GGB
BEARING TECHNOLOGY

Les Joints Étanches R.B. Inc.
R.B. Packings & Seals Inc.

Ski Lift

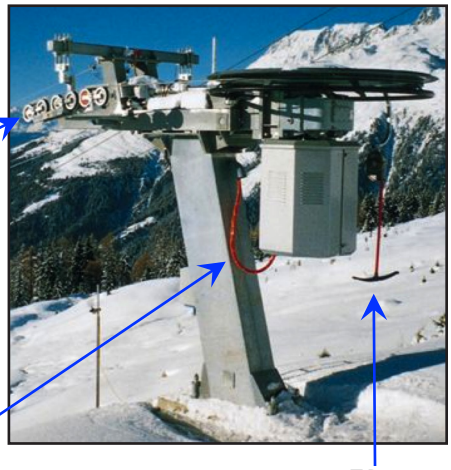
The bearing's "System's Value"

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)



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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

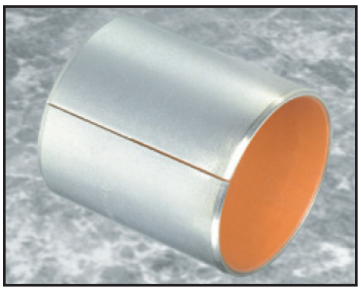
Sheave Trains
Grips
Detachable Grips
Hangers (Goosenecks)
Weather Protection Hood
Safety bar

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



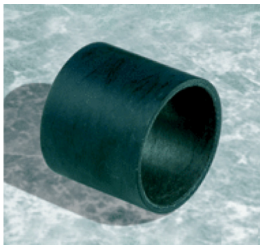
DS

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".

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