainless steel and galvanized steel. High humidity, sulphur and chlorine compounds, plus other acidic and alkaline materials, are prevalent in the typical papermill atmosphere. Studies show that fumes and vapour from acidic sulphite or alkaline kraft and soda liquors, in concentrations usually found in such atmosphere, have relatively little corrosive action on aluminum alloys. Stainless steel and aluminum both perform well, but the latter also withstands attack. Both are clearly superior to galvanized steel; the choice rests on economic considerations.

Four men in 10 days, under field supervision, erected the aluminum-pipe bridges at the new Port Hawkesbury mill of Nova Scotia Pulp and Paper Limited. Designed to support a series of pipelines and cable trays from groundwood mill and recovery plant to machine room and to the machine room from the pulping building, they run about 2,000 feet (610m); truss spans vary from 65 to 108 feet (19.8 to 33m); tower height averages 30 feet (9.1m) and the structure supports loads of up

to 900 pounds (409kg) per lineal foot. Extrusion's versatility and economy enable special aluminum tubes to be used for chord members, making feasible a triangular truss configuration. This reduces truss weight, wind and ice loads — lowering transport cost while improving pipeline accessibility for maintenance.

To improve navigation aids in the Straits of Canso off Canada's east coast by establishing seven sets of ranges, D.A.F. designed, fabricated and created 14 range towers of different heights. These were made up of aluminum tubular sections bolted together onsite, then lifted into position with erection towers because they were so light. Helicopters were used in near-inaccessible spots to lift materials and tools. Each tower, complete with surrounding fence panels, was up within 12 hours. Frequent fierce storms and proximity to salt water made aluminum the obvious strong, anti-corrosive choice.

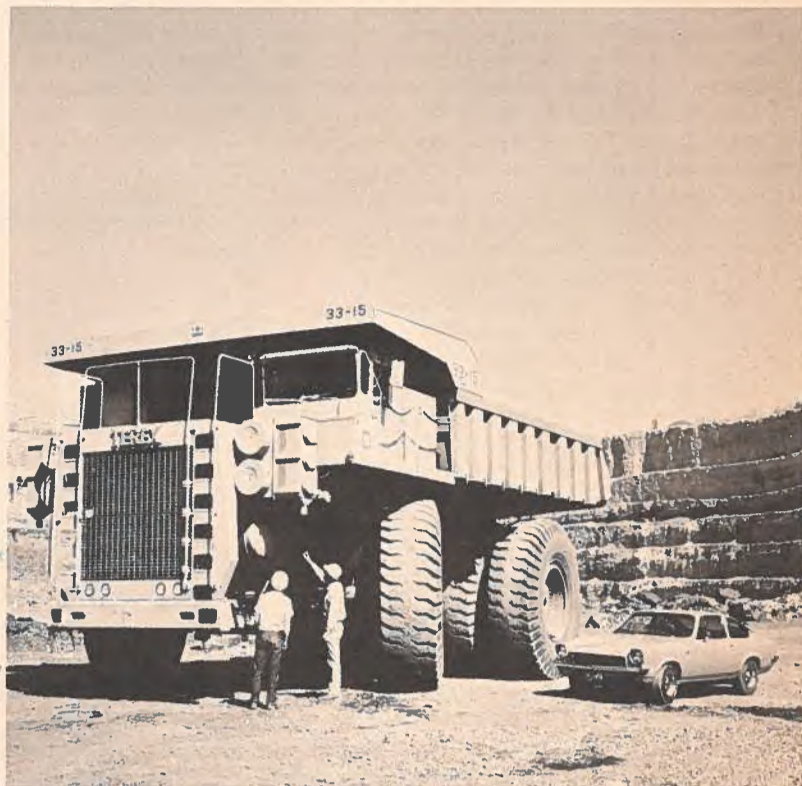
Aluminum towers are also used in communications, forestry, construction and area lighting. D.A.F. is branching out into the U.S.A. and South America, where there is an extensive market for industrial aluminum support structures and towers.



Strong, lightweight aluminum-pipe bridge erected by Dominion Aluminum for a Nova Scotia pulpmill.

Code 4-3

Giant hauler steps out in the world



Huge, isn't it? This TEREX ("Earth King") rear-dump hauler is seen working overburden at an open-pit mine where average grades are 10 to 12 per cent. The 150-ton Model 33-15 hauler is built by the Diesel Division of General Motors of Canada in its London, Ontario, plant. General Motors of Canada has already sold 300 smaller diesel-electric motors in the world market and is aiming the new hauler in the same direction. Its many advantages include the modular design concept of the engine and generator: both mounted on a skid base. This reduces change-out time and saves space maintenance, as well as easing transportation and assembly at mine site.

