

Cost-Effective / High-Performance Damping Solution FROM THE ENERGY ABSORPTION TECHNOLOGY LEADER



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Custom Design Models Contact KYNTEC at 1.716.616.3630

with your special

requirements.

Performance Benefits

FEATURE	KYNSHOC-C	STEEL ALTERNATIVE
Cost-Effectiveness	Very High	Low
Durability	High	Moderate
Interchangeability	High	Moderate
Weight	Low	High
Corrosion Resistance	Excellent	Low
Chemical Resistance	Very High	Low
Environmental Resistance	Excellent	Low

- Cycle-tested beyond industry standards.
- Cost-effective value-added solution to existing steel products.
- **Universally interchangeable** with common body diameters and thread configurations.
- Lightweight, strong, durable construction.
- Corrosion and chemical resistant. Contact factory for special requirements.
- Optimal solution for harsh environments.
- **Operating temperature range** of 15°F 180°F.





SUPERIOR DESIGN Cost-effective Solutions for Your Application

KynSHOC-C. The first of its kind CIMPOSITE shock absorber.

No one else has a product that features a cost-effective solution to optimize your application while considering your total cost of ownership. Our comprehensive product offering will provide value-added features to both your new product development, and your existing product that may not meet your expectations for performance.

Choose the Damping Profile That Meets Your Needs

KynSHOC-C is available in three distinct energy absorption profiles:

Square Wave damping – Where deceleration forces remain relatively constant over the full length of the shock absorber stroke. Square wave damping yields the most efficient energy absorption while imparting the lowest peak deceleration forces.

Progressive damping – Where deceleration forces start low, then build through the shock absorber stroke. Such "soft catch" applications are common when working with more fragile loads which need to be stopped.

Dashpot damping – Is the simplest form of damping, involving a fixed orifice through the entire shock absorber stroke. Dashpot damping allows for relatively high amounts of energy to be removed in relatively shorter strokes, but with higher deceleration forces being imparted to the impact load.

Custom Damping – When performance needs fine-tuning, we have the technology and expertise to design and build a product to fit your specific application requirements.



ORDERING Your KynSHOC-C

Model Numbering Guidelines:

Material C:Composite

Model # 0080 – M 2125 M

2125 MC: (choose IF:1 from table) IC:In

Thread MF: Metric Fine MC: Metric Coarse IF: Imperial Fine IC: Imperial Coarse SB: Smooth Body XX: Custom

Button N: None U: Urethane S: Stainless Steel Y: Nylon X: Custom

Example:



Selecting Your KynSHOC

1) Calculate the amount of energy to be absorbed per cycle.

2) Calculate the amount of energy to be absorbed per hour.

3) Select the appropriate model from the Performance Data and Envelope Data tables, selecting the unit with the NEXT HIGHEST energy capability.

4) Standard or custom mounting hardware available. (Contact factory for additional configuration assistance.)



Performance Data

MODEL	Stroke (in)	E Max (in-lbs/cycle)	E Max* (in-lbs/hr)	Weight	
C0080	0.25	27	50 000	0.4 oz	
C0100	0.28	53	110 000	0.6 oz	
C0150	0.41	89	250 000	1.2 oz	
C0250	0.63	240	350 000	1.3 oz	
C0500	0.88	490	475 000	2.8 oz	
C1000	1.00	800	625 000	5.5 oz	
C1115	1.00	1726	675 000	11.5 oz	
C1125	1.00	1726	810 000	11.5 oz	
C2115	2.00	3408	880 000	15.2 oz	
C2125	2.00	3408	991 500	15.9 oz	

Specifications subject to change without notice. Visit www.kyntec.com for the most up to date information. *Duty cycle dependent, consult with factory.

KynSHOC Shock Absorbers can be Custom Designed to Meet Your Specifications

ENVELOPE Ordering Data



MODEL	Length without Button (A)	Length with Button (B)	Thread (C)	Rod Dia. (D)	Button Dia. (E)	Cylinder (F)	Flat Width (G)
C0080 IF	1.66	2.08	3/8 - 32 UNEF	0.098	0.27	1.61	-
C0100 IF	2.31	2.58	7/16 - 28 UNEF	0.118	0.34	1.95	0.38
C0150 IF C0150 IC	2.31	2.68	7/16 - 28 UNEF 1/2 - 20 UNF	0.118	0.40	2.81	0.39 0.44
C0250 IF C0250 IC	3.76	4.14	1/2 - 20 UNF 9/16 - 18 UNF	0.157	0.40	3.10	0.44 0.47
C0500 IF	4.68	5.15	3/4 - 16 UNF	0.197	0.50	3.77	0.67
C1000 IF	4.82	5.32	1 - 12 UNF	0.250	0.62	3.81	0.90



MODEL	Length without Button (A)	Length with Button (B)	Thread (C)	Rod Dia. (D)	Button Dia. (E)	Cylinder (F)	Flat Width (G)
C1115 IF	5.66	5.81	1 1/4 - 12 UNF	0.375	1.20	3.37	1.12
C1125 IF	5.66	5.81	1 3/8 - 12 UNF	0.375	1.20	3.37	1.25
C2115 IF	8.26	8.41	1 1/4 - 12 UNF	0.375	1.20	4.97	1.12
C2125 IF	8.26	8.41	1 3/8 - 12 UNF	0.375	1.20	4.97	1.25

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To find your local KYNTEC expert, visit us online at www.kyntec.com

KYNTEC Products & Capabilities

Severe Service STAINLESS Shock Absorbers

Maximum flexibility with KynSHOC hydraulic shock absorbers. Each model adjusts easily to replace multiple individual shock absorber configurations. A turn of the adjustment knob is all that is required to deliver a variety of damping profiles.





High Capacity Shock Mounts

Extreme high energy absorption capabilities in small envelopes using hydraulic, viscoelastic, and hybrid technologies to deliver optimum performance for shock mounts, safety shock absorbers, and robust industrial applications. Available standard in stainless steel to survive the most extreme operating environments.

Custom Engineered

Solutions designed to meet your specific needs for any application. We specialize in creating the product you need to serve your application above and beyond your expectations. Let us design the best product possible instead of settling for a product that only gets you a portion of what you need.

Vibration Isolation Contact KYNTEC for your wire-rope and elastomeric damping needs.

Engineered Protection

KYNTEC: Our personnel have decades of experience as leaders in the global kinetic energy management field. Solving shock, vibration and motion control challenges is what we do best. Our channel partners are proven industry experts and are ready to assist you.

Contact KYNTEC directly or your local representative



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