

# Designs that help you do more, with less

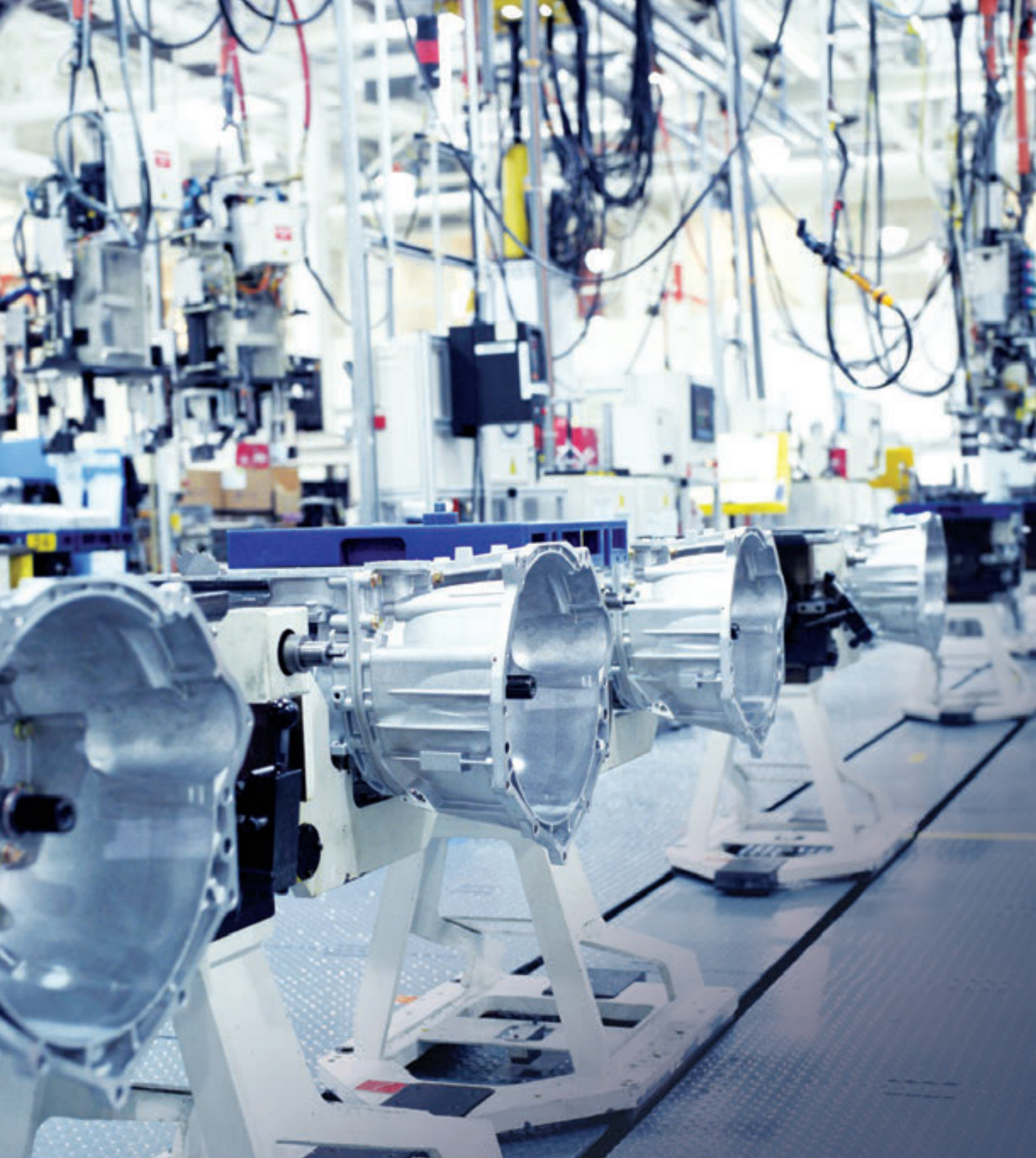
DESIGN SOLUTIONS FOR MANUFACTURING

From initial definition of your business need, through program development, process and facility design, and project execution, our team has the knowledge and expertise to help you succeed in today's manufacturing environment.

Helping you do more, with less.

**60 years** | Years helping clients  
achieve their goals





## OUR VALUES

### WE PUT PEOPLE FIRST

People are at the heart of everything we do; they give our work purpose. That's why we listen to and design for the distinct needs of our clients—and those who live and work in the communities we serve. It's why we prioritize the safety of everyone our work touches. And it's why we define fulfilling careers for our own people, helping them set and then surpass their individual goals.

### WE ARE BETTER TOGETHER

When smart, passionate, creative people come together, real possibilities are unleashed. As our own community expands, we welcome everyone's contributions—diverse perspectives create extraordinary results. We draw on our global network to build the right team for each project because when we work together, no problem is too large or complex.

### WE DO WHAT IS RIGHT

We approach every project as a partnership because our work creates a lasting impact on our clients' communities. We are accountable to these communities—to strengthening them and making them resilient for whatever the future may hold. Integrity guides what we do, which means that we make the right choice even when it's the tough choice.

### WE ARE DRIVEN TO ACHIEVE

We believe that transformation—in our work and in ourselves—is truly possible. We're defined by our entrepreneurial spirit and our unwavering pursuit of not only what's next but also what's best. Bringing imagination and determination to every challenge, we leave no angle unexplored. As a result, we deliver the excellence that propels communities to success.



## Focused on what matters

**Our core company values guide us in all that we do.**

The way we protect our people, our clients, and our communities reflects who we are, what we believe in, and how we do our work. At Stantec, we do what is right, which means our health, safety, and environmental programs are the foundations of our business.