Code 4-2

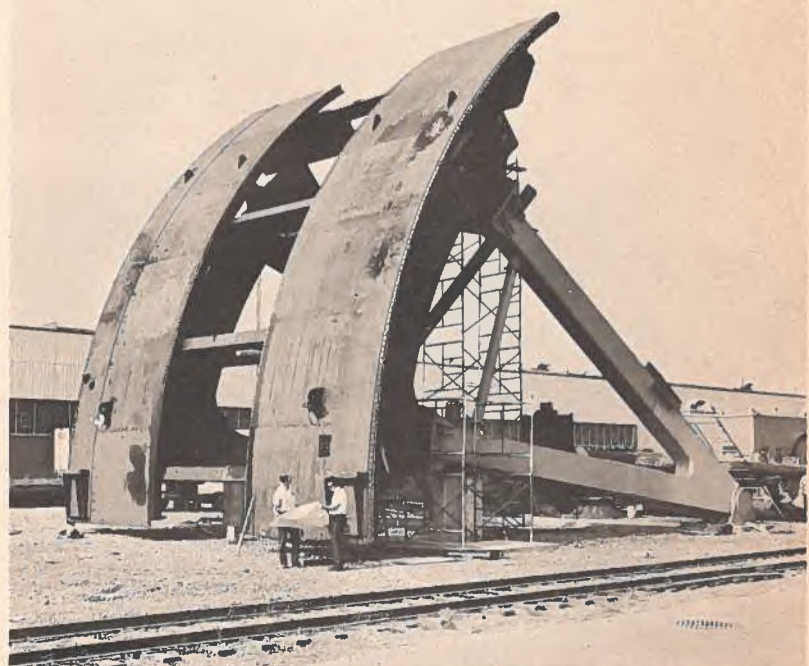
Steel fabricator makes it BIG

A recent export sale, by Foresteel Industries Limited of Montreal, was a giant 65-ton exhaust hood for a steam turbine, shipped on a special eight-axle rail car to its U.S.A. destination for General Electric Corp. It was fabricated from special alloy-steel plates: forgings and castings are no longer used. This facilitates the stringent inspection and quality control mandatory for precision welding and forming of this type. Other recent exports include pressure vessels to Israel, turbine castings to India and "cyclones" to Puerto Rico, to combat air pollution.

Foresteel, one of Canada's largest custom steel fabricators and erectors, prides itself on adhering precisely to specifications and on punctual delivery. A spectacular job in Canada is the unique ice-control structure on the St. Lawrence River designed by Lalonde, Valois, Lamarre, Valois & Asso-

ciates, Montreal. It holds back "the world's largest ice barricade" — 35,000 tons of ice — from damaging the site of Expo 67, the great World's Fair, whose successor Man and His World continues each summer. Foresteel fabricated and erected the 72 welded steel gates.

Tallest process column in Montreal — that of Union Carbide Canada Limited — was fabricated in the Foresteel shop, shipped and erected in two pieces. Rail and water facilities permit transporting very large sections to minimize field work, but some large structures are assembled for inspection and dismantled for shipment. Foresteel can undertake — using Canadian supervision and local tradesmen — large field projects such as refineries, hydro projects, pulp-and-paper complexes, almost anywhere in the world.



Canada's largest radial gates, weighing 400,000 pounds (181,600kgs) each, were produced for Quebec Hydro by Foresteel Industries.

Code 4-4



Who would have thought a few owls could attract so much attention! The big-eyed birds cover this cotton canvas raincoat as well as decorating the cotton knit dress. The maxi-length coat has flap pockets and a rope belt held by the model. Designed by Elvia for Luv Originals Inc. of Montreal, this outfit was shown at a recent Canadian Solo Apparel exhibit in New York City. Code 5-1

Precision moulds move far afield

Wentworth Mould & Die Company Limited of Hamilton, Ontario, which sells its high-quality precision moulds to the U.S.A., Latin America, Europe, Africa and Asia, has a richly experienced five-man top team.

President Fred Chalkley, who founded the company in 1947, has been concerned with moulding for 50 years. In 1958 he designed and made a minnow bucket that won a Canadian Council of Industrial Design award, as well as second prize at the 1959 Chicago Plastics Exposition.

Thirty years in the industry, Ray Aquin is a vice-president; so is Max Suit, who learned the tool-and-die trade in Sweden, joining Wentworth in 1953. Design engi-

neering is headed by Karl Schwarze, adept at foreseeing and licking potential problems posed by product design and/or mould requirements. Shop superintendent Horst Mueller learned his trade through Germany's painstaking apprentice system.

All the company's moulds are machine-cut from high-grade stress-free hand-forged aluminum bars. Alloy used provides exceptionally high compressive strength and constantly high thermal heat conductivity. Numeral-control equipment and special duplicators assure repeatability in producing multiple mould sets. Wentworth makes blow, injection, compression and vacuum-forming moulds to suit any equipment.



