



IMPERIAL

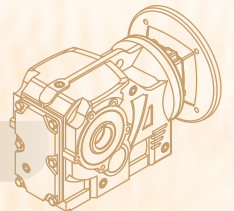
K

SERIES

HELICAL - BEVEL GEAR REDUCERS



INSTALLATION DIMENSION ARE CONSISTENT WITH GERMAN MODEL



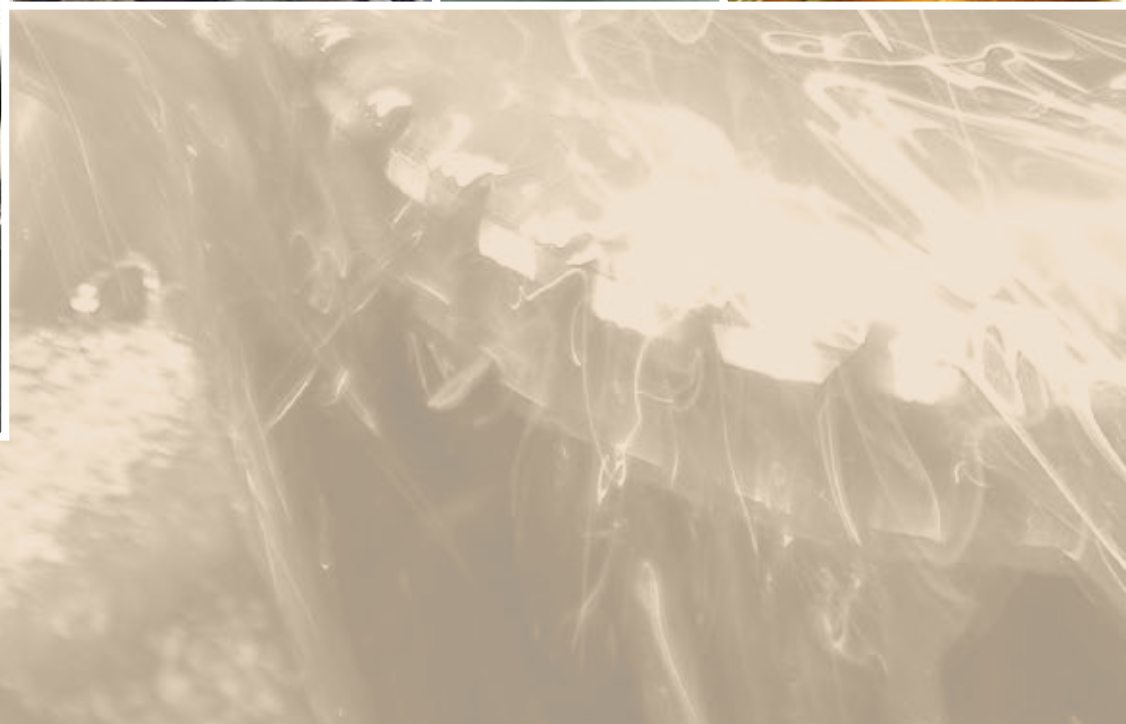


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Helical-Bevel Gear Unit K Series

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1.1 CHENTA Company Profile

1. IN 1960, Mr. Mao Cheng Chen, president of the company, and two other colleagues in the department of Mechanical Engineering of the Tainan Engineering College (predecessor of Cheng Kung University) established a company called “Chen Ta Machinery Works” . It was named “Chen Ta” in remembrance of, and also giving acknowledgement to, their alma mater, Cheng Kung University (called Chen Ta in short) from where Mr. Chen and his colleagues had received their specialized mechanical education.
2. Chen Ta Machinery Works specialized in machining jobs such as grinding/re-building of the crankshafts of automobile and vessel engines, cylinder overhaul, and diesel engine adjustment. Back then, she was the best of her field in southern Taiwan. Due to the excellent technique and the cordial service, the company name was soon well known and the business became prosperous.
3. In 1971, to support a long-term operation, the company needed its own products, so the technical cooperation between CHENTA and Japan reducer manufacturer began. From then on, CHENTA started manufacturing under proprietary, “CHENTA GEAR REDUCERS”. Now the company has about 100 employees, and its products have been marketing to the world under the name of “CHENTA”. The major markets are in Taiwan, Asia, and North America. In Taiwan, she remains at the top of the field and also established branch offices in America and in Shanghai (in China).
4. Since the beginning of the company, our conviction is to “Gather excellent human resource, and research and manufacture high quality products”. Our product policy is targeting at “Guaranteed Quality”, “On Time Delivery”, “Competitive Prices”, “Rational Production”, and “International Marketing”.
5. With more than 50 years of experience in mechanical manufacturing and honest operation, a fine culture has naturally grown inside the corporation. This spirit is the most precious resource of our company. The motto of our company is based on “INNOVATION”, “HONESTY”, “DILIGENCE”, and “EFFICIENCY”.
6. Influenced gradually under such fine culture, all employees in CHENTA work hard and take responsibility. They cooperate with each other and innovate actively. With their efforts, CHENTA keep developing and growing up to fight for the mutual benefits with customers.
7. To reach our long term operation goal, based on the company’s existing cultural resources, we will: have high expertise in the field; serve our customers with respect; constantly improve ourselves; manufacture high quality and affordable speed reducers for customers throughout the world, all so that we can grow together with our customers.

COMPANY PROFILE

Company Name: CHENTA PRECISION MACHINERY IND. INC.
 Established: 1971
 Employee: 100 persons
 Plant Sizes: Jen Wu Plant: 7000m²
 Shanghai Plant: 6800m²
 Suzhou Plant: 30000M²

1.2 Helical - Bevel Gear Reducers

Advantages

- 1>Design Concepts: The combination of standardization and modularization allowed interchangeability with international leading brands, while keeping structure rigidity and compactness.
- 2>Noise Level: Leveraging the advantage of high efficiency of helical gears and bevel gears, the reducers perform with higher stability and produce less noise.
- 3>Ratios Selections: The ratio ranges between 8:1 ~ 215:1, providing more accommodation to ratio requirements than worm gear speed reducers.
- 4>Loading Capacity: Available with power ranges from 1/4HP up to 30HP, depending on different requirements and applications.
- 5>Tensile Strength: Pinion and gears are made with 20CrMo alloy steel plus carburization treatment.
- 6>Space Efficiency: Provides 90 degree angle transmission similar to that of worm gear units to minimize space needed for installation.
- 7>Installation Flexibility: All models are designed for various mounting position (M1~M6) specified by customers.
- 8>Appearance Aesthetics: The reducers are designed with modern exterior while maintained high rigidity.

1.3 Operation Manual

- This operation manual is to help you install and operate speed reducer correctly. To avoid damages to the speed reducers, proper installation and operation is very crucial. This manual also includes official recommendations on maintenance for an extended lifespan of speed reducers.
- Every CHENTA speed reducer passed strict inspection and testing before being properly packaged for shipping. Upon receipt of the speed reducer, please check for any shortage or damage of parts during transit. Please be sure to contact Chenta for identification of responsible carrier and made record of the issue. We are committed to excellence in quality and devoted to solving problems for our clients.

I. Installation

1. Flexible couplings are preferred when input shaft connects directly to the motor; gear couplings are preferred on the output shaft's connection to the application.
2. Install on a stable base with good air ventilation; the accessibility of oil filling / draining should be considered.
3. The input shaft of the reducer and the motor shaft should be in alignment within the tolerance allowance.
4. After installation, please turn the input shaft manually first to check for any locking.
5. No-load running test should be performed first; any abnormality should be corrected prior to regular operation.

II. Lubrication

1. The first oil change should be performed after 500 hrs of operation; subsequent oil change is needed every 2,500 hrs of operation. Nevertheless, a regular check on oil level and conditions are recommended.
2. Please fill only with compatible specifications of oil and do not mix oil of different specifications in a single unit.
3. The interior of the reducer should be flushed and drained before filling with fresh oil.
4. Please shut the reducer immediately for inspection if the temperature rises above 80°C or any abnormal noise occurred. Restart only after the issues identified and cleared.
5. Lubricant recommendation: MOBIL Gear 632, SHELL Omala 320, MOBIL Mobilube HD80W-90, SHELL Spirax E.P 90.
6. Unless specified otherwise by the customer, every CHENTA speed reducer is supplied with appropriate amount of lubrication according to different installation position before shipping. If customer prefers to fill in the lubricant oil post shipment, please follow the instruction section of this catalog.

III. Storage

1. If the speed reducer is not for immediate installation, please keep the unit away from humidity and heat sources. After extended period of storage, please contact our service personnel for instruction on restoring the original performance prior to installation.

IV. Attachments the parts on reducer's shaft

1. Notice: Avoid heavy impact on shafts! It may cause bearing damages and undermines bearing performances. If bearings are to be replaced, we recommend heating method, which heats the bearing above 80°C, that would allow a clear fit on the shafts and reduce the damage to the bearing. For the tolerance of shaft's diameter, please refer to the specification in catalog.
2. While installing the coupling, make sure to check the alignment of coupling and shaft of speed reducer properly to eliminate the damage on bearings and reduce to vibration frequency and abnormal wear.
3. To avoid overload on the bearings of output shaft, please refer to the OHL (overhung loading) in catalog. For exceeding axial load, please contact our service engineer for consultation.
4. The actual application of following factors such as input and output speed, direction of rotation, installation site and over axial and radial loading should be carefully examined.

V. Installation & Operation

1. The underlying factors should be taken into consideration:
 - * Ambient temperature below 40°C
 - * Location with good air ventilation
 - * Proper positions for oil plug and drain plug
 - * Sufficient space for periodical inspection, maintenance, and replacement
2. It is necessary for the unit to be installed on a flat, stable and rigid base for accurate alignment to prevent damages to the reducer's housing.
3. The suggested tolerance of flatness on base:
 - * For size 77 or smaller: < 0.1mm/m
 - * For size 87 or bigger: < 0.2mm/m
4. To avoid the lubricant splash out during the transportation, breather plug with red pin inserted into air breathing hole. Please remove the red pin before start-up.
5. Before installation, please check the input horsepower and ratio to be the same as the punched name plate of reducer.

VI. Caution

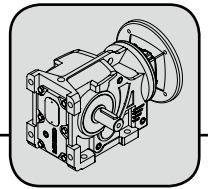
Caution! The power should be turned off before removal or replacement of the reducer.

1. Oil level and quality lubricant is key point of daily maintenance. Please refer to our suggestion to change the lubricant periodically according to operation frequency site situation.
2. Check the alignment of coupling, the tightness of chain, and nuts and keep the reducer away from excessive dust and grease externally.

1.4 General Problems & Improvements

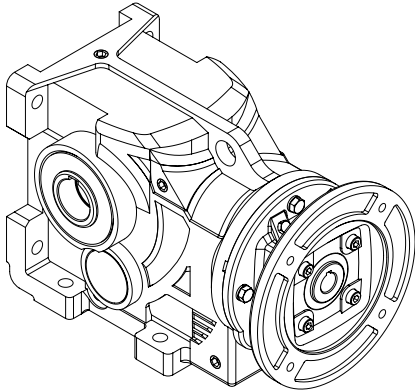
The following lists are general problem situations. In case that other problems happen, please contact us directly to get more information.

| CAUSE | REASON | IMPROVEMENT |
|--|--|--|
| I. Overheat | <ol style="list-style-type: none"> 1. Overload 2. Lubricant oil overfill or shortage 3. Improper lubricant oil 4. Extra friction on oil seal(lack of lubricant) | <ol style="list-style-type: none"> 1. Adjust to proper loading 2. Add lubricant to the level of oil gauge 3. Chang proper lubricant oil 4. Lip lubricant at oil seal |
| II. Noise | <ol style="list-style-type: none"> 1. Consistent noise { improper gears contact; bearing damaged 2. Screaming noise { bearing gap too small; lubricant oil shortage 3. Inconsistent noise { some object insert; bearing damaged | <ol style="list-style-type: none"> 1. { Repair gears; Replace bearing 2. { Replace bearing; Fill in lubricant oil 3. { Remove debris & replace lubricant oil; Replace bearing |
| III. Vibration | <ol style="list-style-type: none"> 1. Gear wear 2. Debris inside 3. Bearing worn-out or damaged 4. Bolt loose | <ol style="list-style-type: none"> 1. Replace gear 2. Remove debris & replace lubricant oil 3. Replace bearing 4. Tighten bolt |
| IV. Oil Leakage | <ol style="list-style-type: none"> 1. Oil seal damage 2. Gasket damage 3. Loose drain plug 4. Loose covers or flange | <ol style="list-style-type: none"> 1. Replace oil seal 2. Replace gasket 3. Tighten drain plug 4. Tighten the bolts |
| V. Input and Output Shaft Fail | <ol style="list-style-type: none"> 1. Gear-bound caused by overheat 2. Bearing damage 3. Debris between gears | <ol style="list-style-type: none"> 1. Adjust or replace gears 2. Replace bearing 3. Remove debris; clean inside then replace lubricant oil |
| VI. Input shaft fail to drive output shaft | <ol style="list-style-type: none"> 1. Gear wear 2. Damage to key connecting gear and output shaft 3. Input shaft rupture 4. Output shaft rupture | <ol style="list-style-type: none"> 1. Replace gears 2. Replace key 3. Replace input shaft 4. Replace output shaft |
| VII. Gear Worn-out | <ol style="list-style-type: none"> 1. Overload 2. Improper lubricant oil 3. Lubricant oil shortage 4. Excessive ambient temperature | <ol style="list-style-type: none"> 1. Adjust to proper loading 2. Change proper lubricant oil 3. Refill lubricant oil 4. Ventilation improvement |

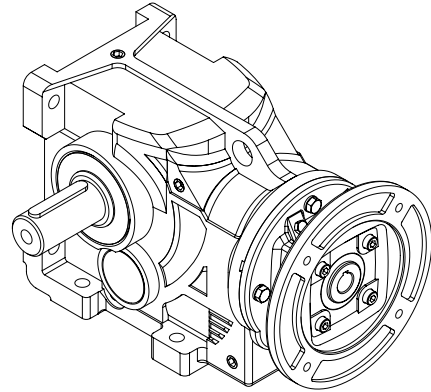


2.1 Variants

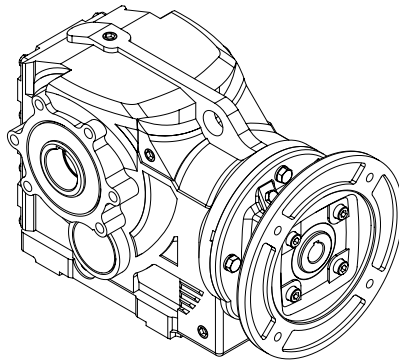
Input Flange



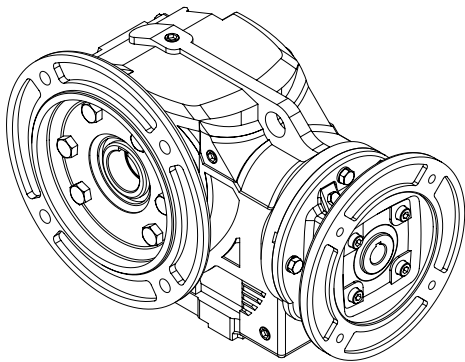
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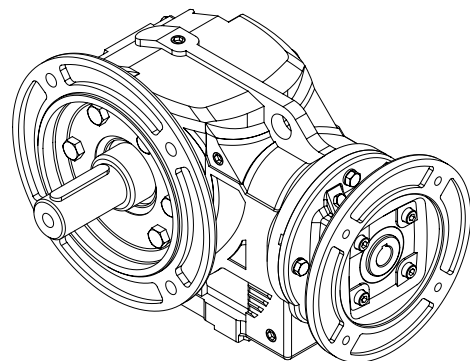
KSN...



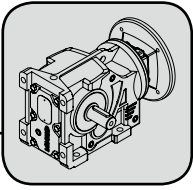
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KMN...

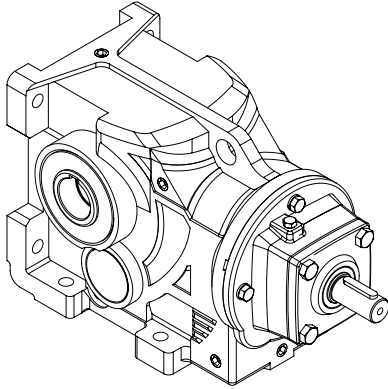


KNN...

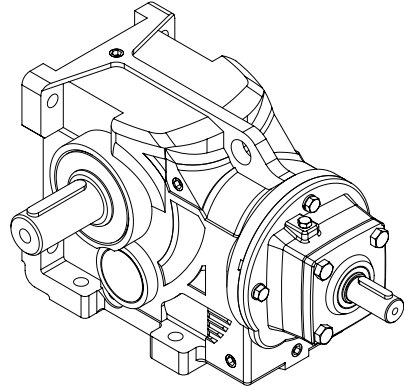


Helical-Bevel Gear Units
Type Introduction

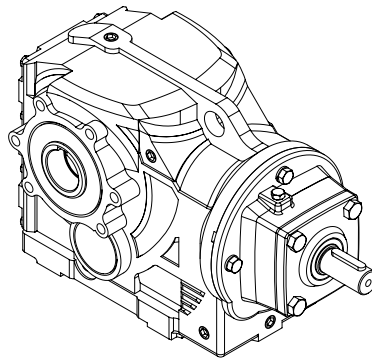
Solid Input Shaft



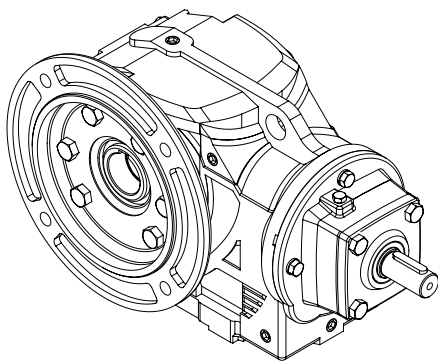
KHS...