600+

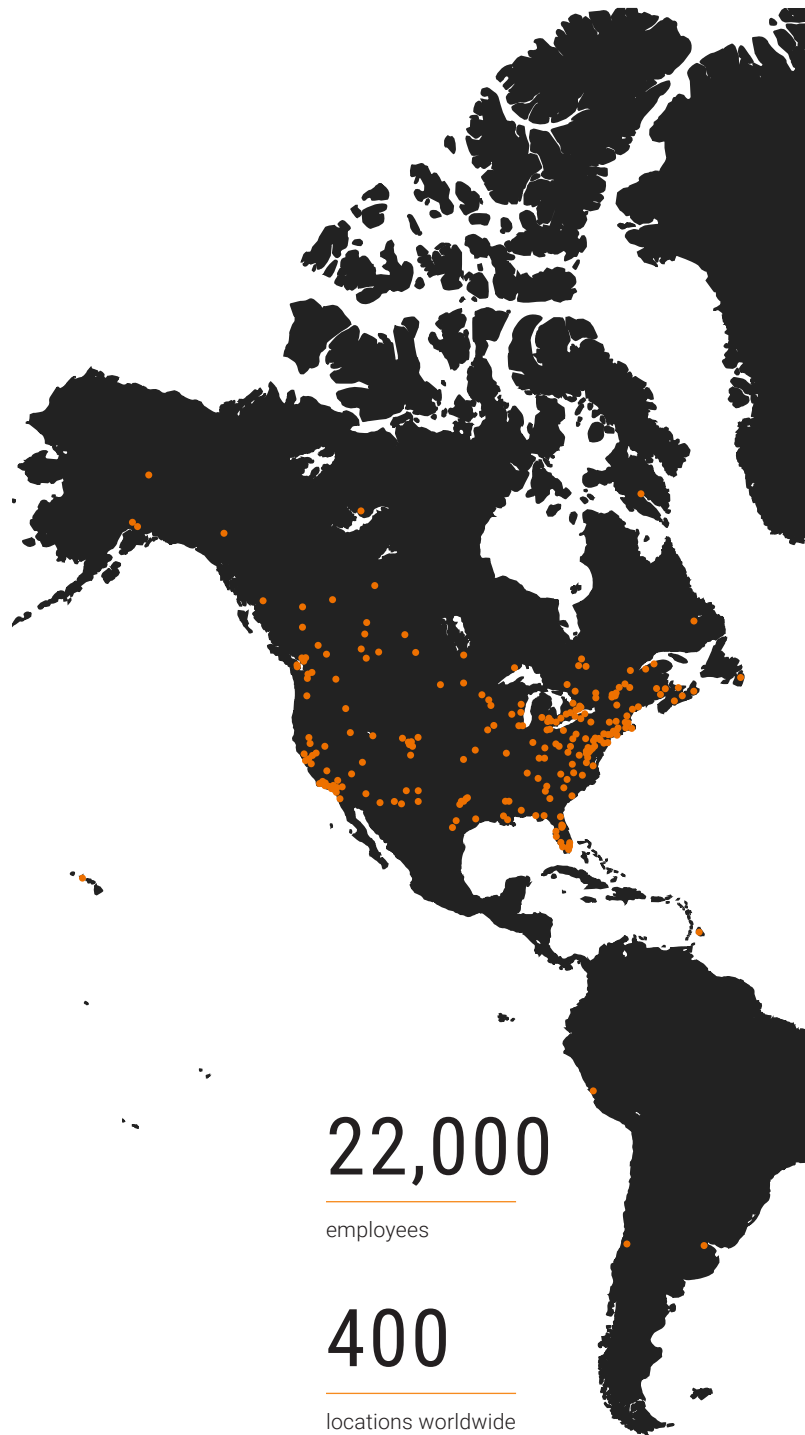
completed LEED® registered  
projects world-wide

# In today's manufacturing environment, pressures on companies are increasing.

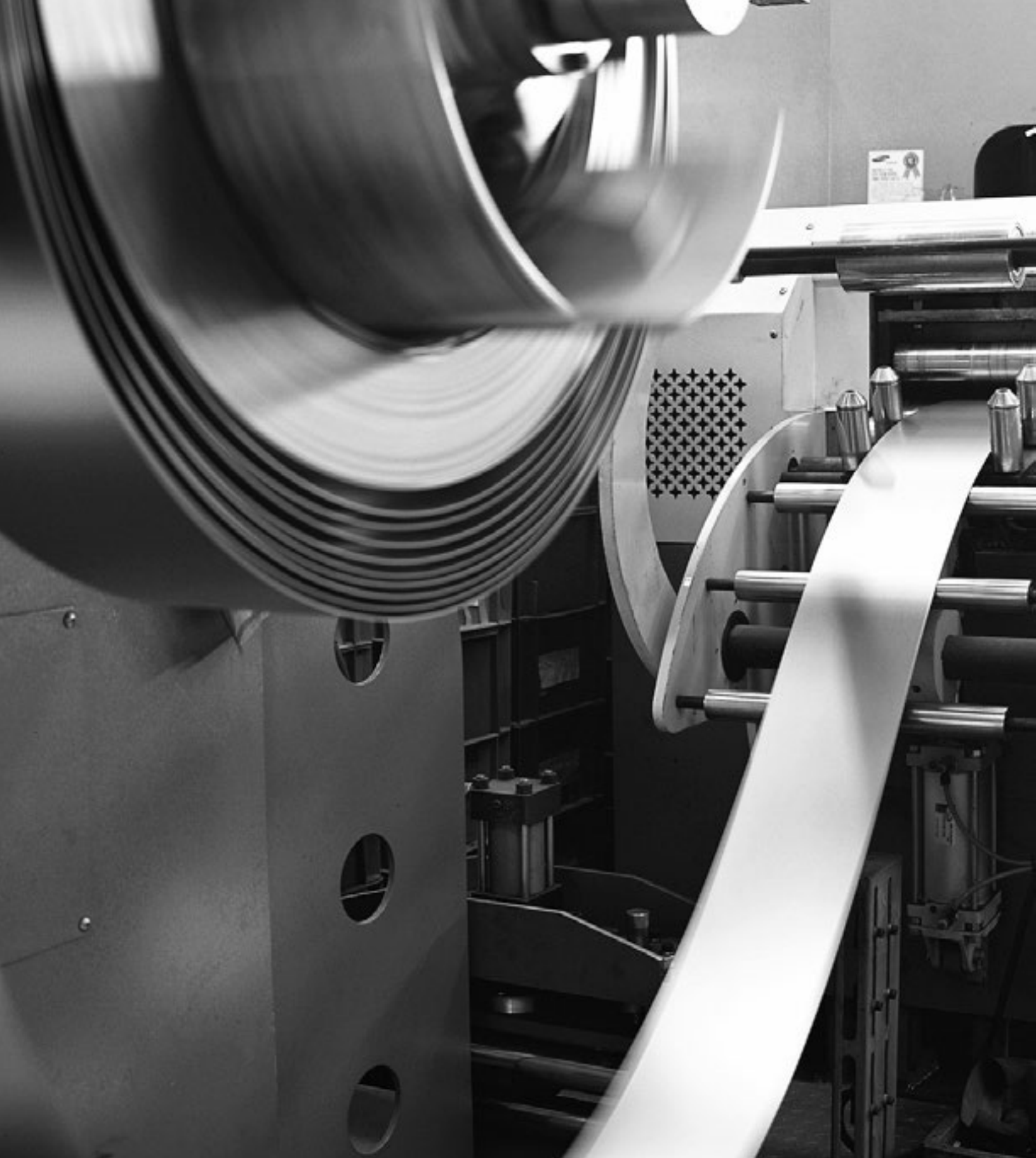
Availability of qualified staff, energy and transportation costs, and offshore competition are only a few of the challenges impacting business and financial success. Prior to spending a large amount of energy and money to fix the problem, manufacturers are focusing their scarce resources on the most important drivers of their business.

