

# Quinntech Solutions

## News Notes

### Linear Sleeve Bearings vs. Linear Ball Bearings

*Side-by-Side. No Guesswork.*

#### PTFE SLEEVE BEARING

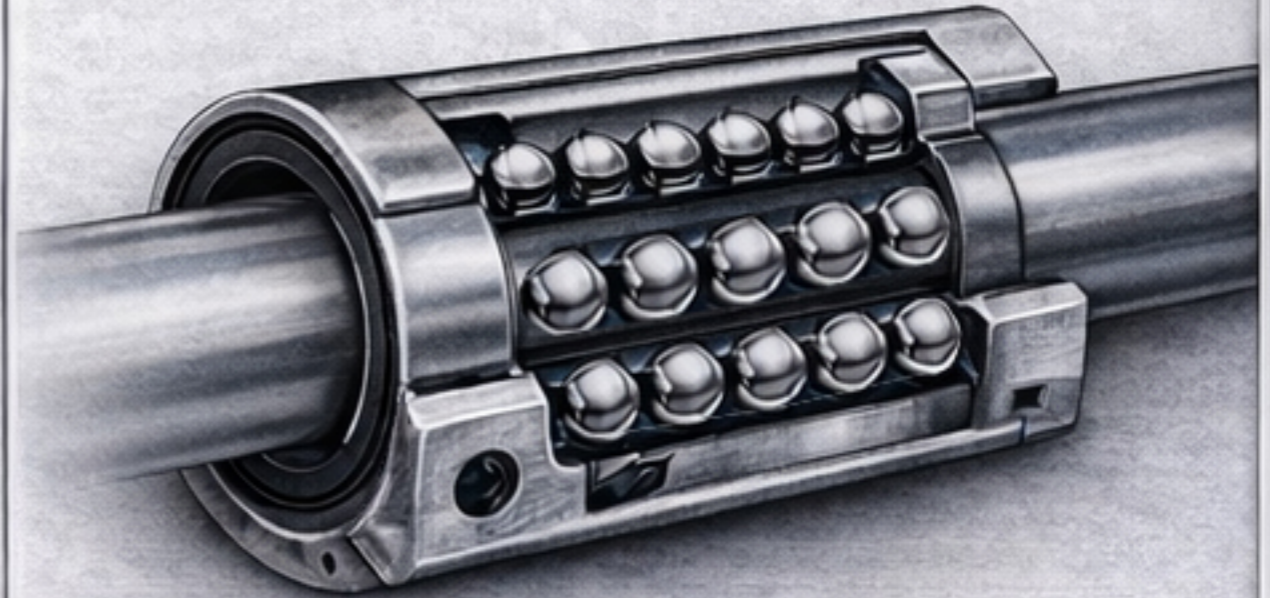
PLAIN / PTFE LINER



**Line Contact / Load Path Insight**  
Load is distributed over a greater surface area, more square inches under load

#### BALL BEARING

RECIRCULATING BALLS



**Point contact - load concentrated at ball paths**

#### PERFORMANCE COMPARISON CHART

PTFE SLEEVE BEARINGS		BALL BEARINGS	
Contact / Load Path	Line-to-Line	Point Contact	
Friction	Moderate	Very Low	
Precision	Moderate	High	
Lubrication	Self-Lubricating	Requires Lubrication	
Recommended Shafting	1060 Steel, 440C Stainless Soft 300 Series Stainless	Case Hardened Only - 1060 Steel 440C Case Hardened Stainless	
Corrosion Resistance	Good to Excellent	Poor	
Maintenance	Minimal-to-None	Regular	
Noise	Quiet & Smooth Running	Noisy & Resonate	
Shock / Vibration	Excellent	Very Poor	
Linear Orientation	Linear & Rotary	Linear Only	
Failure Mode	Minimal	Catastrophic	

#### BUILT FOR SURVIVAL

- Dirty, Wet, Corrosive Environments
- High Loads

#### BUILT FOR PRECISION

- Clean Rooms, Automation,
- High Speed

**Choosing the right bearing, is choosing SUCCESS!**