



# WARRIOR

MOVE PIPE BETTER™

Q1  
API Spec Q1  
Registered  
Q1-3419

8C-0314

## AC ELECTRIC TOP DRIVE (500 and 750/1000 ton)

Warrior's revolutionary design is a step-change in top drive technology, providing the end-user with features and benefits not available in existing top drives.



For applicable patents see [www.warriorrig.com/company/patents](http://www.warriorrig.com/company/patents)

This innovative Warrior top drive maximizes uptime by significantly improving reliability, redundancy and serviceability.

Numerous design advancements improve operational safety and efficiency:

### High Performance

Industry leading continuous torque ratings

### Redundant Power Delivery

Four independent power pathways from the AC bus to the top drive quill

No single-point sources of failure from generator to drill pipe

### Revolutionary Power Transmission

No gearcase

No power transmission lubrication

### Serviceability

Most major modules are interchangeable without specialized technicians

Comprehensive advanced diagnostics

### Safety & Efficiency

Comprehensive feedback of pipe handler functions

Enhanced user interface and top drive control functions

### Optional Top Drive Retraction System

Improved trip speeds

### Optional Integrated Casing Drive

Casing running tool not required

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# BALANCED TOP DRIVE



*Retractable Bucket/Hook Adapter*

*Two High Efficiency AC Blower Motors*

*Advanced Washpipe Handling (no hammer nuts)*

*Four High Output AC Induction Motors (balanced weight)*

*Integrated Folding Service Platform*

*Power Transmission*

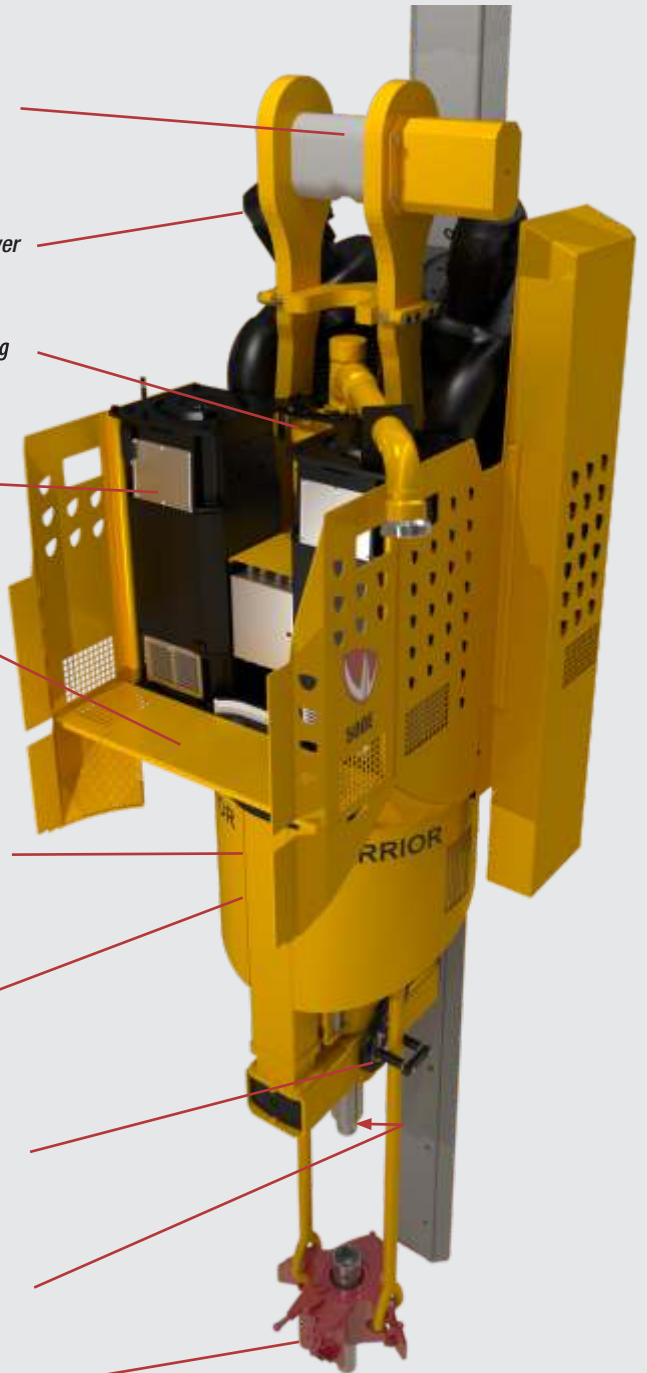
*Integrated Casing Drive (optional)*

*Fully Instrumented Rotatable Pipe Handling System*

*Mechanically Synchronized Link Tilt*

*Zero-G Soft-Stubbing Quill*

*Elevator Link Snubbing*



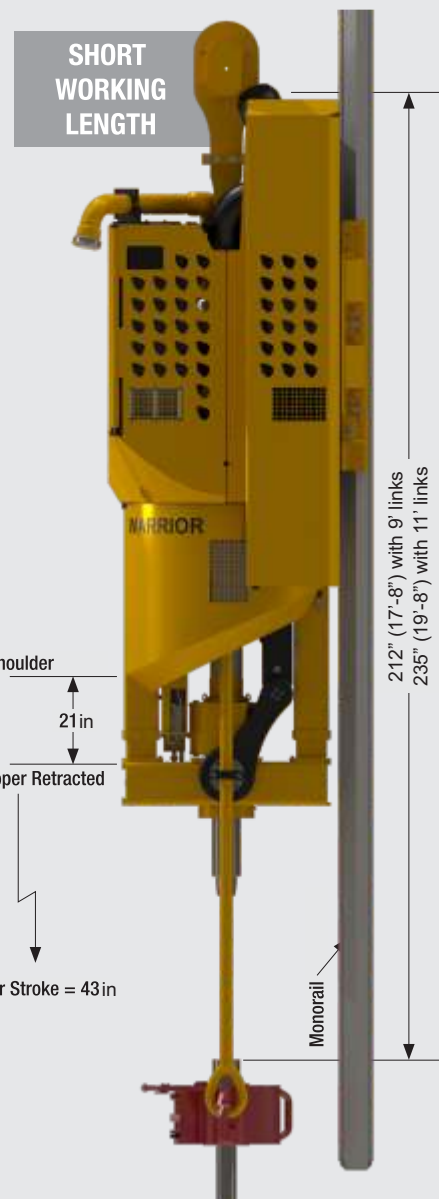
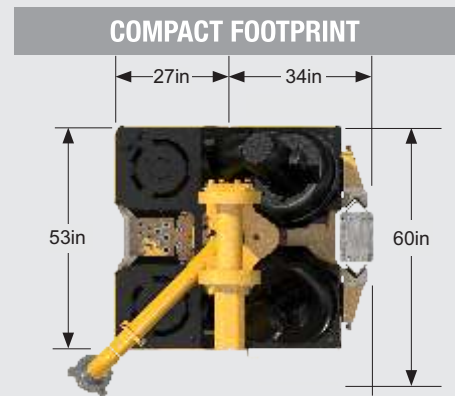
## REVOLUTIONARY POWER TRANSMISSION

- Balanced motor distribution
- Four independent modular drives
- High-capacity synchronous belt drives
- Highly redundant - operations can continue with major component failure
- Externally serviceable without specialized technicians
- No gearcase or power transmission lubrication