Reduce production costs. Be more efficient with limited operating funds. Increase productivity. Perform under shorter delivery times. Comply with evolving occupational safety regulations. Our team identifies where value is being created or lost, quantifies the potential opportunities, and then works jointly with you to develop a plan of action aimed at capturing those opportunities. Our operations specialists take a hands-on approach, walking the shop floor, diving in, understanding how you work, and identifying how you can work more efficiently and effectively.

No matter where your project is located, we can provide integrated engineering and management services throughout the entire project cycle. From upfront analysis and evaluations, detailed design documents and start-up to commissioning, our designs will increase output, apply automation, improve safety and ergonomic performance, and increase reliability and quality performance.











## Services for Manufacturers

**STANTEC OFFERS SERVICES FOR  
MANUFACTURER CLIENTS IN THE AREAS OF:**

- Site Selection & Infrastructure Design
- Facility Design & Engineering
- Process Engineering, Modeling & Optimization
- Industrial Engineering
- Safety System Design & Regulatory Compliance Certification
- Project & Program Management
- Machine Design & Automation
- Environmental Approvals, Planning, & Compliance Services

### **FACILITY DESIGN & ENGINEERING**

Stantec provides integrated architectural and engineering services with focus on the specific needs of plant design and commissioning services. This includes:

- Functional Programming
- Architecture
- Landscape Architecture
- Interior Design
- Structural / Mechanical / Electrical Engineering

### **SITE SELECTION & INFRASTRUCTURE DESIGN**

Power, Water and Transport  
Stantec helps clients to select, develop/redevelop, and service sites to meet their business needs. This includes:

- Site Evaluation/Selection
- Surveying/Topography/ Geotechnical
- Site Planning, Development and Servicing
- Stormwater Management
- Rail, Road, and Traffic routing on-site and interface with external roadways
- Water Utilization; Wastewater Treatment
- Solid Waste Management
- Power Supply/Generation and Site Distribution

### **MACHINE DESIGN & AUTOMATION**

From conceptual development to verification or commissioning, Stantec is your expert partner through all phases of automation, machine design, or product development, including:

- Machine Design
- Electrical Controls/Automation of Equipment
- Product Development
- FEA Analysis
- Tooling / Jig and Fixture Design
- Integrated Safety Guarding
- Hydraulic / Pneumatic System Design

### **SAFETY SYSTEM DESIGN & REGULATORY COMPLIANCE CERTIFICATION**

Our clients rely on Stantec's experienced team of multidiscipline engineers to identify and reduce risks, eliminate compliance issues, examine safety issues, present alternatives, and design solutions to ensure a compliant operation or process. We can offer:

- Safety Risk Assessment
- Machine Guarding and Safety Control System Design
- Pre-Start Health & Safety Reviews (PSHSR)
- Industrial Safety Audits & Compliance Planning
- Hazard and Operability Studies (HAZOP) and Process Hazard Analysis
- Hazardous Area Classifications and Fire Safety Audits
- Occupational Exposure / Industrial Hygiene Assessment





### **INDUSTRIAL ENGINEERING**

Stantec's team of manufacturing-professionals help our clients to achieve world-class performance in safety, quality, cost, and delivery throughout the entire product supply chain. We offer:

- Time and Motion Studies
- Job Time Standards
- Manufacturing Systems/  
Manufacturing Engineering
- Value Stream Mapping
- Statistical Process Control
- Visual Management Strategies
- Six Sigma Process Improvement
- LEAN Manufacturing implementation

### **PROJECT & PROGRAM MANAGEMENT**

Stantec's program and project management team provides our clients with expertise and resources for planning, implementing and controlling capital programs. We apply our proven project management processes, together with sophisticated project management software and skilled resources, to produce predictable outcomes for:

- Project Advisory Services
- Project Oversight/Monitoring
- Major Project/Program Management
- Project Controls (Scheduling, Cost Management, Document Controls)
- Construction Administration

### **PROCESS ENGINEERING, MODELING & OPTIMIZATION**

Stantec can deliver better analysis, innovative solutions, and operationally effective decisions through modeling and simulation. The result is maximum throughput, decreased cycle time, increased productivity, and managed costs. This applies to:

- Work Cell Design and Positioning
- Process and Material Flow /  
Logistics Simulation
- Throughput Forecasting and  
Improvement
- Material Handling System Design
- Process Equipment Installation  
(and Utilities) Design

### **ENVIRONMENTAL APPROVALS, PLANNING & COMPLIANCE SERVICES**

Stantec's team of qualified environmental engineers and regulatory specialists provide our industrial clients with a full range of consulting services to assess liability, optimize current performance, ensure continuing compliance, and minimize future risks. Our specialties include:

- Assessment, Permitting &  
Compliance
- Site Management & Remediation
- Environmental Risk Assessment  
& Toxicology
- Environment, Health & Safety
- Geographic Information Systems  
& Information Management
- Dispersion modelling and  
air permitting



## Automotive

With a well-established track record, Stantec has assisted many automotive manufacturers, component suppliers, and equipment vendors realize their business goals.

Stantec understands the importance of safety, quality, schedule, and cost effectiveness in the automotive industry.

Take nothing for granted. Confirm everything. Expect change. Respond immediately.

