

TECHNICAL SHEET



	G-COLLAR LOCK (GWCL)	G-COLLAR LIGHT (GWCST)
Dash No.	#4	-
	#5	#5
	#6	#6
	#8	#8
	#10	#10
	#12	#12
	#14	#14
	#16	#16
Materials	Aluminum alloy 2024-T6	Aluminum alloy 7075-T73
	A-286 high temperature alloy	A-286 high temperature alloy
	300 series stainless steel	300 series stainless steel
	17-4PH stainless steel	17-4PH stainless steel
Finishes	Cadmium plate per AMS-QQ-P-416	Cadmium plate per AMS-QQ-P-416
	Solid film lube per AS5272	Solid film lube per AS5272
	Aluminum coat per NAS4006	Aluminum coat per NAS4006
	Anodize per MIL-PRF-8625	Anodize per MIL-PRF-8625
	Silver plate per AMS2410	Silver plate per AMS2410
Thread Types	Metric	Metric
	UNJ per AS8879 class 3B	UNJ per AS8879 class 3B
Applications	Tension	Tension
	Shear	Shear





G-COLLARS

G-Collars, the **frangible collars** manufactured by Growermetal, are fasteners used in the **aerospace industry** to connect

structural components with **precision** and **reliability** while minimizing the weight of the bolted joint. They work together

with threaded pins in a fastening system designed to **withstand both shear and tensile loads** in aerostructure joints.

