

Blade Bearings



Quality

Highest quality products ensure longest lasting replacements

Upgrade

Upgraded bearing features for long service life

Stock

Malloy carries stock eliminating long lead times

Packaging

Hardware inside crate minimizing freight and simplifying planning

Phone: (605)336-3693
Email: Wind@MalloyElectric.com
www.MalloyWind.com

Visit Our
Website



Platforms and Availability

Brand	Wind turbine type	Lead time category		
		Normal stock item ¹⁾	24-26 week lead time	Standard 26-30 week lead time
Acciona	Acciona AW1500			
	Acciona AW3000			T-Solid ³⁾
Gamesa	Gamesa G8x			
	Gamesa G9x			
	Gamesa G114			T-Solid ³⁾
	Gamesa G126, G128, G132			T-Solid ^{2) 3)}
GE	GE 1.5s/sl/sle			
	GE 1.5se/xle			
	GE 1.85-87 m			
	GE 1.x-100, 1.x-10x	T-Solid ³⁾		
	GE 2.x-100/103	T-Solid ³⁾		
	GE 2.X-127	T- Solid Only		
NEG Micon	NEG Micon NM 72/82			
Senvion	Senvion MM82			
	Senvion MM92			T-Solid ³⁾
	Senvion 3.XM			T-Solid ³⁾
Siemens	Siemens SWT 2.3-93			
	Siemens SWT 2.3-101			
	Siemens SWT 2.3-108			
Suzlon	Suzlon S8X			
	Suzlon S9x			
Vestas	Vestas V47			
	Vestas V80			
	Vestas V82			
	Vestas V90			
	Vestas V100			
	Vestas V110	T-Solid ³⁾		
	Vestas V112			
	Vestas V126			T-Solid ^{2) 3)}
Mitsubishi	M1000			

* Darkened box indicates lead time

- 1) Normal stock item in Sioux Falls / South Dakota, USA or Gremsdorf / Germany. Subject to prior sale. Exact delivery time upon request.
- 2) T-Solid in design phase, or under evaluation. 2-Row 4-Point currently offered.
- 3) T-Solid and 2-Row 4-Point bearings offered
- 4) Yaw bearing and pitch bearing spare parts for other turbine models upon request. Bearing components like seals also available.

Bearing features for long service life



- ✓ Rings made from 42CrMo4QT
- ✓ Proven U.S. and EU quality Balls
- ✓ Corrosion protection to the highest level C5
- ✓ Platform specific upgrades
- ✓ Salt spray tested bolt hole corrosion protection
- ✓ Non-corroding seal running surfaces
- ✓ Induction hardening & depth 100% tested

2-row 4-point contact ball pitch bearing

Often used as spare part in original configuration in cases of

- Inadequate lubrication
- Fair wear and tear
- Raceway corrosion (ingress of water)
- Cage/Separator failures
- Component failures (broken balls, core crushing, surface fatigue & spalling, false brinelling)
- Grease leakage

Pitch bearings spares include design and quality improvements to address these known failure modes to ensure it lasts longer than the original.



T-SOLID

T-Solid – a patented 3-raceway/3-ring design with load independent contact angle.

Strongly recommended in **cases of prematurely failing pitch bearings** due to

- Raceway edge loading (contact ellipse truncation, edge break)
- Cage wear and fracture
- Heavily deforming raceways (inadequate system stiffness)
- Jamming balls up to bearing lock-up
- Inadequate strength or structural durability (outer ring cracks)

Provides for the same form, fit & function.



Accessories & Shipment

- ✓ Seaworthy packed in sets or single crates
- ✓ Shipment VCI[®] corrosion protected
- ✓ Hardware is shipped inside of bearing crate making for one shipment for all needed items (see photo below)
- ✓ One PO for entire Kit
- ✓ One order confirmation
- ✓ One shipment, often from Malloy inventory
- ✓ Eliminate extra work
- ✓ Eliminate lost/missing parts on site holding up job



Benchmark IMO seal



- ✓ Patented seal with barbed hook (no pull-out)
- ✓ Tested up to 2bars (dynamic) and 5bars (static)
- ✓ No grease leakage
- ✓ No contamination ingress (dust, moisture)
- ✓ Field tested on turbines with direct seal exposure to sun and weather