Wentworth's design engineering chief Karl Schwarze (rear) and design engineer Henry Morino at the drawing board. Code 5-3

High-speed train for existing tracks

A lightweight "next generation" passenger train that runs smoothly on existing tracks, uses standard fuels, doesn't jolt passengers on curves and will do 120mph (193-kmph) is in advanced development and testing at Montreal.

LRC (Lightweight, Rapid, Comfortable) is jointly produced by Alcan Canada Products, Dominion Foundries and Steel Limited and MLW Industries with project offices in Toronto. Designed for strong appeal to operators, financiers and the travelling public, it aims to compete with interurban air travel — considering such factors as comfort, convenience, time from downtown to downtown and frequency of runs.

Because it needs minimum maintenance and service, LRC's capital and operating costs should be less than those of conventional equipment and markedly lower than those of competing high-speed systems. One striking factor is LRC's ability to tilt its coaches as much as 10 degrees, through a hydraulic banking system. When the LRC locomotive is ready, the tilting ability will permit a train to negotiate curves at speeds 40 per cent higher than now possible with conventional equipment — dramatically reducing journey time and removing the need for vast expenditure on track strengthening and replacement.

Aboard a two-hour test run, passengers were never even conscious of going around curves and found comfort generally excellent. The otherwise luxurious chairs, how-

ever, are being re-designed to eliminate a slight jiggle evident on that trial run — before the special locomotive for LRC had yet been built.

Profile is low: about two feet (610 mm) below roof level of the standard baggage car coupled to it during testing. This permits rapid acceleration; the streamlined effect is emphasized by exceptionally large windows. Use of "state of the art" equipment in everything from engine to air-cushioned suspension system and air-conditioning eliminates the need for special maintenance facilities. LRC is also designed with a sharp eye to safety. Contributing factors include low centre of gravity and tilting on curves to permit 35 to 50 per cent

extra speed safely, while maintaining stability margins against wheel lift.

Conventional sills are replaced in LRC by built-in aluminum side sills, creating a stressed-skin, shock-resistant car body. Before initial road trials, the prototype coach withstood a squeeze test of 800,000 pounds (363,200kg) end-to-end pressure and severe vertical-strain tests — all under critical observation by Association of American Railroads' structures committee. Structural strength meets all A.A.R. specifications for trains weighing more than 600,000 pounds (272,400kg), although locomotive and coach weigh only 185,000 (84,000kg) and 80,000 pounds (36,300kg) respectively.



This train is tipsy? No, just tilted — so it won't lurch going around a curve. Light, swift LRC is a product of Alcan-Dofasco-MLW consortium. Code 5-2

Sturdy marine power unit stands up to severe test

Maritime Industries Limited of Vancouver, British Columbia, is fulfilling a contract for the United States Navy, producing 32 propulsion units of 300hp drive. The big inboard/outboard unit, Model L-295, has a 360-degree steering leg, additionally capable of being cocked up 180 degrees for maintenance without docking.

The U.S. Navy order stipulated that a prototype drive be built and exhaustively tested, using a 90-ton navy barge as test platform. Tests included 60 full-power beach landings and back-offs, 60 crash stops by reverse gear and 60 by 180-degree steering swing. Full power was 2,100rpm, developing 9,000 pounds (4,086kg) of static thrust

on a 60-x-38-inch (1,524-x-965-mm) propeller at 6:1 reduction.