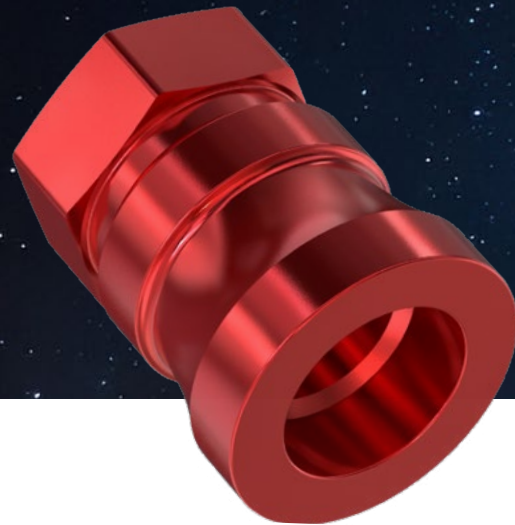


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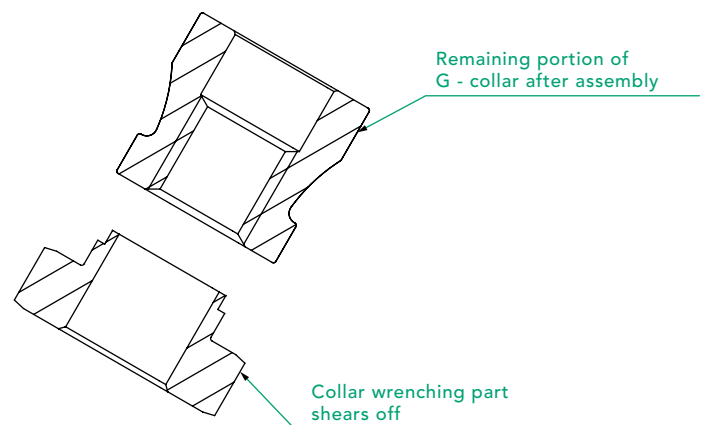
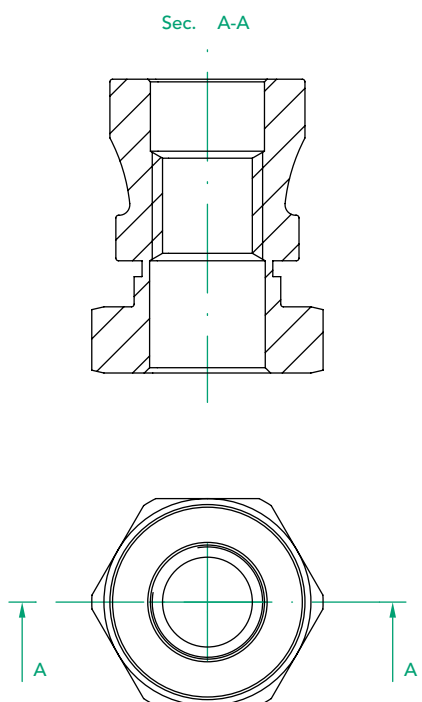
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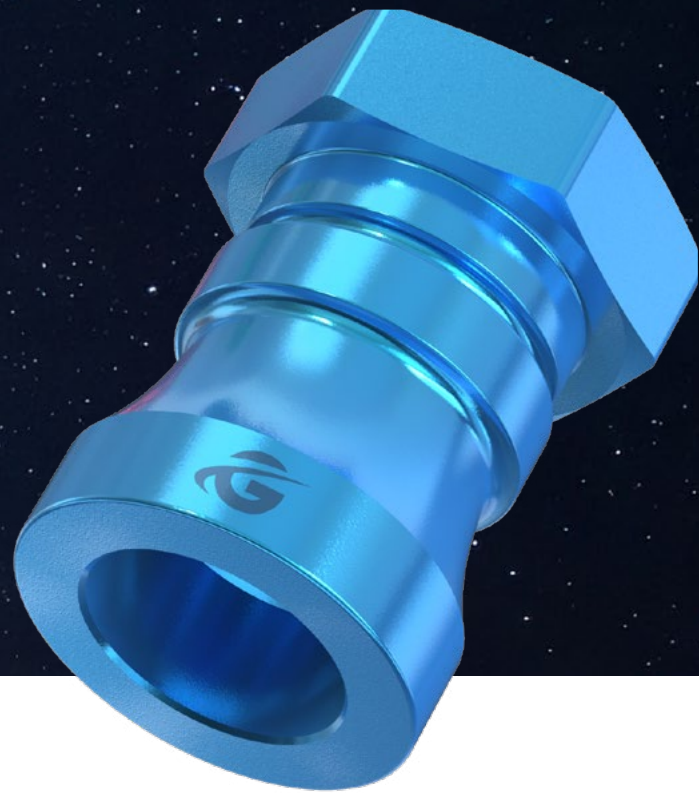
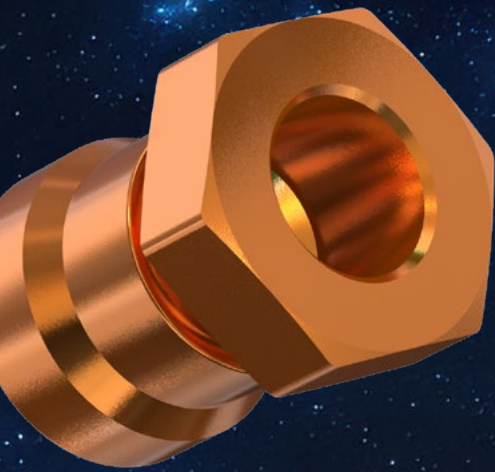




G-COLLARS OFFER SEVERAL ADVANTAGES:

- **They are self-locking:** the deformation of the thread (crimping) ensures an anti-loosening effect.
- **The tightening is safe** and ensures a constant preload.
- **The joint load is predefined:** during the installation a portion of the collar shears off in a controlled way, guaranteeing the correct clamping force without requiring torque-controlled tools.
- **They are available in various materials and coatings** to meet all requirements in terms of strength, weight and application.
- **They are suitable for different types of loads:** shear and tension application, even in areas with limited access.
- **They are available in two versions:** standard and lightweight, to further reduce the weight of the bolted joint.





PRODUCT LIST

G-COLLAR LOCK (GWCL)

Frangible collar, designed to provide controlled preload and high strength in structural joints.

- **Features:** standard profile, ideal for structures subjected to high loads.
- **Materials:** 2024-T6 aluminum, A-286, 300 series and 17-4PH stainless steel.

- **Coatings:** cadmium plating per AMS-QQ-P-416, solid film lubrication per AS5272, aluminum coating per NAS4006, anodizing per MIL-PRF-8625, silver plating per AMS2410.
- **Thread forms:** metric and UNJ per AS8879, class 3B.

G-COLLAR LIGHT (GWCST)

An evolution of the G-Collar, featuring reduced weight for applications where weight saving is paramount.

- **Features:** reliable tightening with a reduced profile design that ensures weight saving while maintaining the same performance.
- **Materials:** 7075-T73 aluminum, A-286, 300 series and 17-4PH stainless steel.

- **Coatings:** cadmium plating per AMS-QQ-P-416, solid film lubrication per AS5272, aluminum coating per NAS4006, anodizing per MIL-PRF-8625, silver plating per AMS2410.
- **Thread forms:** metric and UNJ per AS8879, class 3B.

G-COLLAR ACCORDING TO CUSTOMER DRAWINGS

Growermetal manufactures G-Collars according to the customer's technical specifications and drawings.

