



**Applications:**

- Sprue-Picker Machines
- Pick-and-Place Robotics
- Parts Removal and Handling Systems
- Blow Molding Equipment
- High-Volume Factory Automation
- Plastic Bottling Equipment
- Manufacturing Process Equipment
- Injection Molding Equipment
- Packaging

# PRO Long Stroke Series

Shock Absorbers



# Introducing New Enidine PRO Long Stroke Series Shock Absorbers

New Enidine PRO Long Stroke Series shock absorbers feature the same reliability and performance as standard Enidine shock absorbers, with the added capability of consistent, soft energy absorption in repetitious high-velocity conditions with speeds of up to 185 in./sec. (4.7 m/sec). With long stroke configurations designed to accommodate varying load conditions, Enidine PRO Long Stroke Series shock absorbers provide the smooth, even transitions and progressive damping required for the rapid transfer of materials.

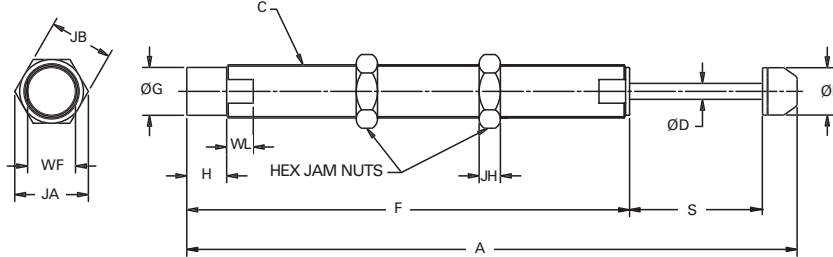
This new product line features:

- Effective control of lightweight component movements.
- Reliable operation in temperatures of 15° to 180°F (-10° to 80°C)
- Handles load capacities of 75 to 2,300 in.-lbs. (9 to 275 Nm)
- Controlled deceleration maintains precision transfer of parts and increases productivity.
- Ideal for high-volume applications requiring repeatable interface with molding processes.

## Engineering Data

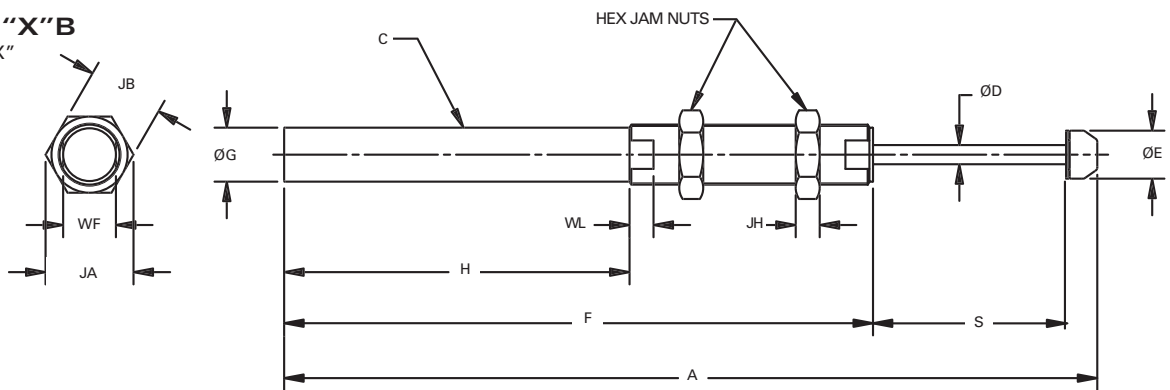
### PRO 50MC X 50 - "X" B

Base Part Number NM 21673 "X"



### PRO 100MC X 80 - "X" B

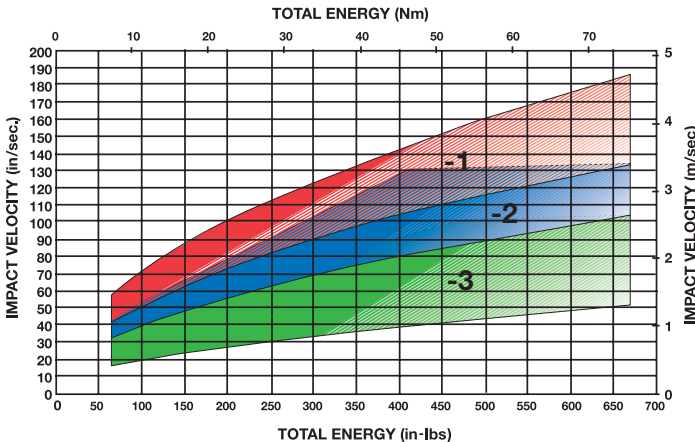
Base Part Number NM 21674 "X"



