



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.

For the Games and the goods ... call on Canada!

## Sports equipment manufacturers compete well in world markets



Olympics fever is spreading across Canada! And little wonder—the 1976 Summer Olympics, being held in Montreal and Kingston, is only a short time away. The event, which will attract top calibre athletes from around the world, has inspired Canadians to even greater participation in sports and recreational activities. More Canadians are jogging, cycling, skiing and, in general, enjoying the fun of fitness. It may well be that no other nation has so wide a variety of participant activities with such a significant number of devotees—all of whom demand the best in their sports and recreational equipment. Look to pages 4 and 5 of this issue for some fine examples of Canadian-made equipment which is sold in countries throughout the world.

While the Olympics is certainly spurring them on, Canadians have always been sports-minded. It's a vital part of their heritage.

Even before the arrival of Jacques Cartier, the native Indians of the vast country which was to become Canada were playing lacrosse. The game became so popular with the early settlers that, in 1867, lacrosse was declared Canada's official sport.

Also a traditional form of Canadian recreation—and one that today is enjoying an international revival—was cycling. In Canada in the 1870s, especially in the larger centres, a great many people were riding penny farthing machines in well organized clubs across the country. Canada's first cycling club was in Montreal, site of the 1976 Summer Olympic Games.

Canoeing and rowing—both as a way of life and as a sport—have long been part of the Canadian heritage. Often the only mode of transportation over the country's numerous and turbulent inland waterways, the canoe also featured prominently in competitions between teams of voyageurs and Indians.

At the turn of the century, regattas attracted as many as 40,000 spectators at boating events held throughout the country. The regatta in St. John's, Newfoundland, is today considered to be the oldest continuously competed sporting event in North America.

Many of the sports and recreational activities Canadians enjoy today were, in the country's early years, necessary ways of life. For instance, horseback riding, canoeing, hunting, fishing and camping were, for the most part, typical work activities for the early settlers. They did not have the leisure time we enjoy today.

However, the customs of the times involved fairs, exhibitions, contests, displays, sports and social

events. There was horse racing in summer or snowshoe racing in winter; exhibitions of farm produce in the fall—still an extremely popular activity throughout Canada; or a barn-raising when it was required.

Throughout the nineteenth century, and well into the twentieth, demonstrations of work skills and competitions between workers were popular forms of recreation and amusement. Thus, plowing matches, sawing competitions, log hurling and nail-driving contests were—and continue to be—important ingredients at picnics, fairs and other outings.

During the latter part of the nineteenth century track and field sports were pursued in the larger population centres and soccer was played as a team sport. Yacht racing flourished on the country's east and west coasts and its inland waters.

Canada's waterways were originally used primarily for commercial purposes and their navigation—by voyageurs, fur traders and explorers—was instrumental in the economic and commercial development of the country.

With water playing such a vital role in the country's history, it is scarcely surprising that the local craftsmen became expert boat builders—especially in the Maritime Provinces. This area has had a thriving boat building industry since the early 1800s. It was here, in Lunenburg, Nova Scotia, that the famous schooner, the *Bluenose*, was built. It defeated every international rival in racing competitions during the first part of this century.

It was a simple task then, when leisure time gradually became more abundant, for these craftsmen to turn their years of experience in commercial boat building to the construction of boats for sport and recreational use.

*continued on page 4*



### Good enough for the Olympics

Superior design and impeccable craftsmanship—qualities which have made it the official spectator control craft at Canada's 1976 Summer Olympics—are evident in the 110 powered Le Mans Sports Runabout manufactured by the Canadian Boat Division, Alcan Canada Products Limited of Princeville, Quebec. Featuring a hand laid up fibreglass hull that meets U.S. Coast Guard, BIA and MOT construction standards, the Le Mans is available with motor options of up to 140hp and has a gas tank capacity of 18 U.S. gallons (68 litres). The modified deep V hull has a centre line length of 16 feet 10 inches (4.8m 25.4cm) and a seven-foot beam (2.1-m). Standard equipment includes mechanical steering; full convertible top with side and stern curtains; storage boot; bow rail; stern boarding ladder; international lights; electric gas gauge; glove box; battery and battery case; skiff windshield; reclining sun seats; bilge pump and blower; rear jump seats; safety glass windshield; custom fitted mooring or storage cover and fire extinguisher. Nine 110 powered and 12 outboard powered runabouts are available in this line. Code 1-162

### Many uses for custom-made carriers



Many custom-made carriers used in countries throughout the world are produced by a major Canadian manufacturer, Crane Carrier Canada Ltd., of Rexdale, Ontario. The company, which has been manufacturing carriers for 20 years, emphasizes custom design: the carriers are engineered to the specific geographical, regional, local and individual requirements of the customer. Some, such as the one shown here, are designed specifically to carry lattice-boom cranes; others have a wide variety of applications, such as in the construction, waste disposal, logging and mobile drilling industries. Crane Carrier Canada Ltd. manufactures more than 150 custom-made carriers per year—in capacities from 25 to 250 tons (23 to 227 metric tons)—and seeks further international markets. Code 1-232



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## Worth more than 10,000 words?

That's what the old Chinese proverb says about one picture. Perhaps it could be applied equally well to the display products manufactured by Visual Plastics Limited. This Montreal, Quebec, company specializes in the manufacture of plastic and magnetic vinyl components for use in the assembly of charts and visual displays which tell the whole story at a glance.

The sales chart in the accompanying photograph is made from precision molded eight-inch square (20-cm<sup>2</sup>) modular perforated panels that clip together to form a solid background. The descriptions and scales are assembled from a range of letters and numbers 1/4-inch (0.6 cm) to 5/8-inch (1.6 cm) in height.

The characters lock together and can be pre-positioned on the panel. Graph points are emphasized with coloured slotted pegs joined with a special elastic line available in matching colours. Bar graphs are shown with coloured bars four inches (10.16cm) long which can be cut to any length required. The panel can be framed in anodised alu-

