

PEGASUS

SERIES 1 Linear Ball Bearings

Stainless/Ceramic, Corrosion Resistant, High Temperature, Clean Running, Energy Efficient, Hybrid Linear Ball Bearings



Silicon Nitride (Si₃N₄) Balls

**Food Processing
Bio/Pharma Process
Medical Equipment
Semiconductor Equipment
Marine/Naval Systems
Aerospace Systems/Space
Vacuum Systems**

1-800-513-3163 www.LM76.com



What is Pegasus Technology?

Pegasus Technology combines the time-proven material 440C Stainless with the precision and corrosion resistance of Silicon Nitride (Si₃N₄) balls - replacing steel balls.

What are the Advantages of Pegasus Technology?

- **Pegasus Technology** offers corrosion resistant and cross-corrosion resistant linear motion. Silicon Nitride Balls are chemically inert, unlike steel balls. They provide the following unique advantages:
- Silicon Nitride Balls are harder than metal and contact with the bearing race is significantly reduced. This results in up to 80% less friction and an extended service life between 3 to 10 times longer than steel.
- Silicon Nitride Balls not only provide a much lower coefficient of friction due to their extreme smoothness, but come with many other advantages, including higher hardness, lighter weight, superior thermal expansion/contraction qualities, high and low temperature (they have seen up to 1000° F momentarily) capabilities and unmatched corrosion resistance.
- Silicon Nitride's low density allows for extremely high speeds - reducing excessive forces on the balls and applying less stress on bearing races.
- Silicon Nitride Balls are FDA/USDA/3A Dairy compliant and are well suited for caustic foaming agents
- Silicon Nitride Ceramic Linear Hybrid Ball Bearings use less energy because of their low weight and extremely low coefficient of friction.
- **Pegasus Hybrid Linear Bearings are available in industry standard, corrosion resistant Single/Twin Pillow Blocks and Flange Blocks.**





L = CLOSED STYLE



LX = OPEN STYLE



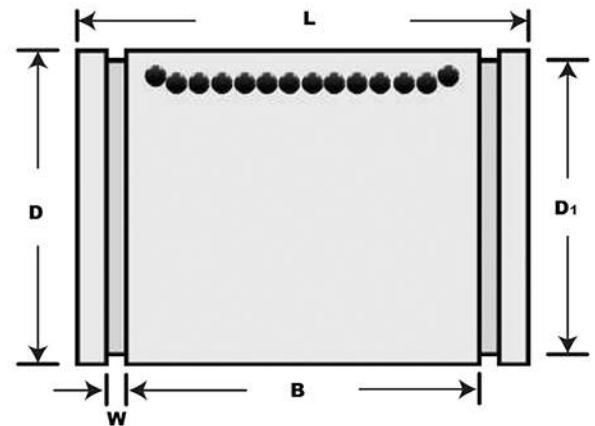
CLOSED Series			
P/N	Shaft Size	No Seals	With Seals
LPS1-16	1"	NS	WS
LPS1-20	1.125	NS	WS
LPS1-24	1.500	NS	WS
LPS1-32	2.000	NS	WS

OPEN Series			
P/N	Shaft Size	No Seals	With Seals
LXPS1-16	1"	NS	WS
LXPS1-20	1.125	NS	WS
LXPS1-24	1.500	NS	WS
LXPS1-32	2.000	NS	WS

Part Ordering Example: LPS1-16-NS

1" Closed Bearing with No Seals

Part Number L - LX	C Pounds Dynamic Max Load	Co Pounds Static Max Load
L(LX)PS1-16	220	352
L(LX)PS1-20	352	615
L(LX)PS1-24	490	903
L(LX)PS1-32	858	1784

