

ArcSafe™ Xtra-Guard

Robotic Collision Protection



The ArcSafe Xtra-Guard is an inexpensive investment to protect equipment, tooling, reduce or eliminate expensive downtime and maintenance issues.

Xtra-Guard Features:

- **Highly Repeatable** – Resets to $\pm .020''$ ($\pm .025\text{mm}$)
- **Rugged Design** – Hardened tool steel in contact and wear points.
- **Common Work Envelope** – Interchangeability with **AMERICAN WELDQUIP's** air-cooled or water-cooled modular robotic systems.
- **Adaptable** – Can be added to the Advantage system at a future time if required.
- **Insulating/Mounting Disk** – Different disks provide adaptability to any robot make and model.
- **Protection in Mx, My, Mz Directions**
- **Protective Seal Boot** – Keeps weld spatter out of mounting screws and other critical areas for reduced downtime and maintenance.

Technical Specifications

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|--------------------------|---|
| Weight – | 2.2lbs. (1 KG) |
| Repeatability - | $\pm .020''$ ($\pm .5\text{mm}$) At 300mm Length |
| Range Of Travel - | X & Y Axis - 15° Z Axis - $.25''$ (6.35mm) |

The ArcSafe™ Xtra-Guard provides maximum collision protection in “Thru Arm” robotic applications.

The **AMERICAN WELDQUIP** ArcSafe Xtra-Guard Collision Deflection Module is designed to be used with the ArcSafe Advantage ‘Thru Arm’ robotic systems.

Most integrated robotic collision detection software systems take time to come to a complete stop - especially with high speed movements. This is where the Xtra-Guard offers you the additional protection and peace of mind.

The built-in spring deflection feature allows the ArcSafe Advantage Robotic System to deflect in the event of a crash. The built-in damping provides an extra 15 degrees deflection in the X and Y direction and $.250''$ of movement in the Z axis. This additional safe guard provides you the extra protection required to reduce or eliminate bent goosenecks, cracked insulating disks, and damaged tooling.

Dimensional Drawings

