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## CherryMAX® Rivet CR3213-4-05

CR3213-4-05 is a 1/8" diameter blind rivet from the CherryMAX® series. It features a universal (protruding) head and a mechanically locked stem, engineered for aerospace applications requiring blind-side access and a medium-to-long grip range.

### Basic Specifications

- Shank Diameter: 1/8 inch (≈0.125 inch)
- Grip Range: 0.251 – 0.312 inch
- Overall Length: 0.460 – 0.485 inch
- Head Style: Universal (Protruding head)
- Head Diameter: ≈0.219 inch
- Head Height: ≈0.068 inch
- Sleeve Material: Aluminum alloy 5056
- Mandrel Material: Alloy steel 8740, cadmium plated
- Standards Compliance: NAS9301B, MS20470, MIL-SPEC (AS), BACR15FR4
- Manufacturer: Cherry Aerospace, USA.

### Material Thickness Guidelines

- Recommended for material stack: 6.4 – 7.9 mm
- Use CR3213-4-04 for thinner assemblies
- Use CR3213-4-06 or longer for thicker assemblies.

### Hole and Tooling

- Recommended Hole Diameter: 0.129 – 0.132 inch
- Compatible Tools: Cherry G27, G747, G704B or equivalent pneumatic riveters
- Installation Air Pressure: 85 – 90 psi
- Typical Installation Time: ≤ 1.6 seconds.

## Performance

- Shear Strength: up to 50,000 PSI
- Tensile Strength: up to 75,000 PSI
- Operating Temperature Range: -65°F to +250°F (-54°C to +121°C).

## Marking and Coating

- Sleeve Finish: anodized (silver) or chromate (gold)
- Mandrel Finish: cadmium-plated, silver-gray
- Typical Markings: CR3213-4-05, AF3213-4-05, NAS9301B-4-05
- Verify by part number — not by appearance.

## Installation Notes

- Slight movement before setting is acceptable
- Hole diameter must be within 0.129–0.132 inch
- Do not lubricate — may interfere with mechanical lock
- Reduce setting force for composite applications
- Tools must be calibrated and clean
- Click confirms mechanical stem engagement
- Stem must sit flush with sleeve within  $\pm 0.005$  inch.

## Advantages

- Reliable medium-to-long grip universal head blind rivet
- No exposed stem after setting — flush, tamper-resistant finish
- Performs well in slightly oversized or oval holes
- Fully certified to NAS, MS, MIL, BAC aerospace standards
- Blind installation reduces assembly time and complexity
- Certification and lot traceability available upon request.

**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.