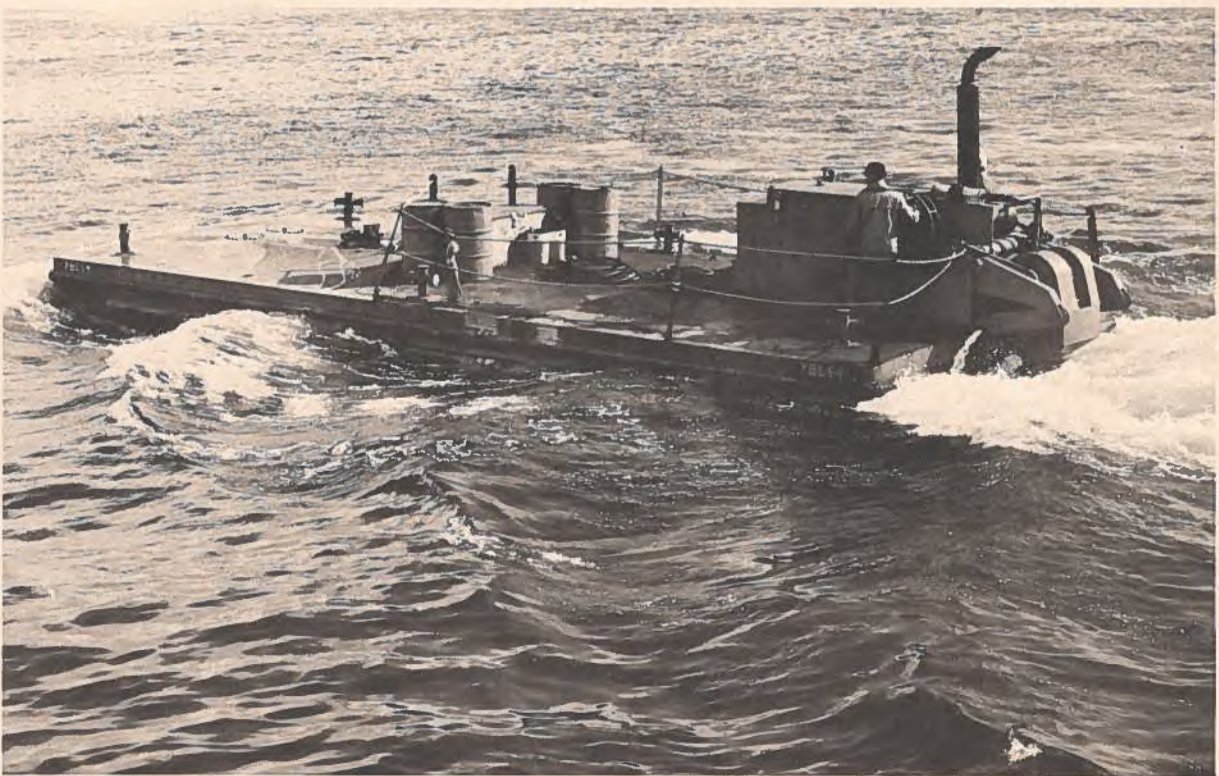
L-295 was then driven over a reef with the leg down — incurring further severe shock and propeller damage — then removed from the test vessel and opened up for inspection. Gear train and all critical parts were in first-class condition and U.S. Navy approval for production was gained.

Maritime Industries had studied performance characteristics of drives available from U.S., German and Japanese manufacturers with a particular eye to reliability and easy maintenance. The Canadian company fitted a 1:1 steering ratio previously unavailable in large over-stern units. A hydraulic leg-elevat-

ing system permits the drive to both steer and propel at full power while elevated above the plane of the vessel's bottom.

Maritime Industries is now working on main propulsion or auxiliary positioning units for ferries, dredges, pusher tugs, barges, fire floats and beach-landing craft — especially for use in remote or developing areas, where a full maintainable propulsion system is needed in absence of docking-facility support.

The company has just completed twin 300-hp outboard drives for a Canadian Department of Transport ice-breaking ferry — its total propulsion; won contracts for bow-thrusters for five oil industry offshore vessels; won contracts to supply four L-295 drives for propelling a British Columbia Highways Department ferry.



One of U.S. Navy's self-contained propulsion units — made by Maritime Industries — mounted on a 90-ton test barge. Good commercial sales are reported for the L-295 drives and their by-products such as L drives and bow thrusters. Code 5-4

Steam plant turns garbage into profit

One of the world's few steam-generator plants running on shredded garbage is unique in reducing it to a very staple fuel by pul-

verizing it. Result: very fine ash, free of clinkers and other obstructions to burning efficiency — and pollution is curbed.

This plant is the first Solid Waste Reduction Unit (SWARU), which commenced operation last November in Hamilton, Ontario. Designed by Gordon L. Sutin and Associates Ltd. of that city, it was built by Pigott Construction Co. Limited, Hamilton, and Babcock & Wilcox Canada Ltd. in nearby Galt.

Sutin and Associates is negotiating with several countries to adapt this all-Canadian design to their special requirements. SWARU reduces residue volume to five per cent of the original, as compared with 10 per cent — the lowest claimed by any other such plant known to company president Gordon Sutin.

Metal, including tin cans, is rejected automatically from refuse before burning. Ash produced is clean and sterile and, when compacted at final fill site, can provide usable land within five years. Also, since the plant can run 24 hours a day and produce large quantities of high-pressure steam, a great deal of that steam is saleable. Mr. Sutin believes a municipally owned SWARU such as Hamilton's could operate at no cost whatever to taxpayers, perhaps even make a profit.

The Hamilton plant has a concrete receiving pit that allows 12 trucks at a time to empty into it. Pit-bottom conveyors take the refuse to pulverizers, whence it goes to a storage or "fuel" tank to await further conveyors to boilers.

Code 6-1



This isn't really a Grecian column but a dual-flue, hermetically sealed smokestack for the boilers of Sutin's new steam-producing garbage disposal system.

Fun with furniture

Rosedale Furniture of Fenelon Ltd. has 42 pieces of outdoor and recreational furniture, ranging from chairs, benches and settees, to bars, lounges and stools. All are made from Western Red Cedar which is durable and attractive, with a prominent grain and beautiful warm colouring. The entire line is virtually nail-less; construction method is to peg pieces together. Thus the furniture is easily dis-assembled for shipping or storage. Rosedale's products, made in Fenelon Falls, Ontario, have been displayed at the Chicago Furniture Mart and the Spring Furniture Market Show at High Point, North Carolina.

