



SOLUTIONS OVERVIEW

Process equipment solutions for
industrial, light industrial,
municipal and commercial facilities.

Boilers & Water Treatment | Motors & Drives | Measurement & Analytical
Valves & Actuation | Panels & Buildings | Maintenance & Support



Tundra provides
industrial, municipal



Tundra specializes in measurement & analytical instrumentation, boilers & steam generation, water treatment, EV charging, electric motors & adjustable speed drives, valves & actuation, custom panels & buildings, and related solutions.

es a variety of solutions to suit industrial, light
municipal and commercial process applications.



Tundra recognizes the need for support beyond
standard working hours. Tundra offers 24/7 service to
ensure clients are supported all day, every day.



BOILERS & WATER TREATMENT

In addition to world-class packaged boilers, Tundra offers burner and control upgrades to optimize and ensure combustion efficiency as well as CSA B149.3 compliance. Quality valves and steam traps are available for immediate delivery to keep your boiler room running. Tundra's team of factory trained technicians offer 24/7 service to ensure your system is never down. Take advantage of Tundra's "water in, steam out" process guarantee. Combine Veolia water treatment technology with Cleaver-Brooks steam generation to ensure safe, reliable, and efficient process operation.



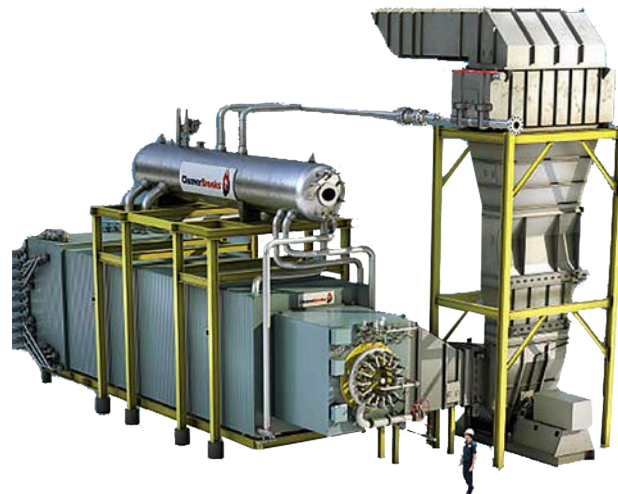
SUSTAINABLE BOILER PLANT SOLUTIONS

Cleaver-Brooks sets the bar for industry-leading, energy efficient, low emission solutions. They offer expertise and additional sustainable solutions based on customer requirements.



Decarbonization
Energy Efficiency
Renewable Fuels
Emissions Reduction





COMMERCIAL

INDUSTRIAL

Tundra Process Solutions is the exclusive distributor for Cleaver-Brooks in Alberta and Saskatchewan. Cleaver-Brooks is leading the industry with research & development of commercial and industrial steam boiler technology and auxiliary equipment for any steam or hot water system. For the oil sands market, the large capacity Cleaver-Brooks forced-circulation oil sands steam generator (FC-OSSG) offers industrial users the benefits of traditional D-style watertube boilers and the ease of cleaning of once-through steam generators (OTSG).

Cleaver-Brooks products are supported by over 90 years of innovation and expertise. Whether it's a new boiler installation, a boiler retrofit, or a waste heat recovery unit (WHRU), Cleaver-Brooks offers fully integrated systems including boilers, burners, controls, and auxiliary equipment.



Boiler Solutions, Packaged Burner Systems, Controls and Boiler Parts

- Condensing, Firetube & Watertube Boilers
- Ultra Low NOx, Energy Efficient Gas Burners
- Industrial Watertube Boilers, Burners & Heat Recovery Steam Generator (HRSG) Systems
- FC-OSSG Boilers for Oil Sands
- CBCW Pre-engineered Fired Watertube Boiler



Combustion Gas, Oxygen Measurement
& Water Quality Analyzers



Whittier Filtration



Boiler Rentals



MOTORS & DRIVES

Tundra Process Solutions sells and services all Toshiba low and medium voltage motors, adjustable speed drives, motor starters and custom control gear. Toshiba's reputation is founded on a 'no-compromise' philosophy for product design, manufacturing and after-sales service. With a large in-stock inventory of motors, drives and spare parts, Tundra is able to deliver a quick turnaround time on all products and services. In-house testing and repair services are available and factory trained technicians can be dispatched to site 24/7.