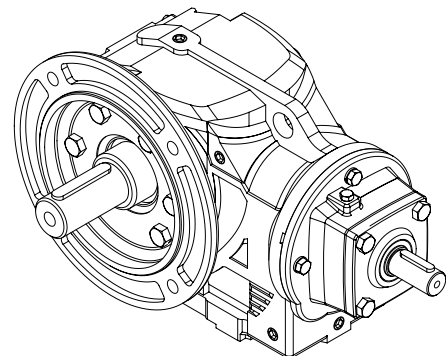
KSS...



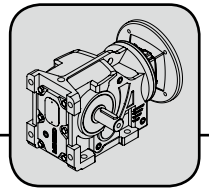
KAS...



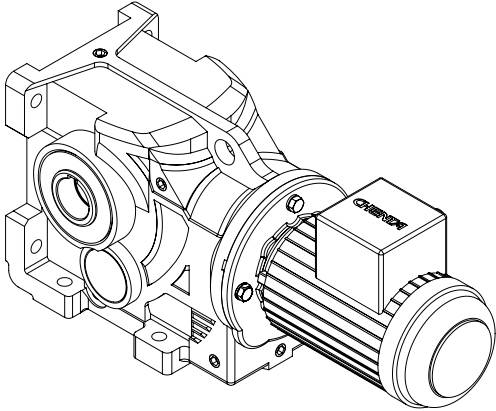
KMS...



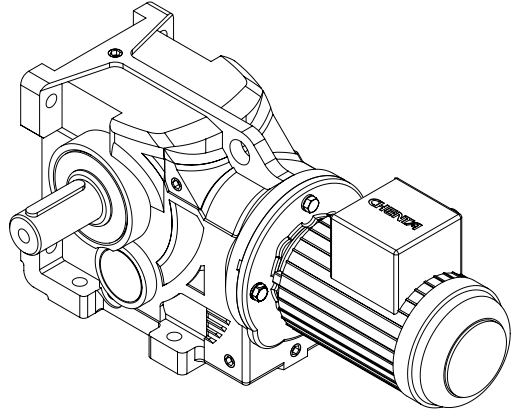
KNS...



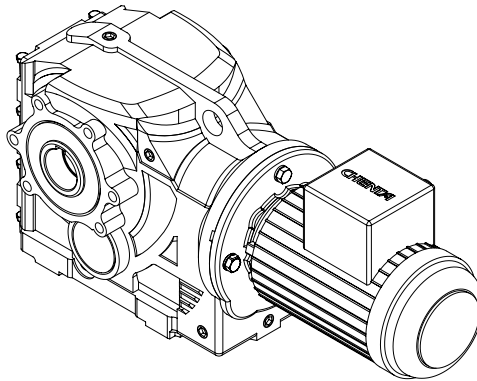
Couple with Motor



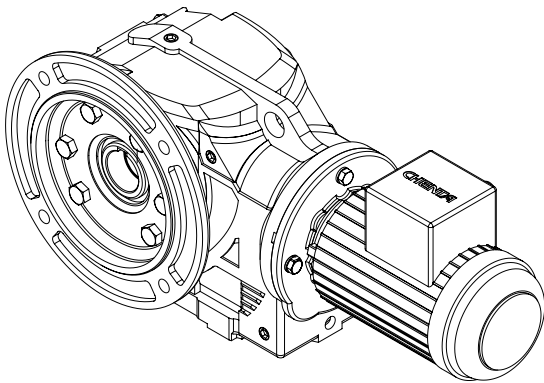
KHM...



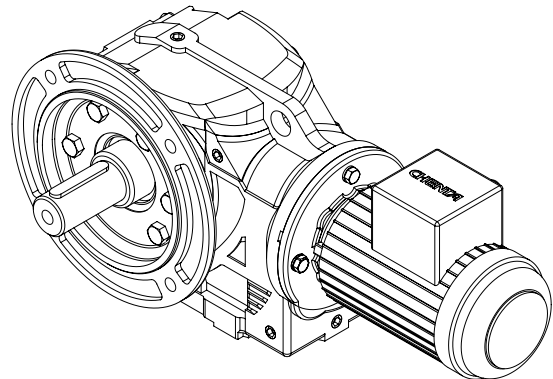
KSM...



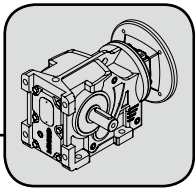
KAM...



KMM...



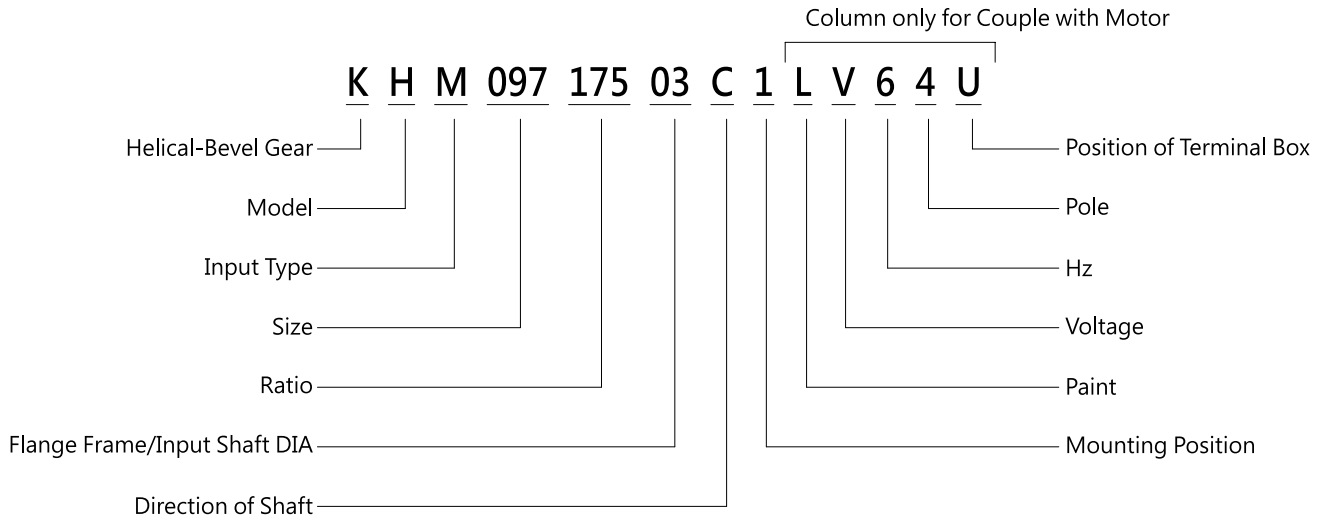
KNM...



Helical-Bevel Gear Units

Order Code for Helical Bevel Unit

2.2 Order Code



Model

- S Solid Output Shaft (Foot Mounting)
- H Hollow Output Shaft (Foot Mounting)
- N Solid Output Shaft With Mounting Flange
- A Hollow Output Shaft
- M Hollow Output Shaft With Mounting Flange

Input Type

- F Input Flange IEC B5
- B Input Flange IEC B14
- N Input Flange NEMA
- S Solid Input Shaft
- M Couple With Motor

Size

- 037 : 37
- 047 : 47
- 057 : 57
- 067 : 67
- 077 : 77
- 087 : 87
- 097 : 97
- 107 : 107

Ratio

- 005 : 1/5
- }
- 215 : 1/215

Flange Frame/ Input Shaft DIA

| IEC Standard 4-Pole | NEMA Standard | Input Shaft (Inch Dia) |
|---------------------|---------------|------------------------|
| QQ : 1/4HP | 01 : 56C | Ø0.625 |
| HH : 1/2HP | 02 : 143T | Ø0.75 |
| 01 : 1HP | 04 : 182/184T | Ø0.875 |
| 02 : 2HP | 06 : 213/215T | Ø1.375 |
| 03 : 3HP | 08 : 254/256T | Ø1.625 |
| 05 : 5HP | 10 : 284/286T | Ø1.875 |
| 07 : 7.5HP | 12 : 324/326T | |
| 10 : 10HP | | |
| 15 : 15HP | | |
| 20 : 20HP | | |

Direction of Shaft

A、B、C

Mounting Positions

M1、M2、M3、M4、M5、M6

Paint

L : Gray

Voltage

| | | |
|-------------|-------------|-------------|
| 2 : 220/380 | C : 220/400 | H : 200/346 |
| 4 : 240/415 | D : 230/400 | K : 208/220 |
| 5 : 220/440 | E : 230/440 | M : 208/240 |
| A : 220/230 | F : 240/480 | N : 380/660 |
| B : 220/240 | G : 120/208 | V : 208~480 |

Hz

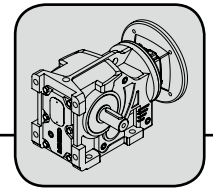
5 : 50Hz
6 : 60Hz

Pole

2 : 2P
4 : 4P
6 : 6P
8 : 8P

Position of Terminal Box

U、D、L、R

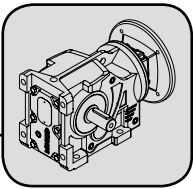


2.3 Selection Table Example

Available C-Face Adapters and Ratings

Gear Unit Information

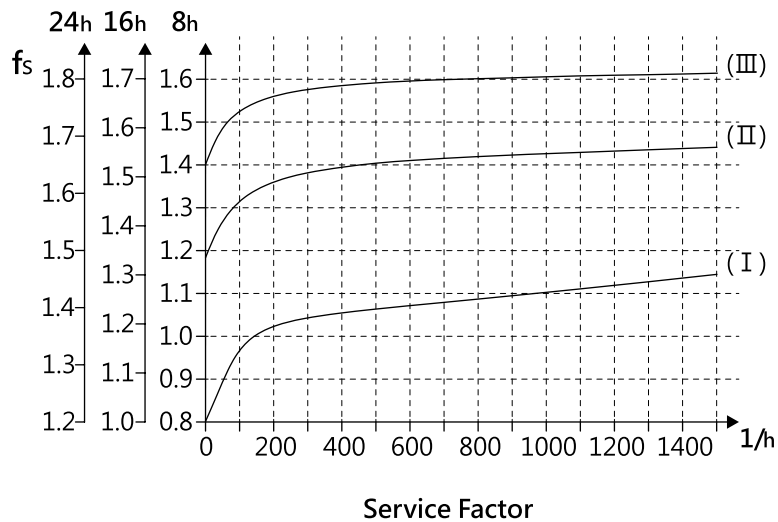
| K37 | | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|------------------------------|------------------------------------|--------------------------------------|--------|------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|
| Ratio <i>i</i> | Output Speed n_a rmp | Input Power $P_{e_{max}}$ HP | Output Torque T_{amax} lb-in | Stages | | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 150.47 | 12 | 0.36 | 1770 | 3 | - | 0.36 | 1770 | 1140 | | | | | | |
| 134.96 | 13 | 0.40 | 1770 | 3 | - | 0.40 | 1770 | 1090 | | | | | | |
| 116.28 | 15 | 0.47 | 1770 | 3 | - | 0.47 | 1770 | 1030 | | | | | | |
| 106.21 | 16 | 0.51 | 1770 | 3 | - | 0.51 | 1770 | 990 | | | | | | |
| 92.84 | 19 | 0.58 | 1770 | 3 | - | 0.58 | 1770 | 940 | | | | | | |
| 83.69 | 21 | 0.65 | 1770 | 3 | - | 0.65 | 1770 | 900 | | | | | | |
| 75.58 | 23 | 0.72 | 1770 | 3 | - | 0.72 | 1770 | 860 | | | | | | |
| 67.80 | 26 | 0.80 | 1770 | 3 | - | 0.75 | 1681 | 840 | | | | | | |
| 59.67 | 29 | 0.91 | 1770 | 3 | - | 0.75 | 1480 | 815 | | | | | | |
| 49.51 | 35 | 1.10 | 1770 | 3 | - | 0.75 | 1228 | 785 | 1 | 1637 | 740 | | | |
| 44.46 | 39 | 1.22 | 1770 | 3 | - | 0.75 | 1103 | 765 | 1 | 1470 | 725 | | | |
| 37.97 | 46 | 1.43 | 1770 | 3 | - | 0.75 | 942 | 735 | 1 | 1256 | 705 | | | |
| 32.19 | 54 | 1.66 | 1747 | 3 | - | 0.75 | 798 | 705 | 1 | 1065 | 680 | | | |
| 26.40 | 66 | 1.95 | 1680 | 3 | - | 0.75 | 655 | 670 | 1 | 873 | 650 | | | |



2.4 Determining the Service Factor

The service factor is determined along with the daily operating time (hours/day), operating condition (continuous or intermittent) and level of load; for a proper gear selection, please determine the service factor accordingly.

$$M_a \times f_s \leq M_{amax}$$



- Load** I Light shocks : mass acceleration factor ≤ 0.2
- Classification** II Moderate shocks : mass acceleration factor ≤ 3
- III Heavy shocks : mass acceleration factor ≤ 10

$$\text{Mass acceleration factor} = \frac{\text{all exterior moments of inertia}}{\text{moments of inertia drive motors}}$$

[All exterior moments of inertia] - recalculated to motor speed, formula

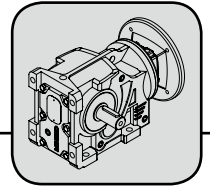
$$J_x = J \times \left(\frac{n}{n_M} \right)^2$$

J_x : mass moment of inertia scaled down to the motor shaft

J : mass moment of inertia with reference to the output speed of the gear unit

n : output speed of the gear unit

n_M : motor speed



Calculation of
service factor

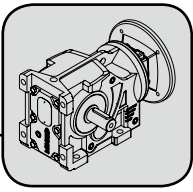
$$f_s = \frac{M_{amax}}{M_a}$$

M_{amax} : the maximum permitted continuous torque

M_a : output torque of the gear unit

EX

If the mass acceleration factor is 2.5 (Moderate shocks II), the operating time is 14 hours per day in an intermittent condition by 300 times per hour. We can acquire $f_s=1.51$ from the f_s chart; according to selection tables, we will know to select the gear unit with $f_s \geq 1.51$.



Helical-Bevel Gear Units

Tolerances

2.5 Tolerances

Shaft heights

| D inch/mm | Tolerance inch/mm |
|--------------|-------------------------|
| ≤9.84 / 250 | +0 → -0.020 / +0 → -0.5 |
| >9.84 / 250 | +0 → -0.039 / +0 → -1.0 |

Shaft ends

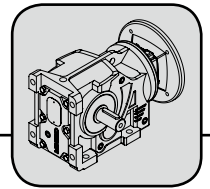
| Solid Shaft Diameter inch | | Tolerance inch |
|------------------------------|-------|-------------------|
| over | to | |
| 0.500 | 1.375 | +0 / -0.0005 |
| 1.375 | 7.5 | +0 / -0.0010 |

Hollow shafts

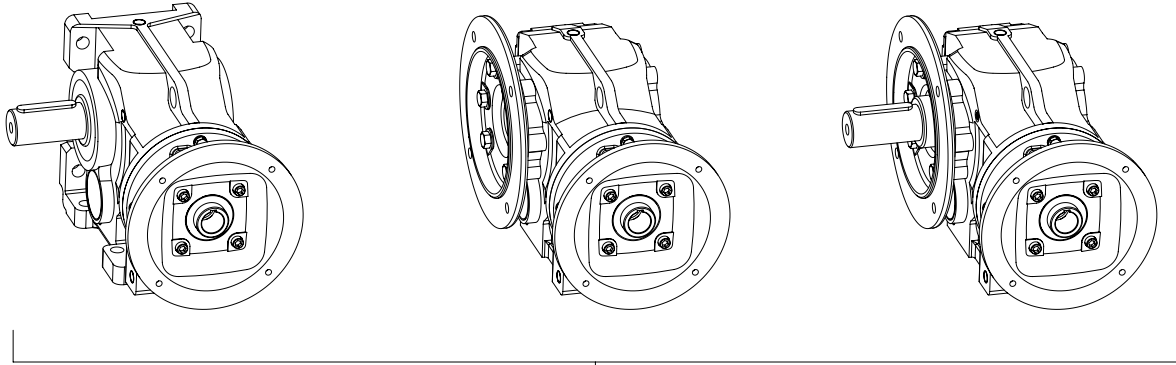
| Hollow Shaft Diameter inch | | Tolerance inch |
|-------------------------------|--------|-------------------|
| over | to | |
| 0.500 | 0.875 | +0.0007 / -0.0 |
| 0.875 | 1.9375 | +0.0010 / -0.0 |
| 1.9375 | 2.9375 | +0.0011 / -0.0 |
| 2.9375 | 4.000 | +0.0013 / -0.0 |
| 4.000 | 4.500 | +0.0018 / -0.0 |

Output flanges

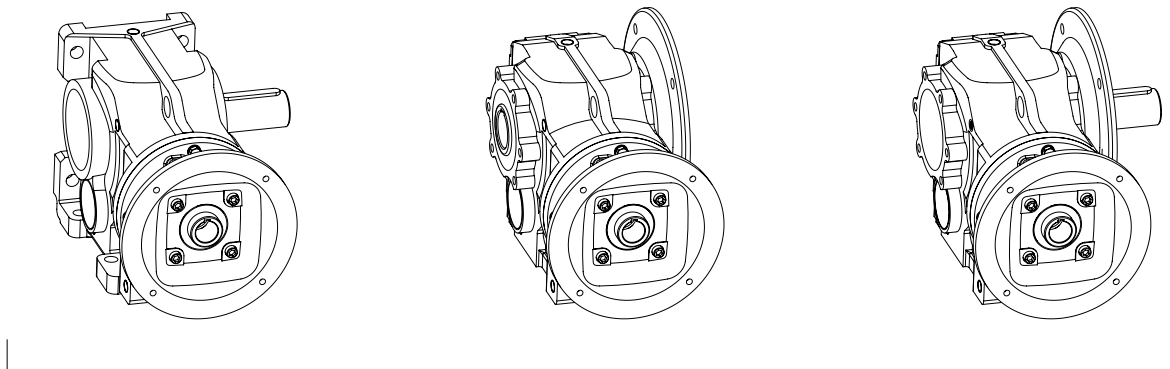
| Diameter inch | | Flange Centering Shoulder Dimension Tolerance inch | |
|------------------|-------|--|--------------|
| over | to | ISO j6 | ISO h6 |
| 3.15 | 4.72 | +0.0005 / -0.00035 | — |
| 4.72 | 7.08 | +0.0005 / -0.0004 | — |
| 7.08 | 9.84 | +0.0005 / -0.0005 | — |
| 9.84 | 12.4 | — | +0 / -0.0013 |
| 12.4 | 15.74 | — | +0 / -0.0014 |
| 15.74 | 19.68 | — | +0 / -0.0020 |