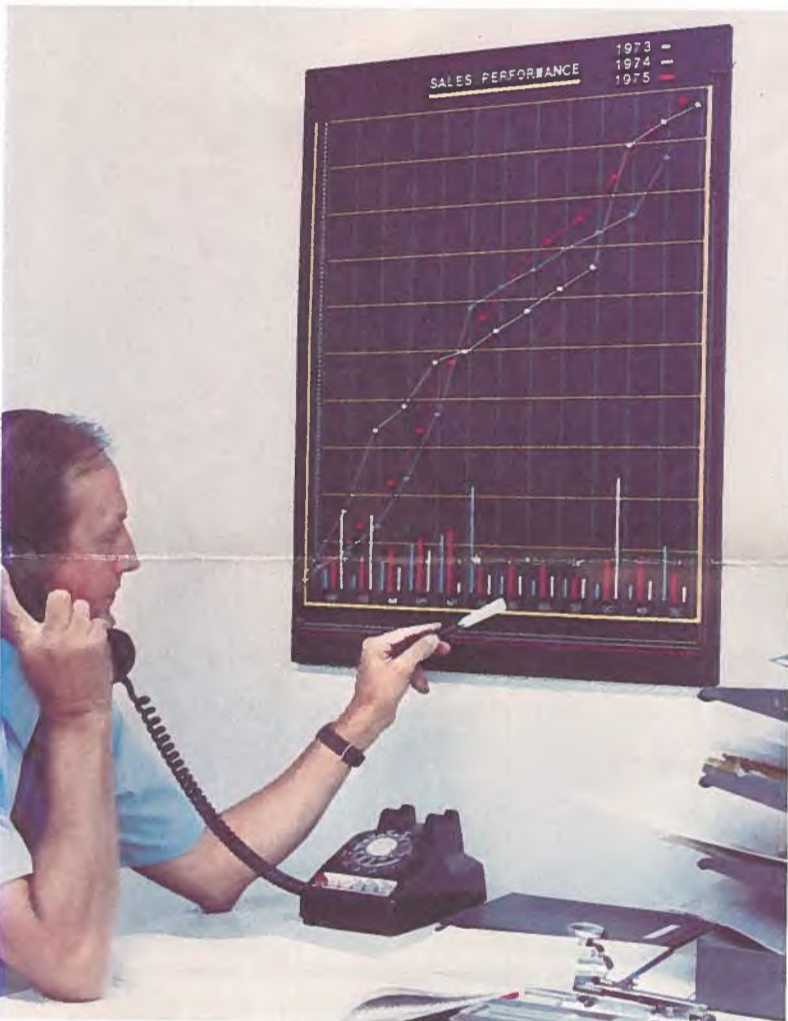
minum and special hooks for hanging it are provided.

Used by hospitals, schools, big business and governments, similar charts and boards do many and varied jobs: keep shift schedules in order; appointments and timetables up-to-date; machinery used to capacity and production on schedule.

Visual Plastics produces the molded components, assembly instructions, and makes recommendations for their use. The components are then sold by retail outlets either as individual panels and pieces for people who want to build a display to their own requirements; as standard kits for specific application charts; or on a consultant basis—the display is custom designed for the client and then made-to-order from available standard components.

Visual Plastics is represented in the United States, the Netherlands, South Africa and Nigeria. The company is actively seeking additional distributors who will stock the components and assemble them locally.

Code 2-185



This chart sums up visually the results of a three-year sales campaign—only one of myriad uses for display products manufactured by Visual Plastics.

## Fine degree of precision from Canadian Tool & Die

Hubs, wheels, spindles and hydraulic cylinders manufactured by Canadian Tool & Die Works Ltd. are guaranteed to provide long, trouble-free machine mobility.

Hub capacities, for instance, are established on a 20,000-mile (32,000-km) B10 bearing life at a tractor speed of 20 miles per hour (32km/hr). Spindles—precision machined and ground from carbon steel bars—are designed for 14,000 psi (980kg/cm<sup>2</sup>) maximum fibre stress.

Canadian Tool & Die's hydraulic cylinders are custom designed to meet such individual applications as front end loaders, rock pickers, land scrapers and tractor steering.

The cylinder bodies, of electric resistance-welded tubing, are fully normalized and cold drawn over mandrel to give them a special smoothness, while the cylinder heads—whose design provides unobstructed flow from ports—are thorough bored and

grooved to provide a common centreline for the cylinder body and piston rod. Sealing with pressure are pressure compensating static O-ring seals located between cylinder body and head.

The three different piston designs which are offered as standard have wide surfaces of the piston contacting the cylinder body to reduce bearing loads during mechanical deflection. Made from high carbon steel, the piston rods are precision ground, hard chrome plated and polished to provide a surface that gives long seal life.

In addition to providing custom tooling to the industry, Canadian Tool and Die Works Ltd. manufactures a line of pillow blocks and flange bearing houses as well as complete running gear for boat, camper and utility trailers.

The 28-year-old Winnipeg, Manitoba, company exports to the United States and seeks other markets.

Code 2-330

## Careful carwash fast and thorough

It doesn't matter whether the vehicle is a transport truck or a mini car, a Sherman Supersonic carwash will get it clean.

At its Mississauga, Ontario, headquarters, Sherman Industries (Canada) Ltd., develops and manufactures a complete line of versatile and durable carwash equipment that works equally effectively under harsh or mild climatic conditions.

The Otter System, Model 5252, for instance, though specially engineered for Canada's cold winters when cars have to be washed frequently to protect their finish, is ideal for milder climates as well. An excellent example of Canadian expertise in the carwash field, the Otter is gentle, fast and thorough.

Designed to wash, rinse, wax and dry, the Otter is a pre-wired, pre-plumbed, modular and conveyerized system made with the safety of both the operator and the customer in mind.

Constructed of heavy-gauge steel, hot-dipped and galvanized, the Otter is built for high output and long life. All components are of the highest quality to provide the utmost durability and dependable performance.

Features include: a hookless,

roller conveyor, with safety dollies, that needs no pits in the floor; a pre-rinse arch to completely soak the vehicle with water and loosen dirt and grime; a large top brush lubricated with soap and water to wash the hood, roof and rear deck of the vehicle; lower detail brushes on each side to wash the window area; a final rinse arch to rinse away soap and dirt and to apply wax; a blower to strip water and dry the car; and a power module that includes a power pack, air compressor and electrical motor control centre which houses all operating controls.

Special features, exclusive to Sherman, are patented wrap-around brushes that fit every contour of the car—regardless of the model or size—when washing the front, side and rear of the vehicle. The brushes are easy and economical to maintain at full working efficiency and will not cause antenna or mirror damage.

All parts are identical and interchangeable for easy replacement of brush discs or tufts. The discs, molded of a space-age plastic that is impervious to water and detergents, can be refilled as often as needed at a modest cost and can be built up into an almost infinite number of variations of brush length, density, material, colour and pattern.

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courier

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The Sherman system can be installed in only two days, except for incoming services, because of the simplicity, economy and accuracy of its design and manufacture. The same engineering gives dependable day-to-day performance as well, with relative freedom from delays and downtime. Fully automatic, the Sherman system washes, dries and waxes at a rate of 60 cars an hour. The line moves at 25 feet (7.6m) per minute and can cope with three cars simultaneously. During rinsing, all the soap is removed and wax is applied to enhance and maintain the car's finish. Hot waxing, a profitable extra service for the carwash operator, is available as an option.

A successful exhibitor at several recent trade fairs around the world, Sherman wishes to develop additional markets.

Code 2-264

## Portable, versatile core drill tackles tough terrain

A new hydraulic core drill that is ideal for exploration in hard-to-reach areas has been introduced by J.K. Smit & Sons Diamond Products Limited of Toronto, Ontario.

Because it can be transported easily by light plane or helicopter and assembled on site by two men, the 1000-pound (454-kg) drill is also ideal for projects in which frequent moving is necessary. And the control panel is simple enough to be learned in minutes.

With a maximum drilling depth of 1,000 ft. (305m), the J.K.S. 300 can be used for surface and underground core drilling, soils sampling and augering.

Designed to withstand the most difficult field service and outlast much heavier equipment, the drill bridges the gap between large portable drills, which are often impractical for logistic or economic reasons and light portable drills which commonly have low output in terms of footage below a certain depth and require more manual labour than larger drills.