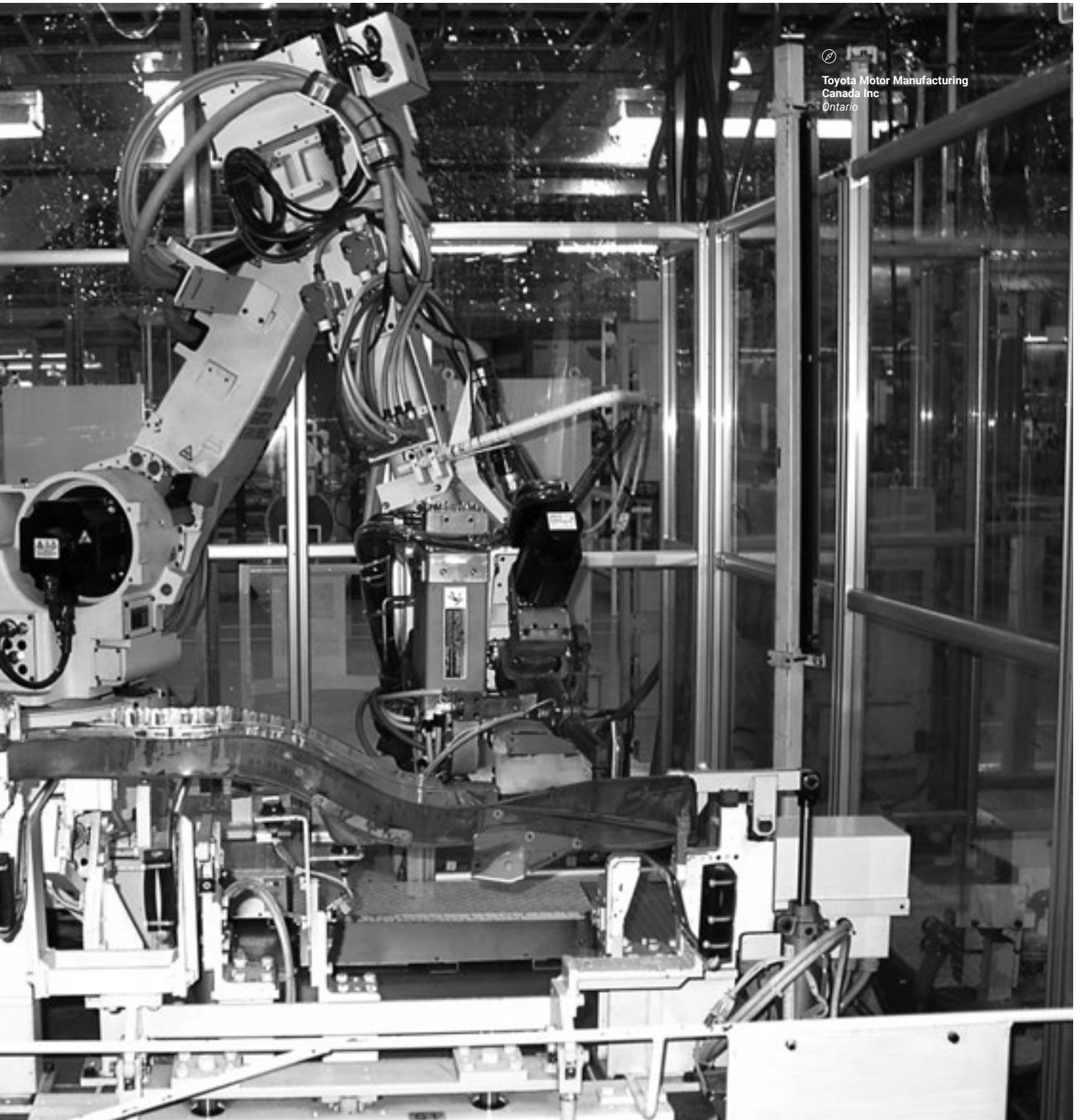
Our team consists of professional with experience in automotive production engineering , plant design/engineering, major model launch programs, industrial safety, machine design and integration, material handling systems, and facility/ utilities operations.

We recognize that manufacturers require systems to respond quickly to changes in production and product development, prefer a lean production method to help minimize costs, and favor flexible building and facility design to accommodate new, state-of-the-art production. From initial conception through to project completion and beyond, our highly skilled professionals provide Automotive sector clients with intelligent, fiscally-sound solutions to complex facility planning and process issues.

# 868

projects Completed  
in the past 5 years





Toyota Motor Manufacturing  
Canada Inc  
Ontario

**AUTOMOTIVE  
HIGHLIGHTED EXPERIENCE**

**Mercedes-Benz Canada Inc. –  
Fuel Cell Stack Manufacturing  
Clean Room**

**BRITISH COLUMBIA, CANADA**

The existing building of Ballard Power Systems is home to the \$4.5 million state-of-the-art facility which houses a clean room, a liquid injection molding room, fuel cell stack final assembly room, and locker room. The clean room was designed to ISO Class 8 equivalent standards and will be commissioned for manufacturing of fuel cell stacks used in Mercedes-Benz cars worldwide.

Bringing depth of expertise in the development of clean room facilities, our integrated team of architects and engineers was selected to design the structural, mechanical, and electrical systems. We brought in clean room specific cranes to avoid any contamination in the manufacturing operations area. And, three air-showers were designed to comply with sterile requirements at the employee entrances. Hyper fast tracked with an aggressive construction schedule, the project met all production timelines. Daily coordination between the design team, operational team in Germany, and contractor on-site was key to the project's success. Fuel cell technology represents a viable transportation alternative that will provide people with a zero-local emission vehicle. A commitment to innovation has guided the Daimler Benz organization since they helped pioneer the internal combustion engine. Hydrogen fuel cell technology is the future of mobility and Daimler Benz, together with Stantec, are working together to pioneer this evolution.



Mercedes-Benz Canada Inc.  
Burnaby, British Columbia





## Sterling Truck Corporation – Manufacturing Assembly Line Expansion

### ONTARIO, CANADA

Stantec worked with Sterling and the contractor to develop cost effective designs and solutions that minimized disruption to production. Using a phased approach, we designed the \$6 million expansion of five bays in the 9,600 square foot Final Chassis Line building and five bays in the 26,400 square foot Frame Line building.

We developed a functional space plan that would make operations more efficient and modified the building's systems to comply with regulatory requirements. Our design included industrial HVAC, fire protection, plumbing and controls. In addition, our team designed electrical and telecommunications systems including primary and secondary power, industrial equipment power, fire alarm, grounding, MCC, voice/data, and lighting for administrative areas. Our greatest challenge was how to introduce a dolly retrieval system located below floor level. This required in-slab conveyor systems on the main assembly line. With input from Sterling and the contractor, we developed a phased construction approach that allowed for the truck assembly and production to continue through the full duration of the construction phase. Our approach was well planned, properly scheduled and executed, and conveyed early to achieve buy-in by all stakeholders.