Code 6-4



Ocean expertise on show

Canada has the longest coastline in the world — understandably she's become a nation of ocean experts. Proof lies in the wide variety of products and services 19 Canadian companies will exhibit under sponsorship of the Department of Industry, Trade and Commerce at Oceanology International '72 in Brighton, England, March 20-24.

Of special interest will be Canadian equipment and techniques developed to meet Arctic marine conditions. Kenting Exploration Services Ltd., of Calgary, Alberta is involved in the Polarquest petroleum exploration project in Canada's Arctic and it is Kenting's seismic crew and instruments that have proved feasibility of full-scale marine seismic surveys under severest ice conditions.

The Narwal is another Canadian answer to the rigours of Arctic seismic exploration. Designed by Access Company Limited, Toronto, Ontario, this manned submersible fits into STOL aircraft, making support ships and surface power sources unnecessary. Compact and self-contained, it operates from hole

to hole under ice to a depth of 1,000 feet (304.8 m).

Guideline Instruments Ltd. of Smiths Falls, Ontario, will show its rugged new high-speed temperature, salinity and depth measuring system which measures temperature to 0.02C, salinity to 0.04 ppt and depth to 0.2 per cent of full scale.

There's a new 26-pound (11.8-kg) foam vinyl-lined reinforced fibreglass diving helmet from Canadian Diving Services Ltd. of North Vancouver, British Columbia, that is making the standard 60-pound (27.2-kg) copper model obsolete. It allows comfortable dives to 600 feet (182.8m).

Halifax Shipyards, Halifax, Nova Scotia, will be displaying its line of custom-designed equipment for offshore petroleum exploration and production which includes Sedco floating oil rigs, largest of their kind in the world.

Fourteen other Canadian companies will be in the exhibition, showing everything from underwater deep-towing equipment to marine life support equipment.

Code 6-5

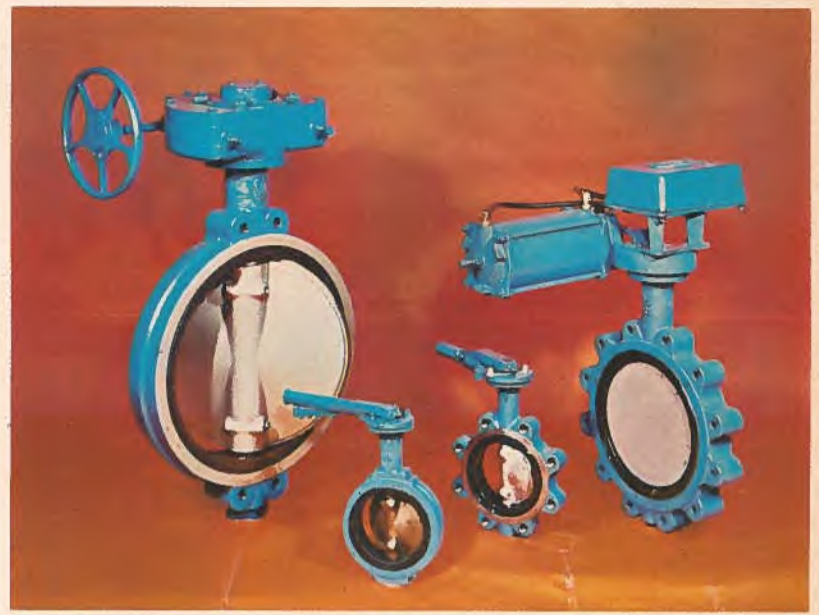
Sensor takes high speedup, error-free

The new Shaft Position Sensor made by George Kelk Limited of Don Mills (Toronto), Ontario, is designed for installation on rolling-mill housings, eliminating the need for a synchro link. It can also be used in any machine application where angular shaft position must be indicated by a digital electronic output.

Model 625-1 provides 128 output pulses per revolution — from 0 to 8,000 rpm — and accepts high acceleration without introducing an error. Optional electronic processing equipment can provide a shaft-position display or produce any one of the common codes.

The Sensor consists of a magnetic incremental encoder and a dual line-driver amplifier in a sealed, rugged cast-steel enclosure. Shaft position is sensed through a magnetically coded disc. Circuit cards are available for various functions, for example to energize the sensors, to de-modulate signals derived from the sensors, to do bi-directional counting for position-indicating systems and to provide inter-

High-pressure drip-tight shutoff



The new Lug Body butterfly valves made by DeZurik of Canada Limited, Galt, Ontario, have a retained seat that provides drip-tight shutoff at pressures up to full rating of 175 psi on dead-end or isolation service. Downstream flanges aren't needed to retain or support the seat. They also have the exclusive DeZurik double resilient seat used in its Wafer butterfly valves. Built-in spare seating service can be used by rotating disc 180 degrees after normal service life. The new valves have corrosion-resistant bearings; solid disc-to-shaft pinning; semi-steel disc with anti-corrosion welded nickel edge. They're available in 98 material combinations with five actuator options including levers, handwheels and on-off or positioning cylinders.