In addition to its rated capacity of 1,000 feet (305m) (A Wire-line), the J.K.S. 300 operates at any angle and pulls steel rod at 60 to 70 feet per minute (18 to 21 metres per minute). A special hydraulic drill head that delivers the necessary low spindle speeds and torques for augering can be attached to the drill in minutes.

The hydraulic circuit is a closed-loop design, reducing the amount of oil needed to operate it while a heat exchanger keeps the oil at working temperature. All working components—push, pull, rotation—are hydraulically driven and system pressures up to 3,000 psi (210kg/cm<sup>2</sup>) can be used.

Vibration is kept to a minimum with the new drill since the power pack can be placed either on a platform separate from the mast to eliminate vibration during augering, or it can be secured to the mast platform to give added stability for diamond drilling.

Structured for minimum assembly time, the complete drill consists of two separate components, the power unit and the mast-drill

head unit. The mast, which is hydraulically retractable for transportation, is constructed of rugged steel in triangular form for maximum strength.

Experience in Arctic conditions shows that typical time for a five-mile (8-km) move of two men and drill, including assembly, is approximately one hour.

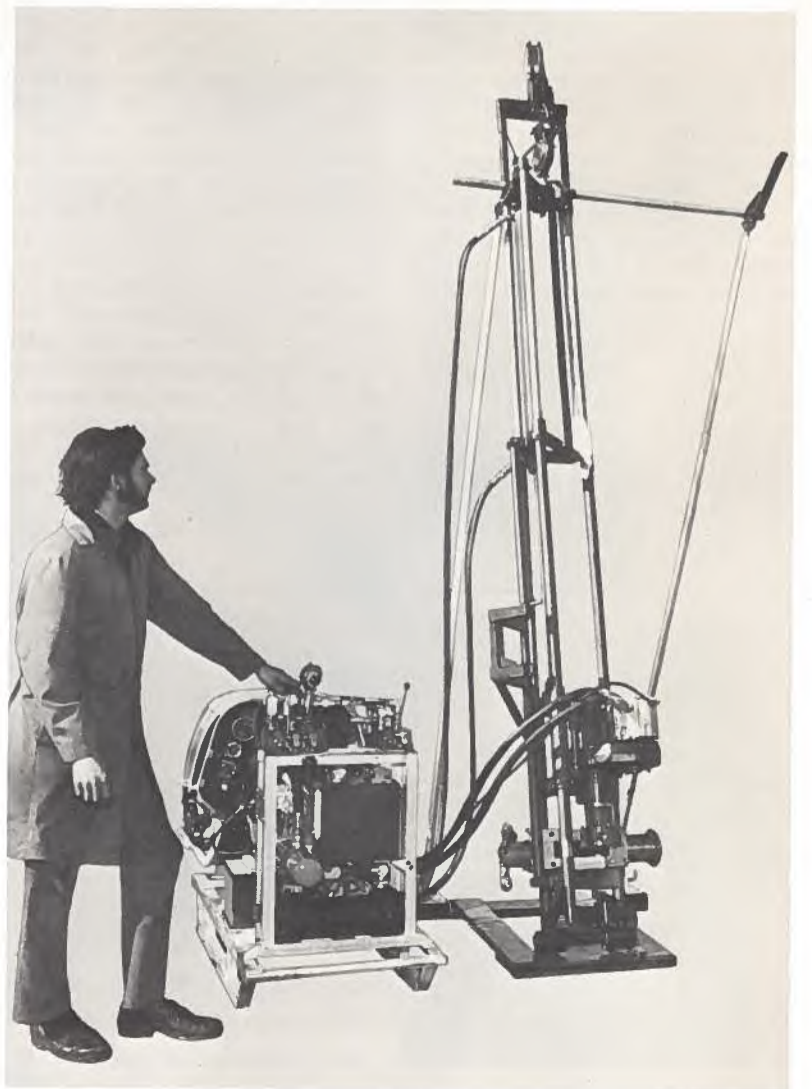
The standard J.K.S. 300 power pack consists of an aircooled 53 hp S.A.E. gasoline industrial engine, a heavy-duty hydraulic pump and a five-gallon (23-litre) hydraulic oil

system. An optional air-cooled diesel—air and electric engine—is also available.

All components are securely mounted on a skid, reducing breakage and loss and permitting extremely close control of the drilling operation.

After five years of research, J. K. Smit & Sons has begun to market its new drill internationally. Initial sales have been made to Panama and Peru with further export orders pending in other countries.

Code 2-431



Lightweight and portable, the J.K.S. 300 hydraulic core drill has a rated drilling depth of 1,000 feet (305m). In the field, it can easily be handled by two men.

## Giving industry a lift



A cross section of some of the sizes and varieties of forks manufactured by Kenhar Products Incorporated of Brampton, Ontario. The forks, each one-piece and "bent upset" by Kenhar's patented process, are noted for their strength and long life.

Fork tines that carry the load and give industry a lift are manufactured by Kenhar Products Incorporated of Brampton, Ontario.

Made of a tough alloy steel especially designed for fork tines,

Kenhar's products have a tensile strength of between 140,000 and 180,000 psi (9,800 and 12,600 kg/cm<sup>2</sup>). A heat treating process gives them a safety factor of 300 per cent overload at 24-inch (61-cm)

centers.

Every Kenhar fork is one-piece "bent upset," a bending process that increases the thickness of the heel by as much as 20 per cent, adding to the strength of the tine—where it is most needed—and ensuring longer life.

Kenhar continually stocks 60 different sizes of forks. These range in thickness from one inch (2.54cm) to 5 1/4 inches (13.3cm) and in width from 1 1/2 to 16 inches (3.8 to 40.6cm). Blade lengths are available up to 144 inches (366cm) with up-rights up to 92 inches (234cm).

Drop forged tapers or full tapers are machined to customer specification and all hook type forks are supplied with a lock-pin assembly installed. Custom tips and a variety of blade configurations can be supplied, together with such special items as polished forks, special hangers and tube diameters.

In great demand by the original equipment manufacturer, the replacement market and specialized industries, Kenhar fork tines and accessories undergo strict quality control. The Magnaglo process is used to detect any material defects and a Brinell test is made to assure the fork meets the necessary hardness requirements. Each fork is then rechecked for dimensional accuracy.

Forks for specialized uses are also made by Kenhar. These include a lift tine for use with plywood whose tapered tip permits easy slipping between the sheets; specially designed forks for concrete block, steel drums and carpet rolls; and urethane-coated tines which prevent damage to pallets and to such delicate products as furniture.

Kenhar's hook-on and shaft-mounted tines and attachments suit every lifting need, from coil carrying and lumber moving to barrel, container and boat handling.

With about 75 per cent of its output being exported Kenhar Products Limited seeks additional international markets. Code 3-131

## Today, it's the glasses that have it!

There's big business in the manufacture of eye glasses today. The consumer market is not restricted to those who wear glasses only to improve sight. They are worn to enhance the appearance or suit the mood of the moment, too. For whatever reason, the wearer wants something that is safe, comfortable, attractive and versatile—all advantages of glasses made with plastic lenses.

