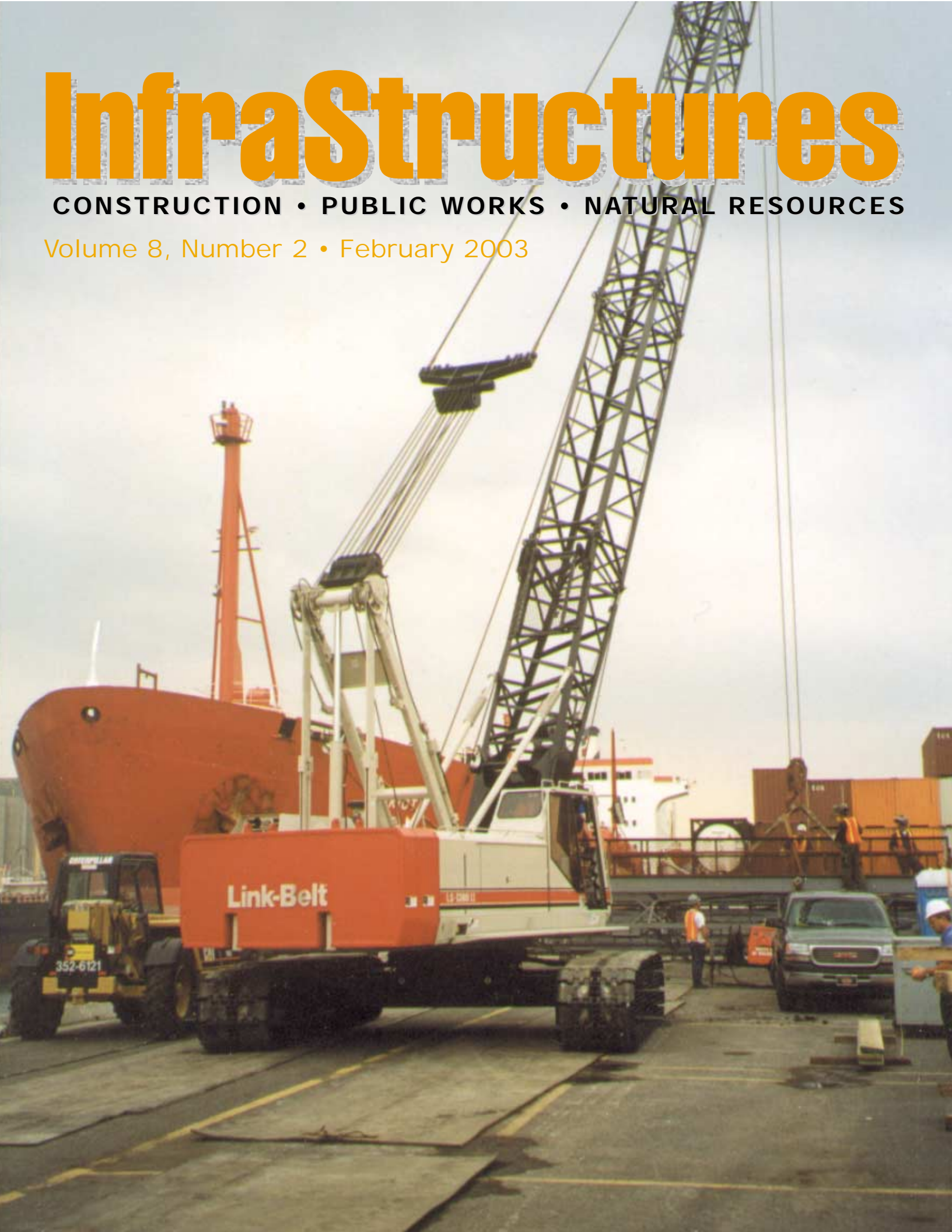


# InfraStructures

CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

Volume 8, Number 2 • February 2003



# Grove and Guay Inc., An Enduring Relationship..

Guay Inc. started out in Quebec City in 1964. Since then, it has grown to become a major player in the crane rental industry, with seven locations serving Quebec, parts of Ontario, the Atlantic Provinces and northern United States. Over half of the Guay fleet of 320 cranes that range from 8 tons to 880 tons, are Grove. Recent additions include two 15 tons industrial cranes model YB4415, four 45 tons model TMS-745E with 110' main boom and 56' jib, four 60 tons cranes, model RT760E with 110' main boom and 96' jib, one 120 tons crane model GMK5120B with 167' main boom and 112' hydraulic luffing jib, and one 350 tons model GMK6350 with 197' main boom and 200' luffing jib and 192' jib.

