

simplicity[®] Advantage

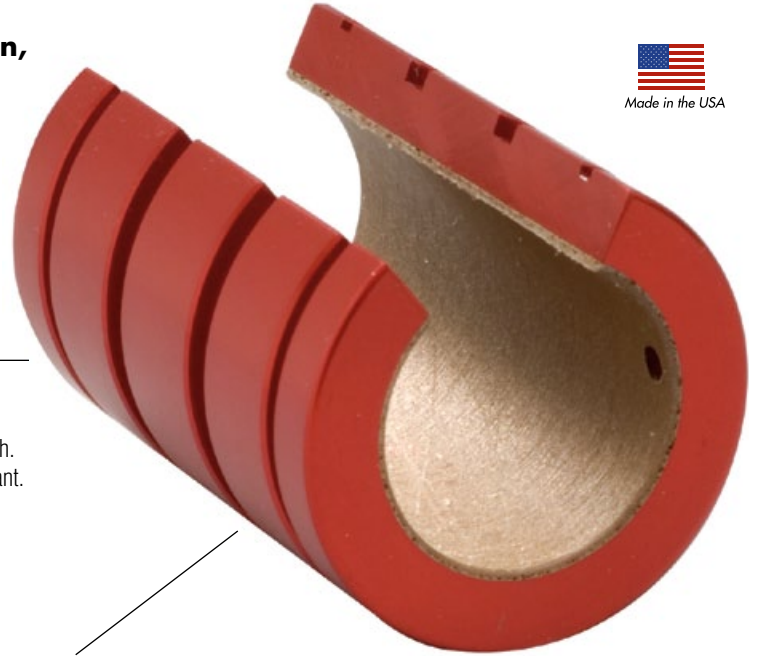
SELF-LUBRICATED LINEAR BEARINGS

Developed and refined over 26 years, Simplicity[®] linear plain bearings excel where traditional ball bearings fail. Resistant to dirt, contamination, shock vibration and extreme temperatures. Simplicity products provide worry-free linear motion that will not catastrophically fail!

FEATURES & BENEFITS

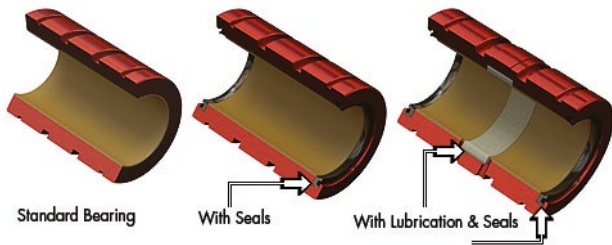
- **Self-lubricating** - maintenance-free, additional lubrication optional
- **Wide temperatures range**
(-400°F/+400°F)
(-240°C/+204°C)
- **Vibration damping** - eliminates fretting corrosion
- **No stick/slip** - ideal for start stop motion
- **Simultaneous linear, oscillating and rotary motions**
- **Available styles** - open, closed, flanged, single and twin pillow blocks
- **Inch, ISO metric and JIS metric sizes**
- **Size Interchangeable**
- **Accessories:** seals, internal/external retaining rings, o-rings, zerk fittings and roll pins.

HOUSING —
Aluminum alloy with anodized .0002" thick finish. Corrosion-resistant.





FRELON[®] LINER
Teflon[®] liner bonded to bearing shell. Available in Frelon GOLD[®] or Frelon J[®]. Provides low wear and friction.

Smooth & Quiet Operation

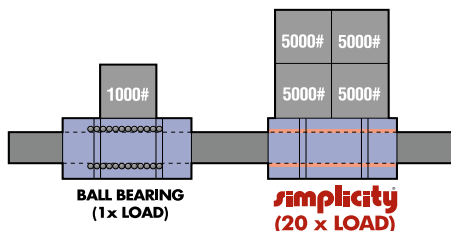











A BEARING FIT FOR ALL EXTREMES

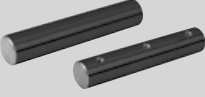


Clean Room	Dirty Environment
	
Will not absorb water, and no lubricants to contaminate environment	Frelon lamination technology allows heat to transfer/dissipate away from the running surface through bearing shell
Particles that may enter the bearing become embedded into the liner eliminating shaft damage	Shock loads have no effect on bearing, and no damage to shaft
Food packaging, wash down applications, medical devices, solar, semi-conductor, laboratory equipment, bio-chemical etc.	Die casting, welding, paper mill, textiles, foundry, woodworking equipment, automation, etc.
WILL NOT CATASTROPHICALLY FAIL	