International Optical Ltd. of Richmond, British Columbia, manufactures semi-finished hard resin plastic lenses.

These are made of a lightweight,

extra-hard, transparent material that provides impact and abrasive-resistant qualities especially important to sports-minded adults, active children and automobile drivers who require the added protection of lenses that will not shatter and cause eye injuries.

Plastic's light weight offers many advantages. It contributes to comfort because plastic weighs half as much as glass of the same prescription which means less pressure on the nose and ears.

Also, plastic has excellent optical properties: it is less reflective than glass and transmits just as much

light. It can be easily drilled and shaped, making plastic lenses ideal for practically any frame style whether it's high fashion, supersize, wire-rim, almost frameless, or rimless.

Ideal also for sunglasses, plastic lenses can be uniformly tinted to any colour regardless of the concave or convex thickness, unlike pre-coloured corrective glass lenses that may be darker at the centre or edges.

A rapidly growing firm, International Optical Ltd. is interested in developing export markets.

Code 3-262



Polished to perfection, hard resin plastic lenses from International Optical Ltd. offer many style and safety features.

## Narrow aisle walkies with wide applications

Blue Giant Equipment of Canada Ltd., Brampton, Ontario, is helping companies plan today for future needs with its revised line of self-propelled narrow aisle "walkies."

Easy and inexpensive modifications can be made to customize the walkies to each company's changing requirements because of Blue Giant's unique modular design concept and patented straddle adjustment. If at any time the user wants to make the lifts higher or the straddles wider or narrower, it can be done by simple adjustment, removal and/or exchange of assemblies.

Blue Giant narrow aisle walkies give back the aisle space sacrificed to fork trucks with no loss of handling ease. Superbly engineered and ruggedly constructed to stand constant and hard use, the walkies offer sure, smooth performance and require minimum maintenance over a long lifespan.

The company's line includes 36 models with single, two and triple-stage masts and lift heights from 64 inches (162.56cm) to 180 inches (457.20cm). Stackers are offered in 2,000, 3,000 and 4,000 pound (908, 1,362 and 1,816kg) capacities. Reach units, featuring a heavy-duty 24-inch (60.96-cm) pantograph-type reach mechanism and tilt forks, are rated at 2,000-pound (908-kg) capacity.

All masts are built as bolt-on assemblies which can be interchanged readily in the field. Straddles are available in narrow, standard and wide sizes which are also field-interchangeable and have a patented construction allowing adjustment of each size over a consid-

erable range without removal from the truck.

Important construction features include: all welded steel chassis; an upright assembly of rolled high tensile sections with sealed bearings and adjustable brass guides for side stability; forged high carbon steel forks with a welded shaft-type carriage having sealed bearings in the mast rollers; and polyurethane drive and straddle wheels.

A spring-loaded handle mounted on the drive unit permits easy steering over a 186-degree arc. Automatic "dead man" braking and power cut-off on releasing or lowering of the handle are provided. Lift and lower push buttons on the steering handle and guarded two-speed forward and reverse travel controls are standard.

The high performance, direct-couple gear pump has a built-in check and pressure relief valve which is factory preset to protect against overload. Lowering speed is factory preset with a pressure-compensated load-sensing valve.

Maintenance is minimized by the use of oilite bushings or sealed bearings in pivot points. Inspection and service are simplified by easily exposed power train, contactor and powerpack units. A roller-equipped battery compartment permits side removal.

Many accessories and options are available for the narrow aisle walkies to meet specific handling requirements.

Blue Giant also makes a complete line of fork and pallet trucks, stackers, elevating docks, lift tables and dock levellers.

Code 3-364



The Walkie Reach is only one of 36 self propelled narrow aisle walkie stackers manufactured by Blue Giant Equipment of Canada Ltd. Space-saving, flexible and of rugged construction, Blue Giant walkies help improve cargo movement and lifting methods.



# CANADIANS ARE

continued from page 1

With more miles of coastline, more inland waterways and a larger number of lakes than any other country, Canada was a natural paradise for boating enthusiasts. And the sport really caught on.

With more than 1,000,000 Canadian families—and even more tourists—annually using these waters, Canada's boat builders had a wide range of tastes to satisfy.

Today, boat manufacturers in Canada produce everything from 1½-hp kickers, canoes and inflatable dinghies to saiboats, novelty sports craft and palatial ocean-going yachts—many of which can be found cruising the waters of the world.

Unquestionably, Canada's most popular game—at least from the spectator point of view—is ice hockey. This was an organized sport in Canada as early as 1867. The enthusiasm for the game had progressed to such an extent that, in 1893, the Governor General, Lord Stanley, offered the Stanley Cup—since then an annual and highly coveted award—for senior competition.

As common as brushing one's teeth—and certainly much more fun—is pleasure skating, an extremely popular Canadian pastime. Most Canadian children learn to skate even before they start school. Natural ice is available year round in almost all parts of the country and thousands of rinks are flooded by municipal authorities across the land.

A good example of skating's popularity is the Rideau Canal in Ottawa, Canada's capital. In winter this scenic waterway is transformed into a 5½-mile (8.9-km) long

skating rink. On a good day as many as 10,000 people of all age groups and nationalities put on their blades. Others skate to and from work, while still others use the side area of the canal as a cross-country ski trail!

Pleasure skating is an activity that leads quite naturally to special interest in ice hockey and figure skating. As a participant sport, figure skating rivals ice hockey in the number of devotees. As a competitive sport it has produced a significant number of Canadian international champions, both male and female. Persons like Lynn Nightingale, Toller Cranston and Karen Magnussen are highly regarded in international skating circles.

While many of the sports and recreational activities participated in by Canadians are the natural outgrowth of tradition and heritage, there are many other equally enjoyable sports that are the result of influence of other countries.

Canada, in fact, could be called an international sports arena, what with its cricket and baseball; lawn bowling, curling and ten-pins; golf, rugby, soccer and football; volleyball and basketball—not to mention such other more adventuresome activities as sky diving, scuba diving, hang gliding, mountain climbing and bob sledding.

And Canadian manufacturers—some of whom are represented in this edition of Canada Courier—fulfill their exacting demands. They also meet the needs of international customers, having, in 1974, exported more than \$37,000,000 worth of sporting and leisure goods!

For fun—and fitness—in a variety of leisure activities or for the best in sports and recreational equipment, the place to look is Canada.