TOSHIBA MOTORS

TOSHIBA LOW VOLTAGE MOTORS EQP GLOBAL SERIES

- EQP Global Severe Duty (SD), EQP Global 840 (Mill & Chemical) and EQP Global 841 (Petro-Chemical)
- NEMA Premium® Efficiency (1 - 500 HP)
- Low Voltage Motors (0.5- 1500 HP)
- 240/480/600 Volt
- Complete range of enclosures:
 - Totally Enclosed Fan Cooled (TEFC)
 - Totally Enclosed Explosion Proof (TEXP)
 - Open Drip Proof (ODP)
 - Totally Enclosed Air Over (TEAO)
 - Weather Protected (WPI & WPIL)
- Global motor specifications including CE, NEMA and IEC
- Multi-mount on 140 through 445 and N449T frames

TOSHIBA MEDIUM VOLTAGE MOTORS

- HP Range 200 - 70,000 HP
- Complete range of enclosures:
 - Weather Protected (WPI & WPIL)
 - Totally Enclosed Fan Cooled (TEFC)
 - Totally Enclosed Air-to-Air Cooled (TEAAC)
 - Totally Enclosed Water-to-Air Cooled (TEWAC)
 - Totally Enclosed Force-Ventilated (TEFV)
 - Open Drip Proof (ODP)
- Vertical and horizontal mounting
- Manufactured to meet worldwide standards
- API 541, 546, 547 general and special purpose
- Squirrel cage and wound rotor induction motors
- Synchronous motors

TOSHIBA DRIVES

TOSHIBA LOW VOLTAGE ADJUSTABLE SPEED DRIVES (ASD)

- Sizes from 0.5 to 1500 HP
- 240 to 690 Volt
- Outdoor installation (NEMA Type 3R, 4, 4X)
- Indoor installation (NEMA Type 1, 3, 12)
- Dual-frequency 50/60 Hz
- Low harmonic solutions

TOSHIBA MEDIUM VOLTAGE ADJUSTABLE SPEED DRIVES (ASD)

- Medium voltage drives to 11,000 HP
- 2400 V, 4160 V, 6600 V, 13.8 kV and REGEN
- Sync-XFER®/capture (multiple motors synchronized transfer and capture)
- Dual-frequency 50/60 Hz
- Enclosure NEMA Type 1 and 3R
- 24/36 pulse harmonic cancellation complies with IEEE-519

POWER APPARATUS & COMPONENTS (PAC)

- MV Switchgear and Control Gear
- Medium Voltage Motor Starters:
- Full Voltage Non-Reversing (FVNR)
- Full Voltage Reversing (FVR)
- Reduced Voltage Autotransformer (RVAT)
- Low Voltage Solid State Starter (SSS)
- Uninterruptible Power Systems (UPS)
- Components: Contractors and Relays

TUNDRA INTEGRATED SOLUTIONS

- Outdoor installation (NEMA Type 3R, 4, 4X)
- Indoor installation (NEMA Type 1, 3, 12)
- Panel solutions:
 - Low Harmonic Panels
 - Pump Jack Panels (PJP)
 - Progressive Cavity Pump Panel (PCP)
 - Electric Submersible Pump Panels (ESP)
 - Buildings
 - Skids





MEASUREMENT & ANALYTICAL

Tundra Process Solutions is one of Canada's largest instrumentation, measurement and control solutions suppliers. Tundra specializes in selecting, sizing and supplying equipment to support analytical, flow, level, temperature, and pressure measurement. To support Tundra's valued clients, Tundra offers in-house factory trained service technicians and sales support to assist with any programming, troubleshooting or start-up and commissioning activity.



