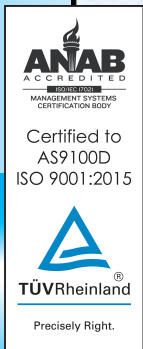


Damping Solutions for Industrial Applications

Adjustable Force and Motion Control Solution Proven to increase the Performance of your Application!



HYSON
Metal Forming Solutions™

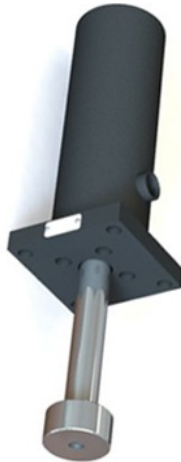
XTREME Duty Shock Absorbers

XTREME Duty shock absorbers **protect your application, reduce maintenance costs, ensure up-time** and are engineered to meet and exceed the demands of your industrial applications.

Our XTREME Duty shock absorbers are **custom-designed** to fit your application considering; your environment, duty cycle, and damping needs.

Custom-Engineered

Engineered for challenging applications



XTREME Duty Shock Absorbers: Custom-Engineered

- Improved life over off-the-shelf offerings
- Damping profile optimized for application
- Non-Adjustable or Adjustable damping
- Multiple seal packages available
- Multiple material and coating options
- Various mounting options

INDUSTRIES: General Industrial, Industrial Automation, Crane and Material Handling, Elevators and Lifts, Oil & Gas, Amusement Parks and Transportation.

Standard Stainless Version

Ideal for harsh environments



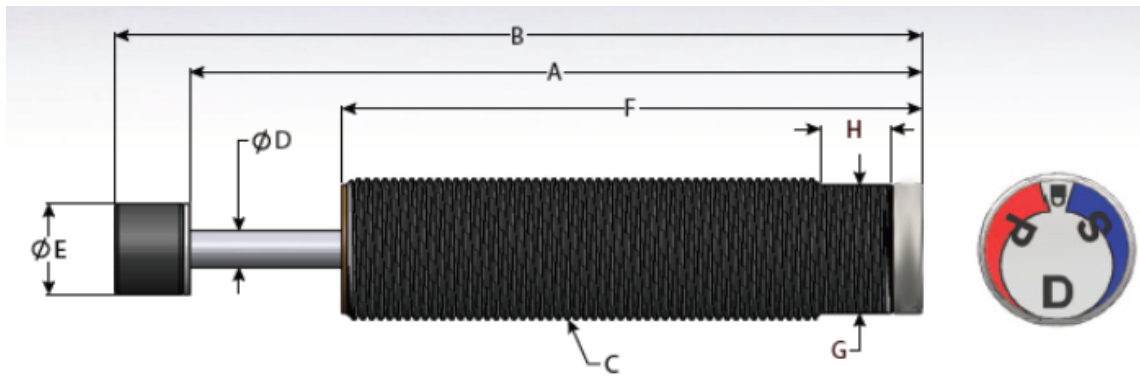
XTREME Duty Shock Absorbers: Standard Version

- 3 damping profiles built-in
- Adjustable, fine tuning capabilities
- Full threaded stainless steel body
- Multiple configurations to meet your needs
- Drop in replacements for any industry model
- Reduces Inventory (One shock replaces 3 different models)

INDUSTRIES: General Industrial, Industrial Automation, Automated Guided Vehicles (AGV), Crane and Material Handling, Oil & Gas, Amusement Parks and Transportation.

To learn how HYSON's Damping Solutions can add exceptional value to your industrial applications, contact our Inside Sales team at Orders@HysonSolutions.com

XTREME Duty Shock Absorbers Dimensional Information and Performance Data



HSA-_____

Size: 250, 500, 1000, etc..

Thread
 MF: Metric Fine
 MC: Metric Coarse
 IF: Imperial Fine
 IC: Imperial Coarse

Button
 N: No Button
 U: Urethane Button
 S: Stainless Steel Button

Body Material
 S: Steel
 SS: Stainless Steel

Dimensional Information

Model Number	Stroke (A-F)	Length without Button (A)	Length with Button (B)	Thread (C)	Rod Dia. (D)	Button Dia. (E)	Cylinder (F)	Flat Width (G)	Flat Length (H)
Small Series									
HSA-250	0.63	4.05	4.44	1/2-20 UNF	0.157	0.40	3.40	0.47	0.45
HSA-250	0.63	4.05	4.44	9/16-18 UNF	0.157	0.40	3.40	0.47	0.45
HSA-500	0.88	4.75	5.22	3/4-16 UNF	0.197	0.50	3.87	0.70	0.50
HSA-1000	1.00	4.92	5.43	1-12 UNF	0.252	0.62	3.92	0.90	0.50
HSA-1125	1.00	6.00	6.10	1-3/8-12 UNF	0.374	1.200	3.65	1.30	0.60
HSA-2125	2.00	8.63	8.73	1-3/8-12 UNF	0.374	1.200	5.31	1.30	0.60
Large Series									
HSA-1500	2.00	7.70	8.40	1-3/8-12 UN	0.512	1.732	4.75	1.60	0.80
HSA-2100	4.00	12.90	13.60	2-1/2-12 UN	0.75	2.250	7.50	2.75	1.00
HSA-3100	4.00	13.40	14.40	3-3/8-12 UN	0.866	3.000	8.00	-	-
HSA-4100	4.00	16.30	17.10	4-1/2-12 UN	1.375	3.750	10.00	-	-

XTREME Duty Shock Absorbers Dimensional Information and Performance Data

Performance Data			
Model Number	Stroke in	E Max in-lbs/cycle	E Max in-lbs/hour
Small Series			
HSA-250	0.63	235	350,000
HSA-500	0.88	485	475,000
HSA-1000	1.00	650	622,000
HSA-1125	1.00	1,700	808,000
HSA-2125	2.00	3,400	986,000
Large Series			
HSA-1500	2.00	6,505	1,478,000
HSA-2100	4.00	33,015	3,204,000
HSA-3100	4.00	38,000	5,930,000
HSA-4100	4.00	69,035	16,820,000



HYSON
Metal Forming Solutions™

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