## A boat for all reasons

Lightweight, durable, safe and portable—that's the Mirage 2, the perfect boat for fishing, duck hunting, exploration, scuba diving, water skiing and just plain fun. An inflatable craft made of Nylon 840 impregnated with Neoprene and Hypalon, the Mirage is manufactured by Nautylatex Canada Ltd. of Trois Rivières, Quebec. With a tensile strength that makes damage virtually impossible, the Mirage is resistant to aging, wear, folding, sea water, mineral oils, petrol and trichloroethylene. Easily stowed in the trunk of a car, the Mirage can be assembled and inflated—in only 12 minutes—to a length of 15 feet six inches (4m, 15.2cm). With a load capacity of 1,350 pounds (613kg), it is capable of carrying six passengers. Additional features include a rigid two-piece keel for increased seaworthiness and extended stern cones to prevent bow rising under full power. Maximum horsepower is 40. Nautylatex Canada's inflatables—which include a dinghy series and five Mirages—can be found in the Arctic, the Mediterranean and even the Galapagos. Code 4-262

## Pelicans prove popular



This popular water bird from Eskay Plastics Ltd. of Chomedey, Laval, Quebec, is the Pelican EP-78. The two-seater pedal boat weighs only 115 pounds (52.2kg), can be car-topped, and measures 92 inches (234cm) long, 61 inches (155cm) wide and 24 inches (58cm) deep. An added option is the collapsible aluminum-vinyl canopy for sun protection. With the pedal boat it's possible to enjoy vigorous exercise using pedal power or to cruise leisurely with a lightweight, pollution-free electric motor. Another Pelican is the 12-foot (4-m), 55-pound (25-kg) canoe. Both craft are unsinkable and, with polyethylene hulls, have built-in ruggedness. The canoe is a fisherman's delight—wide hulled, buoyant and with the extra strength of aluminum ribs and a cross bar. Other products from Eskay Plastics include 15 and 17-foot (4.5 and 5.2-m) canoes and a 12-foot (4-m) flat-hulled fishing boat. Code 4-362



## Campbell cuts the handicap

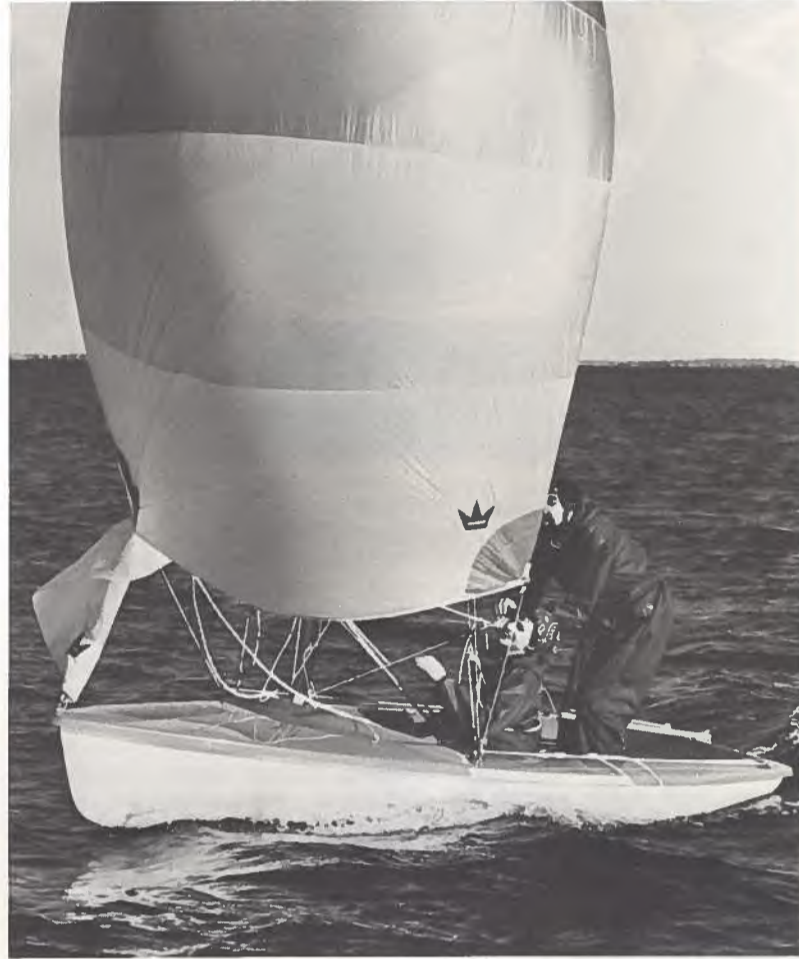
High standards in all its products have earned Campbell Manufacturing Company Limited an enviable name among international golfing enthusiasts. The Downsview, Ontario, company's "Dyna-Max" series of golf clubs are extremely popular. Designed for the low handicap golfer, they have concentrated power at the "sweet spot" for maximum distance and performance. The irons, with stainless steel investment (low wax process) cast heads, are the ultimate in precision design, lie, loft, weight and distance. Additional features include dynamic shafts—the personal choice of touring professionals; red mahogany finish; oval-shaped wood heads with brass back weight; and rubber or cord classic grips. Matched and registered sets are available in regular or stiff grips. Other Campbell golf club series include the "Uni-Max" with weight concentration at the heel and toe to reduce torque at impact and to assure straighter shots; and the unique "Dunedigger"—designed to spank the ball out of sand traps. Clubs for men, women and children are included in the Campbell product line, as are golf bags, tees and balls made with virtually cutproof Surlyn covers and available in 80, 90 and 100 compressions. Code 4-462

# THE GOOD SPORTS



## Sportsmen's oars presented with pride

Should success be the measure of a Sportsman's Pride, then sure winners are the dorey racing oars crafted by Dafron Industries Limited of Blockhouse (Mahone Bay), Nova Scotia. They are also the pride of Sonney and Garnet Heisler, International Dorey Racing champions for 20 consecutive years! Accounting for the success is the Nova Scotian craftsman's pride in making such an oar: crafted of a single piece of slow growth eastern spruce, carefully selected and designed for ultimate light weight and strength — just as they have been since the days of Canada's famous racing schooner, the Bluenose. Sportsman's Pride is a whole family of oars and paddles, including standard sporting (right) and sculling oars and beaver tail, double bladed and utility paddles. All are made from a single piece of spruce or ash—spruce for its lightness and durability; ash for its high strength and ruggedness. Most oars and paddles are finished in a high quality clear marine varnish. They can also be finished in gold varnished or plain unvarnished. Code 5-162



## Sleek craft is fast, responsive

Coded for sailing pleasure, the Code 40 is an attractive new 13-foot (4-m) sailboat created by marine architect André Cornu for Nautitec Inc. of Saint-Esprit (Montreal), Quebec. Primarily intended for use by beginners and sailing schools, this sleek craft also meets competitive requirements and has been enthusiastically received by the Canadian Yachting Association. With a beam of 5.1 feet (1.6m) and a maximum weight of only 215 pounds (98kg), the Code 40 is fast and responsive and planes beautifully in moderate wind conditions. Featuring sophisticated lines, a fibreglass reinforced plastic hull and unsinkable flotation chambers, the Code 40 is an airtight, safe and durable pleasure craft. Inexpensive, the Code 40 comes fully rigged with a high quality Fogh sail, mainsheet traveller and track, complete trapeze rigging, spinnaker rigging and stainless steel standing rigging. Only one year old, the Code 40 is already popular in Canada and several areas in the United States. Code 5-262



