

## OUR **QUALITY** STANDARDS

- ISO 9001 : 2008
- ISO 26000

### **We are:**

- Siemens certified partners
- Bonfiglioli certified partners

### **We use:**

- CSA certified products
- UL-C/US certified products
- CE marking

**OPTIMIZE** THE EFFICIENCY OF YOUR  
PLANT & **REDUCE** OPERATING COSTS

**THE OIL FREE EWG OPERATOR IS A FULLY ELECTRIC  
WICKET GATE OPERATOR SYSTEM THAT CONTROLS  
THE WATER FLOW RATE OF HYDROELECTRIC  
TURBINES, ELIMINATING THE USE OF OIL.**

### **MODERNIZATION AT THE CENTER OF BUSINESS DECISIONS**

The EWG Operator is the premier solution to respond to your modernization needs for efficient energy production without risk to the environment. It provides very accurate, stable and highly dynamic water flow controls.

1275 Newton Street, # 15  
Boucherville, Canada J4B 5H2  
1 (450) 655-7447  
[www.ewgoperator.com](http://www.ewgoperator.com)

**DS TECH**  
A DIVISION OF FRANKLIN EMPIRE INC.

**EWG**  
OPERATOR

## TECHNICAL DATA

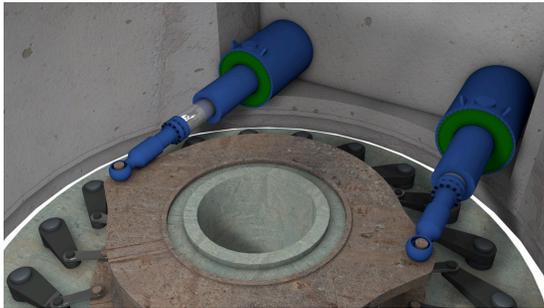
<b>Closing time for full stroke</b>	Secure and adjustable
<b>Closing time</b>	Fixed speed, adjustable and secured
<b>Actuating force</b>	Up to 5000 kN
<b>Preventive maintains frequency</b>	12 months
<b>Supply voltage for accessories</b>	120/230 VAC, 50/60 Hz
<b>Autonomous stationary capacity</b>	36 seconds full speed 3600 seconds standby stationary
<b>Supply voltage for the controllers</b>	400/575 VAC, 50/60 Hz
<b>Current consumption for the VFD</b>	284 A, max. 330 A
<b>Input signal</b>	4 - 20 mA, other on request
<b>Communications (optional)</b>	PROFINET, other on request
<b>Fail-safe operation</b>	Mechanical, software and hardware redundancy
<b>Ambient temperature</b>	-20 to +40°C, other on request
<b>Protection class</b>	IP 65 standard, others on request
<b>Safety class</b>	Standard non-explosive areas, other on request

### The EWG Operator is an automated electromechanical system which integrates:

- Motion control units
- Servo motors
- Maintenance free couplings
- Maintenance-free failsafe brakes
- High capacity linear actuators
- Secured mechanical redundancy
- Software and hardware redundancy control
- Autonomous stationary standby sources of energy
- Embedded displacement transducers

### With over 20 years experience, we guarantee custom procedures adapted to the specific conditions of each work site. Our services are:

- Installation
- Technical support
- Training
- Monitoring conditions
- Maintenance



## YOUR BENEFITS

### In addition to :

- Meeting today's environmental requirements
- Significantly reducing maintenance costs
- Reducing insurance fees through improved risk management
- Eliminating the use of addition systems required for the recovery of contaminated water



### Our solution offers a simplified system that has a smaller footprint than existing equipment.

#### You can now :

- Gain considerable physical space
- Eliminate the requirement for a ventilated & air conditioned room to house lead-acid batteries
- Eliminate the risks related to hydrogen gas emission from standard lead-acid battery use
- Eliminate all ancillary systems required to operate a traditional hydraulic system

The EWG Operator is a safe system that installs and operates easily

## OUR ADDED VALUE LIES IN 3 FUNDAMENTAL CHARACTERISTICS

### Direct replacement

Allow the substitution of the existing hydraulic system without any modification required to the dam's civil structure (Acts as a retrofit). Its implementation is adaptable to multiple configurations and fast installation ensures a very limited shut down period.

### Waterproof

In case the turbine generator shaft floods, the EWG system can work in total immersion owing to its complete impermeability.

### Automatic alignment

The connection points of the system support multi-axial misalignment in the event of movement in the infrastructure or the hydroelectric equipment.

The EWG Operator is a safe and reliable system with very high MTBF (mean time between failures) eliminating thousands of liters of oil per turbine needed in traditional oil-based servomotor wicket gate operators.