

30 YEARS OF _____
JOINT INTEGRITY EXPERTISE



CONTROLLED BOLTING SERVICES
ON-SITE MACHINING SERVICES
STATIC MAINTENANCE
EQUIPMENT SALES
TRAINING

COMPREHENSIVE JOINT INTEGRITY SERVICES



TORQUING

- Torque up to 72,000 Nm, suitable for nut sizes up to 245 mm



TENSIONING

- Tensioning for nut sizes up to 6"

- Precision-controlled torquing and tensioning for reliable joint integrity
- High-capacity solutions for critical and high-load applications
- ECITB-certified manpower ensuring compliance with global standards
- Improved safety, accuracy, and operational efficiency
- Up to 200+ crews can be deployed on demand

SMART BOLTING SOFTWARE

Delivers centralized control and advanced data management for precision bolting operations.

- Control up to 4 stations from a single computer
- Multi-brand tool connectivity via Ethernet, Wi-Fi, and Bluetooth
- Barcode/RFID traceability for complete process tracking
- Data export to SQL/Oracle, CSV, and XLS formats





PIPE COLD CUTTING & BEVELING

- Precise, burr-free cuts for pipe diameters from 1" to 56"
- Wall thicknesses - 4 mm and 85 mm
- Flawless bevels with standard angles - 37°5, 22°5, 47°5 & J-Groove preparations, ensuring accuracy and superior weld quality



FLANGE FACING & SERRATION

- Handling sizes from 0" to 120", covering IDs, Ods, and surface mounting requirements
- Advanced machining to restore or enhance flange surfaces
- Ensuring flat, smooth, and grooved finishes for leak-proof connections



FLANGE MAINTENANCE

- Efficiently open flange joints before maintenance
- Ensure precise flange alignment during installation or post-maintenance without misalignment
- Quickly and safely remove seized nuts in corroded environments with hydraulic cold cutting



BOLT LOAD MEASUREMENT

- Continuous remote monitoring of bolt load for optimal performance
- Multiple readout methods for flexible data access
- Ideal for hard-to-reach bolts that become inaccessible after installation

STATIC MAINTENANCE



SHUTDOWN & TURNAROUND

- Structured, multi-phase process focused on safety and timely completion
- Detailed planning prioritizing critical tasks and operational improvements
- Robust safety protocols and hazard assessments

STRUCTURE FABRICATION & INSTALLATION

- Metal cutting, welding and creating prefabricated components
- Expertise and advanced technology - structural steel detailing, 3D modeling, and drafting to optimize designs
- Trained workforce with up-to-date techniques

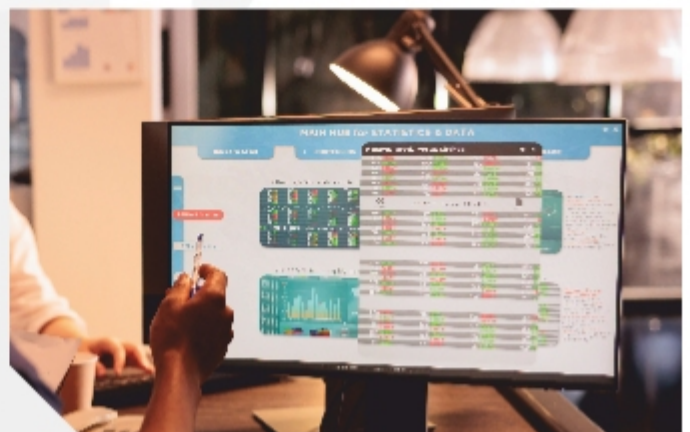


PIPING FABRICATION & INSTALLATION

- Custom piping fabrication and modification services
- Detailed planning and prefabrication
- Precise installation for seamless integration with other construction trades

FLANGE MANAGEMENT SOFTWARE

- Digitally record bolting data with precision
- Monitor and detect issues for improved oversight and efficiency
- Equip technicians with on-the-spot instructions



HYDRAULIC TORQUE TOOL

CNX SERIES - SQUARE DRIVE

TORQUE RANGE 160-81338 Nm
118-59995 ft.lbs.



