The AR3200™ sets the standard for performance and reliability. Incorporating modern technology with the field-proven AR3200™ Torque Wrench and the ST-120/ST-200 Spin Wrench, our performance and quality is unmatched. The ST-100 ensures fast and reliable handling of all your drilling connections.

- **Gateless wrench**
- **Economy of rig floor space – no hanging tools**
- **Track mounted**
- **Spinning wrench may counter-rotate to seat threads, then safely spins-in**
- **Available with remote options: distancing personnel from the drill floor hazards**

### TECHNICAL SPECIFICATIONS

| Option | 5’ or 8’ reach (manual/remote) | Remote controlled from... | Yes
| Mount | Track mounted |
| Tubular connection OD range | 4½” to 9⅜” |
| Spin speed | 80 RPM (nominal on 5” DP, 170 LPM) |
| Spin torque | 4,500 lbs. (20,430 N.m) |
| Assembly weight | 11,500 lbs. (4,763 kg) (installed weight) |
| Maximum make-up torque | 196,500 lbs. (886,000 N.m) |
| Maximum break-out torque | 210,000 lbs. (940,000 N.m) |
| Vertical adjustment | 90° (limited only by service loop hoses) |
| Casing ready | No |

**HYDRAULIC REQUIREMENTS**

- Minimum: 35 GPM @ 2,500 psi (132 LPM @ 172 bar)
- Maximum: 55 GPM @ 3,000 psi (208 LPM @ 207 bar)

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The ST-100™ ST-120™

**ST-100™**

- Compact size and light weight is suitable on applications with limited drill floor space.
- Complete with all long connection hoses.
- Floor socket mounted.
- Rotation angle: 90° (limited only by service loop hoses).
- Tubular connection OD range: 3⅞” to 10”.
- Spin speed: 80 RPM (nominal on 5” DP).
- Spin torque: 100 RPM (nominal on 5” DP).
- Assembly weight: 19,800 lbs. (8,981 kg) (installed weight).
- Maximum make-up torque: unspecified.
- Maximum break-out torque: unspecified.
- Connection height: 31.5” to 73.4” (800 mm to 1,864 mm).
- Horizontal travel: 60” (1,524 mm) or 96” (2,438 mm).
- Vertical adjustment: 36” (914 mm).
- Casing ready: No.

**HYDRAULIC REQUIREMENTS**

- Minimum: 45 GPM @ 2,000 psi (170 LPM @ 135 bar).
- Maximum: 45 GPM @ 2,500 psi (170 LPM @ 172 bar).

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**ST-120™**

- Gateless wrench.
- Economy of rig floor space – no hanging tools.
- Track mounted.
- Spinning wrench may counter-rotate to seat threads, then safely spins-in.
- Available with remote options: distancing personnel from drill floor hazards.

**Technical Specifications**

| Option | 12’ reach (manual/remote) | Remote controlled from... | Yes
| Mount | Track mounted |
| Tubular connection OD range | 3⅞” to 10” |
| Spin speed | 80 RPM (nominal on 5” DP) |
| Spin torque | 100 RPM (nominal on 5” DP) |
| Assembly weight | 19,800 lbs. (8,981 kg) (installed weight) |
| Maximum make-up torque | unspecified |
| Maximum break-out torque | unspecified |
| Connection height | 31.5” to 73.4” (800 mm to 1,864 mm) |
| Horizontal travel | 144” (3,658 mm) |
| Vertical adjustment | 42” (1,067 mm) |
| Casing ready | Yes |

**HYDRAULIC REQUIREMENTS**

- Minimum: 45 GPM @ 2,500 psi (170 LPM @ 172 bar).
- Maximum: 45 GPM @ 2,500 psi (170 LPM @ 172 bar).

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The ST-120 combines compact design with maximized reach and takes it to an unprecedented level. Completely extracted, the tool extends just over 5 feet from the pivot, minimizing its footprint and leaving more room on the rig floor.