## Canadian Autoparts Toyota Inc. (CAPTIN)

### BRITISH COLUMBIA, CANADA

Our integrated team of engineers and architects provided the schematic design, as well as scope, schedule and cost definition for the additional 5,600 square meters expansion to Toyota's aluminum wheel manufacturing plant.

To meet the tight schedule, work was contracted in seven packages including preload, mechanical equipment, electrical equipment, and structural steel. Dealing with a steel structure on a restricted site area, our plan allowed steel erection and other construction to progress simultaneously. Built within limited space on the site, we were challenged with meeting local regulatory requirements for property setbacks and road allowances. Working with a tight design timeframe, we met with local authorities to discuss their requirements. We conducted a conceptual study to determine the maximum size of the expansion for the available property and developed a site that met the needs of Canadian Autoparts Toyota Inc. (CAPTIN) and the local community. By implementing an effective work plan, and collaborating with CAPTIN and local representatives, we were successful in delivering design and construction of a fully operational facility. The new expansion is increasing production capacity by 33 percent, resulting in the wheel rim production increase from 6,000 to 9,000 per day.



# 10+

Hoover Dams per year,  
could be built with  
cement from the plants  
our teams helped  
design and grow in the  
last five years.

## Cement and Aggregates

Conveying practical, technical, and cost-effective results for production. Working with large- and small-scale cement and aggregate manufacturers, we offer solutions that cover it all.

From new design and plant upgrades, to storage silos and shipping terminals, our team will work with you to determine project strengths, opportunities and constraints. Whether you need to retrofit an existing structure, evaluate process ducting, control emissions, analyze your power consumption, or perform risk assessments and safety reviews, we provide designs and services that contribute to safe and efficient operations. Our team designs facilities and systems that help lower your operating costs and energy consumption, increase plant production, decrease emissions into the community, and comply with regulatory requirements. Together, we help you balance the competitive realities of running a business with the challenges of meeting environmental protection issues.

**“Creativity, innovation and hard work are the three elements that contribute to a successful project. My client’s long-term success and longevity are an invariable result”**

**Gerry D’Cruz,  
Senior Mechanical Engineer**



**CEMENT AND AGGREGATES  
HIGHLIGHTED EXPERIENCE**

**St. Marys Cement Co. -  
Clay Handling Transport  
System Upgrade**

**ONTARIO, CANADA**

When St. Marys Cement decided to upgrade the clay handling system at their plant in Ontario, they turned to Stantec's Cement Design Team. Our professional engineering services included site, civil, structural, and electrical engineering management, as well as monitoring and coordinating the work of the suppliers.

Originally, raw materials were dumped by trucks and stored in open spaces, so our biggest challenge was the handling of frozen material during the winter months and transporting it directly into the raw material bins. Stantec designed covered storage for the clay in the summer; and in the winter provided for heat of the wet material bins in order to avoid frozen lumps inside the hoppers. The raw materials were transported to the covered raw material handling facility at the south end of the plant through the use of conveyors. During winter, frozen lumps of raw materials were heated inside the hoppers to facilitate the feeding and handling to the raw grinding mill.

The client purchased all the equipment while Stantec provided overall plot plan, site preparation drawings, final layout, and detail drawings for the clay storage area; assessment of the existing conveyors; design of conveyor foundations; structural modifications to the wet material handling building; electrical, and engineering management. Stantec's design team met client expectations by bringing the Clay Transport Handling System on-line as per the tight schedule. In addition, the client's challenge of raw material delivery to the raw mill during the winter months has been alleviated.





## Ste. Genevieve Cement Plant

### **MISSOURI, UNITED STATES**

As part of a multi-team, turnkey solution, Stantec delivered structural engineering services for this 12,000 TPD portland cement facility – one of the world’s largest cement plants. The \$1.2 billion, state-of-the-art plant is situated on 3,900 acres along the Mississippi River and includes a raw material processing system, coal mill system, product processing system, and material receiving/product shipping systems.

Our team designed and detailed heavy structural steel to support the plant’s conveyors, pipes, transfer towers, and several buildings with hoppers and bins.

## Inland Cement Plant Expansion


### **EDMONTON, ALBERTA**

This expansion was designed to increase production of cement from 2,340 to 3,000 nominal tonnes per day through modifications to the precalciner, clinker cooler, cooler vent, and B-Mill building.

Stantec provided project management, engineering and field administration of structural, mechanical, electrical, and instrument work for the project. The design for the cooler vent system included an intake duct, heat exchanger, filter bag house, duct removal conveying systems, discharge duct, instrumentation air compressor and dryer, motor control center, substation upgrade, and structural supports. The upgrade to the precalciner and clinker cooler included modifications to instrumentation, motors, lighting, power, burners, gas train, and motor control center. Conversion of the surplus masonry ball mill to a raw meal mill was designed to augment the capacity of the existing roller mill.

Stantec prepared and coordinated the project schedule (over 4,000 activities), implemented time saving measures, and updated the daily schedule during the 53-day shutdown period.





**“I am continually energized and challenged by my work, particularly because no two projects are exactly the same. Unique problems require creative solutions in an industry where technology is rapidly changing and where tight schedules are the norm”**

**Steven Voll, Senior Principal**





## INDUSTRY EXPERTISE

### Wood and Tissue

Helping you reduce costs, increase outputs, and run safe operations.

Our collective knowledge and broad industry experience enables us to speak the language. If you're looking to get a handle on scope, schedule and budget in your facility, we have the experience and talent to provide exactly what you need. From the beginning, we've worked closely with the Oriented Strand Board (OSB) and composite wood industry to find solutions that will help our clients grow. In today's environment, clients are addressing operational and maintenance issues rather than undertaking the design and build of large, new green-field production facilities. We understand how to help your team identify projects, estimate costs and impacts, and see projects through design and implementation.

From capacity upgrades, capital maintenance and quality improvements, to equipment replacement and emissions control, our team brings fresh ideas, industry expertise, and a collaborative approach to help you overcome challenges and create advantages. Through our work and expertise, we help you save money, optimize production, and better position for future growth.