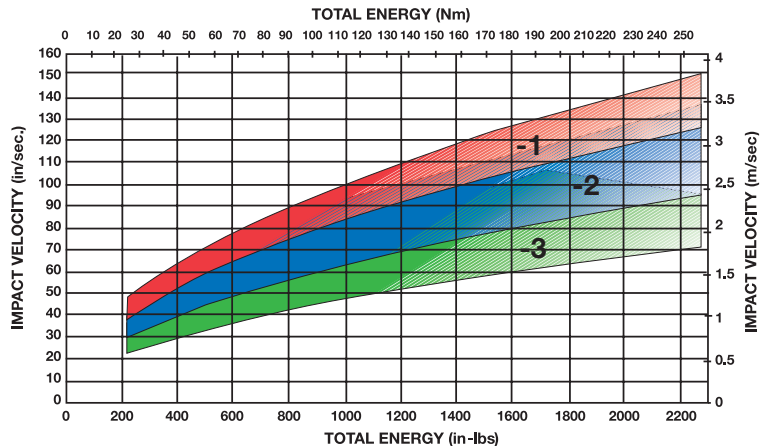
Model	Damping Constant	Bore Size in. (mm)	S Stroke in. (mm)	(E <sub>T</sub> ) Max. Energy/Cycle in.-lbs. (Nm)	(E <sub>T</sub> C) Max. Energy/Hour in.-lbs. (Nm)	(F <sub>P</sub> ) Max. Shock Force lbs. (Nm)	Nominal Coil Spring Force		(F <sub>D</sub> ) Max. Propelling Force lbs. (N)	Weight oz. (g)
							Extended lbs. (N)	Compressed lbs. (N)		
PRO 50MC x 50	-1, -2, -3	.39 (10)	1.97 (50)	650 (75)	306,000 (34 600)	750 (3 336)	2.0 (9)	4.7 (21)	200 (890)	14 (390)
PRO 100MC x 80	-1, -2, -3	.55 (14)	3.15 (80)	2,300 (260)	761,000 (86 000)	1,500 (6 672)	4.5 (20)	10.8 (48)	350 (1 550)	20 (570)

Model	A in. (mm)	C	ØD in. (mm)	ØE in. (mm)	F in. (mm)	ØG in. (mm)	H in. (mm)	WF in. (mm)	WL in. (mm)	JA in. (mm)	JB in. (mm)	JH in. (mm)
PRO 50MC x 50	8.86 (225)	M20 x 1.5	0.24 (6)	0.67 (17)	6.38 (162)	0.71 (18.0)	0.47 (12)	0.71 (18)	0.39 (10)	1.06 (27)	0.94 (24)	0.32 (8)
PRO 100MC x 80	13.19 (335)	M25 x 2.0	0.31 (8)	0.79 (20)	9.53 (242)	0.89 (22.5)	5.63 (143)	0.87 (22)	0.39 (10)	1.47 (37)	1.26 (32)	0.39 (10)

PRO 50 X 50



PRO 100 X 80



**Enidine Incorporated**  
7 Centre Drive  
Orchard Park, NY 14127  
USA  
Tel.: 1 (716) 662-1900  
Fax: 1 (716) 662-1909  
www.enidine.com

**Enidine West**  
184 Technology Drive  
Suite 201  
Irvine, California 92618 • USA  
Tel.: 1 (949) 727-9112  
Fax: 1 (949) 727-9107  
www.enidine.com

**Enidine GmbH**  
Rheinauenstr. 5  
79415 Bad Bellingen  
Rheinweiler • Germany  
Tel.: +49 7635 8101-0  
Fax: +49 7635 8101 99  
www.enidine.de

**Enidine U.K.**  
Patrick Gregory Road  
Wolverhampton  
West Midlands WV11 3DZ  
Tel.: +44 (0) 1902 304000  
Fax: +44 (0) 1902 305676  
www.enidine.co.uk

**Enidine Co. Ltd.**  
398 Chigasaki-Cho, Tsuzuki-Ku  
Yokohama-Shi, Kanagawa  
224-0031 • Japan  
Tel.: +81-45 947 1671  
Fax: +81-45 947 3967  
www.enidine.co.jp