- Travels a full 12 feet, allowing versatile layout configurations.
- Full 60 degrees of rotation and 3 point bite for better grip, quicker make-up.
- Easy replacement with compact size.
- Maximum vertical height of 120 inches.
- Fully automated controls from either the driller’s control console or remote available.
**Technical specifications**

**Options**
- Manual
- Local remote (operator controls for breaker, casing module, rotation table)

**Connection hoses**
- Complete including loop bracket
- With sufficient hose length

**Rotation angle**
- 105° (optional)

**Spin speed**
- 0-100 RPM (nominal on 5" DP)

**Spin torque**
- 3105 ft-lb (4,268 N-m)

**Maximum make-up torque**
- 179,049 lbs-ft (241,038 N-m)

**Maximum break-out torque**
- 290,560 lbs-ft (400,704 N-m)

**Connection height**
- 4712 mm (185"")

**Vertical adjustment**
- See connection height

**Connection ready**
- Yes

**MINIMUM REQUIREMENTS**

**Minimum**
- Minimum 85 GPM @ 3000 psi (420 LPM @ 207 bar)

**Maximum**
- Maximum 131 GPM @ 3000 psi (645 LPM @ 207 bar)

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The ST-160 fully extended travels 13.5 feet, allowing versatile layout configurations. With its trackless design, the new ST-160 continues to improve drill floor safety. The addition of a quick disconnect Drill Pipe Module to a universal casing hanger provides the customer and casing crews a safe alternative for operating casing tongs.

- More torque for connections requiring a higher than normal break-out torque
- Full 60 degrees of rotation and 3 point bite which means better grip, quicker make-up
- High adjustable spinning wrench
- Equipped to handle today's high performance drill pipe connections
- Fully automated controls from either driller's control console or wireless remote control

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**Technical specifications**

**Options**
- Manual
- Local remote (operator controls for breaker, casing module, rotation table)

**Connection hoses**
- Complete including loop bracket
- With sufficient hose length

**Rotation angle**
- 65° (optional)

**Spin speed**
- 0-100 RPM (nominal on 5" DP)

**Spin torque**
- 179,049 lbs-ft (241,038 N-m)

**Maximum make-up torque**
- 179,049 lbs-ft (241,038 N-m)

**Maximum break-out torque**
- 290,560 lbs-ft (400,704 N-m)

**Connection height**
- 2475 mm (97"")

**Vertical adjustment**
- See connection height

**Connection ready**
- Yes

**MINIMUM REQUIREMENTS**

**Minimum**
- Minimum 111 GPM @ 3000 psi (516 LPM @ 207 bar)

**Maximum**
- Maximum 155 GPM @ 3000 psi (710 LPM @ 207 bar)

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The HydraTong multi-purpose tong concept ensures safe and effective make-up of drill pipe, collars, and casing. The modular design allows tool frames to be interchanged to run drill pipe or various casing sizes. It includes the latest Torque Wrench design, which allows 60 degrees rotation ensuring efficiency during make-up and break-out of connections.

- High torque self-aligning spinning wrench
- High accuracy control possibilities
- Robust and maintenance optimized torque wrench
- Dual elevators for spinner and torque wrench
- Sensors for anti-collision system and MMC
- Tool joint finder and stabbing guide

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**Technical specifications**

**Options**
- Manual
- Local remote (operator controls for breaker, casing module, rotation table)

**Connection hoses**
- Complete including loop bracket
- With sufficient hose length

**Rotation angle**
- N/A (optional)

**Spin speed**
- 0-100 RPM (nominal on 5" DP)

**Spin torque**
- 290,560 lbs-ft (400,704 N-m)

**Maximum make-up torque**
- 290,560 lbs-ft (400,704 N-m)

**Maximum break-out torque**
- 290,560 lbs-ft (400,704 N-m)

**Connection height**
- 1310 mm (52"")

**Vertical adjustment**
- See connection height

**Connection ready**
- Yes

**MINIMUM REQUIREMENTS**

**Minimum**
- Minimum 111 GPM @ 3000 psi (516 LPM @ 207 bar)

**Maximum**
- Maximum 155 GPM @ 3000 psi (710 LPM @ 207 bar)

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The HydraTong ARN models let the drill floor remain trackless due to the articulated arm design. In addition, the unit has a modular design allowing interchanging between different tool frames, e.g., from an ordinary tool frame to the casing tong module. The ARN-270 includes the latest torque wrench design, which allows 60 degrees rotation, ensuring efficiency during make-up and break-out of connections.

- Triple grip design ensures better and more accurate torque
- High accuracy control possibilities
- Robust maintenance optimized torque wrench
- Dual elevators for spinner and torque wrench
- Trackless extension towards pipe target
- Optional portable control unit, radio or cable
- Sensors for anti-collision system and MMC
- Tool joint finder and stabbing guide