



U.S.-MANUFACTURED PRIMARY BOLT

MD-PWBT Series

Heavy-Duty Expansion Sleeve Anchor

U.S.-manufactured primary bolt with a torque-controlled expansion sleeve for normal-weight concrete. Designed for documented, repeatable installation and lot-controlled defense supply workflows.



PRODUCT AT A GLANCE

Anchor type
Torque-controlled expansion sleeve

Nominal diameters
1/4-in through 3/4-in

Base material
Normal-weight concrete

Head / finish
Hex / zinc plated

150 KSI

Minimum ultimate tensile strength of primary bolt

5 SIZES

Nominal diameters matching drill-bit sizes

LOT CONTROL

Inspection, marking, and documentation support

DESIGN AND FIELD BENEFITS

- Finished hex head supports a clean, inspectable installation.
- Anchor diameter matches the required ANSI drill-bit diameter.
- Torque-controlled expansion creates a repeatable field sequence.
- Head and length markings support installed-product identification.
- Certificates, labeling, and kit quantities are available by RFQ.

TYPICAL USES

- Base plates, guards, bumpers, barriers, and rack anchorage
- Machinery, conveyors, and material-handling equipment
- Maintenance fixtures and facility infrastructure repairs
- Federal facilities, depots, shipyards, airfields, and shops
- Defense-contractor programs requiring traceability support

**SERIES CONFIGURATION**

Ordering and construction details

Select the nominal diameter required for the application. Final length, configuration, documentation, and delivery requirements are confirmed during order review.

SKU	Nominal diameter	Unit price	Minimum order
MD-PWBT-10-025	1/4 in	\$49.50 each	10 units
MD-PWBT-10-038	3/8 in	\$54.50 each	10 units
MD-PWBT-10-050	1/2 in	\$60.00 each	10 units
MD-PWBT-10-063	5/8 in	\$66.00 each	10 units
MD-PWBT-10-075	3/4 in	\$72.50 each	10 units

CONSTRUCTION AND FINISH

Component	Merrick Defense specification
Primary hex bolt	U.S.-manufactured carbon steel; SAE Grade 8-equivalent; minimum ultimate tensile strength 150,000 psi
Washer	Carbon steel plain washer; ASTM F844 / ANSI B18.22.2 Type A or approved equivalent
Sleeve, cone, and clip	Source-controlled carbon steel; inspected and assembled under lot-control procedures
Retention elements	Engineered polymer, nylon, or approved equivalent
Standard finish	Zinc plating to ASTM B633 SC1 Type III; alternate finish available by order

ORDER REVIEW

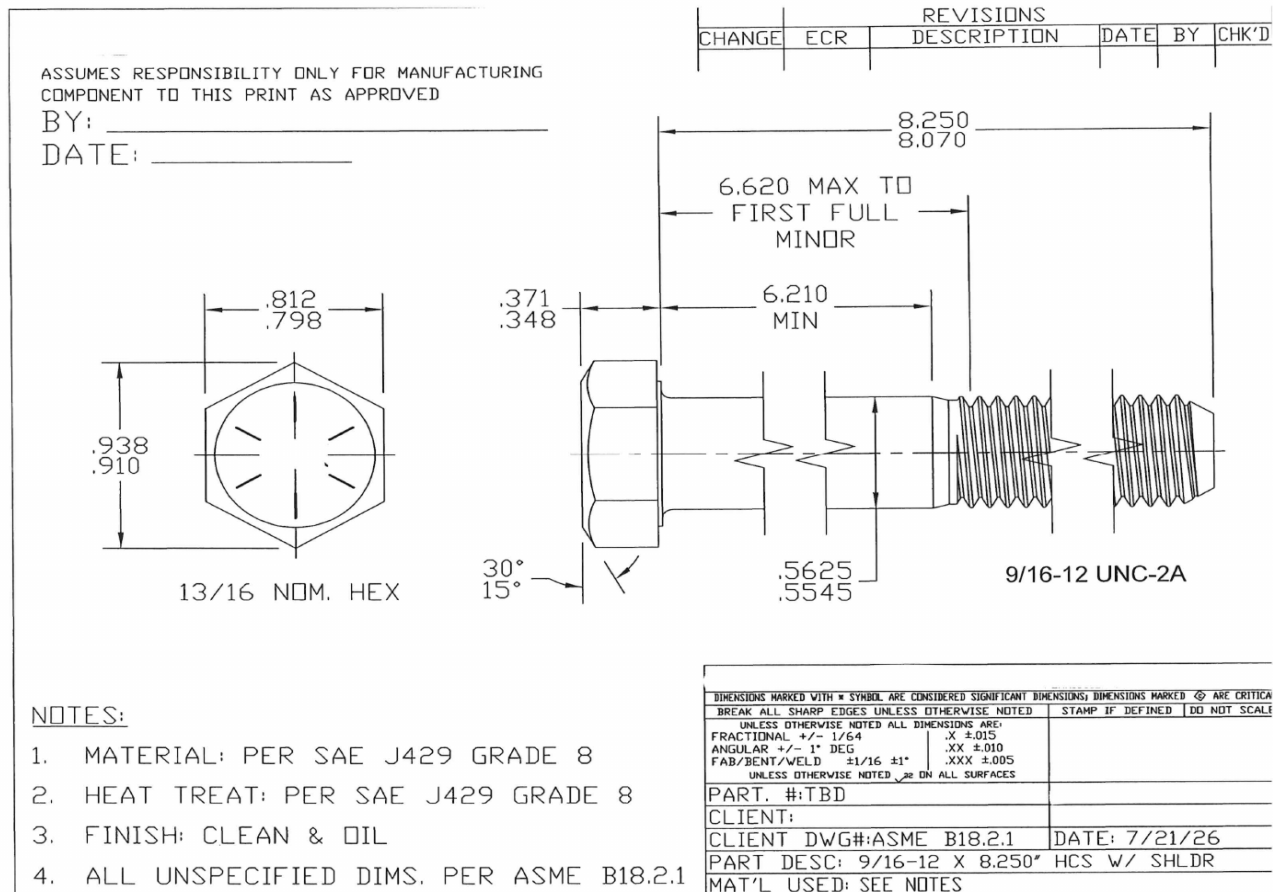
Submit the selected nominal diameter, required length or drawing reference, quantity, delivery location, and any certificate or packaging requirements to orders@merrick-defense.com. Do not send classified, export-controlled, or otherwise sensitive technical data through public email or website forms.



SUPPLIED COMPONENT DRAWING

Reference drawing for RFQ review

The following drawing was supplied with the product reference package. Confirm the required configuration and current controlled drawing during order review.



Reference note: material, heat treatment, finish, and unspecified dimensions remain subject to the supplied drawing and order-specific review.