Code 6-2

Like to know more about Canada?

All aspects of Canadian life — from business to the arts — are vividly presented on daily multilingual shortwave broadcasts by Radio Canada International, the Canadian Broadcasting Corporation's external service. They brought in 82,000 letters last year from the world over.

RCI broadcasts to the U.S.A., the Caribbean and Latin America, Europe, Africa and the South Pacific in English, French, Spanish, Portuguese, German, Hungarian, Czech, Slovak, Polish, Ukrainian

and Russian. In addition to direct shortwave broadcasts, RCI produces music and spoken-word transcriptions featuring Canadian writers, composers, musicians and actors. These are shipped worldwide for airing on local radio stations.

RCI has three 50kw transmitters in Sackville, New Brunswick, two new 250kw transmitters, and three more under construction. Lists of times and frequencies of its various broadcasts are available, in the desired language, on request. Code 6-3

face circuits to drive readouts or computers. Output is available in binary, BCD or Gray Code for angular position, or as a pulse train for sensing shaft speed.

Kelk has added to its standard line Stedivolt (R) A.C. line-voltage regulators, a new SH series for use with 600-volt three-phase systems. This makes 66 of these regulators available for single- and three-phase applications, in load capacities from 12 to 206KVA.

Believed to be the highest-capacity load cells ever produced for

measuring rolling-mill separation force are two 17,500,000-pound-capacity (7,945,000-kg-capacity) cells recently delivered to the Aluminum Company of America's works in Davenport, Iowa. These were later installed in United Engineering & Foundry's 220-inch (5,588-mm) plate mill in the same city. The pair will accurately measure the mill's maximum separating force of 35,000,000 pounds (15,910,000kgs) and withstand a 70,000,000-pound (31,780,000-kg) separating force.



George Kelk staff skilfully assembles the fine electronics and electrical circuits inside these load cells.

Code 6-6

Giant fire trucks for Los Angeles

Fire trucks were horse-drawn "buckboards" — a kind of wagon — back in 1908 when the late Pierre Thibault and his father founded the company which is now Pierre Thibault (Canada) Ltée. of Montreal. It makes an array of blaze-battling equipment and exports it, thus far, to the U.S.A., Jamaica, Trinidad, Colombia, Peru and Chile.

Most spectacular recent sale was three 100-foot aerial-ladder trucks — one tractor-drawn, with a tiller-man on rear — to the vast Los Angeles City Fire Department. One that, earlier, helped put the company on the map was a series of large orders from the Canadian Government for the armed forces

during World War II.

All Pierre Thibault equipment is designed and made in Canada, but its custom-built pumper — open or closed cab — can be fitted to the commercial chassis of the customer's choice, though still supplied complete by the company. Other pieces include: a pump control panel; an outstandingly controllable hose reel; booster tanks of many capacities; a range of "tilt" cab trucks — with body types designed to specification; rear compartments; constant-beam full-depth frames; strong, stable aerial ladders; fast-access ground ladders; a ladder leveller for use on uneven ground; a centrifugal pump; a new relief-valve control. Code 7-1



Canopy-type forward cab for firefighting, by Pierre Thibault, has ultra-modern 80-foot elevated platform. It's in use by Regina, Saskatchewan, fire department.

Rugged radio, antenna equipment

Thirty years' experience in designing, producing and selling simple low-cost communication systems for use in the Canadian north — where distances are great — have made Spilsbury & Tindall Ltd. of Vancouver, British Columbia, an outstanding supplier to developing countries. Its SSB equipment and HF antennas, while matching Canada's cold temperature extremes, have been treated to cope with tropical conditions too.

Many suppliers have failed to improve HF antenna design — unlike S. & T., which has a wide range of tuneable centre-loaded antennas for use with hand-carried, mobile aircraft and LF beacon transmitters. These unique, patented designs step up the radio's effectiveness from 10 to 15 times above the performance of regular base-loaded whip antennas.

The company's tuneable aircraft antennas are particularly suitable for helicopters; exceptional performance has led to their adoption by many large fleet operators such as Bristow, Okanagan, Autair, Canadian Department of Transport and Australian Armed Services.

The company also produces the new SBX-11, a 10-watt four-channel all-solid-state portable transmitter, which weighs less than eight pounds (3.63kg) including batteries. While designed as a portable, it has proved so effective and reliable that many operators are using it to replace their regular base stations — thus standardizing on one set model. Its frequency range is 1.6-8MHz.

