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CherryMAX® Rivet CR3213-5-03

CR3213-5-03 is a nominal-diameter, universal-head CherryMAX® structural blind rivet intended for aerospace assemblies that require one-side installation and a mechanically retained stem/locking-collar system. After installation, the head markings and locking collar remain visible to support visual inspection, and the nominal-diameter style is identified by a gold-colored driving anvil.

Basic Specifications

- Shank Diameter: 5/32 in (D = 0.157 in, +0.003/–0.001)
- Grip Range: 0.126 – 0.187 in (Grip Dash -03)
- Overall Length (L): 0.293 in (+0.000/–0.030)
- K (Max): 0.53 in
- Head Diameter (A): 0.312 in ± 0.010
- Head Height (B): 0.067 in (+0.010/–0.000)
- Head Style: Universal Head (protruding/button head)
- Hole Limits (Min/Max): 0.160 – 0.164 in
- Minimum Blind-Side Clearance (BK min): 0.370 in
- Procurement Specification: PS-CMR-3000
- Manufacturer: Cherry Aerospace, USA.

Material Thickness Selection Guidelines

- Choose CR3213-5-03 when the total material stack thickness falls within 0.126–0.187 in.
- For thinner stacks, use CR3213-5-02 (0.063–0.125 in)
- For thicker stacks, use CR3213-5-04 (0.188–0.250 in).

Key Features and Installation Characteristics

- Mechanically locked CherryMAX® design with an inspectable locking collar/stem arrangement.
- Gold-colored driving anvil denotes nominal diameter rivets
- Maintain the specified hole limits and ensure the required BK minimum clearance for satisfactory installation.

Coating and Visual Identification Notes

- Sleeve: 5056 Aluminum (QQ-A-430)
- Stem: 8740 Steel (AMS6322)
- Lock Collar: A-286 CRES (AMS 5731 / AMS 5737)
- Typical standard finish set (— / ARN): sleeve chemical film per MIL-DTL-5541 (plain color), stem cadmium plate per AMS-QQ-P-416 Type II Class 2, lock collar passivated per AMS 2700
- Always confirm by full part number + finish code; color alone should not be used as the only identifier.

Part Identification and Marking Structure

- CR3213 — CherryMAX® rivet family (universal head, nominal diameter)
- - 5 — diameter dash number (nominal diameter in 1/32 in increments)
- - 03 — grip dash number (max grip in 1/16 in increments)
- Head markings and lock collar visible after installation (inspection aid).

Note: This technical information is based on the official documentation provided by Cherry Aerospace and is intended solely for reference in product selection and specification.