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CherryMAX® Rivet CR3213-5-02

CR3213-5-02 is a nominal-diameter, universal-head CherryMAX® blind rivet intended for structural fastening where one-side (blind) access is required. The CherryMAX® design uses a mechanically locked stem with a locking collar, which remains visible after installation for straightforward visual inspection.

Basic Specifications

- Shank Diameter: 5/32 in (D = 0.157 in, +0.003/–0.001)
- Grip Range: 0.063 – 0.125 in (Grip Dash -02)
- Overall Length (L): 0.230 in (+0.000/–0.030)
- K (Max): 0.47 in
- Head Diameter (A): 0.312 in ± 0.010
- Head Height (B): 0.067 in (+0.010/–0.000)
- Head Style: Universal Head (protruding)
- 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.

Materials & Finishes (typical for CR3213 family)Material

- Select CR3213-5-02 when the total stack thickness falls within 0.063–0.125 in.
- CherryMAX® grip lengths progress in 1/16 in steps; the last dash number indicates the maximum grip in 16ths.
- For accurate grip choice, Cherry recommends using the 269C3 grip gage and rounding up to the next higher reading.

Key Features and Installation Characteristics

- The locking collar/stem system is designed so installation can be checked visually after set.
- A gold-colored driving anvil is used to identify nominal-diameter CherryMAX® rivets.
- Maintain the specified hole limits and the required blind-side 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 (MIL-DTL-5541), stem cadmium plate (AMS-QQ-P-416 Type II, Class 2), collar passivated (AMS 2700).

Part Identification and Marking Structure

- CR — Cherry Aerospace part number prefix
- 3213 — CherryMAX® rivet family: universal head, nominal diameter
- -5 — diameter dash number (nominal diameter in 1/32 in increments; -5 = 5/32")
- -02 — grip dash number (grip system in 1/16 in increments)
- After setting, head markings and the lock collar remain visible.

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.