- ▶ Coarse teeth Ratchet
- ▶ Ratchet Freeing Mechanism
- ▶ One-Way Ratcheting Mechanism
- ▶ Multi-Axis 360°-180° Swivel

CNZ SERIES - HEX DRIVE

TORQUE RANGE 100-80150 Nm
74-59120 ft.lbs.



- ▶ Secondary Pawl for Faster Tightening
- ▶ Ratchet Freeing Mechanism
- ▶ 360° x 360° Hose Uniswivel
- ▶ Square Drive Attachment

CNO SERIES - OPEN SPANNER

TORQUE RANGE 329-11045 Nm
243-8146 ft.lbs.



- ▶ Ultra-Thin Design
- ▶ Interchangeable Bits
- ▶ Ring Spanners
- ▶ Open Spanners
- ▶ 360° x 180° Hose Uniswivel Mechanism
- ▶ Ratchet Spanners

CNS SERIES - HEX DRIVE

TORQUE RANGE 190-12200 Nm
140-8998 ft.lbs.



- ▶ Streamlined S-Part Design
- ▶ 360° Hose uniswivel articulation
- ▶ Versatile Drive Compatibility

TENSIONERS

HFST SERIES
STANDARD TENSIONERS
BOLT SIZE RANGE M16 - M150
3/4" - 5 3/4"



*Spring Return & Custom Direct Fit models are available as per requirements.

HFMT SERIES
MULTI STAGE TENSIONER
BOLT SIZE RANGE M24 - M64
1" - 2-1/2"



HFHN SERIES
HYDRAULIC NUT
BOLT SIZE RANGE M22 - M150
7/8" - 6"



HFTW SERIES
MANUAL TORQUE WRENCH
TORQUE RANGE 2.5-1900 Nm
1.84-1401.36 ft.lbs



TORQUING AND TENSIONING PUMPS

HFWE / HFWP SERIES



ELECTRIC/PNEUMATIC
TORQUING PUMPS

HFEL / HFSE SERIES



ELECTRIC/PNEUMATIC
TENSIONING PUMPS

BOLTING ACCESSORIES

STANDARD & DEEP SOCKETS IMPACT SOCKETS



HFBW SERIES BACKUP WRENCH



FLANGE MAINTENANCE TOOLS

HF-FS SERIES FLANGE SPREADER



- ▶ Safely separates flanges without damage
- ▶ Enables fast, controlled maintenance access
- ▶ Robust hydraulic power up to 25 tons

HFNS SERIES NUT SPLITTER



- ▶ Effortlessly splits even the toughest rusted nuts
- ▶ Heavy-duty hydraulic power for reliable cutting
- ▶ Unique angled blade design for full contact and durability
- ▶ Compact, rugged build handles confined spaces and high loads

IN-SITU MACHINING TOOLS

CBM SERIES COLD CUTTING & BEVELING



- ▶ Light weight
- ▶ Easy installation
- ▶ Fast & precision quality operations
- ▶ Heavy thickness cut
- ▶ T-design pipe beveller available.

ID/OD SERIES FLANGE FACING & SERRATION



- ▶ Modular design for fast setup
- ▶ Precision guide rails for smooth, stable operation
- ▶ Multi-angle, vibration-free processing
- ▶ Adaptable tool holder for diverse machining tasks

BATTERY TORQUE TOOLS

B-RAD XTREME

15000 Nm
Max. Torque Range



- Accuracy of $\pm 4\%$
- Brushless DC Motor

B-RAD SELECT

7000 Nm
Max. Torque Range



- Digital Torque Settings
- Longer Battery Life

B-RAD SELECT OFFSET

7000 Nm
Max. Torque Range



- Durable, Light Weight, Shock Proof
- Equipped with the Latest Lithium-Ion Technology
- Longer Battery Life