As shown on the picture, a number of their Grove RT755E rough terrain cranes were at work last summer on the Jacques-Cartier Bridge in

Montreal (Quebec).

Richard Ross, Guay Operating Manager, commented on their Grove truck cranes: "Our crane operators are happy working with our new TMS745E's. They like the air ride suspension system which makes for excellent highway travel." Ross added, "We've been pleased with our Grove machines and actually have one that is 26 years old and we can still count on it."

Grove has an unsurpassed North American and International presence with distribution in more than 125 countries on six continents plus industry-leading manufacturing and product development facilities and partners in



North America, Europe and Asia. Grove products are marketed as Grove® Crane, National Crane, and Grove® Manlift®. Grove Worldwide

## Liebherr Tower Cranes Used as Art Objects

Conceived as moving artworks to reflect the show's topic of "Nature and Technology", three Liebherr tower cranes with colorful wind socks attached to their hooks were attracting attention at the garden show staged by the German State of Baden Württemberg in Ostfildern last summer.

For this exceptional task, two 32TT fast-erecting cranes and one 91EC top-slewing crane were used. Each crane had a cross-member on the jib which could be raised or lowered with the hook, and each cross-member carried seven wind

socks, with the colors neon yellow and neon red alternating. When there was no wind, the cranes slewed to the left and right alternately at different speeds. The slewing action filled the wind socks with air – an impressive sight. If a predetermined wind speed was reached, the cranes and their jibs moved into the wind at a 90-degree angle so that the wind socks



were struck frontally by the wind and filled with air. Liebherr-Werk Biberach GmbH

## Wireless Multi-Sensor Indicator for Mobile Cranes

PAT America is pleased to announce the addition of the PRS 75 EZ wireless multi-sensor indicator to its line of information and monitoring systems for mobile construction equipment. The PRS 75 EZ is the next generation of wireless systems designed to meet the requirements of the crane owner/operator on any size mobile crane.

The PRS 75 EZ's flexible design allows for monitoring single or multiple sensor inputs, including combinations of load, anti-two block, boom angle, wind speed, etc.

Pre-set limits on the load, wind speed and all

geometric variables can be set through the user-friendly console. When these limits are reached, the alarm warns the operator with an audible alarm and flashing LCD display. The inputs for all sensor combinations are displayed on a single large LCD display.

The PRS 75 EZ installs quickly and easily in the field. It can be used on any size mobile crane. It can monitor main and auxiliary lines with an operating range of 500 feet and meets ANSI B 30.5 requirements for load indication.



PAT America Inc.

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This electronic version of InfraStructures is made available for the sole purpose of giving our English speaking readers a taste of the original printed version of the magazine.

We will try to publish as much of the editorial content of the printed version as it is possible given the technical limitations.

## Welcome to InfraStructures

*Until recently, InfraStructures has been read mainly by French speaking users of heavy machinery.*

*Over the last seven years, InfraStructures has become a leader in its field. First by becoming the only magazine covering all aspects of the industry published in French in Canada. Then by being the first to publish all its editorial content on the web, and also by being the only construction magazine, published in French, having a significant readership outside the Province of Quebec.*

*For many years, we have received requests for an English version of InfraStructures. Technical limitations, and the lack of advertising revenue have prevented us from publishing such a magazine in print. Now, with the extent of the use of Internet by professionals, we feel that the time has come for a portable digital file (.pdf) version of InfraStructures in English.*

*While the content of the English version differs slightly from the original, most of the important news will be published in English. In the near future, more and more of the content of the original will be translated into English.*

*With over 500 visitors per day on average, spending over 13 minutes per visit, the website of InfraStructures is one of the most important sites of this kind. More than two thirds of the visitors come from outside Canada. With the English version of the magazine available on the web, visitors from outside will find it easier to enjoy the magazine.*

*Hoping to hear your comments,*



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Cover page :

A Link-Belt LS138H-II crawler crane at work on a foundation rehabilitation project involving pile driving at the Port of Montreal (Quebec). The machine is owned by Hervé Pomerleau Inc., from Saint-Georges (Quebec).

Link-Belt cranes are distributed in Quebec by Les Équipements Lefco Inc., based in Laval (Quebec)

# In the News...

## The Manitowoc Company Completes Sale of Manitowoc Boom Trucks, Inc.

The Manitowoc Company, Inc. recently announced that it has completed the sale of Manitowoc Boom Trucks, Inc. to Quantum Heavy Equipment, LLC, a Delaware limited liability company, for cash. The sale was required by the Department of Justice in order for Manitowoc to

acquire Grove Worldwide. The final sales price was not disclosed.

