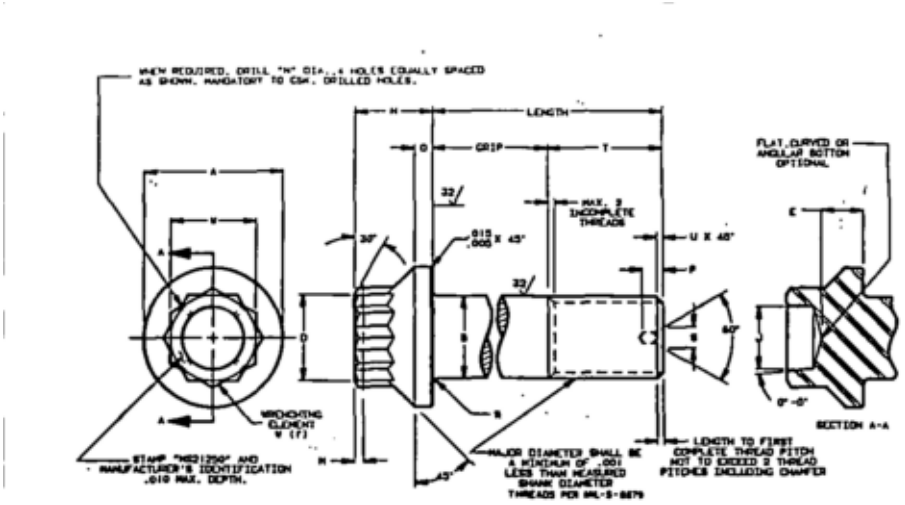
# MS21250-08024

12-Point External-Wrenching Flange Bolt · 180 KSI · .5000-20

## SPECIFICATIONS

| | |
|---|---|
| **Standard** | MS21250 Rev L (1989) → NASM21250; procurement per MIL-B-8831 |
| **Thread** | .5000-20 UNJF-3A, rolled, per MIL-S-8879 |
| **Grip Length** | 1.500 in (±.010) |
| **Overall Length** | 2.288 in (±.015) |
| **Head Diameter (A)** | 0.818 – 0.828 in |
| **Shank Diameter (B)** | 0.4985 – 0.4995 in |
| **Flange Diameter (W)** | 0.5625 in |
| **Head Height (H)** | 0.504 in |
| **Thread Length (T)** | 0.768 in ref |
| **Ultimate Tensile Strength** | 180,000 – 200,000 psi |
| **Double Shear Strength** | 42,400 lbf |
| **Tensile Strength (min)** | 30,900 lbf |
| **Material** | AISI 4340 alloy steel (4140/8740/6150 alternates) |
| **Hardness** | HRC 39–43 |
| **Finish** | Cadmium plate + chromate, QQ-P-416 Type II Class 2 |
| **Head Marking** | MS21250 + manufacturer code |
| **FSC** | 5306 (Bolts) |
| **NSN** | 5306-00-903-8820 |
| **ECCN** | EAR99 · Schedule B 7318.15.8085 |




NOTES

1. Dimensions apply after plating. General tolerances ±.010 in, angles ±2°.
2. Made to order at Kunshan Dongluo Hardware Products Co., Ltd. — lead time 4 weeks, no MOQ on standard sizes.
3. Every lot ships with CoC, mill material report (heat-lot traceable) and dimensional inspection report; FAI on request.
4. Drilled-head variant for safety wire: MS21250H08024. Same-group grips 0.250–5.000 in available.
5. DDP delivery worldwide — US import duty and Section 301 tariffs included in quoted price.