



# *Oilfield Bucking Units*

Weatherford oilfield bucking units are coupling application machines (CAM) used to make up and break out tubular goods. The machines are developed for both standard applications and connection challenges encountered in threading and repair shops, pipe yards, and completions. Modular customization of the units and powerful accessories enable the skillful makeup and breakout of various tubular connections.

The bucking units product line includes the ComCAM unit for rotational applications and the TorkWizard™ and TorkWrench™ units for nonrotational applications. For rotational makeup/breakout with the ComCAM unit, the advanced torque-process-control (TPCPro) computer analysis system monitors the torque curves.

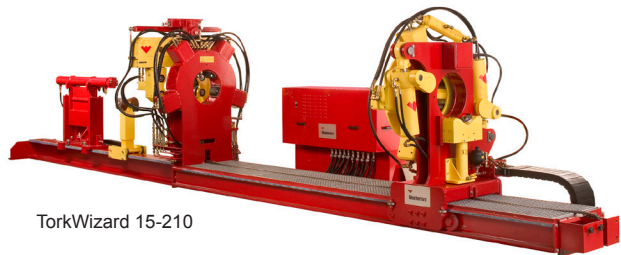
Weatherford provides a worldwide network for optimum support of these units. Related service offerings include tubular management services, which supply casing and pipe yard services, inventory management, and pipe preparation prior to dispatching to the wellsite.

## *Applications*

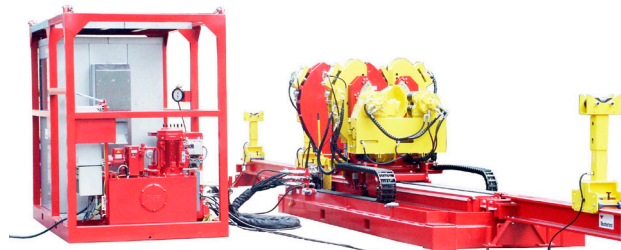
- The ComCAM rotational makeup system is perfect for repair shops, completion services, offline stand builders, and smaller pipe-threading facilities. Connections include tubing, casing, completion, and premium.
- The TorkWizard unit and the TorkWrench mobile-bucking unit (HMBU) are wrenching units that provide nonrotational makeup. The mobile TorkWizard unit can be used to make up or break out most oilfield connections in workshops or rig environments and is especially valuable for achieving high torque. The TorkWrench HMBU serves as a mobile workstation on onshore and offshore rigs. Connections include drillpipe, bottomhole assemblies (BHAs), drill collars, downhole motors, and drilling tools.



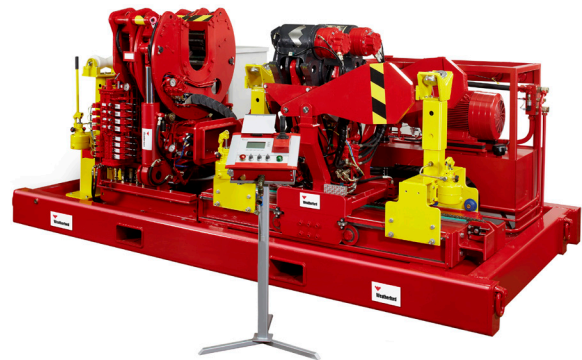
ComCAM 20-160-H: view from free-floating backup side with mounted centering jack, optional extension frame, and hydraulic power unit (HPU), as well as a control panel with stick control, integrated TPCPro, and air conditioner



TorkWizard 15-210



TorkWizard 15-150TL with combined HPU and operator cabin



TorkWrench 10-100 HMBU



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## *Oilfield Bucking Units*

### *Features, Advantages, and Benefits*

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- The units simplify the handling of technical equipment to make operations safer, faster, and more reliable.
- Easy jaw changes keep job preparation time to a minimum, which increases operational efficiency.
- The modular machine design and helpful accessories enable configuration for special purposes, such as subassembly makeup of downhole equipment (ComCAM), offline stand building, or top loading (TorkWizard unit).
- The ComCAM unit enables instant reversal from makeup to breakout. It also automates power tightening to ensure makeup is within 2 percent of the actual torque value.
- The ComCAM unit streamlines operations with a control stick, clamping cylinders, and a TPCPro computer, which provides precise torque measuring, controlling, and recording.
- Various ComCAM frame lengths are available to meet special production requirements, including a short-frame version that can be combined with a height-leveling system.
- For special applications, ComCAM units use the appropriate NANOGrip/TC dies to replace conventional metal-tong dies. These unique, reinforced, nonferrous inserts prevent excessive markings that could cause stress corrosion cracking in expensive corrosion-resistant alloy (CRA) tubulars.
- The TorkWrench HBMU has several features that enhance operational efficiency:
  - High-torque wrenching and spinning units provide faster makeup and breakout operations.
  - The top-loading capability eliminates the need for a pipe-feeding transport.
  - The free-floating spinning system follows the movement of pipe to protect the tool joint and reduce drillpipe damage caused by conventional systems.
  - The compact design of the units allows them to be used on the pipe deck for fast, easy rig up and rig down.
- The versatile TorkWizard unit can make up or break out most oilfield connections in shop or rig environments. It can also transmit torque and accurate measurements on drillstring.
- The TorkWizard TL (top loader) enables top loading of drillstring components, which saves space and time.



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### *Specifications*

Unit	Size (in.)	Maximum Passing OD (in.)	Maximum Torque (ft-lb, N·m)
ComCAM 15-160-H	15	15-1/8	160,000 <sup>a</sup> 216,931
ComCAM 20-160-H	20	21-1/2	
ComCAM 26-200-H	26	30	200,000 271,164
TorkWizard 15-210	15	15-1/8	210,000 <sup>b</sup> 284,722
TorkWizard 15-150TL			150,000 <sup>c</sup> 203,370
TorkWrench 10-100 HMBU	10	10	100,000 135,582

<sup>a</sup> The units provide a torque of 80,000 ft-lb (108,464 N·m) with full rotation.

<sup>b</sup> The values shown represent the maximum breakout torque. The maximum makeup torque is 190,000 ft-lb (257,602 N·m).

<sup>c</sup> The values shown represent the maximum makeup/breakout torque.

### *Options*

- The ComCAM offers optional modules to customize the unit for various applications.
- The TorkWizard 15-210 provides an optional split-type backup for top-loading capability.

### *Additional Information*

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