As part of the transaction, all of Manitowoc Boom Trucks' assets and liabilities were transferred to Quantum Heavy Equipment, which, as required under the consent decree with the Department of Justice, has the right to use the "Manitowoc Boom Trucks" brand name for up to

three years after the closing.

"While we are disappointed to sell this business, with the completion of this transaction all matters relating to the Grove acquisition are now complete," said Terry D. Growcock, Manitowoc's chairman and chief executive officer.

Quantum Heavy Equipment is a subsidiary of Quantum Value Partners, LP. Quantum Value Partners acquires equity interests in small- and middle-market North American companies operating in the manufacturing, distribution, and service industries, with the goal of achieving long-term capital growth. In addition to acquiring Manitowoc Boom Trucks, Quantum Heavy Equipment was organized to create a strategic platform for additional acquisitions and future growth in the equipment marketplace.

The Manitowoc Company, Inc.

## Roctest is a Finalist in Korn/Ferry's and Commerce's "Excellence in Corporate Governance" Contest

Roctest Ltd. announces it is a finalist in the "Excellence in Corporate Governance" contest organized by Korn/Ferry and Commerce magazine. The role of Roctest's Board of Directors in corporate governance, its independence and its strategic counsel were assessed and highlighted by a jury of Quebec's well-known business personalities.

The jury's selection was based on a financial analysis of publicly listed Quebec companies and the interviews conducted by Korn/Ferry's consultants focusing on identifying the best corporate governance practices. The prizes will be awarded on January 28, 2003.

Roctest's Board of Directors is comprised of: Jacques Allard, Chairman of the Board and Chair of the Corporate Governance Committee; Michel Bégin, President and Chief Executive Officer of Roctest; Richard Bourget; Normand Bourque, Chair of the Human Resources Committee; Jean-François Capelle; Mrs. Claude Delâge, Chair of the Audit Committee and Senior Investment Consultant, Fonds de solidarité du Québec; and François Gonthier, Chief Technology Officer, ITF Optical Technologies.

"This nomination highlights the quality of Roctest's Board of experienced and mostly external Directors. Each director provides the Company with insightful, yet complementary expertise," pointed out Jacques Allard, Chairman of the Board.

Roctest Ltd

## U. S. Steel to Acquire National Steel Assets

United States Steel Corporation recently

## A New Bobcat on the Prowl



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announced that it has signed an Asset Purchase Agreement (APA) with National Steel Corporation (National) to acquire substantially all of National's steelmaking and finishing assets for approximately \$950 million, which includes the assumption of liabilities of approximately \$200 million. Net working capital will account for at least \$450 million of this amount. With these assets, U. S. Steel will have total annual raw steel production capability of approximately 25 million tons, making it the fifth largest steelmaker in the world.

The transaction, which is targeted for completion early in the second quarter of 2003, is contingent on the successful negotiation of a new labor contract with the United Steelworkers of America, the approval of the bankruptcy court and other customary regulatory approvals.

United States Steel Corporation

### 2002 housing starts best since 1989

"2002 ended on a high note, posting the highest level of yearly starts since 1989, thanks to low mortgage rates, growing employment and increasing incomes," said David Weingarden, Senior Economist at Canada Mortgage and Housing Corporation's (CMHC) Market Analysis Centre. "Total housing starts for 2002 are an estimated 204,857, representing a growth rate of 25.9 per cent, compared to 2001, the highest annual growth rate since 1983."

The seasonally adjusted annual rate(1) of housing starts in Canada in December was 198,500, 6.7 per cent lower than November's revised(2) rate of 212,900 units.

Urban single starts rose 0.7 per cent to 105,400 units from 104,700 units while urban multiple starts fell 17.9 per cent to an annual rate of 69,200 units from 84,300 in November. Rural starts in December were estimated at an annual rate of 23,900 units.

Estimated actual urban housing starts for 2002 are 25.9 per cent higher than for 2001 (179,082 units compared with 142,280 units). The single-detached market increased 31.7 per cent while multiples increased 18.7 per cent.

Canada Mortgage and Housing Corporation

### SNC-Lavalin Awarded Urgent Water Project in Algeria

SNC-Lavalin International Inc. has been awarded a CDN\$ 96 million contract by the Algerian Agence Nationale des Barrages to carry out an emergency water project for the city of Skikda, 400 km east of Algiers.

"The project has a spring deadline, so we are on a tight schedule," said Sami Bébawi, Executive Vice-President, SNC-Lavalin. "We have an excellent team that has the knowledge and experience

to carry out a project of this magnitude within the required timeframe".

