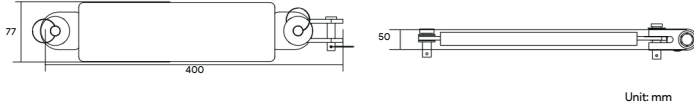


GO SHOCK ABSORBER

GGGSA050



TECHNICAL SPECIFICATION



The horizontal lifeline energy absorber measures 400 mm × 77 mm × 50 mm, and its ultra-compact design makes it ideal for space-limited applications. It can be easily installed in various horizontal lifeline systems, making it suitable for maintenance of narrow high-altitude pipelines or complex power equipment sites. The absorber plate features connecting ribs made of high-strength elastic material, forming an efficient pressure-dispersion network. During a fall, the ribs deform elastically to absorb part of the impact force, after which the buffer plate engages its stretching mechanism to further reduce the remaining force. This dual-buffering system enhances overall performance, prolongs service life, and ensures reliable protection for workers at height. Paired with a buffer plate offering a maximum extension of 0.8 m, the absorber effectively mitigates fall impact, providing durable and dependable safety in high-altitude operations.



- **Buffer Plate:** The central element of the energy absorber, featuring a serpentine “S”-shaped wave design. As the metal plate bends progressively, it absorbs kinetic energy, transforming an instantaneous impact into gradual energy dissipation to reduce peak forces. The thin connecting ribs act as controlled “weak points,” breaking first to ensure the deformation occurs in a planned sequence. This staged energy absorption allows each section to unfold sequentially, preventing sudden fractures, extending buffering time, and reducing G-forces on the human body.
- **Plastic Housing:** Constructed from high-strength engineering plastic (e.g., ABS), the housing is lightweight, corrosion-resistant, and able to withstand external impacts and chemical exposure. It also offers flame-retardant properties for enhanced operational safety. Serving as the front component of the multi-stage buffer system, it features a pre-deformed, hollow design that reduces weight and allows visual inspection of the connecting screw rod’s stress and extension. The conical front structure distributes point impacts across a surface, while the inner cavity guides the buffer plate to deform in an orderly axial direction. Made of nylon, this component functions similarly to a car bumper’s crumple zone.

Model	NO.	Product Colour	Product Material
GGGSA050	(A2)2410180001 (A4)2503270003	Metallic Gray, Black	304/316 (A2/A4) Can be Selected

Product Weight	Loading Capacity	Rated Load	Product Component
0.75kg	4 people	23 KN	Type C

Absorber Length	Buffer Force	Load Analysis (if applicable)	Overall Dimension(L*W*H)
387-1200mm	≤6kn	Parallel to the Lifeline	400mm*77mm*50mm

Lifeline System Requirements	Product Components	Combination Standard
Buffer • Anti-falling	Shock Absorber, Shell, Connector	EN EN795:2012, Type C CEN/TS16415:2013, Type C

Setting Instructions	Supported Systems
8mm/10mm/12m Steel cable specifications: 8mm / 10mm / 12mm Anchor point connection, single-use, impact buffering	Single-Lifeline System (Horizontal/Vertical) Double-Lifeline System

Product Warranty Period	Maintenance Period	Product Validity Period
1 Year	Depending on frequency and conditions of use, a safety inspection is advised within one (1) year.	304 / 10 Years(Conditional) 316 / 20 Years(Conditional)

Installation Guide		
Steel Surface Drilling: Bolt fixing, vertical pole fixing; Concrete Surface Drilling: Chemical bolt fixing / Expansion bolt fixing; Wood Surface Drilling: Bolt fixing		

Risk Warning	Packaging Details	Packaging
	Shock Absorption System*1, Label*1, Instruction Manual*1	Cardboard Box