GROVE GEAR IRONMAN HIGH EFFICIENCY
HELICAL-BEVEL GEAR REDUCERS
K SERIES FEATURES AND BENEFITS

STANDARD DOUBLE LIP SEALS
provide extra protection against entry of contaminants or loss of lubrication.

BEARING SPANS OPTIMIZED
to allow for maximum overhung load capacity, enhanced durability and reliability—while minimizing shaft deflection.

ROBUST OUTPUT SHAFT
Oversized steel output shaft of high strength steel alloy provides superior overhung load and torque capacities. Hollow output shaft styles also available.

ALL HELICAL GEARING IS HARDENED AND GROUND
(AGMA class 10 or better) for enhanced efficiency and noise reduction. Precision carburized and hardened spiral bevel gearing for quiet, efficient, right angle speed reduction.

HOUSING
Precision machined rugged cast iron housings give you the industrial strength and durability you’ve come to expect from Grove Gear.

STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON or Lincoln industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.
MODULAR DESIGN
Innovative design includes double reduction, triple reduction and quin reduction reducers assembled from standard components.

LUBRICATION
All Ironman reducers are filled with high quality gear oil at the factory.

INTEGRAL MOUNTING BASE
Designed to interchange with dozens of competitive units. Output flange mounted styles also available.

ADDITIONAL K SERIES HELICAL-BEVEL GEAR REDUCER FEATURES

6 SIZES AVAILABLE in reducer, GEAR+MOTOR™, and integral gearmotor designs.

INPUT HORSEPOWER ratings to 130 HP.

AVAILABLE IN TRIPLE AND QUINTUPLE REDUCTION with ratios from 6:1 to 3400:1.

SOLID OUTPUT SHAFT and hollow output shaft available in all sizes.

HIGH CAPACITY BALL AND TAPERED BEARINGS provide long life and trouble free operation.

MOUNTING DIMENSIONS ALLOW INTERCHANGE with many popular reducers including SEW, David Brown, Nord and Dodge.

PERMANENTLY MARKED NAMEPLATE with output torque ratio and maximum input horsepower.

CAST IRON INPUT FLANGE (motorized quill input styles) with machined fits for precision alignment of motor and bearings.
**SELECTION GUIDE**
K SERIES HELICAL-BEVEL

**Stock Styles**

**Base Mount**
- Solid Output Shaft
- Quill "C" Face Input

**Output Flange Mount**
- Solid Output Shaft
- Solid Input Shaft

**Hollow Output Shaft**
- Base or Shaft Mount
- Quill "C" Face Input

**Style KBQ**

**Style KFQ**

**Style KBN**

**Ratings Pages Contact Factory**

**Dimension Pages Contact Factory**

**TRIPLE REDUCTION**

**QUINTUPLE REDUCTION**

**Modified Stock Styles**

**Using off-the-shelf accessories, any stock reducer can be field or Factory modified into a wide range of styles.**

**Base Mount**
- Solid Output Shaft
- Solid Input Shaft

**Output Flange Mount**
- Solid Output Shaft
- Solid Input Shaft

**Style KABQ**

**Style KAFQ**

**Style KABN**

**Hollow Output Shaft**
- Base or Shaft Mount
- Quill "C" Face Input

**Hollow Output Shaft**
- Output Flange Mount
- Quill "C" Face Input

**Hollow Output Shaft**
- Base or Shaft Mount
- Solid Input Shaft

**Ratings Pages Contact Factory**

**Dimension Pages Contact Factory**

**Ratings Pages 569-581**

**Dimension Page 582**

**Ratings Pages 569-581**

**Dimension Page 586**

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**Dimension Page 583**

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**Dimension Page 584**

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**Dimension Page 589**

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**Dimension Page 585**

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**Dimension Page 587**

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**Dimension Page 580**

**Ratings Pages 569-581**

**Dimension Page 589**

GROVE GEAR  www.grovegear.com  ELECTRA-GEAR
Output Flange Mount
Solid Output Shaft
Solid Input Shaft

Style KFN

Base Mount
Solid Output Shaft
Gearmotor Style

Style KBG

Output Flange Mount
Solid Output Shaft
Gearmotor Style

Style KFG

Hollow Output Shaft
Output Flange Mount
Solid Input Shaft

Style KAFN

Hollow Output Shaft
Base or Shaft Mount
Gearmotor Style

Style KABG

Hollow Output Shaft
Output Flange Mount
Gearmotor Style

Style KAFG

Ratings Pages Contact Factory
Dimension Pages Contact Factory

Ratings Pages Contact Factory
Dimension Pages Contact Factory

Ratings Pages Contact Factory
Dimension Pages Contact Factory
Grove Gear IRONMAN Helical-Bevel Model Number System

The Mounting position must be specified on all orders, and included in the reducer description. To order Motorized Reducers, simply specify the reducer, indicate the motor description or catalog number and specify “Motorized Assembly”. To order Integral Gearmotors, simply specify the reducer, motor horsepower and “Integral Gearmotor”. Integral Gearmotors in this catalog are supplied with 3 phase 230/460v totally enclosed 1750 rpm general purpose motors.

<table>
<thead>
<tr>
<th>Type</th>
<th>Style</th>
<th>Size</th>
<th>Number of Reductions</th>
<th>Ratio</th>
<th>Output Shaft Orientation</th>
<th>Motor Frame Codes</th>
<th>Output Flange Position</th>
<th>Mounting Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>BQ</td>
<td>827</td>
<td>3</td>
<td>6.53</td>
<td>L</td>
<td>M9</td>
<td>B3</td>
<td>See page 593 for mounting position.</td>
</tr>
</tbody>
</table>

BQ - Base Mount, Solid Output Shaft, Quill “C” Face Input
FQ - Output Flange Mount, Solid Output Shaft, Quill “C” Face Input
BN - Base Mount, Solid Output Shaft, Solid Input Shaft
FN - Output Flange Mount, Solid Output Shaft, Solid Input Shaft
ABQ - Hollow Output Shaft, Base or Shaft Mount, Quill “C” Face Input
AFQ - Hollow Output Shaft, Output Flange Mount, Quill “C” Face Input
ABN - Hollow Output Shaft, Base or Shaft Mount, Solid Input Shaft
AFN - Hollow Output Shaft, Output Flange Mount, Solid Input Shaft
BG - Base Mount, Solid Output Shaft, Gearmotor Style
FG - Output Flange Mount, Solid Output Shaft, Gearmotor Style
ABG - Hollow Output Shaft, Base or Shaft Mount, Gearmotor Style
AFG - Hollow Output Shaft, Output Flange Mount, Gearmotor Style

Sample Model Numbers

Cast iron, base mount unit with quill input, 6.53:1 ratio, 182TC motor frame

<table>
<thead>
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</table>

See rating tables for available ratios.

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