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CherryMAX® Rivet CR3213-5-10

CR3213-5-10 is a high-strength 5/32" diameter blind rivet from the CherryMAX® series, designed for structural aerospace applications requiring single-sided access. Featuring a universal (protruding) head and the CherryMAX® mechanically locked system (head markings and lock collar visible after installation), this rivet provides durable, vibration-resistant fastening in critical assemblies.

Basic Specifications

- Grip Range: 0.563 – 0.625 inch (Dash -10)
- Overall Length (L): 0.700 – 0.730 inch (L = 0.730 in, +0.000/-0.030)
- Head Diameter (A): 0.312 inch ± 0.010
- Head Height (B): 0.067 inch (+0.010/-0.000)
- Head Style: Universal Head, nominal diameter
- Sleeve — 5056 Aluminum (per QQ-A-430)
- Stem — 8740 Steel (per AMS6322)
- Lock Collar — A-286 CRES (per AMS 5731 / AMS 5737)
- Hole Limits (Min/Max): 0.160 – 0.164 inch (nominal -5)
- Minimum Blind Side Clearance (BK min): 0.370 inch
- Procurement Specification: PS-CMR-3000
- Manufacturer: Cherry Aerospace, USA
- Shank Diameter: 5/32 inch (D = 0.157 in, +0.003/-0.001).

Material Thickness Guidelines

- Recommended for material stack thickness between 0.563 – 0.625 inch.
- CherryMAX® grip ranges are in 1/16" increments, where the last dash number indicates the maximum grip in 16ths (e.g., “-10” = max grip 10/16 = 0.625").

Key Features and Installation

- Universal head for general structural fastening applications.
- Use holes within 0.160–0.164 in limits for nominal 5/32" CherryMAX® installations.
- Locking collar must be flush or under-flush with the top surface of the rivet head; collar flash ≤ 0.005 in
- 100° flush head suitable for aerodynamic surface requirements.

Coating and Visual Identification Notes

Additional

- Standard material/finish set (ARN): sleeve chemical film (plain color) per MIL-DTL-5541; stem cadmium plate per AMS-QQ-P-416 Type II Class 2; lock collar passivated per AMS 2700.
- Always verify the complete part number and finish code; visual color may vary by finish and supply chain handling.

Additional Technical Characteristics

- Minimum blind-side clearance (BK min): 0.370 in for -5 diameter.
- Dimensions shown apply after finish and before lubrication, unless otherwise specified by Cherry Aerospace.

Practical Notes from Technician

- Ensure accurate hole size and proper hole preparation; oversized or poor holes can affect stem break and installation quality
- Keep pulling heads and jaws clean and maintained; verify collar and stem flushness during inspection.

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.