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## CherryMAX® Rivet CR3213-4-03

CR3213-4-03 is a 1/8" diameter blind rivet from the CherryMAX® series, featuring a \*\*universal (protruding) head\*\* and a \*\*mechanically locked stem\*\*. This fastener is designed for structural aerospace applications requiring blind-side access and provides fatigue-resistant, vibration-secure installation in thin- to medium-stack assemblies.

### Basic Specifications

- Shank Diameter: 1/8 inch ( $\approx 0.125$  inch)
- Grip Range: 0.126 – 0.187 inch
- Overall Length: 0.340 – 0.365 inch
- Head Style: Universal (Protruding head)
- Head Diameter:  $\approx 0.219$  inch
- Head Height:  $\approx 0.068$  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: 3.2 – 4.75 mm
- Use CR3213-4-02 or shorter for thinner stacks
- Use CR3213-4-04 or longer for thicker structures.

### Hole and Tooling

- Recommended Hole Diameter: 0.129 – 0.132 inch
- Compatible Tools: Cherry G27, G747, G704B or equivalents
- Installation Air Pressure: 85 – 90 psi
- Typical Installation Time:  $\leq 1.4$  seconds.

## Key Features

- Universal dome head — ideal for traditional rivet applications
- Mechanically locked stem with tactile and audible “click”
- Mandrel is fully retained — no exposed stem after setting
- Blind-side installation for difficult access areas
- Consistent performance across a range of materials.

## Performance

- Shear Strength: up to 50,000 PSI
- Tensile Strength: up to 75,000 PSI
- Operating Temperature Range:  $-65^{\circ}\text{F}$  to  $+250^{\circ}\text{F}$  ( $-54^{\circ}\text{C}$  to  $+121^{\circ}\text{C}$ ).

## Marking and Coating

- Sleeve Finish: anodized (silver) or chromate (gold)
- Mandrel Finish: cadmium-plated, silver-gray
- Typical Markings: CR3213-4-03, AF3213-4-03, NAS9301B-4-03
- Always confirm part by number — color is not a reliable identifier.

## Installation Notes

- Slight free movement before installation is acceptable
- Hole must be within 0.129–0.132 inch
- Click sound indicates proper stem engagement
- Stem must be flush with sleeve within  $\pm 0.005$  inch.

## Advantages

- Medium-grip blind rivet with universal head for general structures
- Performs reliably in standard and oval holes
- Meets NAS, MIL, MS, BAC aerospace fastener standards
- Efficient one-sided installation — fast and secure
- Certification and lot traceability available on 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.