

INDUSTRIAL SERVICE & SUPPLY

www.rbcengineering.ca or Call or Text 306-716-3000

- Installation -
- Commissioning -
- Energy Audits -
- Retrofits -



- IIOT – PREDICTIVE MAINTENANCE:
- Vibration - Flow - Oil - Thermal -



GENERAL CONTRACTING:

- New Building Construction -
- Demolition - Renovations -



- PLC - Motors - Fans -
- Blowers - Pumps -
- 5HP to 500HP



Plant Maintenance & Renovations

Industrial Storage Solutions



- PRE-ENGINEERED MEZZANINES:
- From two level catwalk shelving to six-level Industrial structures



- MOBILE CUSTOM SEA CANS:
- Gensets - Tool Cribbs -
- Storage - Air Compressors -

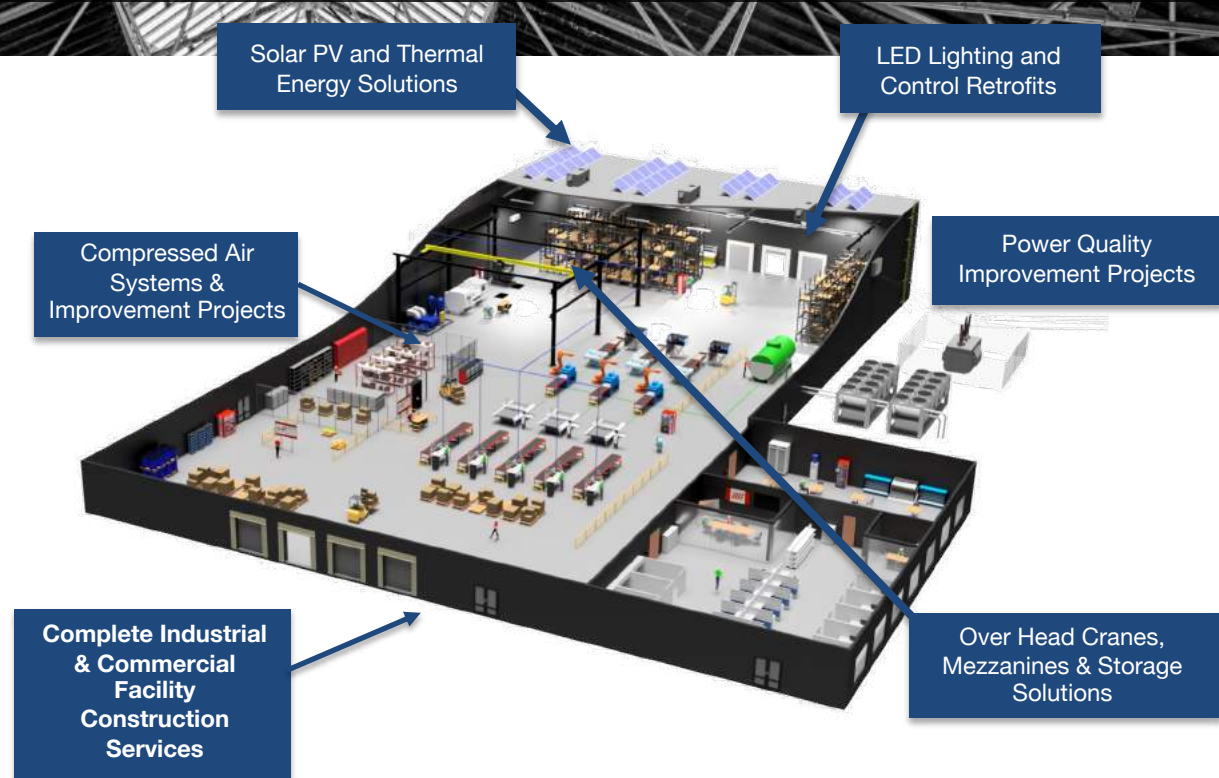


Industrial & Commercial
GENERAL CONTRACTOR

GENERAL CONTRACTING SERVICES – New Construction & Renovations

NEW CONSTRUCTION & RENOVATIONS:

- Complete Turn-Key Construction Services
- Additions, Parts Rooms, Material Handling
- Compressed air systems and upgrades
- OH cranes, Mezzanines & Shelving
- Solar PV and thermal energy solutions
- LED lighting and control retrofits
- Power quality improvement projects
- Mechanical efficiency improvement
- Smart Sensor implementation for PM



General Contracting Services

New Construction - Demolitions - Renovations

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110,000 Square Foot Facility in Saskatoon Saskatchewan