"The work will be carried out in two phases," said Raymond Fortin, Senior Vice-President, Water Sector, "The first, and most urgent phase, involves designing and building a system to collect brackish water from 10 industrial wells, a 14,000 m3/day reverse osmosis treatment plant, a buffer tank and an uptake station. The second phase includes building a 50,000 m3/day floating pumping station, a 120 metre-long transmission

main leading to the foot of a dam, a 50,000 m3 uptake station to lift the water to a new 500 m3 storage tank, a 44 km-long gravity duct and all related electrical equipment and automatic controls".

SNC-Lavalin

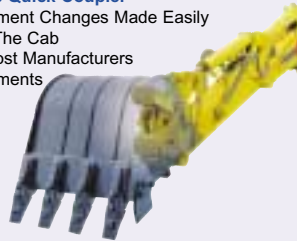
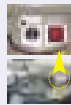
### Resin Systems Signs Power Pole Distribution Agreement For Ontario

Resin Systems recently announced that it has signed an exclusive agreement with Harwell

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Hesco Electric Supply Co. Ltd. for the distribution of power poles and light standards in Ontario. In addition, Harwell Hesco has secured first Right of Refusal to build a facility in Ontario for the manufacture of utility poles and light standards.

Harwell Hesco is a full line stocking electrical distributor, which has been supplying its Industrial, Original Equipment Manufacturers, Institutional and Contractor customers since 1957. As an ISO registered company it has stocking branches in Toronto, Barrie, Markham,

Hamilton, Burlington and St. Catharines. The company services over 2000 customers throughout Southern Ontario.

Harwell Hesco was a major investor in Resin Systems' recently completed and oversubscribed \$3 million financing.

Harwell Hesco President, Laurence Vassallo in commenting on the agreement stated, "Harwell Hesco Electric Supply and its two divisions, Hesco Electric and Electric Depot are pleased and excited to be part of the Resin System team. RSI

has a product that we believe can act as a replacement for wood and/or steel in a number of various industrial products. We are convinced that the Version resins bring the qualities of superior strength and cost effectiveness to our industry. As an Exclusive Distributor for the Province of Ontario, we and our 90 employees are ready and able to create demand for RSI's products for the hydro and utility markets."

Mr. Vassallo added that Harwell Hesco has already identified a site for a manufacturing facility.

RSI President and CEO Greg Pendura stated that, "We believe it is a testament to the potential of our revolutionary new product line for the hydro and utility sectors that an established and respected company such as Harwell was attracted to play a key role in RSI's initiatives. We are particularly gratified that Harwell has become a significant shareholder in RSI."

Resin Systems Inc. is a chemical technology company that is actively engaged in the commercialization and further development of its proprietary line of unique, polyurethane based, composite resin systems under the Version brand name. RSI's common shares are listed on the TSX Venture Exchange under the trading symbol "RS".

Resin Systems Inc.

### New Smooth Tracked Machine Unveiled at Minnesota Green Expo

ASV Inc. offered a sneak preview of a unique all surface loader that does not harm turf during the Minnesota Green Expo at the Minneapolis Convention Center last January.

The R-Series Turf Edition™ has smooth, green, rubber tracks that allows the equipment to leave grass virtually untouched, while also providing excellent traction for digging and grading. ASV, which last year was first to market with a rubber-tracked competitor to mid-sized skid-steers, is again first with its patent-pending turf system targeted at golf courses, parks, cemeteries and fine homes.

"With the green industry having a gross market of approximately \$60 billion, and with 16,000 golf courses in the United States, we believe the potential for this machine is large," said Brad Lemke, ASV's director of new product development. "The golf course industry is particular about the machinery it uses on turf, as are municipalities that tend parks and cemeteries. There is a void in the industry for a machine that's devoted to both hard work and turf care."

The R-Series TE is differentiated from other ASV machinery by its smooth tracks. ASV's current equipment operates with the same undercar-



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riage technology as the R-Series TE, however the rubber tracks contain a tread pattern.

"Our current models are built to excel in all conditions, from tough construction sites to gentle surfaces to mud and snow," said Lemke. "However, the new R-Series TE takes sensitivity to a new level exclusively for the turf industry."

According to Lemke, the traction of ASV's system comes not from the treads on the track, but from its unique undercarriage.

"The traction comes from how well the machine distributes its weight through the tracks to the ground," said Lemke. "On turf, our smooth tracks achieve nearly the same amount of traction as tracks with a tread pattern."

As an example of the machine's versatility, a golf course might use the new Turf Edition to dig a sandtrap, while not harming the surrounding turf.

"People might look at this machine, see the green smooth tracks and say, 'How can it get traction and not tear up the turf?'" said ASV Director of Sales Don Powell. "Well, it does work and we're ready to show anyone who is willing to watch."