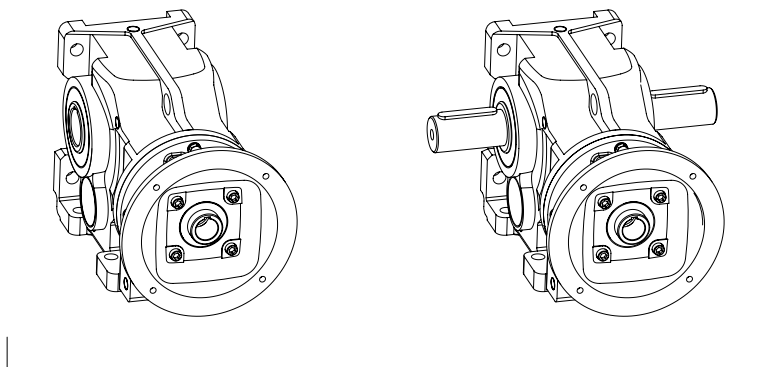
2.6 Direction of Shaft



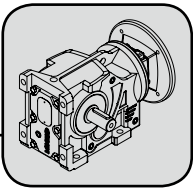
A



B



C



Helical-Bevel Gear Units

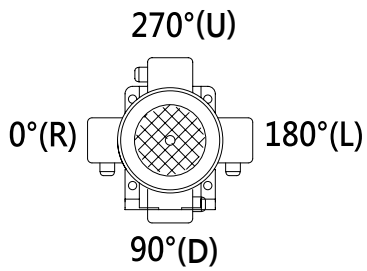
Mounting Positions

2.7 Mounting Positions

KS../KH..37-107

Position of Terminal Box

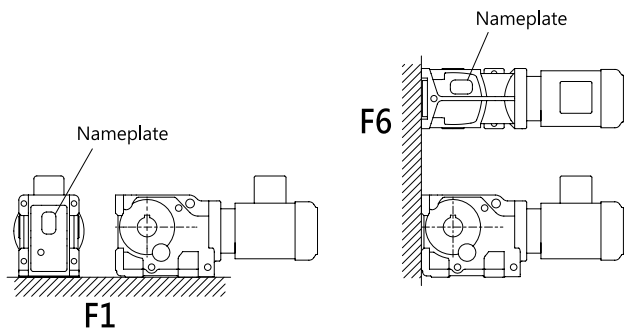
Standard position "U", unless specific requirements



Mounting Surface

Standard mounting surface F1, unless specific requirements

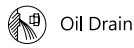
The position of plug and nameplate might vary depending on the mounting surface



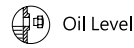
2



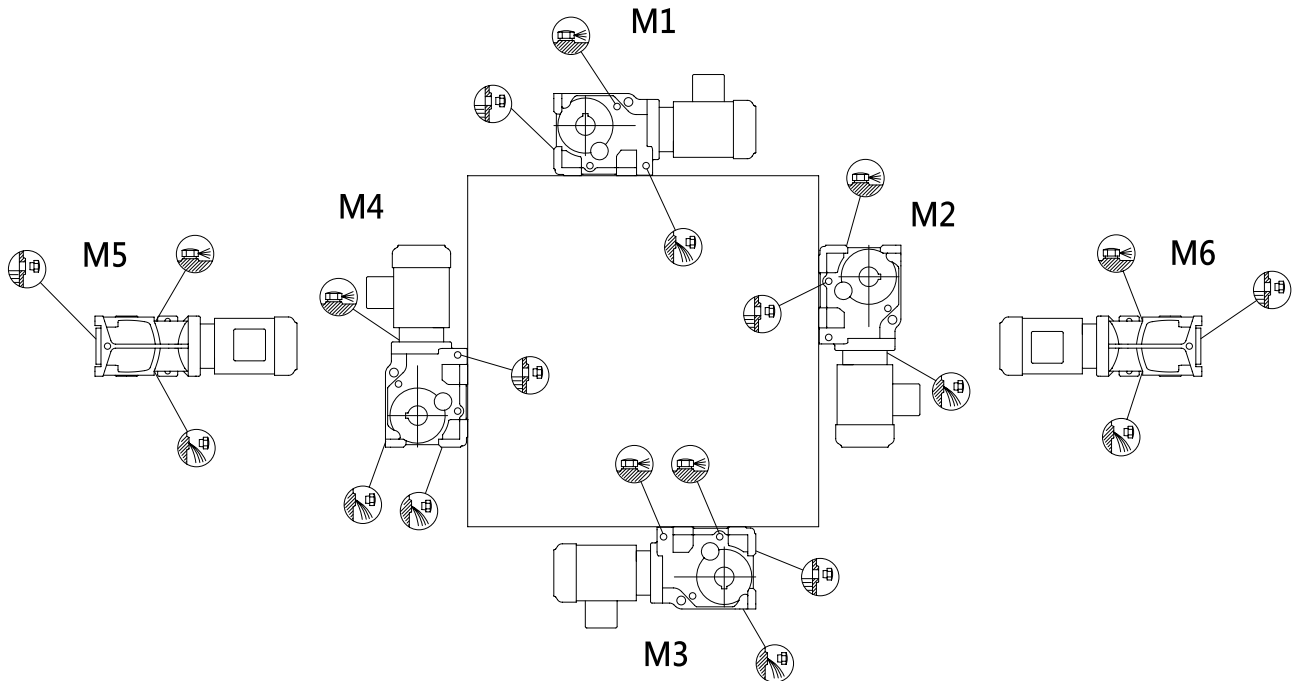
Breather

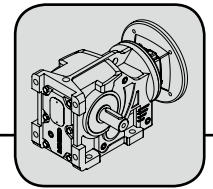


Oil Drain



Oil Level

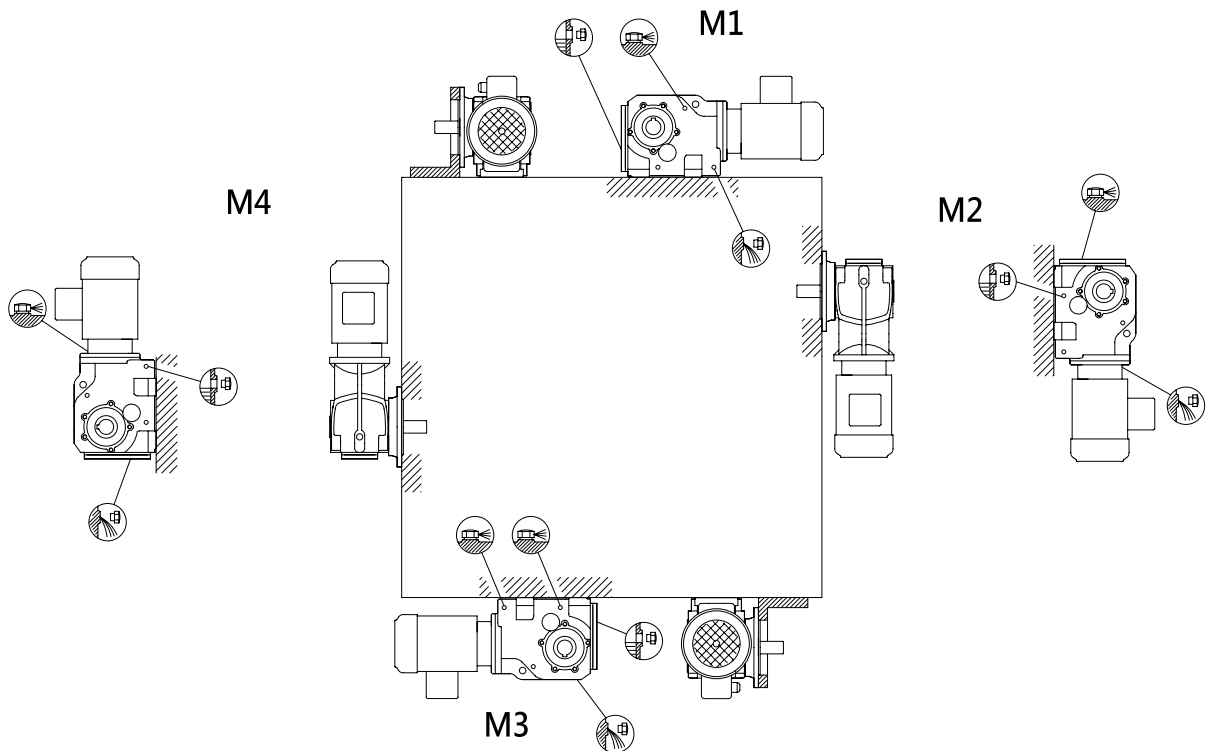
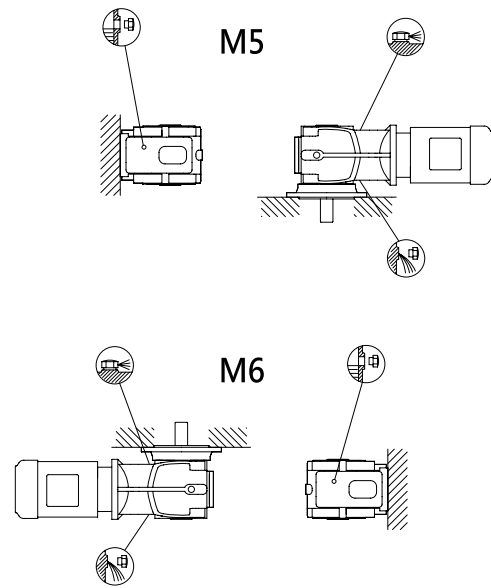
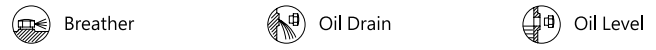
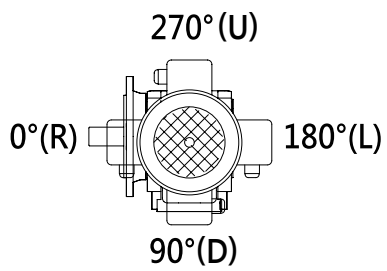


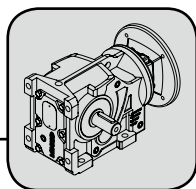


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Position of Terminal Box

Standard position "U", unless specific requirements





Helical-Bevel Gear Units

Lubricant Volume

2.8 Lubricant Volume

Lubricant Volume & Lubricant Selection

| Standard Load, Input 600RPM or more. | | | | |
|--------------------------------------|--------|--------|---------------|-----------|
| Temperature(C°) | CPC | ISO VG | Mobil | Shell |
| -30 ~ -15 | HD 100 | VG 100 | Mobilgear 627 | Omala 100 |
| -15 ~ -3 | HD 150 | VG 150 | Mobilgear 629 | Omala 150 |
| -3 ~ 23 | HD 220 | VG 220 | Mobilgear 630 | Omala 220 |
| 23 ~ 40 | HD 320 | VG 320 | Mobilgear 632 | Omala 320 |
| 40 ~ 80 | HD 460 | VG 460 | Mobilgear 634 | Omala 460 |

| Heavy Load, Input 600RPM or more. | | | | |
|-----------------------------------|--------|--------|---------------|-----------|
| Temperature(C°) | CPC | ISO VG | Mobil | Shell |
| -30 ~ -15 | HD 150 | VG 150 | Mobilgear 629 | Omala 150 |
| -15 ~ -3 | HD 220 | VG 220 | Mobilgear 630 | Omala 220 |
| -3 ~ 23 | HD 320 | VG 320 | Mobilgear 632 | Omala 320 |
| 23 ~ 40 | HD 460 | VG 460 | Mobilgear 634 | Omala 460 |
| 40 ~ 80 | HD 680 | 680 | Mobilgear 636 | Omala 680 |

output RPM<100RPM, please use CPC HD-220 E.P. lubricant or equivalent

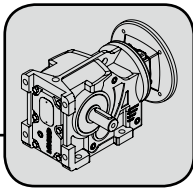
output RPM<100RPM, please use CPC HD-320 E.P. lubricant or equivalent

| Lubricant Volume(L) | | | | | | |
|---------------------|------|------|------|------|-------|------|
| Gear Unit | M1 | M2 | M3 | M4 | M5 | M6 |
| K..37 | 0.50 | 1.00 | 1.00 | 1.40 | 1.00 | 1.00 |
| K..47 | 0.80 | 1.30 | 1.60 | 2.15 | 1.60 | 1.60 |
| K..57 | 1.30 | 2.30 | 2.70 | 3.15 | 2.90 | 2.70 |
| K..67 | 1.10 | 2.40 | 2.70 | 3.70 | 2.60 | 2.60 |
| K..77 | 2.10 | 4.10 | 4.60 | 5.90 | 4.440 | 4.40 |
| K..87 | 3.70 | 8.20 | 8.80 | 11.1 | 8.00 | 8.00 |
| K..97 | 7.00 | 14.7 | 15.7 | 20.0 | 15.7 | 15.7 |
| K..107 | 10.0 | 20.5 | 24.0 | 32.4 | 24.0 | 24.0 |

RECOMMENDATIONS



CHENTA



Helical-Bevel Gear Units

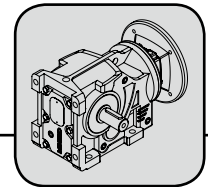
Selection Table

1750 Input Rpm

3.1 Selection Tables

| Ratio <i>i</i> | Output Speed n_a rpm | K37 | | | Stages | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|------------------------------|------------------------------------|---|---|--------|------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|
| | | Input Power $P_{e_{max}}$ HP | Output Torque $T_{a_{max}}$ lb-in | | Pri. | Sec. | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb |
| 150.47 | 12 | 0.36 | 1770 | 3 | - | 0.36 | 1770 | 1140 | | | | | | | |
| 134.96 | 13 | 0.40 | 1770 | 3 | - | 0.40 | 1770 | 1090 | | | | | | | |
| 116.28 | 15 | 0.47 | 1770 | 3 | - | 0.47 | 1770 | 1030 | | | | | | | |
| 106.21 | 16 | 0.51 | 1770 | 3 | - | 0.51 | 1770 | 990 | | | | | | | |
| 92.84 | 19 | 0.58 | 1770 | 3 | - | 0.58 | 1770 | 940 | | | | | | | |
| 83.69 | 21 | 0.65 | 1770 | 3 | - | 0.65 | 1770 | 900 | | | | | | | |
| 75.58 | 23 | 0.72 | 1770 | 3 | - | 0.72 | 1770 | 860 | | | | | | | |
| 67.80 | 26 | 0.80 | 1770 | 3 | - | 0.75 | 1681 | 840 | | | | | | | |
| 59.67 | 29 | 0.91 | 1770 | 3 | - | 0.75 | 1480 | 815 | | | | | | | |
| 49.51 | 35 | 1.10 | 1770 | 3 | - | 0.75 | 1228 | 785 | 1 | 1637 | 740 | | | | |
| 44.46 | 39 | 1.22 | 1770 | 3 | - | 0.75 | 1103 | 765 | 1 | 1470 | 725 | | | | |
| 37.97 | 46 | 1.43 | 1770 | 3 | - | 0.75 | 942 | 735 | 1 | 1256 | 705 | | | | |
| 32.19 | 54 | 1.66 | 1747 | 3 | - | 0.75 | 798 | 705 | 1 | 1065 | 680 | | | | |
| 26.40 | 66 | 1.95 | 1680 | 3 | - | 0.75 | 655 | 670 | 1 | 873 | 650 | | | | |
| 25.73 | 68 | 1.98 | 1658 | 3 | - | 0.75 | 638 | 650 | 1 | 851 | 625 | | | | |
| 23.10 | 76 | 2.20 | 1659 | 3 | - | 0.75 | 573 | 635 | 1 | 764 | 610 | 2 | 1528 | 505 | |
| 19.73 | 89 | 2.56 | 1650 | 3 | - | 0.75 | 489 | 605 | 1 | 652 | 585 | 2 | 1305 | 500 | |
| 16.73 | 105 | 3.00 | 1638 | 3 | - | 0.75 | 415 | 580 | 1 | 553 | 565 | 2 | 1106 | 490 | |
| 15.32 | 114 | 3.14 | 1568 | 3 | - | 0.75 | 380 | 575 | 1 | 506 | 560 | 2 | 1013 | 510 | |
| 13.08 | 134 | 3.68 | 1569 | 3 | - | 0.75 | 324 | 550 | 1 | 433 | 535 | 2 | 865 | 495 | |
| 11.09 | 158 | 4.33 | 1565 | 3 | - | 0.75 | 275 | 520 | 1 | 367 | 510 | 2 | 733 | 475 | |
| 9.09 | 192 | 5.26 | 1562 | 3 | - | 0.75 | 226 | 490 | 1 | 301 | 485 | 2 | 601 | 455 | |
| 7.96 | 220 | 6.00 | 1559 | 3 | - | 0.75 | 197 | 465 | 1 | 263 | 460 | 2 | 526 | 425 | |
| 6.80 | 257 | 6.67 | 1479 | 3 | - | 0.75 | 169 | 445 | 1 | 225 | 440 | 2 | 450 | 410 | |
| 5.76 | 304 | 7.44 | 1400 | 3 | - | 0.75 | 143 | 420 | 1 | 191 | 420 | 2 | 381 | 395 | |
| 4.73 | 370 | 8.50 | 1310 | 3 | - | 0.75 | 117 | 400 | 1 | 156 | 395 | 2 | 312 | 375 | |

| | |
|--|--------------------------|
| | Standard |
| | Contact with salespeople |
| | Not available |