Flow, Pressure, Temperature, & Level Transmitters | Process Analytical incl. Chromatography,
Continuous Gas, Continuous Emissions, Water RVP, Combustion, H₂S/H₂O/CO₂ Nat. Gas Contaminants,
RVP & Combustion Analyzers | Process Controllers, Recorders & Indicators



Flow Computers and Remote
Terminal Units (RTU)



Magnetic Liquid Level Gauges | Magnetostrictive,
Guided Wave Radar, Laser,
& Ultrasonic Level Transmitters | Differential Pressure



Industry Canada Approved
Liquid and Gas Flow Computers and
Measurement Automation Software



MEASUREMENT



ANALYTICAL



GAS & FLAME DETECTION

Panametrics

Ultrasonic Flow Metering including
In-line & Clamp-on for Gas/Liquid
Service, Flare Metering,
Moisture & Gas Analyzers



V-Cone
& Wafer-Cone
Flow Meters



Fixed Combustible & Toxic Gas,
Flame Detection, Turnkey PLC based
Monitoring & Control Solutions



Combustible & Toxic Gas
Detection, Flame Detection, Ultrasonic
Gas Leak Detection, Control Systems



Pre-Insulated, Heat-traced
Tubing Bundle, Winterization
Enclosures & Instrument Stands



Horns, Beacons,
Strobes



Calibration Gas &
Maintenance Accessories



VALVES & ACTUATION

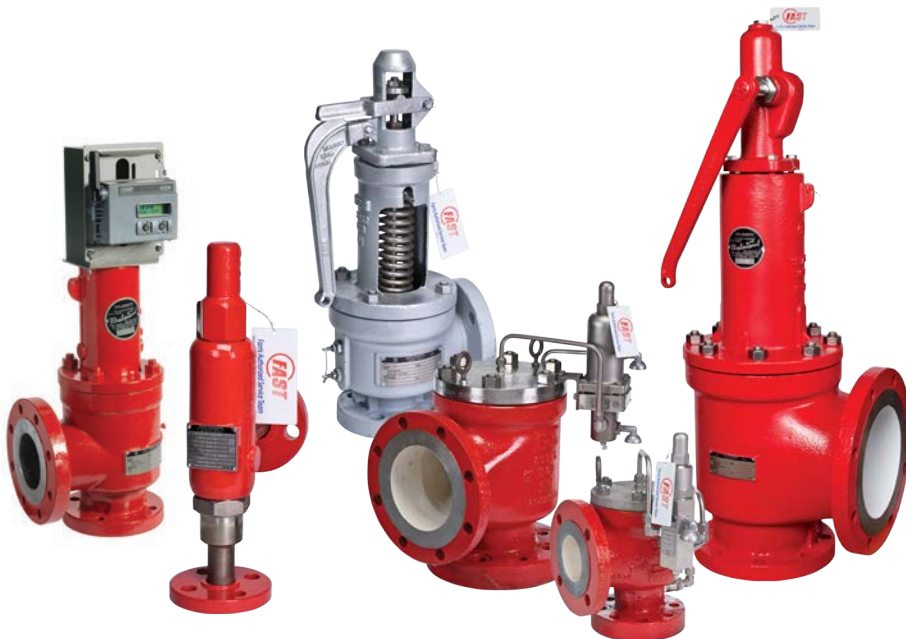
Tundra offers an extensive selection of valves for control and isolation applications, in addition to linear and rotary valve actuation. Tundra's full line of pressure management devices ensure personnel, facility and environment safety. Tundra offers a comprehensive selection of steam traps and certified technicians to perform facility steam audits and steam trap surveys to optimize plant efficiency and reduce unexpected maintenance. Tundra facilities, and mobile valve service units, are capable of valve assembly, service, testing and recertification.