## WOOD AND TISSUE HIGHLIGHTED EXPERIENCE

### Tissue Machine Replacement, Irving Tissue

#### NEW BRUNSWICK, CANADA

Stantec worked with the client from the conceptual phase through to detailed design, construction, start-up and commissioning for installation of its new 5,000 FPM crescent-former tissue machine.

This project replaced an existing 128 inch trim single layer headbox Fourdrinier tissue machine with a current Metso Crescent Former with a 2-ply headbox, felt section, Yankee hood air system reel and unwind stands. As part of the conceptual phase, Stantec prepared detailed cost estimates. We also provided dynamic process modeling, equipment sizing and selection, 3D modeling for virtual walkthroughs, construction planning and progress reporting. Engineering was also provided for balance of plant services to support the changes to the mill resulting from the new machine. Meeting a 30-day turnaround, the project was completed on schedule and on budget while exceeding quality and production targets.

### Confidential Pulp and Paper Client - Pre-Start Health and Safety Review (PSHSR)

#### TORONTO, ONTARIO

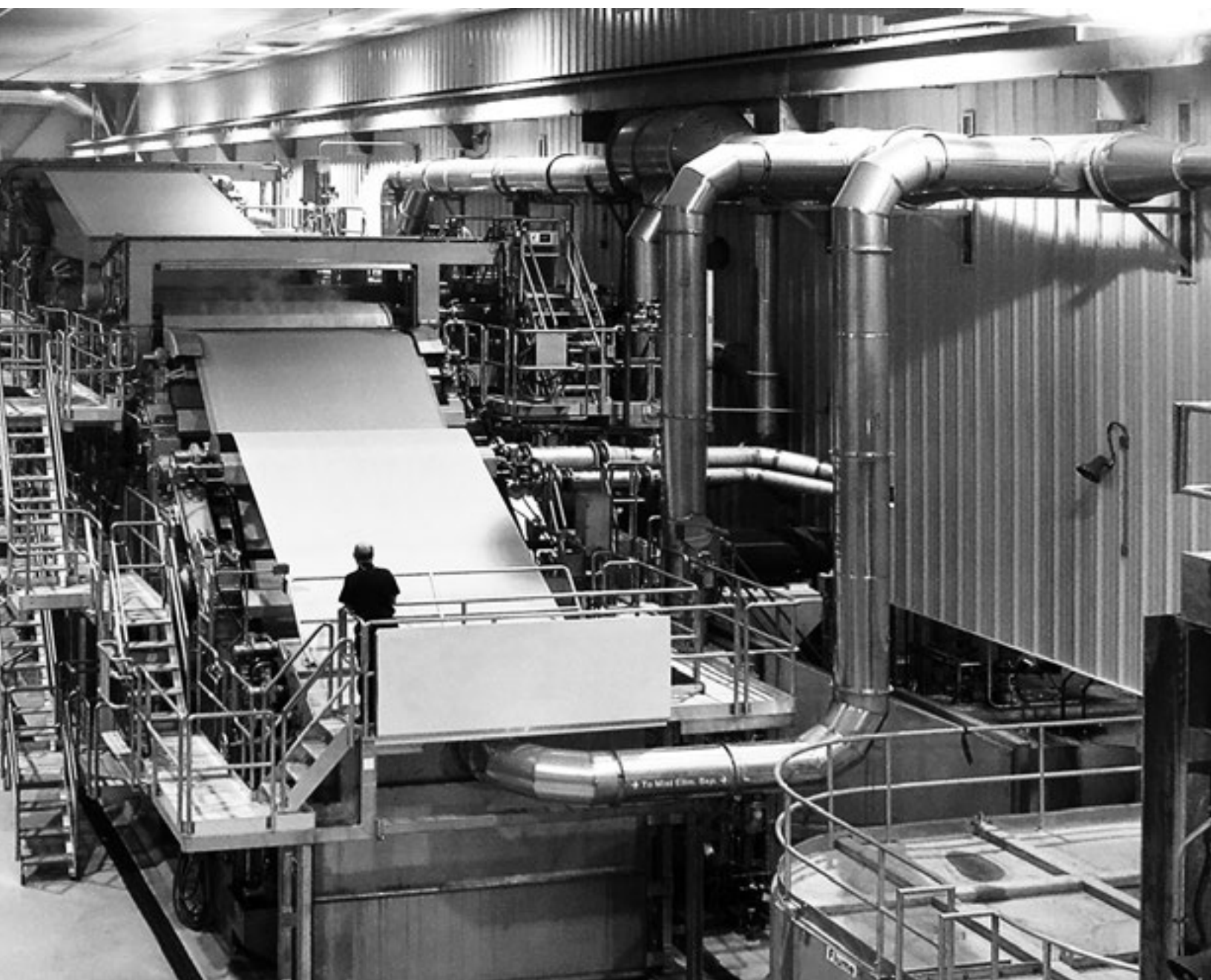
Stantec provides Pre-Start Health and Safety Review services to help our manufacturing clients identify and assess hazards, increase workplace safety, and maintain regulatory compliance.

Stantec was retained to review and provide guidance to correct machine guarding issues on several new machines at a pulp and paper facility.

Stantec's mechanical and electrical safety specialists completed full safety audits of each machine. Several issues were noted and the team reviewed the concerns with the internal health and safety committee. After reviewing the situation, Stantec worked with machine operators and maintenance staff to develop and implement practical and effective solutions that eliminated or reduced risks. The new equipment was installed on time and increased the level of safety for their employees, without adversely affecting their manufacturing process.



**Tissue Machine Replacement**  
St. John, New Brunswick





## Chemicals and Polymers

With a strong client focus and a broad range of technologies, we provide expertise for site development, process design, project management, engineering, procurement, construction, and start-up for clients in the Chemicals and Polymers sector.

Our services range from integrated packages to design/build projects, wastewater treatment, control systems, treatability studies, and process design/engineering. We provide comprehensive regulatory consulting and Good Laboratory Practice (GLP) ecotoxicity testing in support of

international registration of new chemicals and polymers. We have extensive experience in regulatory strategy development, data quality evaluation, and scientific waiver development. Stantec also remains focused on safeguarding the environment and assists clients in implementing Health, Safety, and Environment (HSE) systems and procedures in their facilities.

By incorporating ideas and technologies from Stantec's multi-discipline resource team, we provide clients with sustainable, responsible, and innovative solutions.