SBX-11 frequently operates to 1,000 miles (1,610km) and more and is used by forestry services,

mining, oil-exploration, survey and construction companies. Operating from internal "throw away" dry cells, rechargeable Ni-cad cells or mains, it has tone-calling and Morse Code provisions.

Spilsbury & Tindall also produces low-power portable LF beacons for aeronautic and marine use.

Newest version, all-solid-state LWX-25, is normally supplied with AC-24 top-loaded LF antenna system, providing ground-to-air ranges up to 100 miles (161 Km). Code 7-2



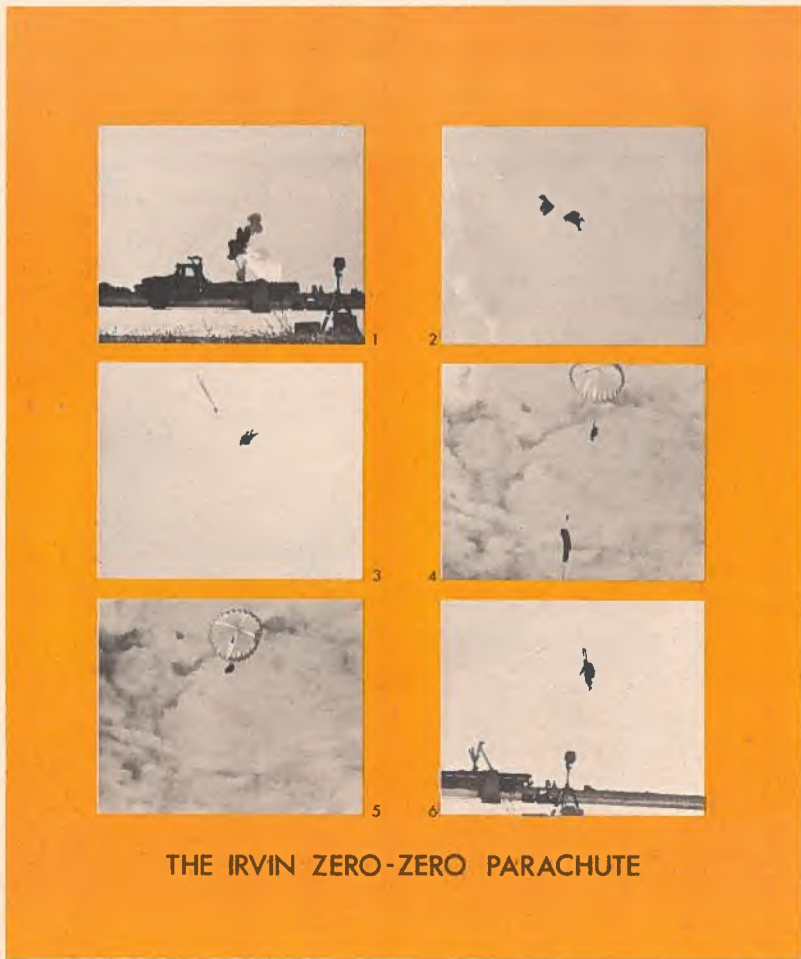
These men are talking to a Spilsbury & Tindall-made fixed station in Queen Charlotte Islands, more than 600 miles (966km) from Okanagan Helicopter Ltd. base in Vancouver, where they're seen using an S. & T. SBX-11. From left, they are: Okanagan President Ian Kennedy; S. & T. Canadian Sales Manager A. D. Spilsbury; Anaconda American Brass Ltd. Chief Geologist Rod McRae.

"Zero speed— zero altitude" ejector

It's vital to be able to eject safely from an aircraft at dangerously low speeds and altitudes. Zero-Zero modification kit permits safe ejection at "zero speed/zero altitude" — when installed in a back-type parachute — with no need for special high-performance ejection seat. It's made by Irvin Air Chute, Limited of Fort Erie, Ontario.

Because capability is achieved by installing a modification within a standard parachute, outward appearance is virtually unchanged. Parachute is linked to ejection-seat lap belt, or equivalent anchorage point, by an arming cable, which actuates deployment system at man/seat separation.

Since parachute canopy is forcibly deployed by drogue gun, time lapse from man/seat separation to full canopy inflation is sharply reduced. An Irvin barometric release delays opening at higher altitudes and actuates missile-firing drogue gun. There's also a manual ripcord override. Code 7-3



THE IRVIN ZERO-ZERO PARACHUTE

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Caterers look to Canada

The hospitality industry is being challenged by the ever more knowledgeable consumer. That which was accepted 10 years ago is rejected now. Today's traveller demands the finest of everything. Caterers and hotel-keepers are faced with the problem of operating economically while providing better accommodation and dining. They could look to Canada for the answer.