## Cutting a fine figure

Manufacturing skates since 1891, Daoust Lalonde Inc. of Montreal, Quebec, combines its years of experience with today's technology to build skates that are highly popular with professional hockey players and figure skaters. Top of the Daoust hockey line is the National 301 professional model for which internationally known hockey players offered design suggestions and tested the finished product. Basis of the boot is nylon mesh—the same material used in bullet proof vests. The boot also features a waterproof nylon sole, unbreakable Cyclocac toe protector and leather insoles with an orthopedic arch support. These cut-resistant, almost indestructible materials are incorporated in a design that stresses comfort and function. Wide lacing—the key to a snug fit and previously available only in custom-made skates—is now a feature of all seven models of the Daoust hockey skate, from pro to recreational. Daoust Lalonde figure skates are also developed with the assistance of top skaters. The Gold Label is a low profile boot with double leather sole, solid leather counter and built up leather heel. Blade is a top quality Mitchel & King. Vinyl sole and long counter are features of Daoust's medium and low priced lines. Code 5-362

## Stepping warmly into winter

Stepping into winter—warmly—is a foot-happy experience when wearing boots manufactured by Maple Leaf Shoe Co. Ltd. of Montreal, Quebec. Inspired by the Mukluk—footwear worn by the Eskimo—the complete line of Maple Leaf boots incorporates durable new fabrics that hold up to the harshest weather conditions. Fur, a traditional means of keeping warm, is lined with skin or foam and attached to a light, long-wearing sole of virgin or remilled crepe. A new bonding system ensures a waterproof seal between sole and upper, while all inside seams are given a water resistant coating. Seams are of high strength nylon thread, stitched—under tension—to avoid stretching. Maple Leaf boots are also made from imitation fur (which looks like the real thing and is just as functional), full grain leather, horse hide, leather-like vinyl and nylon. Boot heights vary from five inches (12.7cm) to 15 inches (38.1cm), each suitable for different purposes and conditions. Styles include lace, buckle and slip-on with many variations in decorative trim. Code 5-462



## When the priority is protection . . .

Cooper of Canada Limited achieves it. The world's largest manufacturer of hockey protective equipment provides a complete line of gloves, shin-guards, elbow pads, shoulder pads, hockey pants, helmets, face protectors, hockey sticks and goalkeeper equipment. One of the Toronto, Ontario, company's newest products—which meets the tough safety standards of the Canadian Standards Association—is the SK600 hockey helmet. Completely adjustable for length, width and depth, the SK600 provides the perfect fit for all players. Now the official supplier of approved equipment to the National Hockey League, Cooper of Canada Limited is recognized internationally and exports to the growing hockey market around the world. Code 5-562

## Under foot in 14 countries



Electric mats that are opening automatic doors at supermarkets, airports and hotels in more than 14 countries throughout the world are designed and manufactured by Lanson Mats (Canada) Ltd., London, Ontario. Fully moulded of pure vinyl plastic, Lanson electric carpets are waterproof and impervious to oils, alkalines and most acids. For safety reasons the carpets are most commonly used on A.C. voltage below 48. The operating current may be from a few milliamps to approximately 10 amps. Available in approximately 41 special sizes and for surface or recessed application, the 1/2-inch (1.3-cm) thick mats come in standard colours of natural brown, light grey and black. Other colours are available on request. In addition to activating automatic swing and sliding type doors, Lanson electric carpets also activate automatic gates, entrance alarms, burglar alarm systems, cash register controls and other security devices. Countries in which Lanson electric carpets are used include Australia, Norway, Sweden, Denmark, West Germany, Belgium, Switzerland and South Africa. Code 6-133

### VIP oil filters

Very Important Protection — that's what Hastings Ltd., of Scarborough, Ontario, offers with its new prestige line of oil filters. Available for most automobile makes, Hastings' filters promise cleaner oil between changes. Built to rigid specifications, several of the larger sizes have the added bonus of more filtering area and dirt holding capacity than the same size filter using paper.

The depth pack found in V.I.P. filters is a blend of springy, waxy, raw cotton fibres that possess a unique electrostatic attraction for dirt and a high resistance to attack from acids and water. Pressure packed in a dense uniform pattern to create literally millions of microscopic openings, these fibres allow the oil to go through but not the dirt—it is trapped and held through the entire depth of the filter.

Hastings has been manufacturing its line of fully guaranteed filters for domestic use and is now interested in developing export markets.

Code 6-364

## Staying cool when lines are hot

# Safety on live overhead power equipment

Well-known in Canada since 1843, Smith Bros. Motor Bodies Ltd. of Toronto, Ontario, has recently mounted an extensive export sales program to make its products known internationally.

Since its inception, the company has kept pace with customer demands whether they were for horse-drawn wagons and carriages, modern custom-built limousines and truck bodies, or such sophisticated aerial devices as the Polecat® and Hotstik®.

The Hotstik® is an aerial device with Epoxiglas insulated upper booms and lower Epoxiglas insert that enables a two-man work crew to service, repair or install new equipment on live overhead electrical power lines and to clean or replace insulators, transformers and cross-arms safely.

For use in construction and servicing overhead power lines, the Pitman Polecat® digger derrick, manufactured under licence by Smith Bros., enables a crew of two men to dig holes and place hydro poles in position to support over-

head power lines. The Polecat®, with optional Epoxiglas third boom and bucket, can also double as an aerial device so that personnel can install, service, repair or replace equipment on live overhead electrical power lines.

A large order for Polecats® and Hotstiks® was placed recently by a utility company in Brazil and to date Smith Bros. has delivered a total of 86 units including 22 Polecats® and 64 Hotstiks® for mounting on chassis provided by the customer.

The company's line of products also includes specialized automotive bodies and cranes in addition to the cranes produced for utility and construction industries.

Shipments of Canadian-made truck mounted cranes and bodies have been made to the Dominican Republic and Bolivia and a recent order from Cuba for 73 trucks with bodies, accessories and aerial devices is currently being filled.

Smith Bros. Motor Bodies, since 1970, has been part of Wajax Limited, Toronto, Ontario. Code 6-457

## Nothing beats a Royal Flush!

With a product called the Royal Flush, an Ontario company appears to have a winning hand in the sanitation market. Chartered Leasing and Acceptance Ltd., Burlington, makes out-house-type portable toilet facilities of a superior nature.

This toilet—unique in the sanitation field—is odour-free, completely hygienic and flushable, making it acceptable almost everywhere: golf courses, ski slopes, parade routes, campgrounds, race-tracks, exhibitions, construction sites, underground mines—even outdoor wedding receptions or company picnics.

The Royal Flush is available in two models: an eight-foot (2.4-m) high cabana with peaked translucent skylight roof; and a five-foot (1.5-m) high cabana with no roof for confined spaces such as mines or highrise buildings where the larger model would be too tall to fit into the elevators used to transport them to the site.

The key to the system is a patented pump and a 70-Imperial gallon (319-litre) holding tank. Since it is a recirculating toilet, no sewer or water connections are required and for normal operation no hydro connection is needed either. The Royal Flush operates by a foot pedal conveniently placed so that minimum steady pressure ensures complete flushing. The single action pump is automatically reprimed on the up stroke of the pedal through a unique filtering system. Thorough cleansing is ensured each time because the same amount of flushing liquid is delivered in each down stroke, at the correct pressure.