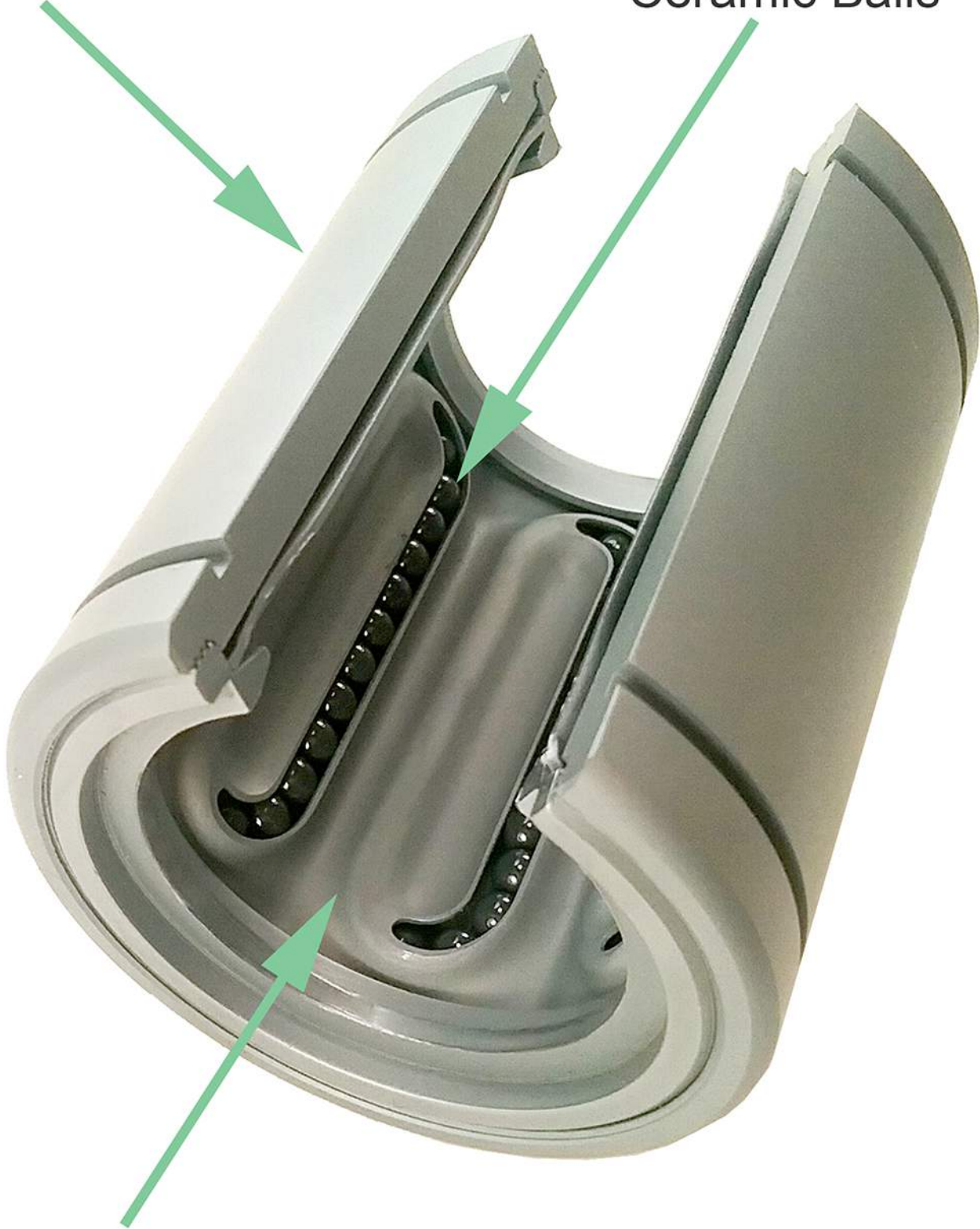


Bearing Dimensions Inch						
Part Number	Shaft Size	D	D1	L	B	W
L(LX)PS1-16	1"	1.5625	1.4687	2.250	1.7547	.0679
L(LX)PS1-20	1.250"	2.000	1.8859	2.6250	2.0047	.679
L(LX)PS1-24	1.500"	2.3750	2.2389	3.000	2.4118	.0859
L(LX)PS1-32	2.000"	3.000	2.8379	4.000	3.1917	.1029

NOTE: We do not publish accuracy grades. Although all bearings will operate on Class L linear, Case Hardened 440C Stainless Shafting, you may experience some variance in clearance. However, bearings will always remain zero clearance.

440C Stainless Steel Shell

Silicon Nitride (Si₃N₄)
Ceramic Balls



440C Stainless Steel
Retainer & Retaining Clips



“Armoloy TDC™ (Thin Dense Chrome) is a hard (78 Rc), thin, dense chromium coating with a micronodular surface texture. The coating’s nodular finish reduces the amount of surface area exposed to surfaces in contact with it, thereby substantially reducing friction and extending wear life. This nodular finish also retains smaller amounts of industrial lubricants for longer periods, both further reducing friction and creating a cleaner work environment.”

- ✓ **FDA Compliant**
- ✓ **Caustic Wash Down Compliant**
- ✓ **Rc78 Hardness**
- ✓ **Salt Spray Tested**
- ✓ **Will Not Chip, Flake, Crack or Generate Debris**
- ✓ **One of the Few Engineered Materials That Can Run on Itself**

● **440C Stainless**
+
● **Armoloy™ Coating**
+
● **Silicon Nitride Balls**
=

The Ultimate in Corrosion Resistance, Speed and Wear-ability



LM76

Linear Bearings

The Engineering Edge

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