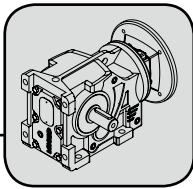


1750 Input Rpm

| Ratio <i>i</i> | K47 | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 130.79 | 13 | 0.83 | 3540 | 3 | - | 0.75 | 3244 | 1190 | | | | | | |
| 116.81 | 15 | 0.93 | 3540 | 3 | - | 0.75 | 2897 | 1170 | | | | | | |
| 108.86 | 16 | 1.00 | 3540 | 3 | - | 0.75 | 2700 | 1160 | 1 | 3600 | 1050 | | | |
| 96.90 | 18 | 1.12 | 3540 | 3 | - | 0.75 | 2403 | 1130 | 1 | 3204 | 1040 | | | |
| 86.89 | 20 | 1.25 | 3540 | 3 | - | 0.75 | 2155 | 1110 | 1 | 2873 | 1030 | | | |
| 76.33 | 23 | 1.42 | 3540 | 3 | - | 0.75 | 1893 | 1080 | 1 | 2524 | 1010 | | | |
| 71.78 | 24 | 1.51 | 3540 | 3 | - | 0.75 | 1780 | 1070 | 1 | 2373 | 1000 | | | |
| 58.99 | 30 | 1.84 | 3540 | 3 | - | 0.75 | 1463 | 1030 | 1 | 1951 | 980 | | | |
| 53.29 | 33 | 1.97 | 3434 | 3 | - | 0.75 | 1322 | 995 | 1 | 1762 | 950 | | | |
| 47.08 | 37 | 2.21 | 3400 | 3 | - | 0.75 | 1168 | 975 | 1 | 1557 | 935 | 2 | 3114 | 745 |
| 41.36 | 42 | 2.50 | 3372 | 3 | - | 0.75 | 1026 | 945 | 1 | 1368 | 905 | 2 | 2735 | 750 |
| 38.89 | 45 | 2.60 | 3304 | 3 | - | 0.75 | 965 | 925 | 1 | 1286 | 895 | 2 | 2572 | 745 |
| 31.35 | 56 | 3.03 | 3105 | 3 | - | | | | | | | 2 | 2073 | 725 |
| 28.88 | 61 | 3.17 | 2991 | 3 | - | 0.75 | 716 | 855 | 1 | 955 | 830 | 2 | 1910 | 730 |
| 26.30 | 67 | 3.48 | 2982 | 3 | - | 0.75 | 652 | 825 | 1 | 870 | 805 | 2 | 1739 | 710 |
| 24.73 | 71 | 3.68 | 2969 | 3 | - | 0.75 | 613 | 815 | 1 | 818 | 795 | 2 | 1635 | 705 |
| 20.65 | 85 | 3.97 | 2675 | 3 | - | | | | | | | 2 | 1365 | 690 |
| 18.36 | 95 | 4.44 | 2659 | 3 | - | 0.75 | 455 | 745 | 1 | 607 | 730 | 2 | 1214 | 665 |
| 16.99 | 103 | 4.52 | 2507 | 3 | - | | | | | | | 2 | 1123 | 660 |
| 13.13 | 133 | 5.68 | 2435 | 3 | - | | | | | | | 2 | 868 | 620 |
| 10.80 | 162 | 6.42 | 2262 | 3 | - | | | | | | | 2 | 714 | 590 |
| 9.95 | 176 | 6.46 | 2097 | 3 | - | 0.75 | 247 | 620 | 1 | 329 | 615 | 2 | 658 | 580 |
| 7.11 | 246 | 8.08 | 1875 | 3 | - | | | | | | | 2 | 470 | 530 |
| 5.85 | 299 | 9.20 | 1757 | 3 | - | | | | | | | 2 | 387 | 505 |

| Ratio <i>i</i> | K47 | | | | | AM182 | | | AM184 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|
| | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | |
| 28.88 | 61 | 3.17 | 2991 | 3 | - | 3 | 2864 | 600 | | | |
| 26.30 | 67 | 3.48 | 2982 | 3 | - | 3 | 2609 | 600 | | | |
| 24.73 | 71 | 3.68 | 2969 | 3 | - | | | | | | |
| 20.65 | 85 | 3.97 | 2675 | 3 | - | 3 | 2048 | 610 | | | |
| 18.36 | 95 | 4.44 | 2659 | 3 | - | 3 | 1821 | 595 | | | |
| 16.99 | 103 | 4.52 | 2507 | 3 | - | 3 | 1685 | 600 | | | |
| 13.13 | 133 | 5.68 | 2435 | 3 | - | 3 | 1302 | 575 | 5 | 2170 | 465 |
| 10.80 | 162 | 6.42 | 2262 | 3 | - | 3 | 1071 | 550 | 5 | 1786 | 465 |
| 9.95 | 176 | 6.46 | 2097 | 3 | - | 3 | 987 | 550 | 5 | 1645 | 470 |
| 7.11 | 246 | 8.08 | 1875 | 3 | - | 3 | 706 | 510 | 5 | 1176 | 460 |
| 5.85 | 299 | 9.20 | 1757 | 3 | - | 3 | 581 | 485 | 5 | 968 | 445 |

Standard
 Contact with salespeople
 Not available



Helical-Bevel Gear Units

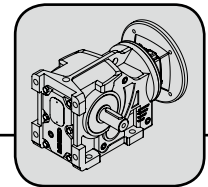
Selection Table

1750 Input Rpm

| K57 | | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|------------------------------|----------------------------------|---------------------------------------|--------|------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|
| Ratio <i>i</i> | Output Speed n_a rpm | Input Power $P_{e,max}$ HP | Output Torque $T_{a,max}$ lb-in | Stages | | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 149.93 | 12 | 1.09 | 5310 | 3 | - | 0.75 | 3718 | 1680 | 1 | 4958 | 1560 | | | |
| 130.88 | 13 | 1.24 | 5310 | 3 | - | 0.75 | 3246 | 1680 | 1 | 4328 | 1550 | | | |
| 118.43 | 15 | 1.38 | 5310 | 3 | - | 0.75 | 2937 | 1660 | 1 | 3916 | 1540 | | | |
| 108.29 | 16 | 1.50 | 5310 | 3 | - | 0.75 | 2686 | 1630 | 1 | 3581 | 1520 | | | |
| 95.70 | 18 | 1.70 | 5310 | 3 | - | 0.75 | 2373 | 1590 | 1 | 3165 | 1490 | | | |
| 84.31 | 21 | 1.93 | 5310 | 3 | - | 0.75 | 2091 | 1550 | 1 | 2788 | 1460 | | | |
| 69.12 | 25 | 2.35 | 5310 | 3 | - | 0.75 | 1714 | 1480 | 1 | 2285 | 1410 | 2 | 4571 | 1100 |
| 65.13 | 27 | 2.50 | 5310 | 3 | - | 0.75 | 1615 | 1460 | 1 | 2154 | 1390 | 2 | 4307 | 1100 |
| 56.22 | 31 | 2.90 | 5310 | 3 | - | | | | | | | 2 | 3718 | 1110 |
| 47.35 | 37 | 3.44 | 5310 | 3 | - | 0.75 | 1174 | 1370 | 1 | 1566 | 1330 | 2 | 3131 | 1170 |
| 44.43 | 39 | 3.54 | 5130 | 3 | - | | | | | | | 2 | 2938 | 1090 |
| 41.71 | 42 | 3.75 | 5105 | 3 | - | 0.75 | 1034 | 1320 | 1 | 1379 | 1290 | 2 | 2759 | 1150 |
| 34.20 | 51 | 4.56 | 5090 | 3 | - | 0.75 | 848 | 1250 | 1 | 1131 | 1220 | 2 | 2262 | 1110 |
| 32.22 | 54 | 4.81 | 5060 | 3 | - | 0.75 | 799 | 1230 | 1 | 1066 | 1200 | 2 | 2131 | 1100 |
| 27.82 | 63 | 4.88 | 4425 | 3 | - | | | | | | | 2 | 1840 | 1060 |
| 25.76 | 68 | 4.95 | 4155 | 3 | - | 0.75 | 639 | 1130 | 1 | 852 | 1110 | 2 | 1704 | 1010 |
| 22.24 | 79 | 5.42 | 3930 | 3 | - | | | | | | | 2 | 1471 | 975 |
| 17.57 | 100 | 6.26 | 3590 | 3 | - | | | | | | | 2 | 1162 | 925 |
| 12.75 | 137 | 8.44 | 3510 | 3 | - | 0.75 | 316 | 920 | 1 | 421 | 910 | 2 | 843 | 875 |
| 11.00 | 159 | 9.50 | 3410 | 3 | - | | | | | | | 2 | 728 | 840 |
| 8.69 | 201 | 11.53 | 3270 | 3 | - | | | | | | | 2 | 575 | 785 |

| K57 | | | | | | AM182 | | | AM184 | | |
|-------------------|------------------------------|----------------------------------|---------------------------------------|--------|------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|
| Ratio <i>i</i> | Output Speed n_a rpm | Input Power $P_{e,max}$ HP | Output Torque $T_{a,max}$ lb-in | Stages | | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb |
| | | | | Pri. | Sec. | | | | | | |
| 44.43 | 39 | 3.54 | 5130 | 3 | - | 3 | 4408 | 880 | | | |
| 41.71 | 42 | 3.75 | 5105 | 3 | - | 3 | 4138 | 970 | | | |
| 34.20 | 51 | 4.56 | 5090 | 3 | - | 3 | 3392 | 970 | | | |
| 32.22 | 54 | 4.81 | 5060 | 3 | - | 3 | 3197 | 970 | | | |
| 27.82 | 63 | 4.88 | 4425 | 3 | - | 3 | 2759 | 960 | | | |
| 25.76 | 68 | 4.95 | 4155 | 3 | - | 3 | 2556 | 895 | | | |
| 22.24 | 79 | 5.42 | 3930 | 3 | - | 3 | 2206 | 880 | 5 | 3677 | 615 |
| 17.57 | 100 | 6.26 | 3590 | 3 | - | 3 | 1743 | 855 | 5 | 2906 | 695 |
| 12.75 | 137 | 8.44 | 3510 | 3 | - | 3 | 1264 | 835 | 5 | 2107 | 740 |
| 11.00 | 159 | 9.50 | 3410 | 3 | - | 3 | 1091 | 805 | 5 | 1819 | 730 |
| 8.69 | 201 | 11.53 | 3270 | 3 | - | 3 | 863 | 760 | 5 | 1438 | 700 |

Standard
 Contact with salespeople
 Not available

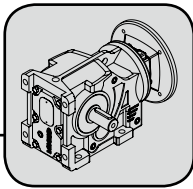


1750 Input Rpm

| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | K67 | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| | | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 149.56 | 12 | 1.49 | 7260 | 3 | - | 0.75 | 3709 | 2140 | 1 | 4946 | 2140 | | | |
| 130.56 | 13 | 1.70 | 7260 | 3 | - | 0.75 | 3238 | 2140 | 1 | 4317 | 2140 | | | |
| 118.14 | 15 | 1.88 | 7260 | 3 | - | 0.75 | 2930 | 2140 | 1 | 3906 | 2140 | | | |
| 108.03 | 16 | 2.06 | 7260 | 3 | - | 0.75 | 2679 | 2140 | 1 | 3572 | 2140 | | | |
| 95.46 | 18 | 2.25 | 7025 | 3 | - | 0.75 | 2368 | 2140 | 1 | 3157 | 2140 | 2 | 6313 | 1680 |
| 84.10 | 21 | 2.46 | 6760 | 3 | - | 0.75 | 2086 | 2140 | 1 | 2781 | 2140 | 2 | 5562 | 1750 |
| 68.95 | 25 | 2.83 | 6370 | 3 | - | 0.75 | 1710 | 2140 | 1 | 2280 | 2140 | 2 | 4560 | 1820 |
| 64.97 | 27 | 2.95 | 6260 | 3 | - | 0.75 | 1611 | 2140 | 1 | 2148 | 2140 | 2 | 4297 | 1840 |
| 56.09 | 31 | 3.27 | 5990 | 3 | - | | | | | | | 2 | 3709 | 1860 |
| 46.33 | 38 | 4.02 | 6080 | 3 | - | 0.75 | 1149 | 2140 | 1 | 1532 | 2140 | 2 | 3064 | 1850 |
| 44.32 | 39 | 3.86 | 5580 | 3 | - | | | | | | | 2 | 2931 | 1870 |
| 37.98 | 46 | 4.62 | 5730 | 3 | - | 0.75 | 942 | 2140 | 1 | 1256 | 2140 | 2 | 2512 | 1850 |
| 35.79 | 49 | 4.82 | 5630 | 3 | - | 0.75 | 888 | 2140 | 1 | 1184 | 2140 | 2 | 2367 | 1840 |
| 33.26 | 53 | 4.71 | 5120 | 3 | - | 0.75 | 825 | 2140 | 1 | 1100 | 2130 | 2 | 2200 | 1840 |
| 30.90 | 57 | 5.34 | 5390 | 3 | - | | | | | | | 2 | 2043 | 1820 |
| 27.27 | 64 | 5.42 | 4825 | 3 | - | 0.75 | 676 | 2100 | 1 | 902 | 2040 | 2 | 1804 | 1810 |
| 25.70 | 68 | 5.65 | 4740 | 3 | - | 0.75 | 637 | 2070 | 1 | 850 | 2010 | 2 | 1699 | 1790 |
| 24.42 | 72 | 6.30 | 5020 | 3 | - | | | | | | | 2 | 1615 | 1770 |
| 22.18 | 79 | 6.26 | 4530 | 3 | - | | | | | | | 2 | 1467 | 1760 |
| 17.53 | 100 | 7.38 | 4220 | 3 | - | | | | | | | 2 | 1159 | 1690 |
| 14.16 | 124 | 9.23 | 4265 | 3 | - | 0.75 | 351 | 1770 | 1 | 468 | 1740 | 2 | 936 | 1620 |
| 12.22 | 143 | 10.23 | 4080 | 3 | - | | | | | | | 2 | 808 | 1570 |
| 9.66 | 181 | 12.06 | 3800 | 3 | - | | | | | | | 2 | 639 | 1500 |

| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | K67 | | | | AM182 | | | AM184 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|
| | | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | |
| 56.09 | 31 | 3.27 | 5990 | 3 | - | 3 | 5564 | 1380 | | | |
| 46.33 | 38 | 4.02 | 6080 | 3 | - | 3 | 4596 | 1450 | | | |
| 44.32 | 39 | 3.86 | 5580 | 3 | - | 3 | 4397 | 1490 | | | |
| 37.98 | 46 | 4.62 | 5730 | 3 | - | 3 | 3768 | 1510 | | | |
| 35.79 | 49 | 4.82 | 5630 | 3 | - | 3 | 3551 | 1530 | | | |
| 33.26 | 53 | 4.71 | 5120 | 3 | - | 3 | 3300 | 1560 | | | |
| 30.90 | 57 | 5.34 | 5390 | 3 | - | 3 | 3065 | 1550 | 5 | 5109 | 1010 |
| 27.27 | 64 | 5.42 | 4825 | 3 | - | 3 | 2705 | 1570 | | | |
| 25.70 | 68 | 5.65 | 4740 | 3 | - | 3 | 2549 | 1570 | 5 | 4249 | 1130 |
| 24.42 | 72 | 6.30 | 5020 | 3 | - | 3 | 2422 | 1560 | 5 | 4037 | 1130 |
| 22.18 | 79 | 6.26 | 4530 | 3 | - | 3 | 2201 | 1570 | 5 | 3668 | 1190 |
| 17.53 | 100 | 7.38 | 4220 | 3 | - | 3 | 1739 | 1540 | 5 | 2899 | 1240 |
| 14.16 | 124 | 9.23 | 4265 | 3 | - | 3 | 1404 | 1500 | 5 | 2341 | 1250 |
| 12.22 | 143 | 10.23 | 4080 | 3 | - | 3 | 1212 | 1460 | 5 | 2021 | 1250 |
| 9.66 | 181 | 12.06 | 3800 | 3 | - | 3 | 958 | 1410 | 5 | 1597 | 1240 |

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| | Standard |
| | Contact with salespeople |
| | Not available |