INGERSOLL RAND: COMPRESSOR SYSTEMS – Authorized Distributor



Services

- Air System design and installation
- **7.5HP to 500HP Ingersoll Rand Compressors**
- Compressed air audits and upgrades
- Complete pneumatics automation services
- Mobile or relocatable sea container fabrication
- Preventive maintenance programs



Benefits

- Ingersoll Rand Authorized Distributor
- **Wholesale pricing with drop shipping**
- Systems pre-tested prior to installation
- Commissioning and warranty



75HP Sea Container Fabrication

SMART - PREDICTIVE OR PREVENTIVE MAINTENANCE



Services

- Engineering and design including smart sensors
- Maintenance, installation and commissioning
- Project management and free consultation
- Facility implementation and energy audits
- CSA approval and CFIA implementation
- Air / Pneumatics, Hydraulics, Flow, Vibration



Benefits

- Cloud or independent IIOT applications available
- HVAC, pneumatic, hydraulic, electrical and machine health is more efficient and reliable.
- Enhances part availability, delivery and efficiency
- Easy to use app on your smart phone or device
- On-site and on-line training available 24/7

IOT Predictive Maintenance: Machine Health Status

Oil, Thermal, Vibration & Flow Projects: 2015-2021

Repair or Restore	RED 6-10
Investigate or Mitigate	AMBER 2-5
No Action or Watch	GREEN 0-2
No Scheduled Data Available	BLUE 0

99.99%
efficiency



Predictive Maintenance Overview: Utilization & Health Status

HTST-3 HOMOGENIZER: 150HP MOTOR

OEM Machine Model: Gaulin 7900gpm mc1001.7t (p or f)s
MCC: Room 6.2 #2B SOUTH CIP



Machine runs 20 hrs/day
5 days a week

Saputo

Alert level - scaled from 1-10 using the following criteria

Repair or Restore	RED 6-10
Investigate or Mitigate	AMBER 2-5
No Action or Watch	GREEN 0-2
No Scheduled Data Available	BLUE 0

Fault Type - Name of fault or faults detected

Machine Health

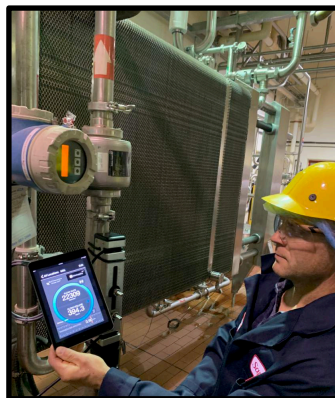
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Last Equipment Failure: 2:30pm Feb 1, 2019

Homogenizer 7900 GPM

Installed new motor and re-started machine on Friday Feb 1, 2019 @ 6:30pm

Actual Catastrophic Failure Predicted & Resolved by Predictive Maintenance



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cowan dynamics

Authorized Distributor



IOT SMART SENSORS

AC MOTORS & PUMPS & VFD's

0.25HP TO 500HP

ASTA
NUMATICS

RBC
ENGINEERING

Parker

Nidec
-All for dreams

NEMA
Premium
SMART MOTORS

WEG

SIEMENS

MaxMotion

IR Ingersoll Rand

Howden
Roots

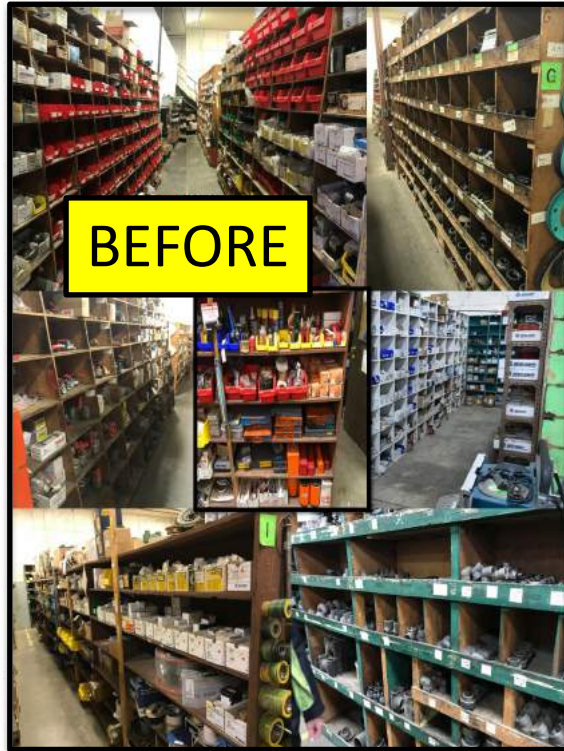
TEC
MOTORS

TECO
Westinghouse

Industrial Storage Solutions

Projects: 2016-2021

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CONVEYOR SYSTEMS & MEZZANINE STRUCTURES