Once primed with 10-Imperial gallons (45.50-litres) of water and RF 100 (a special chemical provided by Chartered Leasing to control bacteria and odour and break down all matter to a liquid or semi-liquid form) the toilet is ready for use. No additional water supply is needed to operate the system and unit capacity is approximately 1,500 usages before pump-out is necessary. In normal use the Royal Flush may require pumping out only once a month. This is a particularly good time-saver on construction sites because it reduces the number of



The Royal Flush, available only from Chartered Leasing and Acceptance Ltd., of Burlington, Ontario, is a self-contained, free-standing, flushing toilet that can be used almost anywhere.

times the unit must be brought down to ground level for servicing.

Winter presents no special problems for the Royal Flush—brine is substituted for water where temperatures dip down to -20°C (-6°F). For weather colder than this, immersion heaters are available for the holding tank and special antifreeze is used when hydro or suitable power is not available at the site.

All components except the pump, flush-pedal, pop-up thermo-plastic seat and assembly rods are made of lightweight, easy-to-clean fibreglass reinforced polyester (FRP).

The three cabana walls are also made of FRP-covered plywood and are individually replaceable should damage occur. All other com-

ponents are molded by "chopper gun" spray up, including the door. The step-up holding tank is the floor of the cabana and the non-staining bowl is a three-piece fibreglass molding.

The Royal Flush, which can be purchased or leased from Chartered Leasing, was developed by an Ontario physician who was concerned about unsanitary toilet facilities at some construction sites and it has been designed, tested and approved by the Ontario Research Foundation.

The Royal Flush has aroused great interest from all parts of the world and the company is anxious to respond to all export inquiries.

Code 6-239



On location in Brazil, linemen test the first of 22 Polecats® ordered from Smith Bros. Motor Bodies Ltd. of Toronto, Ontario.

# Moveable pool platforms put everyone in the swim

A versatile swimming pool that is ideal for beginners and the handicapped as well as for general recreation, competitions, and athletic training, is made by Dominion Aluminum Fabricating Ltd., Mississauga, Ontario.

Called the Vari-Pool, it uses moveable pool floors and bulkheads.

Intended primarily for large municipal and park recreational pools, educational, medical and athletic training facilities, each Vari-Pool is custom designed to accommodate the owner's individual needs. And in some cases it is possible to have the moveable floors, made of aluminum or fibreglass, installed in existing pool facilities.

Either the whole floor or just a portion of it can be moveable. Mechanically or hydraulically powered, it can be raised above the surface of the water so other social or athletic activities can take place on the surface area. When it is necessary to get to the area beneath the floor, the platform can be disconnected from the lifting mechanism and floated to another section of the pool. Reversing the steps places the moveable floor back into operation.

While the platform is raised, wheelchairs or stretchers can be rolled onto it and the platform gradually lowered to the depth that suits the capabilities of the user.

When the total pool floor is moveable, the platform can be raised above the surface of the water and the pool left unattended without danger. By pushing a button, the water depth can be adjusted from shallow to deep as required.

The public's safety is an important consideration not only in the design of every Vari-Pool but in its construction: all exposed surface

areas have a non-slip surface and the maximum dimension of any opening is 1/4-inch (0.64-cm) to ensure that no small fingers or toes get caught or cut.

A removeable safety barrier, attached to the partial moveable floor, prevents non-swimmers from venturing into depths beyond their capabilities. In addition, the edges of the partial moveable floor not surrounded by the pool walls have a hinged skirt which forms a barrier to prevent swimmers from going under the platform and getting into difficulties.

Extra safety measures include a key operated control panel, normally located in the pool manager's office, that allows access only to those designated to operate the platform.

Pools equipped with moveable bulkheads allow greater flexibility in the training of athletes since swimmers can practice in conditions similar to those they will encounter in a meet.

Any competition pool with a length greater than 25 yards or 25 metres can take full advantage of the versatility offered by moveable bulkheads.

For example, a 51-metre pool with a 1-metre-wide bulkhead can be many pools in one: by relocating the bulkhead the 51-metre pool can be transformed into a 15-metre pool, a 25-yard (22.86-m) course, two 25-metre pools, or a 37 1/2-metre pool.

Like the moveable floors, Vari-Pool bulkheads are custom designed from aluminum. They can be made to any dimensions up to 30 metres long free-spanning. Completely self-supporting, even when water is not in the pool, the D. A. F. bulkhead is



Versatile and economical best describe swimming pools equipped with moveable bulkheads from Dominion Aluminum Fabricating. By relocating the bulkhead, a 51-metre pool can be transformed into a 15-metre pool so athletes can train in the exact conditions they will find in competition pools.

designed to give the swimmer the same feeling as that experienced when turning from the actual wall of the pool.

All designs meet government codes, as well as those of amateur sports bodies when required. Special centering wheels located at each end of the bulkhead prevent it from going askew during relocation and jamming into the pool wall.

Anchors for water polo nets, lane dividers, starting blocks and attachments for touch pads can also be included in the plans when specified. Code 7-130

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# Transformers to meet every need



This 15KV class power transformer in the final stages of assembly is one of many in a wide range of dry type power and distribution transformers designed, developed and manufactured by Polygon Industries Limited of Toronto, Ontario. The company's single and three phase dry type distribution transformers range from 5KVA to 5,000KVA and meet all application requirements, including special enclosures, drip proof, hospital, marine and outdoor. The single and three phase power transformers are in ranges from 500KVA to 4,000KVA. They can be core and coil or enclosed to meet such special requirements as enclosures for switch gear. In answer to a need for non-oil or non-liquid filled transformers, Polygon recently developed a range of high voltage—25 and 34.5KV class—dry type transformers. These units have the advantage of inexpensive indoor installation since no concrete pads or fences are needed. They are also specially insulated, making them impervious to dust and dirt and allowing them to be used in such areas as mines, foundries and chemical plants. In addition to providing standard transformers, Polygon also designs and manufactures complete load centres and unit substations. The company exports to the United States, South Africa, Cuba and the West Indies and seeks additional international markets. Code 7-257

## trade inquiry form

More information is available without charge on Canadian products and services mentioned in Canada Courier. List the items below which interest you, complete the form, cut out and mail it to the following address:

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## Teaming up for fun and games gives youngsters training, too!

So that the younger set can capture the team spirit, Maxima 2000 Inc. of Ste-Foy, Quebec, has designed Barboul — a simple, ingenious game that develops children's creativity while stimulating intelligence and imagination.

Barboul consists of two basic components: a smoothly finished sphere and a connecting rod that can be put together to make two basic structures—one triangular, using a 60-degree angle to make an equilateral triangle and the other cubic, using a 90-degree angle to make squares.

Designed for children at the nursery or kindergarten level, and for use at day care centres, Barboul teaches children how to socialize. Because of its size they must work together to assemble it and since the children design their own structure they must think and plan how they want it to look.

Since it is scaled to a child's height, Barboul creates a true, life-size environment. Its big advantage over other structures is that the fun doesn't end once the structure is assembled. After completing it, the children can live with their creation by going inside it, around it and climbing on top of it.