ASV expects the Turf Edition to be produced in the first quarter of 2003. It will be available with ASV's RC-30 and RC-50 All-Surface Loaders.

ASV designs, manufactures and sells all-purpose crawlers and related accessories and attachments. With its patented Maximum Traction and Support System undercarriage, ASV leads all rubber-tracked, all-purpose crawlers in technology and innovation. ASV's products are able to traverse nearly any terrain with minimal damage to the ground, making it effective in industries such as construction, landscaping and agriculture. For more information, visit ASV's website at [www.asvi.com](http://www.asvi.com).

ASV Inc.

### Deere, Bombardier announce Strategic Alliance for Product Development

Deere & Company and Bombardier will develop new wheeled utility vehicles and technologies under a strategic alliance announced recently.

The alliance will combine the efforts of Deere's Worldwide Commercial & Consumer Equipment Division and Bombardier Recreational Products to produce creative new concepts aimed at expanding the business opportunities for both companies. The result should provide more and even better products for their respective customers and authorized dealers.

"John Deere has an excellent history of engineering products that add to the productivity of our customers," said John Jenkins, President of Worldwide Commercial & Consumer Equipment at

Deere. "Pooling our resources with a market leader such as Bombardier strengthens our total investment in research and development."

The first product resulting from this alliance will be a line of new John Deere-branded utility vehicles derived from a Bombardier All-Terrain Vehicle (ATV) platform, to be launched initially in Canada and the United States by the end of 2003. The products will be manufactured by Bombardier at its Valcourt, Québec facility.

"Bombardier is very proud of this agreement

because it is the recognition, by a highly reputed global leader such as Deere & Company, of the quality of our products and of our leadership position as an innovator," said José Boisjoli, President of the Snowmobiles, Watercraft and ATV Division of Bombardier Recreational Products.

Bombardier has been designing and manufacturing utility and motorized recreational vehicles for over sixty years. While Bombardier's Snowmobiles, Watercraft and ATV Division offers various products for the recreational user, Deere



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focuses on products that make customers' work easier and more fulfilling.

"We believe this alliance is a good fit," said Boisjoli. "In this effort, we will work together to develop new solutions for an ever-changing marketplace."

"This is an exciting opportunity for John Deere and Bombardier to jointly leverage our combined technological expertise," said John Deere's Jenkins. "The two companies are similar in size and culture and both have a history of high quality products supported by outstanding service and support."

Both companies have targeted the announcement of new products resulting from this alliance before the end of 2003.

The John Deere Worldwide Commercial &

Consumer Equipment Division manufactures and distributes a full line of lawn care equipment for residential, commercial, and golf and turf applications. The extensive lineup includes lawn and garden tractors, walk-behind lawn mowers, hand-held equipment, GATOR™ Utility Vehicles, compact utility tractors, and commercial mowing equipment.

Deere & Company (NYSE: DE) is the world's leading producer of equipment for agriculture and forestry, a major manufacturer of equipment used in construction and lawn, grounds and turf care, and engines used in heavy equipment. Additionally, through company subsidiaries, Deere provides financial services and other related activities that support the core businesses.

Bombardier Recreational Products designs,

develops, builds, distributes and markets utility vehicles, Rotax® engines, Ski-Doo® and Lynx® snowmobiles, Bombardier™ ATVs, Sea-Doo® watercraft and sport boats as well as Evinrude® and Johnson® outboard marine engines and Ficht® direct fuel injection technology.

Bombardier Inc., a diversified manufacturing and services company, is a world leading manufacturer of business jets, regional aircraft, rail transportation equipment and motorized recreational products. It also provides financial services and asset management in business areas aligned with its core expertise. Headquartered in Montréal, Canada, the Corporation has a workforce of some 80,000 people in 24 countries throughout the Americas, Europe and Asia-Pacific. Its revenues for the fiscal year ended Jan. 31, 2002 stood at \$21.6 billion Cdn. Bombardier trades on the Toronto, Brussels and Frankfurt stock exchanges (BBD, BOM and BBDd.F).

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### Jean-Maurice Forget Succeeds Pierre Delangis as Head of ACRGTQ

After two years at the helm of ACRGTQ (Quebec's roadbuilders and heavy construction association), Pierre Delangis gives up his place to Jean-Maurice Forget, General Manager of Demix Construction, a business unit of St-Lawrence Cement.

The ceremony took place at Quebec's Hilton where the association held its annual congress last December. Mr. Delangis will remain on the administrative board.

### Mitsubishi Splits Off Truck Division

Mitsubishi Motors Corp. created a new company for its truck and bus business in order to focus on turning around its car operations.

