



Issue Date: 28OCT02

BOLT CATCHER

PART NUMBER	MODEL	USED ON
Size dependent	SH200	1/4 - 1/2 inch Separation Nut



FUNCTIONAL DESCRIPTION

- SH200 Bolt Catcher is designed to capture and retain a tension bolt after separation.
- It prevents potential structural damage or component malfunction due to bolt ejection. The Bolt Catcher absorbs the shock imparted by the ejected bolt, retains the bolt, and prevents it from rebounding into its hole and becoming trapped by the structure.
- SH200 is re-usable by merely replacing the cap and sleeve. It is not necessary to replace the case housing.
- Design, manufacture, and acceptance testing is in accordance with applicable United States & International Space Specifications.

QUALIFICATION	SH200 is currently qualified for all Space Launch Vehicles, Space Probes and Satellite systems use.
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The SH200 basic design is made of Aluminum to minimize weight. It may be produced of other metals to meet customer requirements.

Strength	Capable of retaining bolts ejected by Hi-Shear Separation Nuts.
Temperature	-260°F to +300°F
Environments	Meets all existing environmental space specifications
Material	7075-T7351 Aluminum Alloy
Special needs	Can be custom ordered to meets specific requirements
Reliability	0.9995 @ 95% +77°F
Mounting	As shown, mounting plate provided
Weight	225 grams (0.5 pounds) for SH200-4 – 1/2 inch size
Service Life	Not a design consideration
Operating Life	Not a design consideration
Shelf life	Not a design consideration
Maintainability	No periodic preventative maintenance required
Re-usability	Unit is re-useable





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How to order: Order by Assembly Number as listed in the table with Bolt Grip Length and Thread Length. For example – to order a Bolt Catcher for a 3/8 inch bolt with a 2-7/16 inch Grip Length and a 1/2 inch Thread Length – specify as follows: SH200-4....2-7/16 inch Grip – 1/2 inch Thread, Bolt Catcher Assembly – specify quantity required.

AVAILABLE MODEL SIZES

MS2000 Bolt Shank Diameter	B Mounting Bolt Diameter	D Diameter	K	M	J	Z	Assembly Model Number
1/4	10-32	0.80	1.70	1.27	0.18	*	SH200-2
3/8	10-32	1.10	2.10	1.60	0.25	*	SH200-3
1/2	1/4	1.31	2.50	1.87	0.25	*	SH200-4
5/8 & up	The use of a Hi-Shear Bolt Extractor is recommended						
	* "Z" – length depends on customer bolt length requirement						