Canada has everything the hospitality industry needs: from food to freezers to furnishings. Canadian products have gained acceptance in many countries and the trend continues. The Canadian refrigeration industry's exports alone exceed \$10,000,000 in value annually to Britain, Continental Eu-

rope, the United States and the Caribbean. For years people in many countries have known about Canadian bacon, Canadian cheese and Canadian whisky. Now they're enjoying many other good things — like Canadian Chinese food. If that seems paradoxical, look at the picture on this page. Food for thought?

The veteran hotelkeeper or the caterer taking a first tentative taste of the rapidly expanding fast food industry would do well to look to Canada — chances are he'll find just what he needs.

For further information, fill in the trade inquiry form on page 7, stating specific interests if possible. Code 8-1

Instant true flavour



Uniform good quality, convenience and economy is a valuable threesome to any food operator. That's why Instant and Frozen potatoes by Toronto's Carnation Company Limited are so popular. When re-constituted the dehydrated potatoes are mealy, white, with true fresh-mashed flavour. Added to process granules is the exclusive Trio pre-mix formula that gives the product a milk and butter flavour. Instant Mashed Potatoes from Carnation offer many other advantages. They can be stored much longer than fresh potatoes and take up 60 per cent less space. Handling costs are reduced and seasonal price fluctuations do not affect them. Year-round portion and quality control are assured and fresh-mashed potatoes are instantly available. Code 8-3

Canadian whisky suits world taste

In the decade between 1955 and 1965 Canada's whisky exports doubled. History appears to be repeating itself and there is every indication that by 1975 these exports will have doubled again. In 1970 23.6 million proof gallons of Canadian whisky flowed into 89 countries.

The United States swallowed up 22.8 million proof gallons of Canadian whisky in 1970. Next in line were West Germany (101,000 proof gallons) and Britain (72,000 proof gallons). The Bahamas took another 48,000 proof gallons. All clear proof of the popularity of Canadian whisky in every corner of the world.

What are the reasons for this acceptance? Quality is an important factor. Canada's distilleries are able to use the finest raw materials: prize grains from the Prairies; clear, cold water from the country's lakes and streams — and the ingredients are treated with loving care to produce smooth whiskies. They're smooth alone, or smooth with company. For instance . . .

Whisky sour

1¼ oz. Canadian rye whisky
1½ oz. prepared lemon juice*
Shake with ice and strain into a chilled sour glass. Serve with a cherry.

Ward "8"

1¼ oz. Canadian rye whisky
½ oz. prepared lemon juice*
½ oz. orange juice
¼ oz. Grenadine
Shake with ice and strain into a chilled sour glass. Serve with a cherry.

*Prepared lemon juice (25 oz.) — Squeeze 12 lemons for approximately 15 oz. of juice. Sweeten to taste with simple syrup (7-8 oz.). Add one beaten egg to mixture. Keep refrigerated. Code 8-6

Easy-to-serve Chinese food



Old-fashioned good cooking combined with modern food handling and storage bring Chinese food to the diner at the peak of flavour and texture. Chan Food Products Ltd., Saint John, New Brunswick, offers a wide variety. Sweet and sour spareribs are dipped in rich egg batter, deep-fried and blended with Chan's secret sweet and sour sauce recipe. Chicken chop suey is a succulent blend of tender chicken, mushrooms, water chestnuts, bamboo shoots, select vegetables and bean sprouts, all blended with a rich chicken gravy. Almond chicken or the pineapple chicken shown here offer superb taste. A very special delicacy is a Chan egg roll. All foods are pre-cooked, frozen and packed individually to allow a varied Chinese menu. Just heat and serve. Code 8-2

Sweet-tooth diners get their desserts

Canada Farms offers fresh frozen pies and cakes fashioned from early Canadian recipes in the respected tradition of Morrison-Lamothe Foods Limited, Toronto, one of Canada's largest independent bakeries. Each Canada Farms pie and cake is made in the finest home-style way with high quality, delicately-flavoured ingredients. They are frozen to preserve freshness and goodness, carefully packaged to provide maximum protection and presented for sale as convenient, easy-to-serve desserts. Code 8-4



Luxury foods, frozen or canned



"Luxury" brand Snow Crab meat is brought from the deep, cold waters of the Gulf of St. Lawrence to be canned by A. Roy Clouston & Sons Ltd., Lachine, Quebec, for salads, sandwiches, thermidors, newburgs, casseroles or cream soups. Other "Luxury" brand foods include: cravisse — individually quick-frozen crab claws, partially shelled and cooked — and canned lobster meat, cod livers and prawns. An ingenious process by this company brings uncooked lobsters direct to the world's kitchens. They are steam-blanching for just a few seconds, sufficient to kill and shrink the meat from the shell; then into ice-cold water to stop the cooking process. Next, each lobster is encased in a patented shock-proof container of molded polystyrene foam, blast-frozen, vacuum-sealed in transparent plastic and packed one dozen to the carton. Each lobster can be stored for at least a year in proper refrigeration and can be defrosted and served in 30 minutes. Code 8-5