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CherryMAX® Rivet CR3213-5-05

CR3213-5-05 is a nominal-diameter, universal-head CherryMAX® structural blind rivet intended for aerospace assemblies that require one-side (blind) installation. The CherryMAX® design uses a “safe-lock” locking collar that mechanically locks the stem to the sleeve, supporting reliable joint integrity and visual inspection from the accessible side after installation.

Basic Specifications

- Shank Diameter: 5/32 in (D = 0.157 in, +0.003/-0.001)
- Grip Range: 0.251 – 0.312 in (Grip Dash -05)
- Overall Length (L): 0.418 in (+0.000/-0.030)
- K (Max): 0.65 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 (nominal -5)
- Minimum Blind-Side Clearance (BK min): 0.370 in
- Procurement Specification: PS-CMR-3000
- Manufacturer: Cherry Aerospace, USA.

Material Thickness Selection Guidelines

- Select CR3213-5-05 when total material stack thickness falls within 0.251–0.312 in.
- CherryMAX® grip sizing progresses in 1/16 in increments; the final dash number indicates the maximum grip in sixteenths
- For best selection accuracy, Cherry recommends using a 269C3 grip gage and reading to the next higher number.

Key Features and Installation Characteristics

- CherryMAX® uses a safe-lock locking collar for mechanical stem retention and joint reliability.
- Correct installation can be checked from the visible side by stem flushness and locking collar formation
- A gold-colored driving anvil identifies nominal diameter CherryMAX® rivets.

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 (--- / NAS 523 code ARN): sleeve chemical film per MIL-DTL-5541, stem cadmium plate per AMS-QQ-P-416 Type II Class 2, lock collar passivated per AMS 2700.
- Always identify parts by full part number + finish code; appearance alone can vary by finish and handling.

Part Identification and Marking Structure

- CR3213 — CherryMAX® universal head, nominal diameter family (cross reference: NAS9301B)
- -5 — diameter dash number (nominal diameter in 1/32 in increments; -5 = 5/32")
- -05 — grip dash number (maximum grip in 1/16 in increments)
- Head markings and locking collar remain 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.