PRESSURE MANAGEMENT



Process, Steam and Specialty Relief
Valves Pressure Relief System





CHOKE, ISOLATION, INSTRUMENTATION, CONTROL & ACTUATION



Actuators & Positioners



Instrumentation Valves & Manifolds



Pigging and Pressure Isolation Valves
& Wellhead Pressure Switches



Flow Control Products



Ball Valves, Gate, Globe & Check Valves



Flow Control Products



CSA B149.3 Approved Valves for Gas & Liquid
Shutoff, & Compliant Fuel Train Pkgs.



Trunnion DIB Ball Valves



Ball Valves, Gate, Globe, Check



Ball, Butterfly, Gate,
Globe, & Check Valves



Choke Valves



Solenoid Valves, Filter Regulators
& Quick Exhaust Valves



Choke Valves & Actuation



Model T3 Ball Valves



Forged Gate, Globe, Dual Plate Check,
Ball Valves & Through Conduit Gate Valves



Actuation Solutions for all Applications
Pneumatic & Hydraulic



High Efficiency Steam Traps, Pump-Traps, &
Prefabricated Condensate Drainage Packages



Valve Actuators & Accessories



Positioning & Position
Monitoring Devices



Trunnion & Floating Ball Valves



API6D Check Valves



PANELS & BUILDINGS

Tundra Process Solutions provides custom solutions including prefabricated panels, buildings, and equipment.

Tundra works with clients and suppliers to provide high quality, turnkey indoor/outdoor designs that ensure long life and product performance.



VFD /ELECTRICAL BUILDINGS

- Tundra offers a full range of buildings, options and accessories for a variety of applications
- Packages include integration of Toshiba drives, Motor Control Centres, HVAC, and electrical
- Minimize customer resource requirements:
- Take advantage of Tundra's procurement, design and construction services
- Single point of contact for support

SCHNEIDER ELECTRICAL PARTNERSHIP

- Over 75 years of MCC (first Square D MCC was released in 1945)
- Canadian Manufactured – assembled in Edmonton, AB
- Nema 1, 3R and 12 enclosure ratings • Arc Flash Mitigation
- MCC Integration - Schneider MCCs provide unmatched reliability, safety and performance in industries such as oil & gas, petrochemical, and water/wastewater

MEASUREMENT & ANALYTICAL PACKAGES

- Continuous Emissions Monitoring (CEMS)
- Chromatography
- Spectroscopy
- Natural Gas Contaminants Including:
- Trace H₂S, CO₂, H₂O



Schneider
Electric





CUSTOM PANEL SOLUTIONS

ELECTRIC SUBMERSIBLE PUMP (ESP), SCREW PUMP (PCP) & PUMP JACK

- Available voltages 230, 460, 575, 690 VAC
- Outdoor installations (NEMA Type 3R, 4, 4X)
- Indoor installations (NEMA Type 1, 3, 12)
- Compact design for reduced space requirements
- Reduces operating costs
- Reduces downtime
- Ability to start an ESP while motor is spinning
- Sequence-start for use on wells with stuck pumps
- Soft-start function
- Load-side, phase-to-phase, short-circuit protection
- Sine wave output filter
- Low harmonic option available
- Extend driven equipment life
- Increases pump efficiency
- Dynamic braking resistor

Options Prepackaged pad systems • Indoor self-contained building • Outdoor open grate skid mount



RTU PANEL

- Outdoor installations (NEMA Type 3R, 4, 4X)
- Indoor installations (NEMA Type 1, 3, 12)
- Custom panel sizes to suit any installation requirement
- Available as a standalone unit or a complete system package
- Flow computer, well-optimization and remote monitoring integration
- Certified to CAN/CSA STD C22.2 for use in Class-1, Division-2 hazardous locations

CUSTOM PANEL SOLUTIONS

- Available voltages 230, 460, 575, 690 VAC
- Outdoor installations (NEMA Type 3R, 4, 4X)
- Indoor installations (NEMA Type 1, 3, 12)
- Low harmonic option available
- Custom panel sizes to suit any installation requirement
- Available as a standalone unit or a complete integrated package