PNEUMATIC TORQUE TOOLS

RAD SINGLE SPEED

15000 Nm
Max. Torque Range

- The Ultimate in Power-to-Weight Ratio
- Wide Torque Range to Suit Multiple Applications
- Unmatched Reliability



RAD HIGH SPEED

4000 Nm
Max. Torque Range

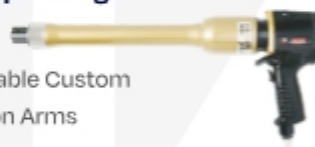
- The Ultimate in Power-to-Weight Ratio
- Wide Torque Range to Suit Multiple Applications
- Accuracy of $\pm 4\%$



RAD WHEEL NUT BOLTING & OTR MINING

2400 Nm
Max. Torque Range

- Removable Custom Reaction Arms
- Accuracy to Ensure Correct Tightened Wheels
- Extended Reaction Point for Safe and Quick Operation



ELECTRONIC TORQUE TOOLS

E-RAD BLU

15000 Nm
Max. Torque Range

► TOUCH CONTROL CASE



- Lightweight and ergonomic pistol grip
- Advanced data logging and tool management features
- Military-grade single cable and connector system
- Available in a 90-degree gearbox
- Easy-to-use interface
- Pre-sets for torque and angle adjustments
- Quick error-free torque and angle adjustments
- Complete recalibrations
- Data logging with export to laptop

ELECTRIC TORQUE TOOLS

V-RAD SELECT

4000 Nm
Max. Torque Range



- Quick Adjust Torque Settings
- Equal Power In Forward & Reverse
- Durable, Light Weight & Shock Proof

AUDIT EQUIPMENT

RAD SMART SOCKET™

16200 Nm
Max. Torque Range



- Measures & Displays Peak Torque
- Full Data Collection

ASSEMBLY TOOLS



TORQUE & ANGLE WRENCH



CONTROLLER



CALIBRATION BENCH



INLINE NUTRUNNER HSX



PISTOL-GRIP
NUT RUNNER PSXBW



ANGLE NUT RUNNER HSXBW



DIGITAL TORQUE &
ANGLE WRENCH



DIGITAL TORQUE &
ANGLE CLICK WRENCH



TORQUE CHECKER CT



ANGLE STRAIGHT



PISTOL



HT-SERIES WITH
TORQUE MULTIPLIER

VALUE ADDED SERVICES

MOBILE SERVICE VAN



TOOLS CALIBRATION UPTO 50K NM



TOOLS REPAIR AND MAINTENANCE



INDUSTRIAL TRAINING & SKILL VALIDATION

The ABS Training Academy, the educational arm of Advanced Bolting Solutions, offers globally recognized **ECITB** Mechanical Joint Integrity courses in India, UAE, and KSA.
(MJ110 - Hand Torque Wrench, MJ118 - Bolt Tensioning, and MJ119 - Hydraulic Torque Wrench).

Our Academy features a fully equipped trade and Skill validation centre, approved by major industries.

We also provide **GWO-certified** courses tailored for the wind industry.



ESTEEMED CUSTOMERS



*Above company names and trademarks used in this brochure are for identification purposes only. Use of these names, trademarks and brands does not imply endorsement.

OUR COMMITMENT TO JOINT INTEGRITY

For industrial organizations seeking a trusted partner in joint integrity & related solutions, but concerned about safety issues and downtime, ABS brings 3 decades of specialized expertise, with a solutions-driven approach that combines advanced equipment and skilled manpower. We extend the life of your equipment, ensuring zero downtime and zero compromise on joint integrity.



OUR GLOBAL ACCREDITATIONS & CERTIFICATIONS



Head Office: ABS House, Plot No. W116(A), MIDC Industrial Area, Kopar Khairane, Navi Mumbai, Maharashtra 400 710, INDIA.
Phone: +91 82828 29795 | **Email:** marketing@absgroup.in
Website: www.absgroupglobal.com

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