### CHEMICALS AND POLYMERS HIGHLIGHTED EXPERIENCE

#### Dow Chemical Canada Inc.

**FORT SASKATCHEWAN,  
ALBERTA**

This project involved strategy development for improvements to a world scale petrochemical facility.

Stantec provided project management, detailed design, and environmental engineering services for the demolition, relocation, and remediation of a chloro-alkali plant, ethylene products plant, tank farm, and a utilities and herbicide plant. The project involved the evaluation of existing facilities to establish equipment salvaging strategies, relocation of common utility services,

and the development of a demolition/remediation program in accordance with Dow Corporate Standards, CSA Standard Z768-01, and ASTM Standard E-1527-93.

Cost estimates, detailed engineering of relocated assets, development of safety programs, contractor prequalification, coordination of demolition contracts, installation of long term soils remediation systems, and environmental reviews and permitting were also completed as part of this project.



**“My work in planning and engineering improves the efficiency and safety of facilities which, in many cases, prevents accidents and fatalities. I see this as an incredible responsibility”**

**Tony Smith, Principal**

## Steel and Metals

We provide results that combine client-product knowledge with our in-plant experience, strong process knowledge, and technical expertise for successful implementation.

Stantec delivers targeted, cost-effective solutions for our Steel and Metals clients with productivity, quantity, quality, or logistics challenges. Understanding the effects of the steel and metal manufacturing process is a key issue, whether it is in the early concept stages of a design program or when investigating feasibility of costly process and material changes in the production environment.

Stantec's comprehensive resource base provides the expertise needed to complete all phases of the project life cycle, from initial concept through to decommissioning. Working with client teams, we create concepts, as well as develop and implement solutions to help clients gain and maintain a competitive advantage, while always being mindful of environmental impacts. With our global service presence and years of reliability and experience, Stantec delivers well-planned, coordinated, total operations solutions that reduce capital costs and increase revenue for our clients.







## STEEL AND METALS HIGHLIGHTED EXPERIENCE

### Throughput Analysis – Aluminum Plate Production

#### WEST VIRGINIA, UNITED STATES

With demand for aluminum plate outstripping production capability, a major aluminum products manufacturer turned to Stantec for solutions to increase throughput and provide quick return on their investment.

The confidential client took advantage of Stantec's Industrial Engineering expertise by commissioning a detailed throughput analysis of their plate production operations. The resulting practical recommendations represented a 34% increase in throughput, with payback periods between 3 and 15 months.

Stantec's work program began with a two-week site survey, which included observation of the shop processes and practices, numerous interviews, timing of processes, and the collection of a large amount of data. Extensive detailed analysis followed, covering production planning, process flow and capability, manpower utilization, maintenance, downtime, material handling systems, and quality issues. A detailed report was prepared presenting the survey findings, the analysis, the conclusions drawn about the operations, and recommending countermeasures (short and long term) to increase throughput.

### DNN Hot Dip Galvanizing Plant

#### WINDSOR, ONTARIO

Stantec provided full project management services to DNN Galvanizing Corporation in connection with the development of a new \$240 million hot dip galvanizing plant featuring a 230m process line for coating coils of sheet steel with zinc. Stantec's responsibilities included the contract administration and coordination of the construction engineering consultant, as well as the administration of four major design-build turnkey contract packages and the process line equipment design-supply contract.

Stantec also tendered and administered all site work, process equipment installation, piping and E/I contracts. Additional services included scheduling, site management, site safety/security administration, cost control and project accounting, and securing of permits/approvals. The project received a Construction Safety Association of Ontario award for working in excess of 500,000 hours on site without a lost time injury.



