

Smarter solutions, delivered faster

## ROBUST GATE ACTUATORS by Watch Technologies



Easily installed, solar- and SCADA- ready, significantly lower priced, and shipped in 4 weeks.

### Available in 3 models:

**WT-100 Light-Lift Gate Actuator\***: Best solution for small to medium gates and valves for irrigation turnout automation, pump and pipeline control stations, and water treatment plant valve control.

**WT-200 Medium-Lift Gate Actuator\***: Best solution for medium to large gates and valves at headgates, check structures, canals, laterals, pipeline control stations, water treatment, and industrial applications.

**WT-300 Heavy-Lift Gate Actuator\***: So strong, it's scary – up to 200 ft lbs torque and more. Perfect for large and hard to open gates and valves, headgates, check structures, canals, laterals, pipelines, and a variety of industrial applications.

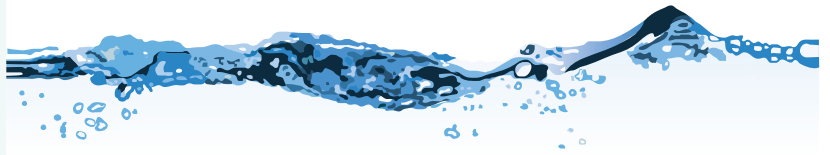
**Unique design**: Unlike other companies' actuators that are increasingly complicated, expensive, and hard to fix, WT invented sprocket and chain actuators that are so simple by design that anyone can assemble, operate, and maintain them. WT Gate Actuators fit any rising or non-rising stem gate or valve and cost significantly less.

**With or without a "brain"**: With an embedded, programmable controller, WT Gate Actuators manage flow, levels, and scheduled operations either stand-alone, or connected to a larger SCADA system. WT Gate Actuators allow external sensor input and can run multiple gates.

**Instant fit with all Watch Technologies' integrated products**: WT is the ONLY U.S. company that designs and manufactures innovative sluice gates of all sizes, actuators, and SCADA systems that all link together seamlessly and cost efficiently -- no system integration required.

\*WT-100 Light-Lift Gate Actuator – Patent Pending, WT-200 Medium-Lift Gate Actuator – Patent Pending, WT-300 Medium-Lift Gate Actuator – Patent Pending.





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## Specifications Summary



### ● WT-100 Light-Lift Gate Actuator: Standard Configuration

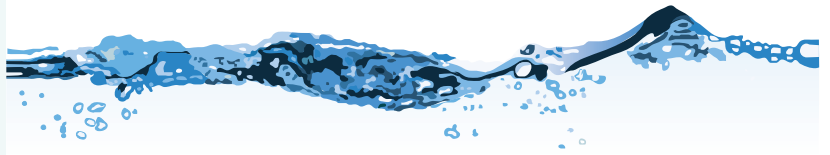
- **Drive System:** Machined Bronze Drivenut, Sprocket and #40 chain, typical 1:1 ratio other ratios optional, Roller thrust bearing above and below drivenut
- **Torque Range:** 12.5 ft. lbs. to 41.6 ft. lbs continuous; 29 ft. lbs. to 72.8 ft. lbs. breakaway
- **Power Requirements:** 12 VDC typical, ~2.5 Amp-Hr/day for adjustments (12 per hr typical), fused torque limits
- **Electrical Panel:** Switches: (1) ON/OFF, (2) Mode: Manual/Auto (stand-alone ops or SCADA) (3) Manual: Momentary Up/Down Toggle, Circuit breaker, external 12 VDC power (optional)
- **Battery:** 12/24 VDC, 10 Amp-Hr SLA battery, additional external capacity (optional)
- **Terminal Strip:** Standardized numbered 20-pin din-rail mounted strip terminating all actuator wiring, accommodates external sensor and control inputs terminations
- **Options:** Internal position sensor, vertical or horizontal stem orientation, limit switch assemblies, telemetry (RF, satellite, hardwire), embedded controller (flow, level, or position control, custom programming)



### ● WT-200 Medium-Lift Gate Actuator: Standard Vertical or Gearlift Configuration

- **Drive System:** Machined Bronze Drivenut, Sprocket and #40 chain, typical 1:1 ratio other ratios optional, Roller thrust bearing above and below drivenut
- **Torque Range:** 25 ft. lbs. to 110 ft. lbs continuous; 40 ft. lbs. to 192.5 ft. lbs. breakaway
- **Power:** 12 or 24 VDC, 3.76 – 7.5 Amp-hr/day for adjustments (12 per hr typical), fused torque limits
- **Electrical Panel:** Switches: (1) ON/OFF, (2) Mode: Manual/Auto (stand-alone ops or SCADA) (3) Manual: Momentary Up/Down Toggle, Circuit breaker, external 12 VDC power (optional)





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- **Battery:** 12/24 VDC, 10 Amp-Hr SLA battery, additional external capacity (optional)
- **Terminal Strip:** Standardized numbered 20-pin din-rail mounted strip terminating all actuator wiring, accommodates external sensor and control inputs terminations
- **Options:** Internal position sensor, vertical or horizontal stem orientation, limit switch assemblies, telemetry (RF, satellite, hardwire), embedded controller (flow, level, or position control, custom programming)

## WT-300 Heavy-Lift Gate Actuator: Standard Vertical or Gearlift Configuration

- **Drive System:** Sprocket Machined Bronze Drivenut, Sprocket and #40 chain, typical 1:1 ratio other ratios optional, Roller thrust bearing above and below drivenut
- **Torque Range:** 22.5 ft. lbs. to 192.5 ft. lbs continuous; 40 ft. lbs. to 337 ft. lbs. breakaway
- **Power:** 12 or 24 VDC, 7.2 – 14.4 Amp-hr/day for adjustments (12 per hr typical), fused torque limits
- **Electrical Panel:** Switches: (1) ON/OFF, (2) Mode: Manual/Auto (stand-alone ops or SCADA) (3) Manual: Momentary Up/Down Toggle, Circuit breaker, external 12 VDC power (optional)
- **Battery:** 12/24 VDC, 10 Amp-Hr SLA battery, additional external capacity (optional)
- **Terminal Strip:** Standardized numbered 20-pin din-rail mounted strip terminating all actuator wiring, accommodates external sensor and control inputs terminations
- **Options:** Internal position sensor, vertical or horizontal stem orientation, limit switch assemblies, telemetry (RF, satellite, hardwire), embedded controller (flow, level, position control, custom programming)