Helical-Bevel Gear Units

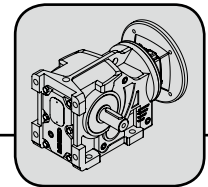
Selection Table

1750 Input Rpm

| K77 | | | | | | AM143 | | | AM145 | | | AM182 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 194.36 | 9 | 2.16 | 12845 | 3 | - | 1 | 6427 | 3090 | | | | | | |
| 180.17 | 10 | 2.33 | 11905 | 3 | - | 1 | 5958 | 3090 | | | | | | |
| 160.76 | 11 | 2.61 | 10625 | 3 | - | 1 | 5316 | 3090 | | | | | | |
| 144.13 | 12 | 2.92 | 9525 | 3 | - | 1 | 4766 | 3090 | | | | | | |
| 122.94 | 14 | 3.42 | 8125 | 3 | - | 1 | 4065 | 3090 | | | | | | |
| 109.30 | 16 | 3.85 | 7225 | 3 | - | 1 | 3614 | 3090 | 2 | 7229 | 3090 | | | |
| 100.66 | 17 | 4.18 | 13710 | 3 | - | | | | 2 | 6657 | 3090 | 3 | 9986 | 2450 |
| 90.08 | 19 | 4.67 | 13710 | 3 | - | | | | 2 | 5958 | 3090 | | | |
| 78.07 | 22 | 5.38 | 13710 | 3 | - | | | | 2 | 5163 | 3080 | 3 | 7745 | 2570 |
| 64.06 | 27 | 6.56 | 13710 | 3 | - | | | | | | | 3 | 6355 | 2610 |
| 57.05 | 31 | 7.16 | 13325 | 3 | - | | | | | | | 3 | 5660 | 2620 |
| 51.18 | 34 | 7.72 | 12900 | 3 | - | | | | | | | | | |
| 47.12 | 37 | 8.18 | 12580 | 3 | - | | | | | | | | | |
| 39.76 | 44 | 9.21 | 119555 | 3 | - | | | | | | | | | |
| 30.48 | 57 | 10.97 | 10915 | 3 | - | | | | | | | | | |
| 27.34 | 64 | 11.84 | 10565 | 3 | - | | | | | | | | | |
| 25.17 | 70 | 12.55 | 10308 | 3 | - | | | | | | | | | |
| 22.57 | 78 | 13.70 | 10090 | 3 | - | | | | | | | | | |
| 21.24 | 82 | 14.13 | 9795 | 3 | - | | | | | | | | | |
| 20.24 | 86 | 14.78 | 9765 | 3 | - | | | | | | | | | |
| 18.64 | 94 | 15.66 | 9525 | 3 | - | | | | | | | | | |
| 15.73 | 111 | 17.64 | 9050 | 3 | - | | | | | | | | | |
| 12.06 | 145 | 21.01 | 8265 | 3 | - | | | | | | | | | |
| 10.81 | 162 | 22.67 | 8000 | 3 | - | | | | | | | | | |
| 9.96 | 176 | 24.02 | 7800 | 3 | - | | | | | | | | | |
| 8.40 | 208 | 27.05 | 7415 | 3 | - | | | | | | | | | |

| K77 | | | | | | AM184 | | | AM213 | | | AM215 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 64.06 | 27 | 6.56 | 13710 | 3 | - | 5 | 10591 | 1760 | | | | | | |
| 57.05 | 31 | 7.16 | 13325 | 3 | - | 5 | 9433 | 1860 | | | | | | |
| 51.18 | 34 | 7.72 | 12900 | 3 | - | 5 | 8461 | 1940 | 7.5 | 12692 | 1090 | | | |
| 47.12 | 37 | 8.18 | 12580 | 3 | - | 5 | 7791 | 1980 | 7.5 | 11686 | 1200 | | | |
| 39.76 | 44 | 9.21 | 119555 | 3 | - | 5 | 6574 | 2050 | 7.5 | 9861 | 1390 | | | |
| 30.48 | 57 | 10.97 | 10915 | 3 | - | 5 | 5039 | 2020 | 7.5 | 7559 | 1470 | 10 | 10079 | 925 |
| 27.34 | 64 | 11.84 | 10565 | 3 | - | 5 | 4520 | 2030 | 7.5 | 6781 | 1540 | 10 | 9041 | 1050 |
| 25.17 | 70 | 12.55 | 10308 | 3 | - | 5 | 4162 | 2030 | 7.5 | 6243 | 1580 | 10 | 8324 | 1130 |
| 22.57 | 78 | 13.70 | 10090 | 3 | - | 5 | 3731 | 2090 | 7.5 | 5596 | 1720 | 10 | 7462 | 1350 |
| 21.24 | 82 | 14.13 | 9795 | 3 | - | 5 | 3512 | 2030 | 7.5 | 5268 | 1650 | 10 | 7024 | 1270 |
| 20.24 | 86 | 14.78 | 9765 | 3 | - | 5 | 3347 | 2080 | 7.5 | 5020 | 1740 | 10 | 6694 | 1410 |
| 18.64 | 94 | 15.66 | 9525 | 3 | - | 5 | 3081 | 2060 | 7.5 | 4622 | 1750 | 10 | 6163 | 1450 |
| 15.73 | 111 | 17.64 | 9050 | 3 | - | 5 | 2600 | 2030 | 7.5 | 3900 | 1760 | 10 | 5200 | 1510 |
| 12.06 | 145 | 21.01 | 8265 | 3 | - | 5 | 1993 | 1920 | 7.5 | 2990 | 1700 | 10 | 3986 | 1490 |
| 10.81 | 162 | 22.67 | 8000 | 3 | - | 5 | 1788 | 1890 | 7.5 | 2682 | 1700 | 10 | 3576 | 1500 |
| 9.96 | 176 | 24.02 | 7800 | 3 | - | 5 | 1646 | 1860 | 7.5 | 2469 | 1690 | 10 | 3292 | 1510 |
| 8.40 | 208 | 27.05 | 7415 | 3 | - | 5 | 1389 | 1810 | 7.5 | 2084 | 1660 | 10 | 2778 | 1510 |

Standard
 Contact with salespeople
 Not available

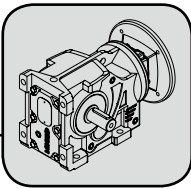


1750 Input Rpm

| K87 | | | | | | AM143 | | | AM145 | | | AM182 | | | AM184 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | | | | |
| 214.50 | 8 | 3.41 | 14175 | 3 | - | 1 | 7093 | 5270 | | | | | | | | | |
| 190.38 | 9 | 3.85 | 12580 | 3 | - | 1 | 6295 | 5270 | | | | | | | | | |
| 180.32 | 10 | 4.06 | 11915 | 3 | - | 1 | 5963 | 5270 | | | | | | | | | |
| 151.59 | 12 | 4.83 | 10020 | 3 | - | 1 | 5013 | 5270 | | | | | | | | | |
| 129.25 | 14 | 5.67 | 23900 | 3 | - | | | | 2 | 8548 | 5000 | | | | | | |
| 117.56 | 15 | 6.23 | 23900 | 3 | - | | | | | | | 3 | 11662 | 4370 | | | |
| 108.00 | 16 | 6.78 | 23900 | 3 | - | | | | | | | 3 | 10714 | 4350 | | | |
| 93.84 | 19 | 7.80 | 23900 | 3 | - | | | | | | | 3 | 9309 | 4310 | 5 | 15516 | 3410 |
| 82.86 | 21 | 8.72 | 23570 | 3 | - | | | | | | | 3 | 8220 | 4260 | 5 | 13700 | 3470 |
| 72.35 | 24 | 9.73 | 22970 | 3 | - | | | | | | | | | | 5 | 11961 | 3500 |
| 61.42 | 28 | 11.11 | 22270 | 3 | - | | | | | | | | | | 5 | 10154 | 3510 |
| 53.63 | 33 | 12.41 | 21715 | 3 | - | | | | | | | | | | 5 | 8866 | 3500 |
| 50.45 | 35 | 13.04 | 21470 | 3 | - | | | | | | | | | | 5 | 8342 | 3490 |
| 43.31 | 40 | 14.76 | 20870 | 3 | - | | | | | | | | | | 5 | 7161 | 3450 |
| 39.60 | 44 | 15.88 | 20525 | 3 | - | | | | | | | | | | | | |
| 32.41 | 54 | 19.03 | 20130 | 3 | - | | | | | | | | | | 5 | 5359 | 3260 |
| 28.30 | 62 | 20.93 | 19330 | 3 | - | | | | | | | | | | 5 | 4679 | 3200 |
| 26.63 | 66 | 21.84 | 18980 | 3 | - | | | | | | | | | | 5 | 4402 | 3170 |
| 22.86 | 77 | 24.30 | 18130 | 3 | - | | | | | | | | | | | | |
| 20.90 | 84 | 25.88 | 17650 | 3 | - | | | | | | | | | | | | |
| 15.66 | 112 | 31.67 | 16185 | 3 | - | | | | | | | | | | | | |
| 12.82 | 136 | 36.43 | 15245 | 3 | - | | | | | | | | | | 5 | 2120 | 2780 |
| 11.19 | 156 | 40.06 | 14635 | 3 | - | | | | | | | | | | 5 | 1851 | 2690 |
| 10.53 | 166 | 41.81 | 14370 | 3 | - | | | | | | | | | | 5 | 1741 | 2660 |
| 9.04 | 194 | 46.52 | 13725 | 3 | - | | | | | | | | | | 5 | 1495 | 2570 |
| 8.27 | 212 | 49.53 | 13365 | 3 | - | | | | | | | | | | | | |

| K87 | | | | | | AM213 | | | AM215 | | | AM254 | | | AM256 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | | | | |
| 93.84 | 19 | 7.80 | 23900 | 3 | - | 7.5 | 23274 | 2290 | | | | | | | | | |
| 82.86 | 21 | 8.72 | 23570 | 3 | - | 7.5 | 20549 | 2480 | | | | | | | | | |
| 72.35 | 24 | 9.73 | 22970 | 3 | - | 7.5 | 17942 | 2640 | | | | | | | | | |
| 61.42 | 28 | 11.11 | 22270 | 3 | - | 7.5 | 15232 | 2780 | 10 | 20309 | 2040 | | | | | | |
| 53.63 | 33 | 12.41 | 21715 | 3 | - | 7.5 | 13299 | 2860 | 10 | 17732 | 2220 | | | | | | |
| 50.45 | 35 | 13.04 | 21470 | 3 | - | 7.5 | 12512 | 2890 | 10 | 16683 | 2280 | | | | | | |
| 43.31 | 40 | 14.76 | 20870 | 3 | - | 7.5 | 10742 | 2930 | 10 | 14322 | 2410 | | | | | | |
| 39.60 | 44 | 15.88 | 20525 | 3 | - | 7.5 | 9821 | 2790 | 10 | 13095 | 2270 | 15 | 19642 | 1210 | | | |
| 32.41 | 54 | 19.03 | 20130 | 3 | - | 7.5 | 8039 | 2820 | 10 | 10719 | 2390 | 15 | 16078 | 1530 | | | |
| 28.30 | 62 | 20.93 | 19330 | 3 | - | 7.5 | 7019 | 2820 | 10 | 9359 | 2450 | 15 | 14038 | 1700 | 20 | 18717 | 940 |
| 26.63 | 66 | 21.84 | 18980 | 3 | - | 7.5 | 6604 | 2820 | 10 | 8805 | 2470 | 15 | 13207 | 1760 | 20 | 17610 | 1050 |
| 22.86 | 77 | 24.30 | 18130 | 3 | - | 7.5 | 5669 | 2800 | 10 | 7559 | 2490 | 15 | 11338 | 1880 | 20 | 15118 | 1280 |
| 20.90 | 84 | 25.88 | 17650 | 3 | - | 7.5 | 5183 | 2780 | 10 | 6911 | 2500 | 15 | 10367 | 1940 | 20 | 13822 | 1390 |
| 15.66 | 112 | 31.67 | 16185 | 3 | - | 7.5 | 3885 | 2690 | 10 | 5179 | 2480 | 15 | 7769 | 2060 | 20 | 10359 | 1640 |
| 12.82 | 136 | 36.43 | 15245 | 3 | - | 7.5 | 3180 | 2600 | 10 | 4240 | 2430 | 15 | 6359 | 2090 | 20 | 8479 | 1750 |
| 11.19 | 156 | 40.06 | 14635 | 3 | - | 7.5 | 2776 | 2550 | 10 | 3702 | 2400 | 15 | 5553 | 2100 | 20 | 7403 | 1800 |
| 10.53 | 166 | 41.81 | 14370 | 3 | - | 7.5 | 2612 | 2520 | 10 | 3483 | 2380 | 15 | 5224 | 2100 | 20 | 6965 | 1820 |
| 9.04 | 194 | 46.52 | 13725 | 3 | - | 7.5 | 2242 | 2450 | 10 | 2990 | 2330 | 15 | 4485 | 2090 | 20 | 5980 | 1850 |
| 8.27 | 212 | 49.53 | 13365 | 3 | - | 7.5 | 2050 | 2400 | 10 | 2734 | 2290 | 15 | 4100 | 2070 | 20 | 5467 | 1850 |

Standard
 Contact with salespeople
 Not available



Helical-Bevel Gear Units

Selection Table

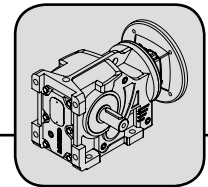
1750 Input Rpm

| K97 | | | | | | AM182 | | | AM184 | | | AM213 | | | AM215 | | |
|-------------------|------------------------------|----------------------------------|---------------------------------------|--------|------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|
| Ratio <i>i</i> | Output Speed n_a rpm | Input Power $P_{e\max}$ HP | Output Torque $T_{a\max}$ lb-in | Stages | | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb |
| | | | | Pri. | Sec. | | | | | | | | | | | | |
| 174.75 | 10 | 6.67 | 38060 | 3 | - | 3 | 17336 | 8550 | 5 | 28893 | 8550 | | | | | | |
| 154.10 | 11 | 7.57 | 38060 | 3 | - | | | | 5 | 25478 | 8550 | | | | | | |
| 140.71 | 12 | 8.29 | 38060 | 3 | - | | | | 5 | 23265 | 8550 | | | | | | |
| 119.87 | 15 | 9.73 | 38060 | 3 | - | | | | | | | 7.5 | 29729 | 8550 | | | |
| 112.43 | 16 | 10.37 | 38060 | 3 | - | | | | | | | 7.5 | 27883 | 8550 | 10 | 37177 | 8120 |
| 101.37 | 17 | 11.50 | 38060 | 3 | - | | | | | | | 7.5 | 25141 | 8550 | 10 | 33521 | 8170 |
| 89.79 | 19 | 12.99 | 38060 | 3 | - | | | | | | | 7.5 | 22269 | 8550 | 10 | 29693 | 8190 |
| 80.07 | 22 | 14.56 | 38060 | 3 | - | | | | | | | 7.5 | 19857 | 8550 | 10 | 26477 | 8180 |
| 71.78 | 24 | 16.24 | 38060 | 3 | - | | | | | | | 7.5 | 17803 | 8550 | 10 | 23737 | 8140 |
| 64.72 | 27 | 18.02 | 38060 | 3 | - | | | | | | | 7.5 | 16052 | 8550 | 10 | 21402 | 8090 |
| 52.96 | 33 | 22.02 | 38060 | 3 | - | | | | | | | | | | | | |
| 47.16 | 37 | 18.78 | 28910 | 3 | - | | | | | | | 7.5 | 11696 | 8100 | 10 | 15595 | 7570 |
| 42.28 | 41 | 21.00 | 28970 | 3 | - | | | | | | | 7.5 | 10486 | 7950 | 10 | 13982 | 7470 |
| 38.12 | 46 | 23.33 | 29030 | 3 | - | | | | | | | 7.5 | 9455 | 7800 | 10 | 12606 | 7370 |
| 31.19 | 56 | 28.65 | 29165 | 3 | - | | | | | | | | | | | | |
| 23.92 | 73 | 44.76 | 34940 | 3 | - | | | | | | | 7.5 | 5932 | 7190 | 10 | 7909 | 6950 |
| 21.33 | 82 | 48.50 | 33760 | 3 | - | | | | | | | 7.5 | 5290 | 7000 | 10 | 7053 | 6790 |
| 19.12 | 92 | 52.35 | 32670 | 3 | - | | | | | | | 7.5 | 4742 | 6820 | 10 | 6323 | 6630 |
| 17.24 | 102 | 56.29 | 31670 | 3 | - | | | | | | | | | | | | |
| 14.11 | 124 | 64.78 | 29820 | 3 | - | | | | | | | 7.5 | 3498 | 6320 | 10 | 4665 | 6180 |
| 12.56 | 139 | 61.00 | 25010 | 3 | - | | | | | | | 7.5 | 3116 | 6090 | 10 | 4154 | 5950 |
| 11.26 | 155 | 65.85 | 24205 | 3 | - | | | | | | | 7.5 | 2793 | 5920 | 10 | 3724 | 5790 |
| 10.16 | 172 | 70.80 | 23465 | 3 | - | | | | | | | 7.5 | 2519 | 5770 | 10 | 3358 | 5650 |
| 8.31 | 211 | 81.48 | 22095 | 3 | - | | | | | | | | | | | | |

| K97 | | | | | | AM254 | | | AM256 | | | AM284 | | | AM286 | | |
|-------------------|------------------------------|----------------------------------|---------------------------------------|--------|------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|
| Ratio <i>i</i> | Output Speed n_a rpm | Input Power $P_{e\max}$ HP | Output Torque $T_{a\max}$ lb-in | Stages | | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb |
| | | | | Pri. | Sec. | | | | | | | | | | | | |
| 71.78 | 24 | 16.24 | 38060 | 3 | - | 15 | 35606 | 6720 | | | | | | | | | |
| 64.72 | 27 | 18.02 | 38060 | 3 | - | 15 | 32103 | 6810 | | | | | | | | | |
| 52.96 | 33 | 22.02 | 38060 | 3 | - | 15 | 26266 | 6880 | 20 | 35022 | 5840 | | | | | | |
| 47.16 | 37 | 18.78 | 28910 | 3 | - | 15 | 23393 | 6510 | 20 | 31191 | 5460 | | | | | | |
| 42.28 | 41 | 21.00 | 28970 | 3 | - | 15 | 20973 | 6530 | 20 | 27963 | 5580 | | | | | | |
| 38.12 | 46 | 23.33 | 29030 | 3 | - | 15 | 18910 | 6520 | 20 | 25213 | 5670 | | | | | | |
| 31.19 | 56 | 28.65 | 29165 | 3 | - | 15 | 15472 | 6450 | 20 | 20629 | 5760 | 25 | 25786 | 5060 | | | |
| 23.92 | 73 | 44.76 | 34940 | 3 | - | 15 | 11864 | 6480 | 20 | 15819 | 6010 | 25 | 19774 | 5530 | 30 | 23728 | 5060 |
| 21.33 | 82 | 48.50 | 33760 | 3 | - | 15 | 10579 | 6360 | 20 | 14106 | 5940 | 25 | 17632 | 5520 | 30 | 21159 | 5100 |
| 19.12 | 92 | 52.35 | 32670 | 3 | - | 15 | 9485 | 6250 | 20 | 12646 | 5870 | 25 | 15808 | 5490 | 30 | 18969 | 5120 |
| 17.24 | 102 | 56.29 | 31670 | 3 | - | 15 | 8552 | 6140 | 20 | 11402 | 5790 | 25 | 14253 | 5450 | 30 | 17103 | 5110 |
| 14.11 | 124 | 64.78 | 29820 | 3 | - | 15 | 6997 | 5900 | 20 | 9329 | 5620 | 25 | 11661 | 5350 | 30 | 13994 | 5070 |
| 12.56 | 139 | 61.00 | 25010 | 3 | - | 15 | 6231 | 5670 | 20 | 8309 | 5380 | 25 | 10386 | 5100 | 30 | 12463 | 4820 |
| 11.26 | 155 | 65.85 | 24205 | 3 | - | 15 | 5587 | 5540 | 20 | 7449 | 5290 | 25 | 9311 | 5040 | 30 | 11173 | 4790 |
| 10.16 | 172 | 70.80 | 23465 | 3 | - | 15 | 5037 | 5420 | 20 | 6716 | 5200 | 25 | 8395 | 4970 | 30 | 10074 | 4740 |
| 8.31 | 211 | 81.48 | 22095 | 3 | - | 15 | 4121 | 5190 | 20 | 5495 | 5010 | 25 | 6869 | 4820 | 30 | 8243 | 4630 |