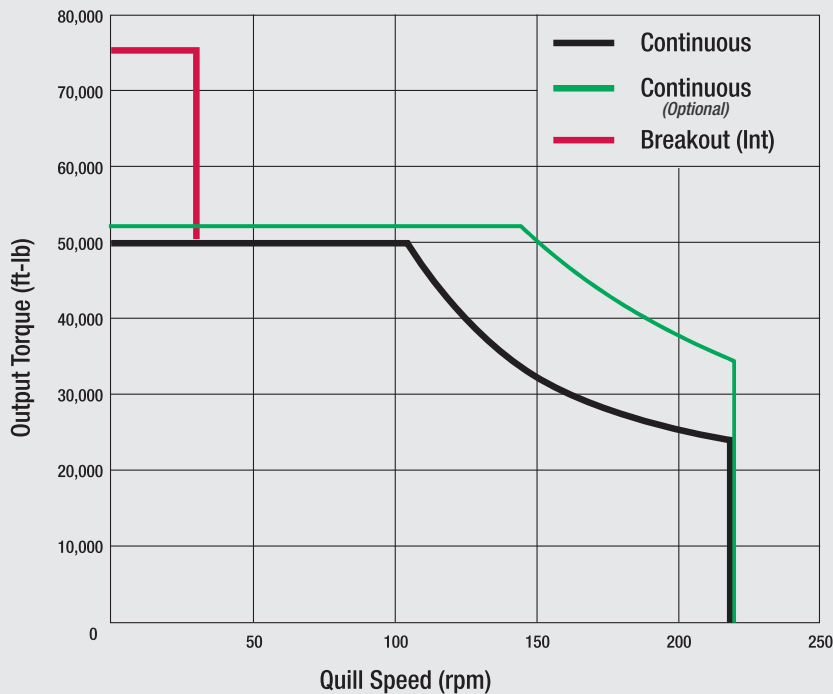


# WARRIOR 500E ELECTRIC TOP DRIVE SPECIFICATIONS

<b>Hoisting Capacity, API 8C</b>	
Static (Elevator Load Path)	500 tons
Static (Quill Load Path)	500 tons
<b>Breakout Torque</b>	75,000 ft-lb
<b>Continuous Torque Rating (Standard)</b>	50,000 ft-lb @ 105 rpm
<b>Continuous Torque Rating (Optional)</b>	52,000 ft-lb @ 145 rpm
<b>Maximum Speed</b>	220 rpm
<b>Motors</b>	4 x 250 HP, AC induction (standard) 4 x 360 HP, AC induction (optional)
<b>Electrical Area Classification</b>	CSA Class 1 Zone 2 (standard) ATEX Zone 2 (optional) ATEX Zone 1 (optional)
<b>Cooling System</b>	2 x 10 HP blowers
<b>Watercourse</b>	3 inch, 7500 psi
<b>Gripper Diameter Range</b>	
Drilling	4.50 to 9.75 in
Integrated Casing Drive	Up to 9-5/8 casing
<b>Quill Connection</b>	6-5/8 Reg
<b>Zero-G Soft-Stabbing Quill Travel</b>	5.75 in
<b>Elevator Link Snubbing Travel</b>	7.75 in
<b>Approximate Weight</b>	32,000 lbs



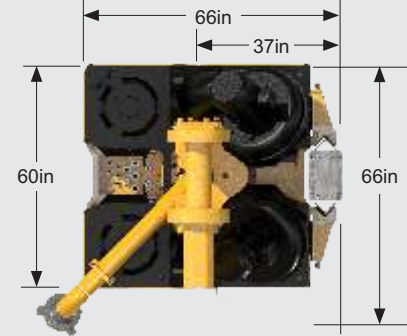
## WARRIOR 500E TOP DRIVE PERFORMANCE



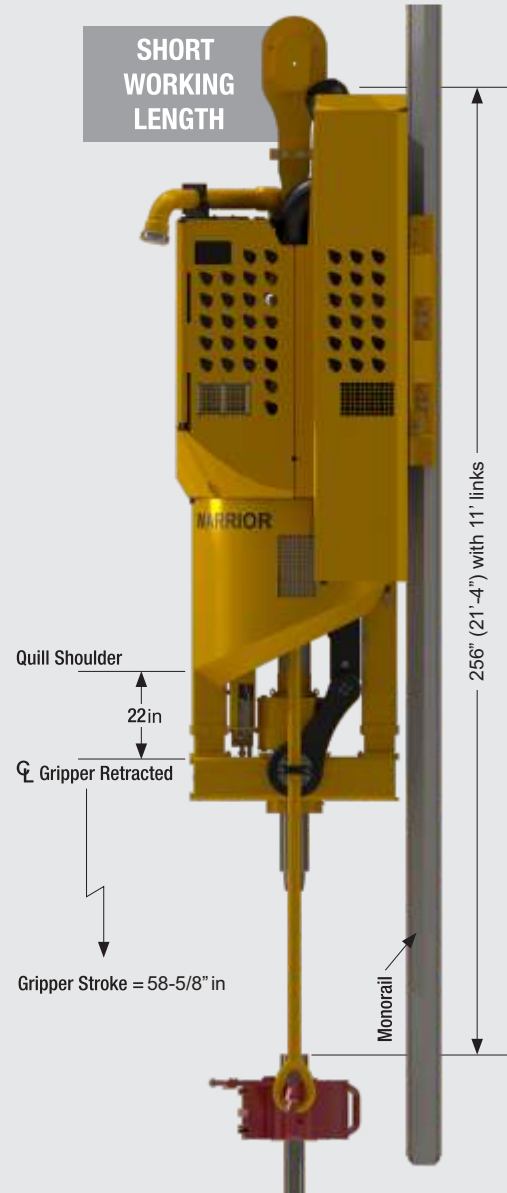
# WARRIOR 750E ELECTRIC TOP DRIVE SPECIFICATIONS

<b>Hoisting Capacity, API 8C</b> Static (Elevator Load Path) Static (Quill Load Path)	750 tons (Optional 1000 tons) 750 tons
<b>Breakout Torque</b>	110,000 ft-lb
<b>Continuous Torque Rating (Standard)</b>	79,000 ft-lb @ 105 rpm
<b>Continuous Torque Rating (Optional)</b>	74,000 ft-lb @ 150 rpm
<b>Maximum Speed</b>	220 rpm
<b>Motors</b>	4 x 400 HP, AC induction (standard) 4 x 525 HP, AC induction (optional)
<b>Electrical Area Classification</b>	CSA Class 1 Zone 2 (standard) ATEX Zone 2 (optional) ATEX Zone 1 (optional)
<b>Cooling System</b>	2 x 20 HP blowers
<b>Watercourse</b>	4.00 inch, 7500 psi
<b>Gripper Diameter Range</b> Drilling Integrated Casing Drive	4.50 to 10.63in Up to 9-5/8 casing
<b>Quill Connection</b>	7-5/8 Reg
<b>Zero-G Soft-Stabbing Quill Travel</b>	5.75 in
<b>Elevator Link Snubbing Travel</b>	7.25 in
<b>Approximate Weight</b>	45,000 lbs

## COMPACT FOOTPRINT



## SHORT WORKING LENGTH



## WARRIOR 750E TOP DRIVE PERFORMANCE