The new company, Mitsubishi Fuso Truck and Bus Corp., will be co-owned by DaimlerChrysler AG (43%) which owns 37.3% of Mitsubishi Motors and other companies of the Mitsubishi group.

The change will allow Mitsubishi Fuso to benefit from DaimlerChrysler's technology and cut its costs by expanding global purchasing and sharing research.

Wilfried Porth from DaimlerChrysler is the new president and chief executive at the new company while Takashi Usami, from Mitsubishi Motors is the vice president.

Sales of passenger cars at Mitsubishi Motors have suffered since a scandal two years ago involving cover-up of vehicle defects.

Mitsubishi Motors Corp.

## **Canadian Infrastructure and Transportation Mission to India**

The Canada-India Business Council and Ontario Exports Inc. have organized an "Infrastructure & Transportation Mission to India", February 4 - 13, 2003. The Hon. James Flaherty, Ontario Minister of Enterprise, Opportunity and Innovation, is leading the mission which will travel to New Delhi, Mumbai, and Bangalore. The mission's two-part format of trade exhibition and technical seminar tour allows companies to market their products and services to hundreds of potential customers and partners while gaining a better understanding of the needs of the different regions of India.

The Canadian delegation is comprised of leading companies in the power, urban planning, rail equipment manufacturing and design, water and sanitation, aircraft manufacturing and services, intelligent transportation systems, and construction sectors. The companies will exhibit at The India Infrastructure Show, New Delhi, February 5 - 8. The show will focus on the airport, port, power, housing, construction, railway, and, roads and highways market sectors. The mission will then travel to Mumbai and Bangalore for a series of Canadian technology seminars and meetings with leading Indian company executives and government officials.

India's sustained economic growth of over 5% and increasing urbanization are putting pressure on an already overtaxed infrastructure. Realizing that modern infrastructure is vital to its development, the country is embracing private sector participation and encouraging international businesses to take advantage of opportunities in building, updating and modernizing India's roads and highways, railways, airports, urban infrastructure, housing, ports, and, power systems.

C-IBC, Canada's Business Link to India" is the leading private sector association of Canadian companies doing business in India. Providing a business focus to Canada's trade activities in the region, C-IBC's programs are designed to promote and encourage commercial and economic relationships between Canadian and Indian companies.

The Canada-India Business Council

## **Five Steel Industry Leaders Recognized at Steel Plus Network Convention in Florida**

Steel Plus Network honored five of its members with 2002 achievement awards at its eighth Annual Convention held January 23 to 25, 2003 in Tampa, Florida.

"The achievements of these members reflect the growth and the strength of the Network as one of the most solid and dynamic groups in the

North American steel industry," said Pierre Arcand, president of Steel Plus Network. "This organization is a major asset to steel fabricators."

This year's recognition for Fabricator Member of the Year was awarded to NICO METAL of Trois-Rivières, QC. TRUMP IRON WORKS, of Crown Point, IN, was honored as Steel Plus Technology User of the Year. The Rookie of the Year award, given to one of the group's new members, was presented to RUSSELLVILLE STEEL of Russellville, Arkansas. Project of the Year, awarded to one of four unique projects, was presented to STEEL FABRICATORS, INC. of Fort Lauderdale, FL, for the Palm Beach County Convention Center, FL.

The most prestigious of the group's awards, the Bob Coffey Award, was given to DAVID OULTON, MARID INDUSTRIES, Halifax, NS, one of Steel Plus Network's charter members. The award is given in honor of Bob Coffey, a well-known Canam Steel Corporation vice president who died in 1998. Oulton, the company president, was recognized for embodying the spirit of Steel Plus Network by subcontracting with fellow members, showing customer loyalty to Canam, and sharing his expertise in the steel industry by chairing many trade committees and projects.

Steel Plus Network offers its structural steel fabrication members, innovative services to increase their competitiveness and sales volume. Steel Plus network has 141 fabricator members and 60 supplier members in Canada and the United States.

Steel Plus Network is a division of The Canam Manac Group, Inc., an industrial company specializing in the fabrication of steel components, semi-trailers, and forestry equipment. The Group operates 20 plants, in Canada, the United States and Mexico, and employs more than 4,500 people. Sales for 2001 reached US\$715 million.

Steel Plus Network

## **SNC-Lavalin Acquires Texas-Based GDS Engineers**

SNC-Lavalin is pleased to announce that it has acquired GDS Engineers, a Texas-based engineering firm of 500 employees which generates approximately US\$50 million in annual revenues.

GDS Engineers provides services to the refining, chemical and petrochemical industries, including detailed engineering, procurement and construction management.