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| | |
|--|--------------------------|
| | Standard |
| | Contact with salespeople |
| | Not available |

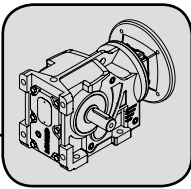


1750 Input Rpm

| K107 | | | | | | AM182 | | | AM184 | | | AM213 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 143.55 | 12 | 15.11 | 70810 | 3 | - | 3 | 14240 | 13300 | | | | | | |
| 121.95 | 14 | 17.79 | 70810 | 3 | - | 3 | 12098 | 13300 | 5.0 | 20163 | 13300 | | | |
| 107.04 | 16 | 20.27 | 70810 | 3 | - | 3 | 10618 | 13300 | 5.0 | 17697 | 13300 | 7.5 | 26546 | 13300 |
| 100.47 | 17 | 21.59 | 70810 | 3 | - | | | | | | | 7.5 | 24916 | 13300 |
| 95.48 | 18 | 22.72 | 70810 | 3 | - | | | | | | | 7.5 | 23678 | 13300 |
| 90.70 | 19 | 23.92 | 70810 | 3 | - | | | | | | | 7.5 | 22494 | 13130 |
| 82.38 | 21 | 26.33 | 70810 | 3 | - | | | | | | | | | |
| 75.12 | 23 | 28.88 | 70810 | 3 | - | | | | | | | | | |
| 66.33 | 26 | 32.71 | 70810 | 3 | - | | | | | | | | | |
| 57.78 | 30 | 37.55 | 70810 | 3 | - | | | | | | | | | |
| 45.81 | 38 | 45.58 | 68150 | 3 | - | | | | | | | | | |
| 41.96 | 42 | 49.12 | 67265 | 3 | - | | | | | | | | | |
| 37.96 | 46 | 52.87 | 65495 | 3 | - | | | | | | | | | |
| 32.59 | 54 | 59.92 | 63725 | 3 | - | | | | | | | | | |
| 29.71 | 59 | 64.81 | 62840 | 3 | - | | | | | | | | | |
| 22.86 | 77 | 80.69 | 60185 | 3 | - | | | | | | | | | |
| 19.84 | 88 | 90.22 | 58415 | 3 | - | | | | | | | | | |
| 16.13 | 108 | 108.41 | 57085 | 3 | - | | | | | | | | | |
| 14.59 | 120 | 118.94 | 56640 | 3 | - | | | | | | | | | |
| 10.77 | 163 | 148.60 | 52220 | 3 | - | | | | | | | | | |
| 8.67 | 202 | 168.88 | 47790 | 3 | - | | | | | | | | | |

| K107 | | | | | | AM215 | | | AM254 | | | AM256 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 107.04 | 16 | 20.27 | 70810 | 3 | - | 10 | 35395 | 13040 | | | | | | |
| 100.47 | 17 | 21.59 | 70810 | 3 | - | 10 | 33221 | 12890 | | | | | | |
| 95.48 | 18 | 22.72 | 70810 | 3 | - | 10 | 31571 | 12770 | | | | | | |
| 90.70 | 19 | 23.92 | 70810 | 3 | - | 10 | 29992 | 12650 | 15 | 44989 | 11690 | 20 | 59985 | 10730 |
| 82.38 | 21 | 26.33 | 70810 | 3 | - | | | | 15 | 40863 | 11540 | 20 | 54484 | 10670 |
| 75.12 | 23 | 28.88 | 70810 | 3 | - | | | | 15 | 37258 | 11380 | 20 | 49677 | 10590 |
| 66.33 | 26 | 32.71 | 70810 | 3 | - | | | | 15 | 32900 | 11160 | 20 | 43866 | 10450 |
| 57.78 | 30 | 37.55 | 70810 | 3 | - | | | | 15 | 28661 | 10890 | 20 | 38214 | 10280 |
| 45.81 | 38 | 45.58 | 68150 | 3 | - | | | | 15 | 22722 | 10410 | 20 | 30295 | 9930 |
| 41.96 | 42 | 49.12 | 67265 | 3 | - | | | | | | | | | |
| 37.96 | 46 | 52.87 | 65495 | 3 | - | | | | | | | | | |
| 32.59 | 54 | 59.92 | 63725 | 3 | - | | | | | | | | | |
| 29.71 | 59 | 64.81 | 62840 | 3 | - | | | | | | | | | |
| 22.86 | 77 | 80.69 | 60185 | 3 | - | | | | | | | | | |
| 19.84 | 88 | 90.22 | 58415 | 3 | - | | | | | | | | | |
| 16.13 | 108 | 108.41 | 57085 | 3 | - | | | | | | | | | |
| 14.59 | 120 | 118.94 | 56640 | 3 | - | | | | | | | | | |
| 10.77 | 163 | 148.60 | 52220 | 3 | - | | | | | | | | | |
| 8.67 | 202 | 168.88 | 47790 | 3 | - | | | | | | | | | |

Standard
 Contact with salespeople
 Not available



Helical-Bevel Gear Units

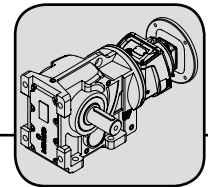
Selection Table

1750 Input Rpm

| K107 | | | | | | AM284 | | | AM286 | | | AM324 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 82.38 | 21 | 26.33 | 70810 | 3 | - | 25 | 68104 | 9790 | | | | | | |
| 75.12 | 23 | 28.88 | 70810 | 3 | - | 25 | 62096 | 9790 | | | | | | |
| 66.33 | 26 | 32.71 | 70810 | 3 | - | 25 | 54833 | 9750 | 30 | 65800 | 9050 | | | |
| 57.78 | 30 | 37.55 | 70810 | 3 | - | 25 | 47768 | 9670 | 30 | 57321 | 9060 | | | |
| 45.81 | 38 | 45.58 | 68150 | 3 | - | 25 | 37869 | 9440 | 30 | 45443 | 8960 | 40 | 60591 | 7990 |
| 41.96 | 42 | 49.12 | 67265 | 3 | - | 25 | 34685 | 9340 | 30 | 41622 | 8890 | 40 | 55496 | 8010 |
| 37.96 | 46 | 52.87 | 65495 | 3 | - | 25 | 31377 | 9210 | 30 | 37653 | 8810 | 40 | 50204 | 8000 |
| 32.59 | 54 | 59.92 | 63725 | 3 | - | 25 | 26938 | 8990 | 30 | 32325 | 8650 | 40 | 43100 | 7960 |
| 29.71 | 59 | 64.81 | 62840 | 3 | - | 25 | 24561 | 8850 | 30 | 29473 | 8540 | 40 | 39298 | 7910 |
| 22.86 | 77 | 80.69 | 60185 | 3 | - | 25 | 18894 | 8420 | 30 | 22673 | 8180 | 40 | 30230 | 7700 |
| 19.84 | 88 | 90.22 | 58415 | 3 | - | 25 | 16400 | 8180 | 30 | 19681 | 7970 | 40 | 26241 | 7550 |
| 16.13 | 108 | 108.41 | 57085 | 3 | - | 25 | 13338 | 7820 | 30 | 16006 | 7650 | 40 | 21341 | 7310 |
| 14.59 | 120 | 118.94 | 56640 | 3 | - | 25 | 12063 | 7650 | 30 | 14476 | 7490 | 40 | 19301 | 7180 |
| 10.77 | 163 | 148.60 | 52220 | 3 | - | 25 | 8901 | 7050 | 30 | 10681 | 6930 | 40 | 14242 | 6670 |
| 8.67 | 202 | 168.88 | 47790 | 3 | - | 25 | 7169 | 6690 | 30 | 8602 | 6590 | 40 | 11470 | 6390 |

| K107 | | | | | | AM326 | | |
|-------------------|---|--|---|--------|------|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | |
| 22.86 | 77 | 80.69 | 60185 | 3 | - | 50 | 37788 | 7220 |
| 19.84 | 88 | 90.22 | 58415 | 3 | - | 50 | 32801 | 7130 |
| 16.13 | 108 | 108.41 | 57085 | 3 | - | 50 | 26676 | 6970 |
| 14.59 | 120 | 118.94 | 56640 | 3 | - | 50 | 24126 | 6870 |
| 10.77 | 163 | 148.60 | 52220 | 3 | - | 50 | 17802 | 6420 |
| 8.67 | 202 | 168.88 | 47790 | 3 | - | 50 | 14337 | 6190 |

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| | Standard |
| | Contact with salespeople |
| | Not available |

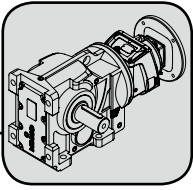


1750 Input Rpm

3.2 Selection Table (Double Reduction)

| Ratio <i>i</i> | K47+R37 | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|------------------------------|----------------------------------|---------------------------------------|--------|------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------|
| | Output Speed n_a rpm | Input Power $P_{e,max}$ HP | Output Torque $T_{a,max}$ lb-in | Stages | | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb | Input Power P_e HP | Output Torque T_a lb-in | Output OHL F_{Ra} lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 10364 | 0.17 | 0.01 | 3540 | 3 | 3 | 0.01 | 3540 | 1250 | | | | | | |
| 8561 | 0.20 | 0.01 | 3540 | 3 | 3 | 0.01 | 3540 | 1250 | | | | | | |
| 7672 | 0.23 | 0.01 | 3540 | 3 | 3 | 0.01 | 3540 | 1250 | | | | | | |
| 6987 | 0.25 | 0.02 | 3540 | 3 | 3 | 0.02 | 3540 | 1250 | | | | | | |
| 5929 | 0.30 | 0.02 | 3540 | 3 | 3 | 0.02 | 3540 | 1250 | | | | | | |
| 5011 | 0.35 | 0.02 | 3540 | 3 | 3 | 0.02 | 3540 | 1250 | | | | | | |
| 4644 | 0.38 | 0.02 | 3540 | 3 | 3 | 0.02 | 3540 | 1250 | | | | | | |
| 4085 | 0.43 | 0.03 | 3540 | 3 | 3 | 0.03 | 3540 | 1250 | | | | | | |
| 3589 | 0.49 | 0.03 | 3540 | 3 | 3 | 0.03 | 3540 | 1250 | | | | | | |
| 3081 | 0.57 | 0.03 | 3540 | 3 | 3 | 0.03 | 3540 | 1250 | | | | | | |
| 2784 | 0.63 | 0.04 | 3540 | 3 | 3 | 0.04 | 3540 | 1250 | | | | | | |
| 2366 | 0.74 | 0.04 | 3540 | 3 | 3 | 0.04 | 3540 | 1250 | | | | | | |
| 2072 | 0.84 | 0.05 | 3540 | 3 | 3 | 0.05 | 3540 | 1250 | | | | | | |
| 1821 | 0.96 | 0.06 | 3540 | 3 | 3 | 0.06 | 3540 | 1250 | | | | | | |
| 1645 | 1.06 | 0.06 | 3540 | 3 | 3 | 0.06 | 3540 | 1250 | 0.06 | 3540 | 1250 | | | |
| 1445 | 1.21 | 0.07 | 3540 | 3 | 3 | 0.07 | 3540 | 1250 | 0.07 | 3540 | 1250 | | | |
| 1306 | 1.34 | 0.08 | 3540 | 3 | 2 | 0.08 | 3540 | 1250 | 0.08 | 3540 | 1250 | | | |
| 1177 | 1.49 | 0.09 | 3540 | 3 | 2 | 0.09 | 3540 | 1250 | 0.09 | 3540 | 1250 | | | |
| 1063 | 1.65 | 0.10 | 3540 | 3 | 2 | 0.10 | 3540 | 1250 | 0.10 | 3540 | 1250 | | | |
| 953 | 1.84 | 0.11 | 3540 | 3 | 2 | 0.11 | 3540 | 1250 | 0.11 | 3540 | 1250 | | | |
| 842 | 2.08 | 0.13 | 3540 | 3 | 2 | 0.13 | 3540 | 1250 | 0.13 | 3540 | 1250 | | | |
| 707 | 2.47 | 0.15 | 3540 | 3 | 2 | 0.15 | 3540 | 1250 | 0.15 | 3540 | 1250 | | | |
| 651 | 2.69 | 0.16 | 3540 | 3 | 2 | 0.16 | 3540 | 1250 | 0.16 | 3540 | 1250 | 0.16 | 3540 | 1250 |
| 552 | 3.17 | 0.19 | 3540 | 3 | 2 | 0.19 | 3540 | 1250 | 0.19 | 3540 | 1250 | 0.19 | 3540 | 1250 |
| 508 | 3.44 | 0.21 | 3540 | 3 | 2 | | | | | | | 0.21 | 3540 | 1250 |
| 456 | 3.83 | 0.23 | 3540 | 3 | 2 | | | | | | | 0.23 | 3540 | 1250 |
| 390 | 4.49 | 0.27 | 3540 | 3 | 2 | | | | | | | 0.27 | 3540 | 1250 |
| 351 | 4.98 | 0.30 | 3540 | 3 | 2 | | | | | | | 0.30 | 3540 | 1250 |
| 289 | 6.05 | 0.37 | 3540 | 3 | 2 | | | | | | | 0.37 | 3540 | 1250 |
| 245 | 7.13 | 0.43 | 3540 | 3 | 2 | | | | | | | 0.43 | 3540 | 1250 |
| 223 | 7.83 | 0.48 | 3540 | 3 | 2 | | | | | | | 0.48 | 3540 | 1250 |
| 202 | 8.67 | 0.53 | 3540 | 3 | 2 | | | | | | | 0.53 | 3540 | 1250 |
| 175 | 9.98 | 0.61 | 3540 | 3 | 2 | | | | | | | 0.61 | 3540 | 1250 |
| 151 | 11.56 | 0.70 | 3540 | 3 | 2 | | | | | | | 0.70 | 3540 | 1250 |
| 128 | 13.64 | 0.83 | 3540 | 3 | 2 | | | | | | | 0.83 | 3540 | 1250 |
| 106 | 16.57 | 1.00 | 3540 | 3 | 2 | | | | | | | 1.00 | 3540 | 1250 |
| 98 | 17.86 | 1.07 | 3540 | 3 | 2 | | | | | | | 1.07 | 3540 | 1250 |

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| | Standard |
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| | Not available |