HIGH STRENGTH

up to 20x more load capacity than ball bearing



simplicity®	PLAIN	PILLOW BLOCK	FLANGE	DIE SET	SLEEVE	THIN WALL	SQUARE
	 <i>Self lubricating, maintenance free, high load capacity, excel in harsh environments.</i>	 <i>Self aligning & ease of mounting. Standard sizes in stock.</i>	 <i>Ease of mounting. Compact design.</i>	 <i>Mounting precision. Size interchangeable with ball-bearing version.</i>	 <i>Replaces oilite & plastic bearing. Ideal for slow or moderate speeds for linear, oscillating or rotary motion.</i>	 <i>Interchangeable with all European metric series, including thin wall ball bushings</i>	 <i>Resist torque & eliminates extra costly components in parallel shafts.</i>
OPEN	•	•					
CLOSED	•	•	•	•	•	•	•
TWIN or DOUBLE		•	•	•			•
SQUARE FLANGE			•				
ROUND FLANGE			•	•	•		
CENTERED FLANGE			•				
INCH	•	•	•	•	•		•
ISO METRIC	•	•	•	•	•	•	
JIS METRIC	•	•	•				
*FRELON® LINER	•	•	•	•	•	•	Bearing Plug
 FrelonGOLD is a dark gold colored high performance material with gold-colored fillers. Compatible with RC60 steel, ceramic coated and stainless steel shafting.				 Frelon J is a yellow colored material specially formulated to provide the optimum performance with stainless steel or bare aluminum shafting.			
MATERIAL	<i>Aluminum alloy Available in steel or stainless steel</i>	<i>Aluminum alloy</i>	<i>Aluminum alloy housing with clear anodized coating and inner plain bearing</i>	<i>Steel black oxidized or aluminum housing with inner plain bearing</i>	<i>Aluminum Alloy</i>	<i>Aluminum alloy housing</i>	<i>Aluminum alloy housing with clear anodized coating stainless steel shafting</i>

SHAFTING & RAIL ASSEMBLIES			
 CERAMIC COATED SHAFTING	Uses 6061-T6 aluminum base material with an RC70 ceramic coated finish. Non-magnetic and chemical resistant. Less expensive and 1/3 the weight of steel shafting. Molten metal and weld splatter and other contaminants resist sticking to it. Inch or ISO metric sizes. Cut-to-length, special machined, pre-drilled or tapped.	Non-Drilled: Pre-Drilled & Tapped:	3/16" - 2" diameters and lengths up to 12' 3mm - 80mm with lengths up to 3.7m. 1/2" - 2" and lengths up to 12' 8mm-30mm with lengths up to 3.7m Interchangeable with standard pre-drilled shafting
 STEEL SHAFTING	RC60 steel shafts are made of polished, case hardened steel and suitable for Simplicity plain bearings and linear ball bearings. Inch or ISO metric sizes. Cut-to-length, special machined, pre-drilled or tapped.	Non-Drilled Steel: Pre-Drilled & Tapped:	1/8" to 4" diameters with lengths up to 21'* 3mm - 80mm diameters with lengths up to 6.4m.* 1/2" to 2" diameters with lengths up to 16'* 8mm to 30mm diameters with lengths up to 5.7m.*
 SHAFT ASSEMBLY & SUPPORT RAILS	Shaft assemblies available in a ceramic coated one piece design or two piece design with pre-assembled aluminum alloy support rails with steel shafting. Rails are aluminum alloy for continuous or intermittent support. Maximum lengths up to 4' and end-joinable for longer travel lengths.	Shaft Diameters: Ceramic Coated: Steel Shaft/ Aluminum Rail Support Rail	1/2" to 2" (Un-drilled and pre-drilled available) Lengths up to 10' 1/2" to 2" (Un-drilled and pre-drilled available) Maximum length available is 12'. 1/2" to 2" (Un-drilled and pre-drilled available) Maximum length available is 4'.
END BLOCKS	Slit on top for easy mounting, and are available for shaft diameters of 1/4" to 2".		

*Maximum length depends on diameter, see catalog for details; shafts are joinable for longer lengths.
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Product information and 2D/3D CAD drawings available for download at www.pbclinear.com
For technical & application information call **1-800-962-8979**

The data and specifications in this publication have been carefully compiled and are believed to be accurate and correct. However, it is the responsibility of the user to determine and ensure the suitability of PBC Linear® products for a specific application. PBC Linear® only obligation will be to repair or replace without charge, any defective components if returned promptly. No liability is assumed beyond such replacement. Specifications are subject to change without notice. LTRST-001 2/10 (R9.12)

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A PACIFIC BEARING CO.