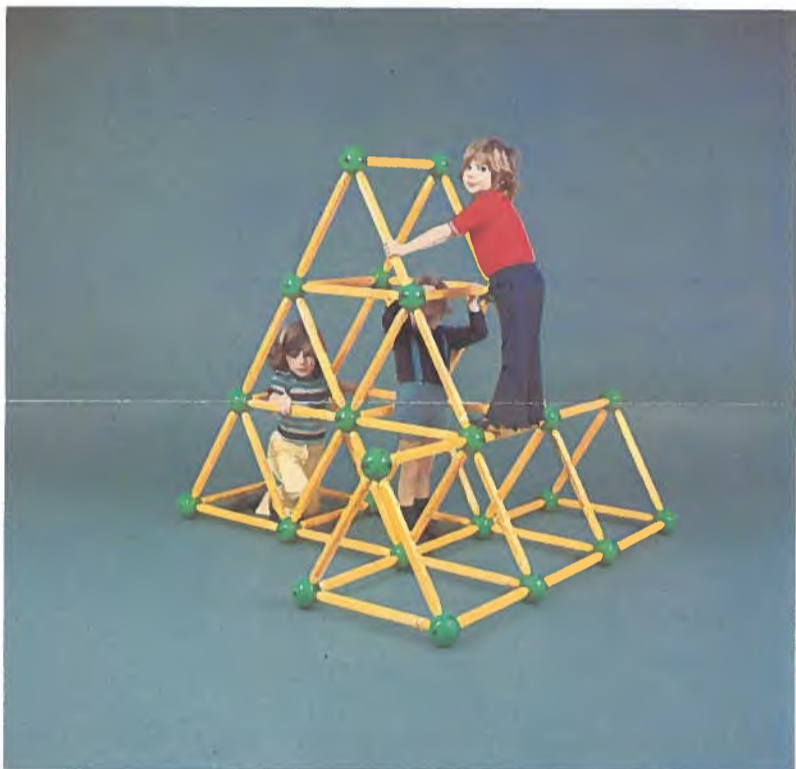
Barboul is of sturdy construction and can be put up and taken down by the children at will. Assembling it requires both concentration and dexterity. After the connecting rod has been inserted into one of the spheres the child must then slip the wrench around the hexagonal nut and turn it until the connecting rod is tightly fastened.

All components are made of a very strong plastic and are washable. Barboul comes in an attractive red and orange colour combination and stores easily in only two square feet (.1858m<sup>2</sup>) of space. The basic set is made up of 109 pieces including: 32 spheres; 65 rods; 8 plain panels; and 4 wrenches.

Additional panels of different textures can be added to the basic set for more variety. Plain surface tops can be used either as table tops or drawing boards; acrylic tops used as mirrors; and cork tops can be used as bulletin boards.

In addition, Barboul can be made into an information centre, work table, puppet theatre, television studio backdrop, or artist's easel.

Maxima 2000 currently exports to the United States and France and is interested in developing additional markets. Code 8-162



Whether they are going under, over, or through Barboul, children learn to play together while increasing their coordination and dexterity.



Pretending is more fun with Barboul because the variety of structures children can make is limited only by their imagination. Here Barboul is a tour bus but on other days it might be a house, art exhibition kiosk, maze or jungle-gym.

## In wood-cutting world Windsor has the edge

Everywhere wood is cut, Windsor is sold—and that includes some 70 countries whose lands range from tropical jungles to frozen terrains.

The Windsor Machine Company Limited of Burnaby, British Columbia, is a leading manufacturer of chain saw cutting attachments and accessories.

Today, Windsor parts—saw chain, guide bars and sprockets—find their way into 75 per cent of the new saws built in Europe and North America. And 95 per cent of the world's saws can be fitted with Windsor products.

When it comes to sprockets, Windsor manufactures more than 180 different types and sizes in every pitch the industry requires. With positive drive and engineered for maximum chain flotation, Windsor sprockets reduce chain wear, last longer and give better performance.

Sprocket tooth tips are machined for perfect matching with chain side straps. Drums are drawn over steel dies to ensure perfect roundness and tolerance to the clutch.

Sprocket and drum are one unit for accurate pitch control. The sprocket is case hardened to maximum depth for longer life and there is ample room on the sprocket face for chain flotation and automatic self-centering to bar entry.

Windsor also produces more than 170 different chain saw guide bars with more than 5,000 bars of all types and sizes being shipped daily.

The company's chain saw division, which has doubled its capacity in only four years, produces miles of fine line chain each day. This line features all popular pitches from 1/4 to 2 1/2 inches (0.635 to 6.4cm) and includes Windsor's Hevi-Duty line of nico alloy saw chain.

A new process developed by Windsor metallurgical engineers to deep-heat, "aus-temper" nickel alloy steel is used in each Hevi-Duty saw chain. The special process adds toughness and longer life to the saw chain and extends the stay-sharp life of the cutter.

Constantly engaged in research

and development, The Windsor Machine Company not only manufactures chain saw cutting attachments, it also develops the specialized tools necessary to make these products.

The Windsor Loop-Maker, for instance, is now being marketed to other manufacturers who appreciate the simplicity and efficiency of its chain-breaking and electric powered spinning capability.

The Windsor Machine Company sells its products to companies around the world. Its own sales subsidiaries are among its best customers, marketing the Windsor branded cutting components and accessories to retail distributors on five continents.

The sales subsidiary responsible for Canada, the Commonwealth and Pacific Rim countries is Windsor Metal Products Limited; Waco Industries Inc. handles the United States market and Windsor Industries S.A. is the sales subsidiary for Europe, the Near East and Africa.

Code 8-203



Trees are felled cleanly and easily when the saw used is equipped with saw chain manufactured by The Windsor Machine Company Limited. The company's saw chain, guide bars and sprockets are used in more than 70 countries throughout the world.

## New biofeedback device aids in stress control

Reducing tension is a fingertip exercise with the Galvanic Skin Response unit, an effective yet inexpensive biofeedback training device for people wishing to learn tension reduction techniques. Manufactured by Thought Technology Ltd. of Montreal, Quebec, the GSR 1 is the most compact biofeedback machine yet developed. Attractively packaged in a walnut case, the pocket size unit consists of sophisticated solid state electronics and a standard nine-volt battery. On the outside are gold plated finger grooves and a tone control wheel. There are no external attachments such as cumbersome and anxiety-producing electrodes. The device is activated simply by placing the tip of the index and third finger in the two grooves. This activation emits a tone which varies in pitch according to one's inner level of tension or relaxation. The idea is to consciously reduce the pitch, thereby gaining greater mental-physiological control over one's inner state. The lower the pitch becomes the more relaxed is the user. The GSR 1 is widely used by the general consumer, educationalists and people involved in the fields

of humanistic psychology, parapsychology, meditation and personal awareness. Primarily intended to help people relax, the unit has proved useful in the treatment of insomnia, phobias, hyperhidrosis

(excessive sweating), hypertension and other stress related illnesses. Thought Technology Ltd. is interested in exporting the GSR 1 throughout the world.

Code 8-362



The device was recently awarded a silver medal for excellence of invention at the 4th Exhibition of Inventions and New Techniques in Geneva, Switzerland. The medal was awarded for the totally new approach in allowing instant monitoring of the mind and body.