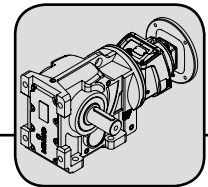
Helical-Bevel Gear Units

Selection Table

1750 Input Rpm

| K57+R37 | | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|---|---|---|--------|------|--|--|---|--|--|---|--|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Output Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Output Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Output Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Output Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 11665 | 0.15 | 0.01 | 5310 | 3 | 3 | 0.01 | 5310 | 1680 | | | | | | |
| 10056 | 0.17 | 0.02 | 5310 | 3 | 3 | 0.02 | 5310 | 1680 | | | | | | |
| 9563 | 0.18 | 0.02 | 5310 | 3 | 3 | 0.02 | 5310 | 1680 | | | | | | |
| 8473 | 0.21 | 0.02 | 5310 | 3 | 3 | 0.02 | 5310 | 1680 | | | | | | |
| 7634 | 0.23 | 0.02 | 5310 | 3 | 3 | 0.02 | 5310 | 1680 | | | | | | |
| 6725 | 0.26 | 0.02 | 5310 | 3 | 3 | 0.02 | 5310 | 1680 | | | | | | |
| 5513 | 0.32 | 0.03 | 5310 | 3 | 3 | 0.03 | 5310 | 1680 | | | | | | |
| 4993 | 0.35 | 0.03 | 5310 | 3 | 3 | 0.03 | 5310 | 1680 | | | | | | |
| 4547 | 0.38 | 0.04 | 5310 | 3 | 3 | 0.04 | 5310 | 1680 | | | | | | |
| 3925 | 0.45 | 0.04 | 5310 | 3 | 3 | 0.04 | 5310 | 1680 | | | | | | |
| 3421 | 0.51 | 0.05 | 5310 | 3 | 3 | 0.05 | 5310 | 1680 | | | | | | |
| 3038 | 0.58 | 0.05 | 5310 | 3 | 3 | 0.05 | 5310 | 1680 | | | | | | |
| 2937 | 0.60 | 0.05 | 5310 | 3 | 3 | 0.05 | 5310 | 1680 | | | | | | |
| 2558 | 0.68 | 0.06 | 5310 | 3 | 3 | 0.06 | 5310 | 1680 | | | | | | |
| 2253 | 0.78 | 0.07 | 5310 | 3 | 3 | 0.07 | 5310 | 1680 | | | | | | |
| 2084 | 0.84 | 0.08 | 5310 | 3 | 3 | 0.08 | 5310 | 1680 | | | | | | |
| 1836 | 0.95 | 0.09 | 5310 | 3 | 3 | 0.09 | 5310 | 1680 | | | | | | |
| 1693 | 1.03 | 0.09 | 5310 | 3 | 2 | 0.09 | 5310 | 1680 | 0.09 | 5310 | 1680 | | | |
| 1527 | 1.15 | 0.10 | 5310 | 3 | 2 | 0.10 | 5310 | 1680 | 0.10 | 5310 | 1680 | | | |
| 1378 | 1.27 | 0.12 | 5310 | 3 | 2 | 0.12 | 5310 | 1680 | 0.12 | 5310 | 1680 | | | |
| 1242 | 1.41 | 0.13 | 5310 | 3 | 2 | 0.13 | 5310 | 1680 | 0.13 | 5310 | 1680 | | | |
| 1022 | 1.71 | 0.16 | 5310 | 3 | 2 | 0.16 | 5310 | 1680 | 0.16 | 5310 | 1680 | | | |
| 921 | 1.90 | 0.17 | 5310 | 3 | 2 | 0.17 | 5310 | 1680 | 0.17 | 5310 | 1680 | | | |
| 795 | 2.20 | 0.20 | 5310 | 3 | 2 | 0.20 | 5310 | 1680 | 0.20 | 5310 | 1680 | | | |
| 700 | 2.50 | 0.23 | 5310 | 3 | 2 | 0.23 | 5310 | 1680 | 0.23 | 5310 | 1680 | 0.23 | 5310 | 1680 |
| 621 | 2.82 | 0.25 | 5310 | 3 | 2 | 0.25 | 5310 | 1680 | 0.25 | 5310 | 1680 | 0.25 | 5310 | 1680 |
| 556 | 3.15 | 0.29 | 5310 | 3 | 2 | | | | | | | 0.29 | 5310 | 1680 |
| 489 | 3.58 | 0.33 | 5310 | 3 | 2 | | | | | | | 0.33 | 5310 | 1680 |
| 421 | 4.16 | 0.38 | 5310 | 3 | 2 | | | | | | | 0.38 | 5310 | 1680 |
| 363 | 4.81 | 0.44 | 5310 | 3 | 2 | | | | | | | 0.44 | 5310 | 1680 |
| 319 | 5.49 | 0.50 | 5310 | 3 | 2 | | | | | | | 0.50 | 5310 | 1680 |
| 281 | 6.23 | 0.57 | 5310 | 3 | 2 | | | | | | | 0.57 | 5310 | 1680 |
| 240 | 7.29 | 0.66 | 5310 | 3 | 2 | | | | | | | 0.66 | 5310 | 1680 |
| 217 | 8.06 | 0.73 | 5310 | 3 | 2 | | | | | | | 0.73 | 5310 | 1680 |
| 197 | 8.89 | 0.81 | 5310 | 3 | 2 | | | | | | | 0.81 | 5310 | 1680 |
| 167 | 10.49 | 0.95 | 5310 | 3 | 2 | | | | | | | 0.95 | 5310 | 1680 |
| 144 | 12.17 | 1.11 | 5310 | 3 | 2 | | | | | | | 1.11 | 5310 | 1680 |
| 128 | 13.70 | 1.25 | 5310 | 3 | 2 | | | | | | | 1.25 | 5310 | 1680 |
| 111 | 15.73 | 1.43 | 5310 | 3 | 2 | | | | | | | 1.43 | 5310 | 1680 |
| 93 | 18.72 | 1.70 | 5310 | 3 | 2 | | | | | | | 1.70 | 5310 | 1680 |

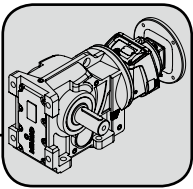
Standard
 Contact with salespeople
 Not available



1750 Input Rpm

| Ratio <i>i</i> | K67+R37 | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 11636 | 0.15 | 0.02 | 7260 | 3 | 3 | 0.02 | 7260 | 2140 | | | | | | |
| 10031 | 0.17 | 0.02 | 7260 | 3 | 3 | 0.02 | 7260 | 2140 | | | | | | |
| 9539 | 0.18 | 0.02 | 7260 | 3 | 3 | 0.02 | 7260 | 2140 | | | | | | |
| 8224 | 0.21 | 0.03 | 7260 | 3 | 3 | 0.03 | 7260 | 2140 | | | | | | |
| 7318 | 0.24 | 0.03 | 7260 | 3 | 3 | 0.03 | 7260 | 2140 | | | | | | |
| 6447 | 0.27 | 0.03 | 7260 | 3 | 3 | 0.03 | 7260 | 2140 | | | | | | |
| 5500 | 0.32 | 0.04 | 7260 | 3 | 3 | 0.04 | 7260 | 2140 | | | | | | |
| 4813 | 0.36 | 0.05 | 7260 | 3 | 3 | 0.05 | 7260 | 2140 | | | | | | |
| 4299 | 0.41 | 0.05 | 7260 | 3 | 3 | 0.05 | 7260 | 2140 | | | | | | |
| 3725 | 0.47 | 0.06 | 7260 | 3 | 3 | 0.06 | 7260 | 2140 | | | | | | |
| 3235 | 0.54 | 0.07 | 7260 | 3 | 3 | 0.07 | 7260 | 2140 | | | | | | |
| 2930 | 0.60 | 0.07 | 7260 | 3 | 3 | 0.07 | 7260 | 2140 | | | | | | |
| 2503 | 0.70 | 0.09 | 7260 | 3 | 3 | 0.09 | 7260 | 2140 | | | | | | |
| 2248 | 0.78 | 0.10 | 7260 | 3 | 3 | 0.10 | 7260 | 2140 | 0.10 | 7260 | 2140 | | | |
| 1959 | 0.89 | 0.11 | 7260 | 3 | 3 | 0.11 | 7260 | 2140 | 0.11 | 7260 | 2140 | | | |
| 1858 | 0.94 | 0.11 | 7260 | 3 | 2 | 0.11 | 7260 | 2140 | 0.11 | 7260 | 2140 | | | |
| 1708 | 1.02 | 0.13 | 7260 | 3 | 2 | 0.13 | 7260 | 2140 | 0.13 | 7260 | 2140 | | | |
| 1523 | 1.15 | 0.14 | 7260 | 3 | 2 | 0.14 | 7260 | 2140 | 0.14 | 7260 | 2140 | | | |
| 1374 | 1.27 | 0.16 | 7260 | 3 | 2 | 0.16 | 7260 | 2140 | 0.16 | 7260 | 2140 | | | |
| 1135 | 1.54 | 0.19 | 7260 | 3 | 2 | 0.19 | 7260 | 2140 | 0.19 | 7260 | 2140 | | | |
| 1023 | 1.71 | 0.21 | 7260 | 3 | 2 | 0.21 | 7260 | 2140 | 0.21 | 7260 | 2140 | | | |
| 901 | 1.94 | 0.24 | 7260 | 3 | 2 | | | | | | | 0.24 | 7260 | 2140 |
| 809 | 2.16 | 0.27 | 7260 | 3 | 2 | | | | | | | 0.27 | 7260 | 2140 |
| 691 | 2.53 | 0.31 | 7260 | 3 | 2 | | | | | | | 0.31 | 7260 | 2140 |
| 605 | 2.89 | 0.36 | 7260 | 3 | 2 | | | | | | | 0.36 | 7260 | 2140 |
| 544 | 3.22 | 0.40 | 7260 | 3 | 2 | | | | | | | 0.40 | 7260 | 2140 |
| 496 | 3.53 | 0.44 | 7260 | 3 | 2 | | | | | | | 0.44 | 7260 | 2140 |
| 444 | 3.94 | 0.49 | 7260 | 3 | 2 | | | | | | | 0.49 | 7260 | 2140 |
| 394 | 4.45 | 0.55 | 7260 | 3 | 2 | | | | | | | 0.55 | 7260 | 2140 |
| 359 | 4.88 | 0.61 | 7260 | 3 | 2 | | | | | | | 0.61 | 7260 | 2140 |
| 323 | 5.42 | 0.67 | 7260 | 3 | 2 | | | | | | | 0.67 | 7260 | 2140 |
| 273 | 6.40 | 0.80 | 7260 | 3 | 2 | | | | | | | 0.80 | 7260 | 2140 |
| 245 | 7.15 | 0.89 | 7260 | 3 | 2 | | | | | | | 0.89 | 7260 | 2140 |
| 222 | 7.87 | 0.98 | 7260 | 3 | 2 | | | | | | | 0.98 | 7260 | 2140 |
| 191 | 9.14 | 1.14 | 7260 | 3 | 2 | | | | | | | 1.14 | 7260 | 2140 |
| 165 | 10.64 | 1.32 | 7260 | 3 | 2 | | | | | | | 1.32 | 7260 | 2140 |
| 142 | 12.33 | 1.53 | 7260 | 3 | 2 | | | | | | | 1.53 | 7260 | 2140 |
| 124 | 14.16 | 1.76 | 7260 | 3 | 2 | | | | | | | 1.76 | 7260 | 2140 |

Standard
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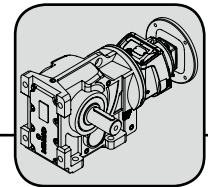
Helical-Bevel Gear Units

Selection Table

1750 Input Rpm

| K77+R37 | | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 15123 | 0.12 | 0.03 | 13720 | 3 | 3 | 0.03 | 13720 | 3090 | | | | | | |
| 13928 | 0.13 | 0.03 | 13720 | 3 | 3 | 0.03 | 13720 | 3090 | | | | | | |
| 12007 | 0.15 | 0.03 | 13720 | 3 | 3 | 0.03 | 13720 | 3090 | | | | | | |
| 10117 | 0.17 | 0.04 | 13720 | 3 | 3 | 0.04 | 13720 | 3090 | | | | | | |
| 9054 | 0.19 | 0.05 | 13720 | 3 | 3 | 0.05 | 13720 | 3090 | | | | | | |
| 8245 | 0.21 | 0.05 | 13720 | 3 | 3 | 0.05 | 13720 | 3090 | | | | | | |
| 6438 | 0.27 | 0.06 | 13720 | 3 | 3 | 0.06 | 13720 | 3090 | | | | | | |
| 5863 | 0.30 | 0.07 | 13720 | 3 | 3 | 0.07 | 13720 | 3090 | | | | | | |
| 5110 | 0.34 | 0.08 | 13720 | 3 | 3 | 0.08 | 13720 | 3090 | | | | | | |
| 4472 | 0.39 | 0.09 | 13720 | 3 | 3 | 0.09 | 13720 | 3090 | | | | | | |
| 3983 | 0.44 | 0.10 | 13720 | 3 | 3 | 0.10 | 13720 | 3090 | | | | | | |
| 3573 | 0.49 | 0.12 | 13720 | 3 | 3 | 0.12 | 13720 | 3090 | | | | | | |
| 3082 | 0.57 | 0.13 | 13720 | 3 | 3 | 0.13 | 13720 | 3090 | | | | | | |
| 2765 | 0.63 | 0.15 | 13720 | 3 | 3 | 0.15 | 13720 | 3090 | | | | | | |
| 2461 | 0.71 | 0.17 | 13720 | 3 | 3 | 0.17 | 13720 | 3090 | | | | | | |
| 2207 | 0.79 | 0.19 | 13720 | 3 | 2 | 0.19 | 13720 | 3090 | 0.19 | 13720 | 3090 | | | |
| 2008 | 0.87 | 0.20 | 13720 | 3 | 2 | 0.20 | 13720 | 3090 | 0.20 | 13720 | 3090 | | | |
| 1724 | 1.01 | 0.24 | 13720 | 3 | 2 | 0.24 | 13720 | 3090 | 0.24 | 13720 | 3090 | | | |
| 1557 | 1.12 | 0.26 | 13720 | 3 | 2 | 0.26 | 13720 | 3090 | 0.26 | 13720 | 3090 | | | |
| 1398 | 1.25 | 0.29 | 13720 | 3 | 2 | 0.29 | 13720 | 3090 | 0.29 | 13720 | 3090 | | | |
| 1254 | 1.40 | 0.33 | 13720 | 3 | 2 | 0.33 | 13720 | 3090 | 0.33 | 13720 | 3090 | | | |
| 1041 | 1.68 | 0.40 | 13720 | 3 | 2 | 0.40 | 13720 | 3090 | 0.40 | 13720 | 3090 | | | |
| 916 | 1.91 | 0.45 | 13720 | 3 | 2 | 0.45 | 13720 | 3090 | 0.45 | 13720 | 3090 | | | |
| 806 | 2.17 | 0.51 | 13720 | 3 | 2 | 0.51 | 13720 | 3090 | 0.51 | 13720 | 3090 | 0.51 | 13720 | 3090 |
| 746 | 2.35 | 0.53 | 13720 | 3 | 2 | 0.53 | 13720 | 3090 | 0.53 | 13720 | 3090 | 0.53 | 13720 | 3090 |
| 616 | 2.84 | 0.67 | 13720 | 3 | 2 | | | | | | | 0.67 | 13720 | 3090 |
| 553 | 3.17 | 0.74 | 13720 | 3 | 2 | | | | | | | 0.74 | 13720 | 3090 |
| 485 | 3.61 | 0.85 | 13720 | 3 | 2 | | | | | | | 0.85 | 13720 | 3090 |
| 435 | 4.02 | 0.95 | 13720 | 3 | 2 | | | | | | | 0.95 | 13720 | 3090 |
| 369 | 4.75 | 1.12 | 13720 | 3 | 2 | | | | | | | 1.12 | 13720 | 3090 |
| 328 | 5.33 | 1.25 | 13720 | 3 | 2 | | | | | | | 1.25 | 13720 | 3090 |
| 294 | 5.94 | 1.40 | 13720 | 3 | 2 | | | | | | | 1.40 | 13720 | 3090 |
| 252 | 6.94 | 1.63 | 13720 | 3 | 2 | | | | | | | 1.63 | 13720 | 3090 |
| 226 | 7.74 | 1.82 | 13720 | 3 | 2 | | | | | | | 1.82 | 13720 | 3090 |
| 194 | 9.02 | 2.12 | 13720 | 3 | 2 | | | | | | | 2.0 | 12070 | 3090 |
| 175 | 9.98 | 2.35 | 13720 | 3 | 2 | | | | | | | 2.0 | 10914 | 3090 |
| 152 | 11.51 | 2.71 | 13720 | 3 | 2 | | | | | | | 2.0 | 9460 | 3090 |

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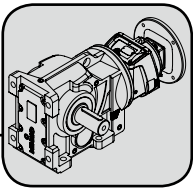


1750 Input Rpm

| K87+R47 | | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_omax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 14839 | 0.12 | 0.05 | 23900 | 3 | 3 | 0.05 | 23900 | 5270 | | | | | | |
| 12971 | 0.13 | 0.06 | 23900 | 3 | 3 | 0.05 | 23900 | 5270 | | | | | | |
| 11916 | 0.15 | 0.06 | 23900 | 3 | 3 | 0.06 | 23900 | 5270 | | | | | | |
| 10354 | 0.17 | 0.07 | 23900 | 3 | 3 | 0.07 | 23900 | 5270 | | | | | | |
| 9142 | 0.19 | 0.08 | 23900 | 3 | 3 | 0.08 | 23900 | 5270 | | | | | | |
| 7982 | 0.22 | 0.09 | 23900 | 3 | 3 | 0.09 | 23900 | 5270 | | | | | | |
| 6917 | 0.25 | 0.10 | 23900 | 3 | 3 | 0.10 | 23900 | 5270 | 0.10 | 23900 | 5270 | | | |
| 5947 | 0.29 | 0.12 | 23900 | 3 | 3 | 0.12 | 23900 | 5270 | 0.12 | 23900 | 5270 | | | |
| 5251 | 0.33 | 0.14 | 23900 | 3 | 3 | 0.13 | 23900 | 5270 | 0.13 | 23900 | 5270 | | | |
| 4585 | 0.38 | 0.15 | 23900 | 3 | 3 | 0.14 | 23900 | 5270 | 0.14 | 23900 | 5270 | | | |
| 4257 | 0.41 | 0.16 | 23900 | 3 | 3 | 0.16 | 23900 | 5270 | 0.16 | 23900 | 5270 | | | |
| 3614 | 0.48 | 0.20 | 23900 | 3 | 3 | 0.19 | 23900 | 5270 | 0.19 | 23900 | 5270 | | | |
| 3155 | 0.55 | 0.23 | 23900 | 3 | 3 | 0.22 | 23900 | 5270 | 0.22 | 23900 | 5270 | | | |
| 2772 | 0.63 | 0.26 | 23900 | 3 | 3 | 0.25 | 23900 | 5270 | 0.25 | 23900 | 5270 | | | |
| 2420 | 0.72 | 0.30 | 23900 | 3 | 3 | 0.28 | 23900 | 5270 | 0.28 | 23900 | 5270 | | | |
| 2226 | 0.79 | 0.32 | 23900 | 3 | 3 | 0.31 | 23900 | 5270 | 0.31 | 23900 | 5270 | | | |
| 2047 | 0.86 | 0.35 | 23900 | 3 | 2 | 0.34 | 23900 | 5270 | 0.34 | 23900 | 5270 | | | |
| 1787 | 0.98 | 0.40 | 23900 | 3 | 2 | 0.39 | 23900 | 5270 | 0.39 | 23900 | 5270 | | | |
| 1665 | 1.05 | 0.42 | 23900 | 3 | 2 | 0.40 | 23900 | 5270 | 0.40 | 23900 | 5270 | | | |
| 1414 | 1.24 | 0.49 | 23900 | 3 | 2 | 0.47 | 23900 | 5270 | 0.47 | 23900 | 5270 | | | |
| 1234 | 1.42 | 0.58 | 23900 | 3 | 2 | 0.56 | 23900 | 5270 | 0.56 | 23900 | 5270 | | | |
| 1070 | 1.64 | 0.67 | 23900 | 3 | 2 | 0.64 | 23900 | 5270 | 0.64 | 23900 | 5270 | | | |
| 978 | 1.79 | 0.73 | 23900 | 3 | 2 | 0.70 | 23900 | 5270 | 0.70 | 23900 | 5270 | | | |
| 811 | 2.16 | 0.85 | 23900 | 3 | 2 | 0.75 | 18924 | 5270 | 0.82 | 23900 | 5270 | | | |
| 728 | 2.41 | 0.99 | 23900 | 3 | 2 | 0.75 | 16976 | 5270 | 0.95 | 23900 | 5270 | 0.95 | 23900 | 5270 |
| 657 | 2.66 | 1.09 | 23900 | 3 | 2 | | | | | | | 1.05 | 23900 | 5270 |
| 562 | 3.11 | 1.27 | 23900 | 3 | 2 | | | | | | | 1.22 | 23900 | 5270 |
| 488 | 3.59 | 1.47 | 23900 | 3 | 2 | | | | | | | 1.41 | 23900 | 5270 |
| 432 | 4.05 | 1.66 | 23900 | 3 | 2 | | | | | | | 1.59 | 23900 | 5270 |
| 375 | 4.67 | 1.91 | 23900 | 3 | 2 | | | | | | | 1.84 | 23900 | 5270 |
| 331 | 5.29 | 2.17 | 23900 | 3 | 2 | | | | | | | 2.0 | 20590 | 5270 |
| 294 | 5.95 | 2.44 | 23900 | 3 | 2 | | | | | | | 2.0 | 18294 | 5270 |
| 245 | 7.14 | 2.92 | 23900 | 3 | 2 | | | | | | | 2.0 | 15262 | 5270 |
| 228 | 7.67 | 3.14 | 23900 | 3 | 2 | | | | | | | 2.0 | 14189 | 5270 |
| 201 | 8.69 | 3.56 | 23900 | 3 | 2 | | | | | | | 2.0 | 12537 | 5270 |
| 181 | 9.68 | 3.97 | 23900 | 3 | 2 | | | | | | | 2.0 | 11247 | 5270 |
| 158 | 11.07 | 4.53 | 23900 | 3 | 2 | | | | | | | 2.0 | 9840 | 5270 |
| 142 | 12.34 | 5.05 | 23900 | 3 | 2 | | | | | | | 2.0 | 8828 | 5270 |

