

INDUSTRIAL SERVICE & SUPPLY

www.rbcengineering.ca or Call or Text 306-716-6302

GENERAL CONTRACTING:

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

IIOT – PREDICTIVE MAINTENANCE:

- Vibration - Flow - Oil - Thermal -
- Water & Dairy CFU/IBC Analysis -

FACILITY IMPLEMENTATION:

- SMART Motors / Blowers / Fans / Pumps -
- Industrial Automation - Robotics -
- Water & Waste Treatment -

WHOLESALE SUPPLY:

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

Plant Maintenance & Renovations

WATER & WASTE TREATMENT SOLUTIONS:

- Industrial - Commercial - Agriculture - Residential -



PRE-ENGINEERED MEZZANINES:

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

MOBILE CUSTOM SEA CANS:

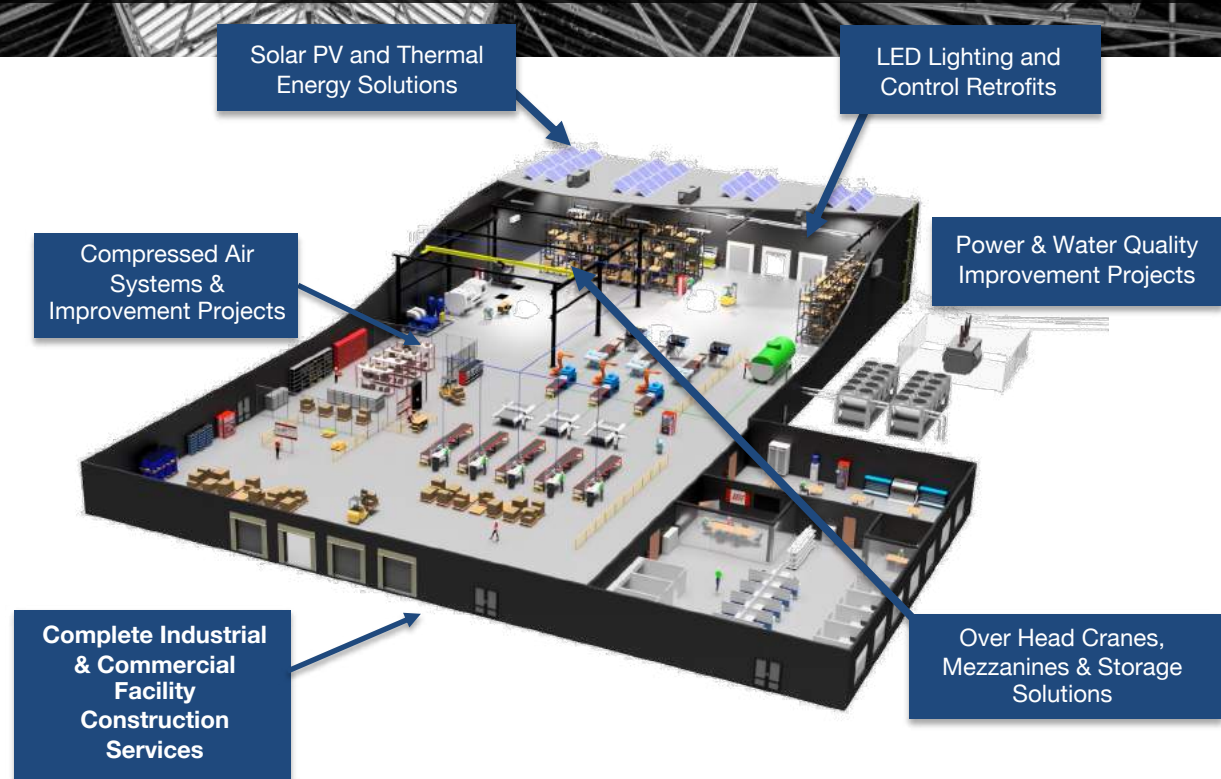
- Water Treatment Skids -
- *Lease, Rent Or Purchase*

Pre-Engineered 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
- Water & Waste treatment systems
- 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



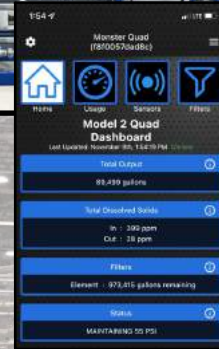
Pre-Engineered Steel Buildings

Design - Manufacture - Erect - Turn-key

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WATER TREATMENT: HANS™ Premium Water – Authorized Distributor



Services

- Water & Waste Treatment Design & Installation
- **Up to 95% recovery rates**
- Industrial, Commercial, Agriculture, Residential
- Design, service, supply & installation services
- Mobile or relocatable sea container fabrication
- Water & waste treatment piloting services



Benefits

- Authorized Distributor with parts in-stock
- Water treatment sea container mobile rentals
- Systems pre-tested prior to installation
- Commissioning, water testing and warranty
- Mobile app control and monitoring

COMPRESSOR SYSTEMS: INGERSOLL RAND – 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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cowan dynamics

Authorized Distributor



IOT SMART SENSORS

AC MOTORS & PUMPS & VFD's

0.25HP TO 500HP

ASCO
NUMATICS

RBC
ENGINEERING

Parker

Nidec
-All for dreams

NEMA
Premium
SMART MOTORS

WEG

SIEMENS

Max Motion

IR Ingersoll Rand

Howden
Roots™

ITC
MOTORS
UP

TECO
Westinghouse

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

150 HP Motor

Saputo

Alert level - scored 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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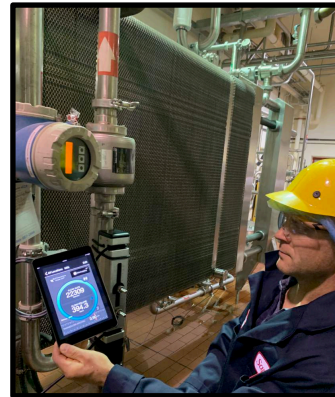
Last Equipment Failure: 2:30pm Feb 1, 2019



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





PRE-ENGINEERED SOLUTIONS
GENERAL CONTRACTOR

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

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