

Ski Lift

The bearing's "System's Value"

Repair and replace cycle once every 3 - 5yrs

Operating Manufacturers

Doppelmayr Garaventa

Doppelmayr CTEC (North American Division)

Leitner Poma

Gimar Montaz Mautino (GMM)

Defunct Manufactures

Approximately 52

Manufacturer

Installed Lifts

Riblet (1930's - 2003) 503

PHB/ Hall (1960-1982) 412

Borvig/Partek (1962-2001) 279

Lift Engineering 276

Surface Lifts

Rope Tows

J-Bar

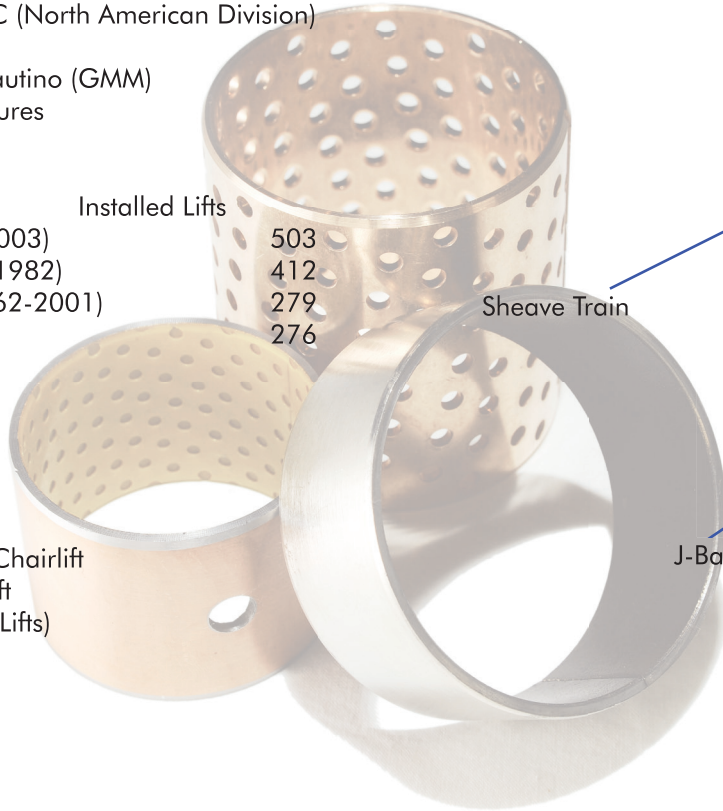
T-Bar

Aerial Lifts

Detachable Grip Chairlift

Fixed Grip Chairlift

Gondolas (Cabin Lifts)



Sheave Train

J-Bar

T-Bar

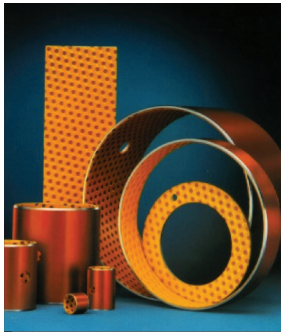


Bearing issues

Water contamination
Corrosion, freezing, squeaking
Lubrication issues
Low temp grease dripping when air temp rises
Inconsistent lube intervals
Grease gets forced out of load zone which increases pin and bushing wear
Grease attracts dust and dirt
Poor installation practices
Corrosion
Abrasive particles due to oxidation

Bearing Replacement Locations

Sheave Trains
Grips
Detachable Grips
Hangers (Goosenecks)
Weather Protection Hood
Safety bar



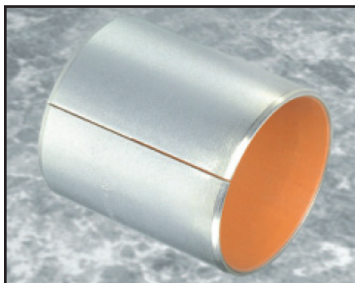
DX®

Steel backed, porous bronze sinter, lined with acetal (POM)
Indented for greased applications
Low wear, low friction
Temperature range -40 to +120C
High load capacity
- 140 MPa (20,000 psi)
Dimensionally stable
Good with cyclic load/movement
PM & MB,

indented & unindented available
Wide range of standard stock parts

DX applications:

Sheave Trains
Grips
Chair Pivot
Safety bar



DS

DX performance with improved friction - Acetal + PTFE
Can be used dry – lower coefficient of friction
Excellent resistance to fretting corrosion to the shaft in low amplitude oscillation

Better dry wear resistance than DX
BP Energrease LZ used for lubrication
Overlay is thicker than DX
Greater machining allowance

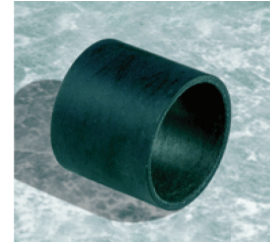
DS applications:

Grip
Chair Pivot
Safety bar

GAR-MAX®

- High load capacity
- Excellent shock resistance
- Excellent misalignment resistance

Excellent contamination resistance
Very good friction and wear properties
Good chemical resistance
Other GAR-MAX products for special needs:
HSG, High Strength GAR-MAX, twice the static load capacity of GAR-MAX
MLG, MonoLayer GAR-MAX, value engineered for lighter duty applications
HPM, HydroPower GAR-MAX, designed for hydropower applications.



GarMax applications:

Grip
Chair Pivot
Sheave Train - HPM
Safety bar
Weather Hood

Advantages using self-lubricated bushings

Self lubricating
No greasing required saves labor costs
No grease to fall on customers – no need to replace ruined jackets (\$5 to \$6k per season)
Increased bushing life by 2 to 3 times
Reduced frequency of grip rebuild / replacement
No squeaking

Direct “drop in” replacements for application

Testimonial

Dave Denzel, (Mountain Manager) “I wish we would have done this years ago. This helps so much with not having to budget for new bushings and not having to schedule replacing the old greased bronze bushings. I would highly recommend looking at GGB’s system for converting your lifts to maintenance free bushings”.