

INDUSTRIAL SERVICE & SUPPLY

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

GENERAL CONTRACTING:

- New Building Construction -
- Demolition - Renovations -
- Pre-Engineered Buildings -

IIOT – PREDICTIVE MAINTENANCE:

- Vibration - Flow - Oil - Thermal -

FACILITY IMPLEMENTATION:

- SMART Motors / Blowers / Fans / Pumps -
- Industrial Automation -
- Digital Transformation -

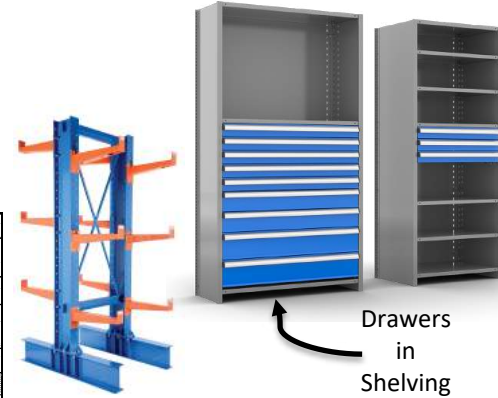
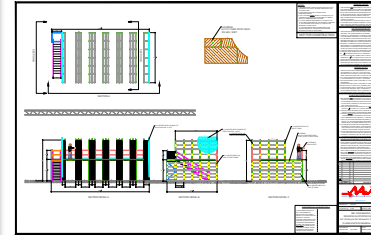
WHOLESALE SUPPLY:

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

Plant Maintenance & Renovations

WAREHOUSE RACKING & SHELVING:

- Design - Wholesale Supply - Installation -



PRE-ENGINEERED MEZZANINES:

From two-level catwalk shelving to six-level Industrial structures

MOBILE CUSTOM SEA CANS:

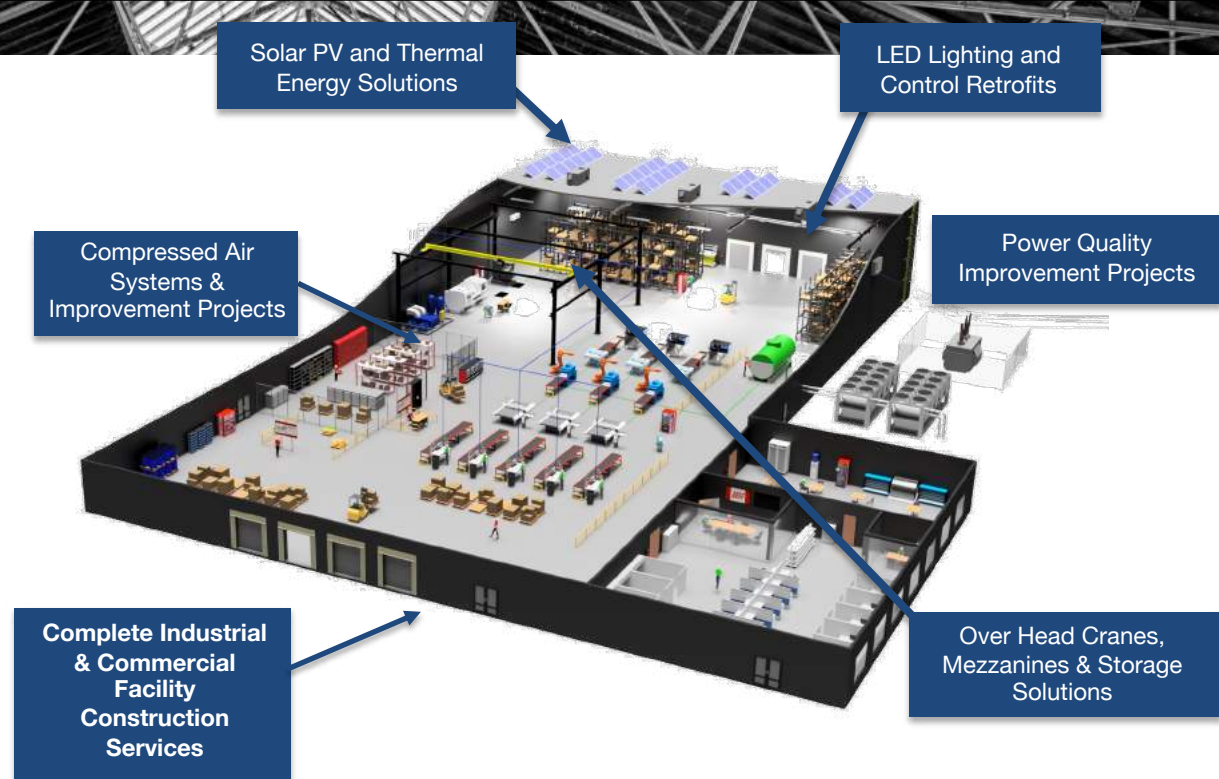
- Offices - Camps - Storage -
- Tool Crib - Skid Shacks -
- *Lease, Rent Or Purchase*

Industrial Storage Solutions

GENERAL CONTRACTING SERVICES - New Construction & Renovations

NEW CONSTRUCTION & RENOVATIONS:

- Complete Turn-Key Construction Services
- Pre-Engineered Wood & Steel Buildings
- 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 Renovation in Saskatoon Saskatchewan



Pre-Engineered Steel Buildings

Design - Manufacture - Supply - Turn-key

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8-12 weeks for delivery, then 3-4 weeks for assembly and 6-12 weeks for completion



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 – digital transformation
- 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 - Digital Transformation

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| | |
|-----------------------------|--------------|
| 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 |

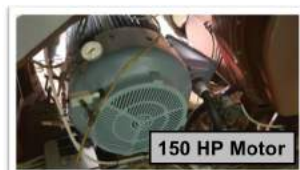
99.99%
efficiency



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 |
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Fault Type - Name of fault or faults detected.

Machine Health

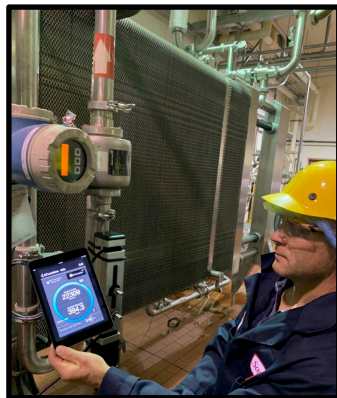
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Last Equipment Failure: 2:30pm Feb 1, 2019

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



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

Max Motion

IR Ingersoll Rand

Howden
Roots

TEC
MOTORS

TECO
Westinghouse

Industrial Storage Solutions

Mezzanines, Pallet Racking, Shelving



Boltless Industrial Shelving:

- Integrated Modular Drawers with compartments for parts
- 18 or 20 gauge steel options
- Slotted Angle Shelving
- Battery & Tire Racking
- Galvanized Steel (rust-free)



Pallet Racking



Cantilever Racking



Structural Steel Mezzanines



Multi-Level Shelving Mezzanines



PRE-ENGINEERED SOLUTIONS
GENERAL CONTRACTOR

We are a fully integrated design, fabrication, installation, maintenance and construction engineering company servicing the industrial, commercial and residential industries.

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