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CherryMAX® Rivet CR3213-5-07

CR3213-5-07 is a nominal-diameter, universal-head CherryMAX® structural blind rivet intended for aerospace assemblies that require single-side (blind) installation. The CherryMAX® design uses a locking collar / mechanically retained stem system, and the installed rivet remains visually inspectable because the head markings and lock collar are visible after installation.

Basic Specifications

- Shank Diameter: 5/32 in ($D = 0.157$ in, $+0.003/-0.001$)
- Grip Range: 0.376 – 0.437 in (Grip Dash -07)
- Overall Length (L): 0.543 in ($+0.000/-0.030$)
- K (Max): 0.77 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)
- Minimum Blind-Side Clearance (BK min): 0.370 in
- Hole Limits (Min/Max): 0.160 – 0.164 in
- Procurement Specification: PS-CMR-3000
- Manufacturer: Cherry Aerospace, USA.

Material Thickness Selection Guidelines

- Select CR3213-5-07 when the total material stack thickness falls within 0.376–0.437 in
- CherryMAX® grip ranges progress in 1/16 in increments; the last dash number indicates the maximum grip in 16ths (selection is typically made using a 269C3 grip gage, reading to the next higher number).

Key Features and Installation Characteristics

- Visual inspectability: head markings + locking collar are observable after set
- A gold-colored driving anvil identifies nominal diameter CherryMAX® rivets
- Maintain the specified hole limits and 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 identification by full part number + finish code; appearance alone can vary by finish.

Part Identification and Marking Structure

- CR3213 — CherryMAX® rivet family: universal head, nominal diameter
- -5 — diameter dash number (nominal diameter in 1/32 in increments; -5 = 5/32")
- -07 — grip dash number (maximum 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.