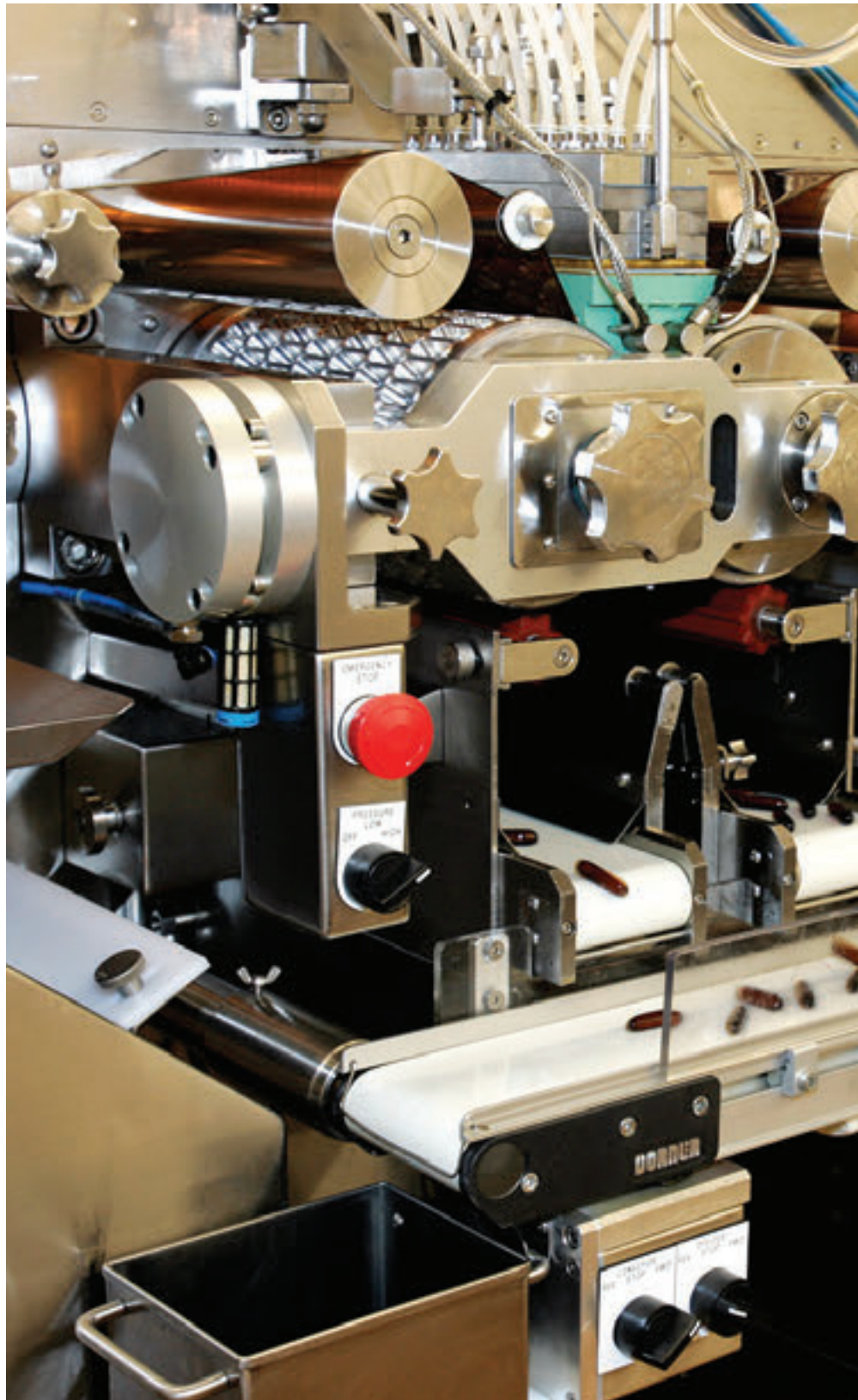
## Consumer Products

Stantec understands that in today's competitive marketplace, quality and innovation are critical to the success of projects delivered within the Consumer Products sector.

Stantec has developed long-standing relationships with Consumer Products clients by establishing dedication and understanding to requirements and by continually providing efficient, innovative, and quality solutions.

We thoroughly examine our clients business needs and provide functional planning solutions to optimize operational efficiency and synergy. By utilizing our sophisticated engineering and technological capabilities, we create integrated, practical, and inventive solutions to complex industrial/manufacturing projects.

Stantec's team of specialist practitioners collaborate across the organization and utilize a broad range of global expertise to provide effective, local solutions. Our array of services in the Consumer Products sector include: process design/engineering, plant utilities supply and distribution, conceptual design, architecture, equipment selection/specifications, functional programming, instrumentation and control systems, energy conservation, and warehousing and distribution.







**Natural Factors Soft Gelatin Capsule Plant**  
Lake Country, British Columbia

## CONSUMER PRODUCTS HIGHLIGHTED EXPERIENCE

### Irving Personal Care Limited

#### NEW BRUNSWICK, CANADA

Stantec provided overall engineering management services and process, civil, and mechanical design services to Irving Personal Care Limited for the construction of a show-case consumer products manufacturing plant – the first and only manufacturer of baby diapers and training pants in Canada.

Working closely with the client's engineering team, Stantec paid strict attention to detail to be innovative and highly efficient. The project involved the preliminary design including creating the general arrangements to establish project capital budgets and the project schedule for the owner. Stantec also provided detailed design, process layouts, and assisted in equipment selection and permitting for the construction of the facility. The facility consisted of a structural steel/pre-cast building structure including an office complex, receiving, production, palletizing, and shipping areas. The mechanical systems were designed with an integrated plant cooling water loop. This took rejected heat from the air compressors and electrical room/panel air conditioning systems to be used by the office area HVAC (to heat/cool this area) and heated the receiving area through a radiant in-floor heating loop. Excess heat of rejection was diverted to two low profile cooling towers.

### Natural Factors Soft Gelatin Capsule Plant

#### LAKE COUNTRY, BRITISH COLUMBIA

Stantec worked in conjunction with the owner, construction manager, other design consultants and pharmaceutical equipment suppliers to deliver HVAC and piping design services within a fast track delivery method. Steam, dehumidification, vacuum, pure-water, and plumbing systems were designed by Stantec. From the conceptual design stage to manufacture of the first gelatin capsules, the project took approximately six months. The Soft Gel Plant is one of only two facilities in Canada that can produce gelatin capsules.



## LEAN Energy in Manufacturing

Lean Energy refers to the use of continuous improvement tools applied in design engineering and facility planning to eliminate waste and expand the boundaries of energy efficiency. The approach, which borrows its inspiration from the Toyota Method, has a proven track record in North America and is helping companies optimize their existing systems instead of having to consider new investments.

*The two key components of LEAN Energy include:*

- Treasure Hunts to identify energy savings opportunities and the Kaizen approach, which is effective in eliminating waste
- Energy Management System (EMS) guided by best management practices (ISO 50 001)

Recent studies in Manufacturing report savings that range from 8% to 25% for companies who have followed the approach and utilized these in their facility upgrades. At Stantec, our in-house project experts have confirmed this on our own projects, with an average of 12% in energy cost savings, and reductions in greenhouse gas (GHG) emissions exceeding 20%.

12%

Average Energy  
Cost Savings



“We are a committed, total-solutions partner that will always do what is right for your projects, and your company. We care about your business – we succeed when you succeed.”

**Dave Calder, P.Eng.**

Vice President, Sector Lead,  
Industrial

## THREE C'S

### COMMUNITY

When we say community, we don't just mean the neighborhoods people call home. We mean everyone with a stake in the work that we do, from our Stantec and industry colleagues, to the clients we collaborate with, and the people and places we impact.

Whether creating, sustaining, or revitalizing a community, we help diverse cultures and perspectives work together toward a shared success.

And although our work helps to create physical communities, our ultimate goal is to create something far more meaningful—a sense of community.

### CREATIVITY

For us, creativity is driven by purpose. Knowing that transformation is truly possible inspires us to approach every situation with a fresh perspective.

Our inventive and collaborative approach to problem-solving helps bring big ideas to life through elegant solutions.

Whether our contribution is a design that strikes the perfect balance between function and aesthetics, a feat of engineering that redefines what's possible, or a project management approach that delivers results, we strive for outcomes that transcend the challenges they solve and shape the communities we serve for the better.

### CLIENT RELATIONSHIPS

We're better together. This belief shapes how we collaborate with our clients, our partners, and our communities.

We listen so we can deeply understand our clients' needs, communicate with purpose so we maintain alignment, and remain open and flexible so we never miss an opportunity to strengthen a project and positively transform a community.





Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always design with community in mind.

We care about the communities we serve—because they're our communities too. This allows us to assess what's needed and connect our expertise; to appreciate nuances and envision what's never been considered; to bring together diverse perspectives so we can collaborate toward a shared success.

We're designers, engineers, scientists, and project managers innovating together at the intersection of community, creativity, and collaboration. Balancing these priorities results in projects that advance the quality of life in communities across the globe. Stantec trades on the TSX and the NYSE under the symbol STN. Visit us at [stantec.com](http://stantec.com) or find us on social media.



## CONTACT INFO

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Design with community in mind