LOW HARMONIC

- Available voltages 230, 460, 575, 690 VAC
- Outdoor installations (NEMA Type 3R, 4, 4X)
- Indoor installations (NEMA Type 1, 3, 12)
- Limits total current harmonic distortion to 8% TDD (<6% typical at full load)
- The LH Series ASD meets current distortion limits outlined in IEEE Std 519-1992 "IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems"
- Lower filter cost when compared with 12 & 18-pulse designs
- Decreased sensitivity to voltage imbalance when compared to 12 & 18-pulse designs
- Decreased sensitivity to line disturbances vs. Active Front End (AH) drive-based filters
- Uninterrupted operation; the ASD will continue to operate in the event of a filter shutdown



POLYPHASE PANELS

Polyphase Engineered Controls Panels, by Tundra Process Solutions:

- Control Panels (e.g., PLC, DCS, SIS)
- RTU Panels for remote sites and pipeline operations
- Protection Panels
- Electrical Distribution Panels
- Contactor Panels
- Mimic Panels
- Marshalling Cabinets
- Communication & Networking Panels



PANEL DESIGN & APPROVALS

- Outdoor installation (NEMA Type 3R, 4, 4X)
- Indoor installation (NEMA Type 1, 3, 12)
- ETL listed (Canada, and the U.S.A)
- ETL Listed including Class 1, Division 2, Non-Incendive
- ISO 45001:2018_Certificate No. Q108040
- ISO 14001:2015_Certificate No. Q107831
- ISO 9001:2015_Certificate No. Q107832



PΦLYPHASE
ENGINEERED CONTROLS



ELECTRIC VEHICLE (EV) CHARGING SOLUTION

Tundra Process Solutions offers source-to-socket EV charging solutions that lay the foundation for a future of smarter, reliable, and emission-free mobility. Tundra's connected chargers are durable, reliable, and easy to service—ensuring pro-active maintenance and timely updates. Our EV charging technology maintains the highest standards for safety and reliability, while being backed by the most respected engineering and service teams in the electrification industry.

- FULL RANGE OF CHARGING SOLUTIONS UP TO 450kW
- 1M+ CHARGERS SOLD WORLDWIDE
- OPERATING IN 85+ COUNTRIES
- 13+ YEARS OF EXPERIENCE
- SERVICE PROGRAMS FOR UPGRADES AND REPAIR 24/7



TUNDRA PROCESS SOLUTIONS OFFERS TURNKEY INSTALLATION, COMMISSIONING, AND SERVICE FOR THE FOLLOWING SEGMENTS:

- Multi-Unit Residential Buildings (MURBs)
- Retail & Hospitality
- Fleet ▪ Workplace
- Network Operators
- Heavy commercial
- Dealerships
- Scheduled maintenance plans





MAINTENANCE & SUPPORT

Tundra's Reliability, Maintenance & Support team can solve the most challenging maintenance and reliability issues. Tundra offers factory trained technicians that are available 24/7 to assist with start-up, commissioning, preventative maintenance programs, troubleshooting and repairs. Tundra holds a Certificate of Recognition (COR), and believes in safety as a core value.



THE TUNDRA GUARANTEE

**TUNDRA OFFERS A
100% SATISFACTION
GUARANTEE ON ALL
PRODUCTS, PARTS AND SERVICES.**

**CONTACT US FOR
MORE INFORMATION AT
1-800-265-1166 or
info@TundraSolutions.ca**

TUNDRA'S SERVICE DEPARTMENT PROVIDES:

- Certified factory trained technicians available on-call 24/7
- On-site service capabilities for industrial and commercial customers
- Remote troubleshooting and tech support
- Same-day response
- Emergency shipments available 24/7
- Long-term and short-term maintenance agreements
- Local inventory and emergency shipments available 24/7
- Computerized inventory link system with over 6,000 additional parts ready for shipment
- Scheduled maintenance plans





RELIEF VALVE SERVICES

Tundra's relief valve service capabilities are offered at centres throughout Western Canada, including a National Board-Certified Farris Authorized Service Team (FAST) Centre. Service Centres, OEM parts, inventory, and mobile service units are available 24/7. Tundra service teams and facilities are available for individual valve repair or complete facility turn-around requirements.