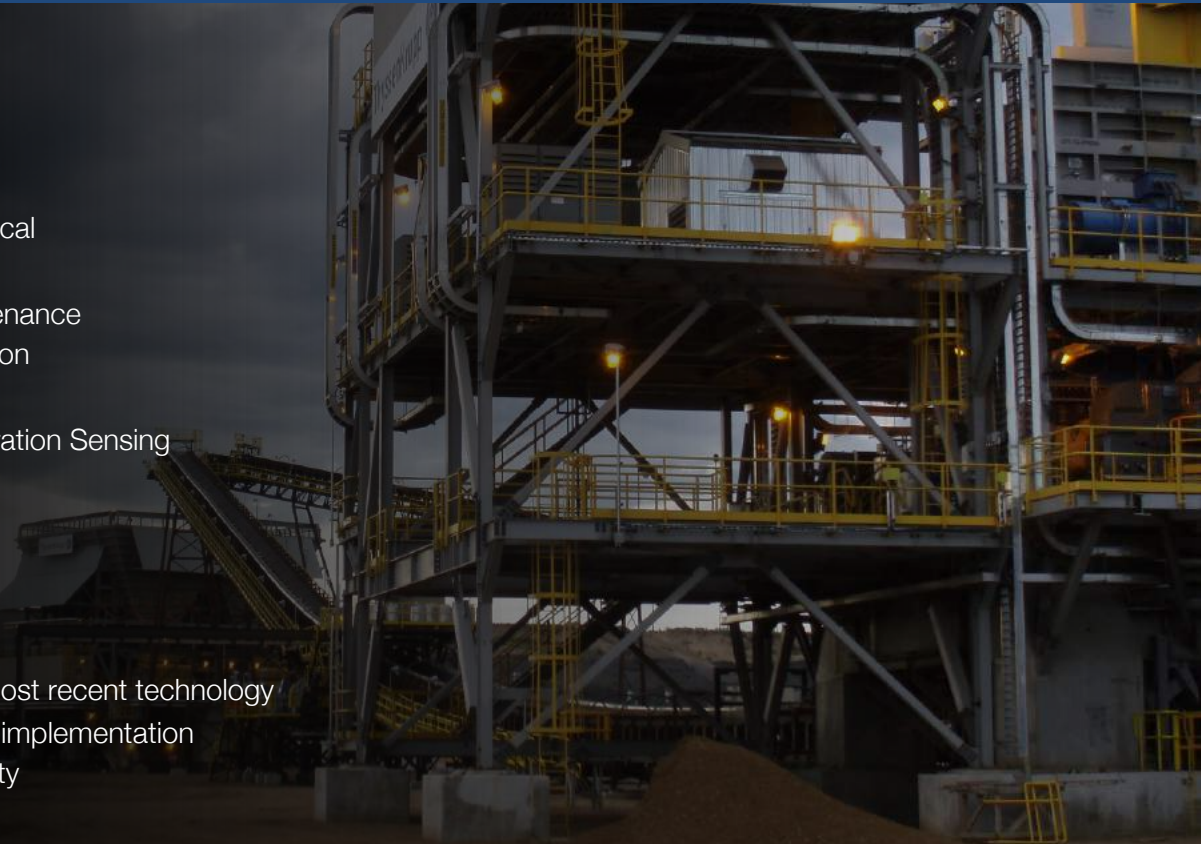
Services

- Hydraulic, Pneumatic, Mechanical & Electrical
- Pulley, belt, chain and drive solutions
- Industrial automation and predictive maintenance
- Laser alignment and smart sensor installation
- Auto lubrication design and installation
- Engineered Mezzanines with PM/SHM Vibration Sensing



Benefits

- Single source option for turnkey solutions
- Designers and technicians trained on the most recent technology
- Multi-brand authorization for successful co-implementation
- Co-Factory acceptance testing and warranty



AUTOMATION & ELECTRICAL DRIVE SYSTEMS



Services

- Plant or Facility or Machine Design and Build
- Machine guarding and panel fabrication (UL508)
- 0.25HP – 500HP AC wholesale motor SUPPLY
- Programming – PLC/HMI/Servo
- Ai Industrial Automation & Robotics
- Smart NEMA premium predictive maintenance



Benefits

- CSA certification and implementation
- Electricians and automation experts
- Access to leading brands and technology
- On-site service and repair



We are a fully integrated design, fabrication, installation, maintenance and construction engineering company servicing the industrial, commercial, municipal and residential industries. Our partnering facilities across Canada have state-of-the-art equipment and highly skilled personnel.

Industrial Automation

Maintenance, Repair & Operations
GENERAL CONTRACTOR

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