"Together with our existing operations in Houston, this acquisition gives us a vital and significant presence at the heart of the U.S. oil and gas industry," said Krish Krishnamoorthy, Executive Vice-President responsible for SNC-Lavalin's Chemicals and Petroleum sector. "The

acquisition is in line with our strategy to recognize the importance of Houston as a key client base, and as a focal point for our global oil and gas operations."

GDS Engineers was founded in Houston, Texas in the early 1950s. Its employees now form an important addition to the existing expertise at SNC-Lavalin's Chemicals and Petroleum sector. GDS Engineers, which currently operates out of offices in Houston, Texas City and Baytown, Texas, has various existing services contracts with major oil and gas companies.

"We believe our combined forces will significantly expand and enhance our range of services for our clients, while maintaining our reputation for excellent service, cost control and innovation," said former GDS Engineers Chairman of the Board, James Waltz.

SNC-Lavalin Inc.

## **Mack Canada Names Brian McClintock as District Manager**

Mack Canada, Inc. has announced that Brian McClintock has been named District Manager for Eastern Canada, effective immediately.

In his new position, McClintock will work with Mack Canada and its distributor network in Quebec and the Atlantic Provinces to secure profitable growth for the Mack brand in Canada. He will be based in Montreal.

Dedicated to quality, reliability, and total customer satisfaction, Mack Trucks, Inc. has provided its customers with innovative transportation solutions for more than a century. Today, Mack is one of North America's largest producers of heavy-duty trucks, and MACK® vehicles are sold and serviced in more than 45 countries worldwide.

Mack is a member of the Volvo Group, a publicly held company headquartered in Gothenburg, Sweden. With annual sales of approximately \$18 billion, Volvo business areas include heavy trucks, buses, construction equipment, marine and industrial drive systems, aerospace, and financial services. In the United States, Volvo shares are listed on NASDAQ and are traded as ADRs (symbol: VOLVY).

Mack Canada Inc.

# Topcon's System Five, How it Works...

Topcon's System Five consists of one Control Box, four sensors, and an all new "High Flow" hydraulic valve package. They work together to determine the blade's position and generate correction signals to keep the blade on grade. Here's how...

The operator uses the Control Box to enter the desired elevation and slope that System Five will maintain. When the machine begins grading, information from each of the four sensors is sent to the Control Box where it is compared to the desired grade entered by the operator. If necessary, the Control Box sends out correction signals to the hydraulic valves to move the blade to exact grade.

System Five actually performs these measurements and corrections more than 30 times a second! That is fast enough to keep up even at high speeds.

Gradtek Électronique is the distributors for Topcon products in Quebec.

Source: Gradtek Électronique Inc.  
Bernard Paquin, 1-800-567-5273



## It's time for Topcon!

If you're moving dirt — digging it, grading it, placing it, compacting it — Topcon has a control system that will help you do it faster, with less labor, more accurately.

### Time for productivity

From the world's only fully automatic, 3-dimensional, GPS controlled dozer system to low-cost, portable LS-B3 depth control system, Topcon machine control gets the job done faster. With little to no outside engineering and no waiting on grade checks, you're done in record time.

### Time for material savings

You'll move and use less material because Topcon machine control virtually eliminates over and undercutting.

### Time for better performance

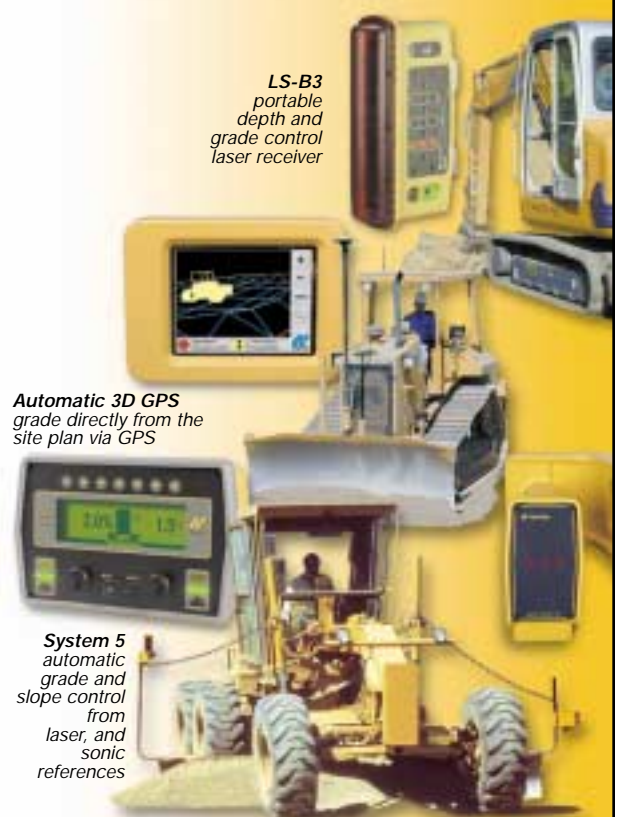
Topcon machine control allows man and machine to become a powerful force that focuses on one objective — get the job done right, fast.