**TUNDRA SUPPLIES,
ASSEMBLES AND SERVICES
PRESSURE RELIEF, ROTARY
& LINEAR CONTROL
& CHOKE VALVES.**



VALVE, AUTOMATION, & SERVICE

- Steam, Air, and Liquid Relief Valve Testing
- Pressure Relief Valve Supply w/Rush-Ship Inventory
- Rotary Valve Supply and Actuation
- Pneumatic, Electric & Hydraulic Actuation (including remote-site hydraulic power packs)
- Emergency Shut Down (ESD) Valve Packages
- CSA B149.3 Gas Safety Shutoff Valves
- Wellhead Choke Assemblies
- Control Valve Repair and Refurbishment
- Valve Repair
- Surplus Management
- Valve Service Units for On-Site Maintenance
- Mobile Relief Valve Service Units





LEARNING MATTERS

Learning is in our DNA, and not only do we support our people in unlocking their full potential through life-long learning, listening and feedback, but it's important to us that we support our clients in doing the same.

TUNDRA EDUCATION CENTRE

At Tundra, we strive to live our core value of Learning Matters, while encouraging others to do the same.

Via several multifunctional training locations, Tundra offers a curriculum that adapts to client needs, requests, and industry trends. We offer pre-scheduled classes, classes on-demand, on-site training, and virtual education sessions.



To Learn More, or to book a Training Session?

EMAIL US AT

info@TundraSolutions.ca



**SCAN THIS
QR CODE,**
to check out
upcoming events
& education.



TUNDRA IS A WAJAX COMPANY, AND WAJAX BRANDS INCLUDE:



ACTUATED VALVES – ELECTRIC & PNEUMATIC

- A-T CONTROLS
- ABZ VALVE
- ATKOMATIC
- +GF+ SIGNET

ANALYTICAL

- +GF+ SIGNET

FLOW

- AALIAN T
- AW LAKE
- AZBIL / YAMATAKE *
- DELTA M
- BADGER METER
- +GF+ SIGNET
- JACOBY TARBOX
- MID-WEST INSTRUMENT

FORCE GAUGES

- DILLON

GAS DETECTION

- BW TECHNOLOGIES
- BY HONEYWELL
- RAE SYSTEMS BY HONEYWELL

INSTRUMENT VALVES & FITTINGS

- CIRCLE SEAL
- GO-REGULATOR
- HOKE GYROLOK
- MAC-WELD

LEVEL

- AMETEK PMT
- BINDICATOR
- DELTA M

MANUAL VALVES

- A-T CONTROLS
- ABZ VALVE
- +GF+ SIGNET
- SUN VALVES
- MAC-WELD

PRESSURE

- AMETEK PMT
- AMETEK US GAUGE
- FIKE *
- MID-WEST INSTRUMENT
- UNITED ELECTRIC *

PROCESS CONTROL & MONITORING

- AMETEK PMT
- PRECISION DIGITAL

TEMPERATURE

- AMETEK LAND
- AMETEK US GAUGE
- APPLIED SENSOR

TECHNOLOGIES *

- DELTA M
- TEL-TRU
- UNITED ELECTRIC *

CERTAIN BRANDS MAY NOT BE AVAILABLE IN ALL BRANCHES. FOR ALL OTHER BRANDS NOT LISTED, PLEASE CONTACT YOUR LOCAL BRANCH



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REGIONAL OFFICES CANADA

EDMONTON, FORT MCMURRAY, GRANDE PRAIRIE,
LLOYDMINSTER, RED DEER, SASKATOON, VANCOUVER, FORT ST. JOHN

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