



DRILLFORM

FORMING THE FUTURE OF DRILLING EQUIPMENT



BULLDOG

AW160 AUTOMATED FLOOR WRENCH

FEATURES & BENEFITS

SAFETY | Personnel access to the rotating zone is restricted

COST SAVINGS | 360° radial contact with the drill pipe reduces slippage, tool joint wear and pipe distortion

TORQUE ACCURACY | Accurate torque on each connection reduces potential drill string failure

EASE OF USE | Die cartridges allow for quick changes to occur, and a maximum tong rotation of up to 45°

EASE OF MAINTENANCE | Modular and machined components contribute to ease and speed of maintenance

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BULLDOG

AW160 TECHNICAL SPECIFICATIONS

Drillform's Bulldog AW160 facilitates seamless integration into existing rig automation systems. Design features allow for remote diagnostic capabilities, preventative maintenance, and the ability to track and record torque data on each connection. With a focus on creating a safer operating environment, the Bulldog AW160 restricts access to the rotating zone and features a hands-free operating system.

WRENCH

Make-Up Torque: up to 130,000 ft-lbs / 176,256 Nm
Break-Out Torque: up to 160,000 ft-lbs / 216,930 Nm
Minimum Tool Joint Diameter: 3" / 76 mm
Maximum Tool Joint Diameter: 11" / 280 mm

WEIGHT

14,300 lbs / 6,500 kg

CONNECTION HEIGHT

38" - 68" / 972 mm - 1,727 mm

ELECTRICAL

Class 1, Zone 1: Wrench Assembly / Wireless Remote
Class 1, Zone 2: PLC - Drillform - OMRON / Drillers Console
Voltage: 220/120 VAC
Amperage: 15 Amps

VERTICAL & HORIZONTAL TRAVEL

Varies with Delivery System - Refer to Dimensional Specifications

DELIVERY SYSTEM

Drillform offers a variety of tong delivery systems to accommodate rig floor parameters

SPINNER

Up to 12" of independent vertical travel
Ability to accommodate varying pipe sizes and longer tool joints
Torque: 2,500 ft-lbs / 3,400 Nm
Active Turn Monitoring
Tubular OD: Minimum 3" - Maximum 11" / 76 mm - 280 mm
Proportional Speed: 0 - 85 RPM

WRENCH OPERATION

Independent Operation
Wireless operation via belly box
Integration into rig control system and operated via dog house

HYDRAULIC

HPU: Drillform / OMRON
Maximum Flow: 65 GPM / 246 LPM
Maximum Pressure: 3,000 PSI / 20,680 kPa
Cooling Requirements: 20 HP / 25 kW