So if you need to turn days into hours — it's time for Topcon.

Contact Gradtek Électronique Inc. You'll be days ahead if you do.



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# Freightliner Rolls Out The Unimog U500

Freightliner LLC is introducing the one-of-a-kind Unimog U500 for specialized vocational applications in the U.S. and Canada. The versatile Class 6&7 work vehicle brings its unique history and multiple capabilities to the North American market, where it will be marketed for use in fire-fighting, utility service, municipal and highway services, construction and rail yard work.

"The Unimog U500 gives specialized North American commercial truck buyers a proven multi-functional vehicle that's extremely adaptable and capable of excelling in very specific vocational truck applications," said Bob McTernan, Director of Unimog North America for Freightliner LLC.

The multi-use vocational vehicle will be marketed and sold under the separate and distinct "Unimog" nameplate in North America. Sales and service will be available through selected Freightliner Trucks, Sterling, Western Star and American LaFrance dealers in the U.S. and Canada.

Built as an implement carrier, the Unimog U500 vehicle easily accommodates a wide range of equipment for a variety of work duty applications.

The Unimog's factory-installed hydraulic system and controls provide seamless implement changeovers. Equipment commonly used with the vehicle includes aerial man lifts, tree trimmers, augers, cranes, snow plows, salt spreaders, street sweepers and specialized brush cutting and firefighting equipment.

"Engineered to North American regulations and requirements and supported by a large dealer and service network, the Unimog U500 is a great new option for certain highly specialized vocational vehicle operators," said McTernan.

## Standards and Options

The Unimog will be built at the Mercedes-Benz truck plant in Wörth, Germany to meet North American regulations and imported to the U.S. It



will be available in two GVWs – 26,000 and 33,000 pounds – and powered by the Mercedes-Benz MBE900 electronic six-cylinder diesel engine, available in 230 and 280 horsepower ratings. The Mercedes-Benz eight-speed transmission comes standard with the electro-pneumatic Telligent® gearshift system. For heavier applications, an optional 16-speed deep reduction transmission is available.

## WANT TO GET IN CLOSE?

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Now operators can work closer than ever to a wall or other obstacle and still concentrate on their work instead of losing time inching up to a street. The industry's largest line of short-radius excavators includes seven with zero tail swing and three that never extend more than 5.1" beyond the tracks.

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Radius machines have the maneuverability, visibility and balance to work efficiently in tight spaces.

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Standard features include a 132-inch wheelbase and roomy cab. A 154-inch wheelbase is optional. The corrosion-free cab is made of lightweight carbon fiber composite and features an expansive windshield that provides excellent visibility even during the toughest jobs. The VarioPilot® option allows a left-handed steering column to become a right-hand drive in less than two minutes. This feature is ideal for those jobs that require attention to both sides of a highway.

Standard four-wheel drive and available axle and interaxle differential locks give the Unimog the ability to get to the most extreme job sites. Dual circuit anti-lock disc brakes are standard at all four wheels.

### Implement Versatility

The versatility of the Unimog comes from its ability to accommodate numerous implements and to quickly and easily transform its function by switching implements. For example, the vehicle can be used for snow removal in winter, and with a swift change-out of implements, can be transformed to mow road embankments in the summer.

Relationships have been forged with key implement manufacturers from North America and



Europe in order to offer customers specific implement choices.

### A Proven History

The first implement carrier in the world, the Unimog was originally introduced in Europe in 1951. A few hundred thousand have been produced and sold worldwide, working successfully

in many specialty applications.

Previously offered in North America under the Mercedes-Benz nameplate, several thousand Unimogs are currently operating across the U.S. and Canada.

Freightliner will begin deliveries of the Unimog U500 in January 2003.

DaimlerChrysler AG

# D/S

## MANUFACTURING

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# A New Larue Hydrostatic Snowblower for Jean-Lesage Airport



Last December, J.A. Larue Inc. delivered a Larue model 7060R44 snowblower to the Jean-Lesage International airport in Quebec City.

The Larue model 7060R44 features a completely hydrostatic drive for both travel and blower, from only one engine which greatly reduces the cost of maintenance.

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