| K87+R47 | | | | | | AM182 | | | AM184 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_omax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | |
| 562 | 3.11 | 1.27 | 23900 | 3 | 2 | 1.22 | 23900 | 5270 | | | |
| 488 | 3.59 | 1.47 | 23900 | 3 | 2 | 1.41 | 23900 | 5270 | | | |
| 432 | 4.05 | 1.66 | 23900 | 3 | 2 | 1.59 | 23900 | 5270 | 1.59 | 23900 | 5270 |
| 375 | 4.67 | 1.91 | 23900 | 3 | 2 | 1.84 | 23900 | 5270 | 1.84 | 23900 | 5270 |
| 331 | 5.29 | 2.17 | 23900 | 3 | 2 | 2.08 | 23900 | 5270 | 2.08 | 23900 | 5270 |
| 294 | 5.95 | 2.44 | 23900 | 3 | 2 | 2.34 | 23900 | 5270 | 2.34 | 23900 | 5270 |
| 245 | 7.14 | 2.92 | 23900 | 3 | 2 | 2.81 | 23900 | 5270 | 2.81 | 23900 | 5270 |
| 228 | 7.67 | 3.14 | 23900 | 3 | 2 | 3.0 | 21283 | 5270 | 3.02 | 23900 | 5270 |
| 201 | 8.69 | 3.56 | 23900 | 3 | 2 | 3.0 | 18806 | 5270 | 3.42 | 23900 | 5270 |
| 181 | 9.68 | 3.97 | 23900 | 3 | 2 | 3.0 | 16870 | 5270 | 3.81 | 23900 | 5270 |
| 158 | 11.07 | 4.53 | 23900 | 3 | 2 | 3.0 | 14761 | 5270 | 4.35 | 23900 | 5270 |
| 142 | 12.34 | 5.05 | 23900 | 3 | 2 | 3.0 | 13242 | 5270 | 4.85 | 23900 | 5270 |

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Helical-Bevel Gear Units

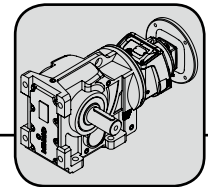
Selection Table

1750 Input Rpm

| K97+R47 | | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_e</i> max HP | Output Torque <i>T_a</i> max lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 18129 | 0.10 | 0.06 | 38086 | 3 | 3 | 0.06 | 38086 | 8550 | | | | | | |
| 16260 | 0.11 | 0.07 | 38086 | 3 | 3 | 0.07 | 38086 | 8550 | | | | | | |
| 15130 | 0.12 | 0.08 | 38086 | 3 | 3 | 0.08 | 38086 | 8550 | | | | | | |
| 14191 | 0.12 | 0.08 | 38086 | 3 | 3 | 0.08 | 38086 | 8550 | | | | | | |
| 13226 | 0.13 | 0.09 | 38086 | 3 | 3 | 0.09 | 38086 | 8550 | | | | | | |
| 11185 | 0.16 | 0.10 | 38086 | 3 | 3 | 0.10 | 38086 | 8550 | | | | | | |
| 10106 | 0.17 | 0.11 | 38086 | 3 | 3 | 0.11 | 38086 | 8550 | | | | | | |
| 9061 | 0.19 | 0.13 | 38086 | 3 | 3 | 0.13 | 38086 | 8550 | | | | | | |
| 8169 | 0.21 | 0.14 | 38086 | 3 | 3 | 0.14 | 38086 | 8550 | | | | | | |
| 6990 | 0.25 | 0.16 | 38086 | 3 | 3 | 0.16 | 38086 | 8550 | | | | | | |
| 5953 | 0.29 | 0.19 | 38086 | 3 | 3 | 0.19 | 38086 | 8550 | | | | | | |
| 5337 | 0.33 | 0.21 | 38086 | 3 | 3 | 0.21 | 38086 | 8550 | | | | | | |
| 4665 | 0.38 | 0.24 | 38086 | 3 | 3 | 0.24 | 38086 | 8550 | | | | | | |
| 4053 | 0.43 | 0.28 | 38086 | 3 | 3 | 0.28 | 38086 | 8550 | 0.28 | 38086 | 8550 | | | |
| 3420 | 0.51 | 0.33 | 38086 | 3 | 3 | 0.33 | 38086 | 8550 | 0.33 | 38086 | 8550 | | | |
| 3239 | 0.54 | 0.34 | 38086 | 3 | 3 | 0.34 | 38086 | 8550 | 0.34 | 38086 | 8550 | | | |
| 2775 | 0.63 | 0.41 | 38086 | 3 | 3 | 0.41 | 38086 | 8550 | 0.41 | 38086 | 8550 | | | |
| 2457 | 0.71 | 0.45 | 38086 | 3 | 2 | 0.45 | 38086 | 8550 | 0.45 | 38086 | 8550 | | | |
| 2078 | 0.84 | 0.53 | 38086 | 3 | 2 | 0.53 | 38086 | 8550 | 0.53 | 38086 | 8550 | | | |
| 1843 | 0.95 | 0.62 | 38086 | 3 | 2 | 0.62 | 38086 | 8550 | 0.62 | 38086 | 8550 | | | |
| 1640 | 1.07 | 0.70 | 38086 | 3 | 2 | 0.70 | 38086 | 8550 | 0.70 | 38086 | 8550 | | | |
| 1471 | 1.19 | 0.75 | 38086 | 3 | 2 | 0.75 | 34302 | 8550 | 0.75 | 38086 | 8550 | | | |
| 1219 | 1.44 | 0.90 | 38086 | 3 | 2 | 0.75 | 28426 | 8550 | 0.90 | 38086 | 8550 | | | |
| 1165 | 1.50 | 0.98 | 38086 | 3 | 2 | 0.75 | 27164 | 8550 | 0.98 | 38086 | 8550 | | | |
| 1044 | 1.68 | 1.06 | 38086 | 3 | 2 | 0.75 | 24345 | 8550 | 1.0 | 32482 | 8550 | | | |
| 878 | 1.99 | 1.30 | 38086 | 3 | 2 | | | | 1.0 | 27302 | 8550 | | | |
| 770 | 2.27 | 1.48 | 38086 | 3 | 2 | | | | 1.0 | 23970 | 8550 | | | |
| 642 | 2.73 | 1.78 | 38086 | 3 | 2 | | | | | | | 1.78 | 38086 | 8550 |
| 579 | 3.02 | 1.97 | 38086 | 3 | 2 | | | | | | | 1.97 | 38086 | 8550 |
| 487 | 3.59 | 2.34 | 38086 | 3 | 2 | | | | | | | | | |
| 380 | 4.61 | 3.00 | 38086 | 3 | 2 | | | | | | | | | |
| 341 | 5.14 | 3.35 | 38086 | 3 | 2 | | | | | | | | | |
| 307 | 5.70 | 3.72 | 38086 | 3 | 2 | | | | | | | | | |
| 259 | 6.76 | 4.41 | 38086 | 3 | 2 | | | | | | | | | |
| 229 | 7.64 | 4.99 | 38086 | 3 | 2 | | | | | | | | | |
| 205 | 8.53 | 5.56 | 38086 | 3 | 2 | | | | | | | | | |

| K97+R47 | | | | | | AM182 | | | AM184 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_e</i> max HP | Output Torque <i>T_a</i> max lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | |
| 487 | 3.59 | 2.34 | 38086 | 3 | 2 | 2.34 | 38086 | 8550 | 2.34 | 38086 | 8550 |
| 380 | 4.61 | 3.00 | 38086 | 3 | 2 | 3.0 | 35522 | 8550 | 3.00 | 38086 | 8550 |
| 341 | 5.14 | 3.35 | 38086 | 3 | 2 | 3.0 | 31796 | 8550 | 3.35 | 38086 | 8550 |
| 307 | 5.70 | 3.72 | 38086 | 3 | 2 | 3.0 | 28669 | 8550 | 3.72 | 38086 | 8550 |
| 259 | 6.76 | 4.41 | 38086 | 3 | 2 | 3.0 | 24154 | 8550 | 4.41 | 38086 | 8550 |
| 229 | 7.64 | 4.99 | 38086 | 3 | 2 | | | | 4.99 | 38086 | 8550 |
| 205 | 8.53 | 5.56 | 38086 | 3 | 2 | | | | 5.0 | 31926 | 8550 |

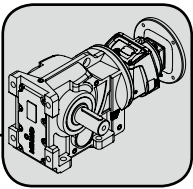
| | |
|--|--------------------------|
| | Standard |
| | Contact with salespeople |
| | Not available |



1750 Input Rpm

| K107+R77 | | | | | | AM56 | | | AM143 | | | AM145 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 14135 | 0.12 | 0.15 | 70850 | 3 | 3 | 0.15 | 70850 | 13300 | 0.15 | 70850 | 13300 | | | |
| 12492 | 0.14 | 0.16 | 70850 | 3 | 3 | 0.16 | 70850 | 13300 | 0.16 | 70850 | 13300 | | | |
| 10569 | 0.17 | 0.19 | 70850 | 3 | 3 | 0.19 | 70850 | 13300 | 0.19 | 70850 | 13300 | | | |
| 9340 | 0.19 | 0.22 | 70850 | 3 | 3 | 0.22 | 70850 | 13300 | 0.22 | 70850 | 13300 | | | |
| 8287 | 0.21 | 0.25 | 70850 | 3 | 3 | | | | | | | 0.25 | 70850 | 13300 |
| 7339 | 0.24 | 0.28 | 70850 | 3 | 3 | | | | | | | 0.28 | 70850 | 13300 |
| 6179 | 0.28 | 0.33 | 70850 | 3 | 3 | | | | | | | 0.33 | 70850 | 13300 |
| 5642 | 0.31 | 0.36 | 70850 | 3 | 3 | | | | | | | 0.36 | 70850 | 13300 |
| 5020 | 0.35 | 0.41 | 70850 | 3 | 3 | | | | | | | 0.41 | 70850 | 13300 |
| 4478 | 0.39 | 0.46 | 70850 | 3 | 3 | | | | | | | 0.46 | 70850 | 13300 |
| 3899 | 0.45 | 0.53 | 70850 | 3 | 3 | | | | | | | 0.53 | 70850 | 13300 |
| 3423 | 0.51 | 0.60 | 70850 | 3 | 3 | | | | | | | 0.60 | 70850 | 13300 |
| 3053 | 0.57 | 0.67 | 70850 | 3 | 3 | | | | | | | 0.67 | 70850 | 13300 |
| 2634 | 0.66 | 0.78 | 70850 | 3 | 3 | | | | | | | 0.78 | 70850 | 13300 |
| 2292 | 0.76 | 0.89 | 70850 | 3 | 3 | | | | | | | 0.89 | 70850 | 13300 |
| 2082 | 0.84 | 0.99 | 70850 | 3 | 3 | | | | | | | 0.99 | 70850 | 13300 |
| 1809 | 0.97 | 1.13 | 70850 | 3 | 2 | | | | | | | | | |
| 1611 | 1.09 | 1.27 | 70850 | 3 | 2 | | | | | | | | | |
| 1414 | 1.24 | 1.45 | 70850 | 3 | 2 | | | | | | | | | |
| 1198 | 1.46 | 1.71 | 70850 | 3 | 2 | | | | | | | | | |
| 992 | 1.76 | 2.07 | 70850 | 3 | 2 | | | | | | | | | |
| 786 | 2.23 | 2.61 | 70850 | 3 | 2 | | | | | | | | | |
| 685 | 2.56 | 2.99 | 70850 | 3 | 2 | | | | | | | | | |
| 605 | 2.89 | 3.39 | 70850 | 3 | 2 | | | | | | | | | |
| 524 | 3.34 | 3.91 | 70850 | 3 | 2 | | | | | | | | | |
| 458 | 3.82 | 4.48 | 70850 | 3 | 2 | | | | | | | | | |
| 393 | 4.45 | 5.21 | 70850 | 3 | 2 | | | | | | | | | |
| 359 | 4.88 | 5.72 | 70850 | 3 | 2 | | | | | | | | | |
| 317 | 5.52 | 6.47 | 70850 | 3 | 2 | | | | | | | | | |
| 276 | 6.34 | 7.43 | 70850 | 3 | 2 | | | | | | | | | |
| 249 | 7.02 | 8.22 | 70850 | 3 | 2 | | | | | | | | | |
| 216 | 8.08 | 9.47 | 70850 | 3 | 2 | | | | | | | | | |
| 193 | 9.08 | 10.64 | 70850 | 3 | 2 | | | | | | | | | |
| 173 | 10.12 | 11.86 | 70850 | 3 | 2 | | | | | | | | | |
| 156 | 11.24 | 13.18 | 70850 | 3 | 2 | | | | | | | | | |
| 142 | 12.33 | 14.45 | 70850 | 3 | 2 | | | | | | | | | |

| | |
|--|--------------------------|
| | Standard |
| | Contact with salespeople |
| | Not available |



Helical-Bevel Gear Units

Selection Table

1750 Input Rpm

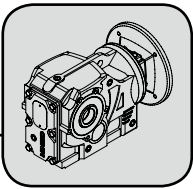
| K107+R77 | | | | | | AM182 | | | AM184 | | | AM213 | | |
|-------------------|---|--|---|--------|------|---|--|---|---|--|---|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | | | | | | | |
| 5642 | 0.31 | 0.36 | 70850 | 3 | 3 | 0.36 | 70800 | 13300 | | | | | | |
| 5020 | 0.35 | 0.41 | 70850 | 3 | 3 | 0.41 | 70800 | 13300 | | | | | | |
| 4478 | 0.39 | 0.46 | 70850 | 3 | 3 | 0.46 | 70800 | 13300 | | | | | | |
| 3899 | 0.45 | 0.53 | 70850 | 3 | 3 | 0.53 | 70800 | 13300 | 0.53 | 70800 | 13300 | | | |
| 3423 | 0.51 | 0.60 | 70850 | 3 | 3 | 0.60 | 70800 | 13300 | 0.60 | 70800 | 13300 | | | |
| 3053 | 0.57 | 0.67 | 70850 | 3 | 3 | 0.67 | 70800 | 13300 | 0.67 | 70800 | 13300 | | | |
| 2634 | 0.66 | 0.78 | 70850 | 3 | 3 | 0.78 | 70800 | 13300 | 0.78 | 70800 | 13300 | | | |
| 2292 | 0.76 | 0.89 | 70850 | 3 | 3 | 0.89 | 70800 | 13300 | 0.89 | 70800 | 13300 | | | |
| 2082 | 0.84 | 0.99 | 70850 | 3 | 3 | 0.99 | 70800 | 13300 | 0.99 | 70800 | 13300 | | | |
| 1809 | 0.97 | 1.13 | 70850 | 3 | 2 | 1.13 | 70800 | 13300 | 1.13 | 70800 | 13300 | | | |
| 1611 | 1.09 | 1.27 | 70850 | 3 | 2 | 1.27 | 70800 | 13300 | 1.27 | 70800 | 13300 | 1.27 | 70800 | 13300 |
| 1414 | 1.24 | 1.45 | 70850 | 3 | 2 | 1.45 | 70800 | 13300 | 1.45 | 70800 | 13300 | 1.45 | 70800 | 13300 |
| 1198 | 1.46 | 1.71 | 70850 | 3 | 2 | 1.71 | 70800 | 13300 | 1.71 | 70800 | 13300 | 1.71 | 70800 | 13300 |
| 992 | 1.76 | 2.07 | 70850 | 3 | 2 | 2.07 | 70800 | 13300 | 2.07 | 70800 | 13300 | 2.07 | 70800 | 13300 |
| 786 | 2.23 | 2.61 | 70850 | 3 | 2 | 2.61 | 70800 | 13300 | 2.61 | 70800 | 13300 | 2.61 | 70800 | 13300 |
| 685 | 2.56 | 2.99 | 70850 | 3 | 2 | 2.99 | 70800 | 13300 | 2.99 | 70800 | 13300 | 2.99 | 70800 | 13300 |
| 605 | 2.89 | 3.39 | 70850 | 3 | 2 | 3.0 | 63914 | 13300 | 3.39 | 70800 | 13300 | 3.39 | 70800 | 13300 |
| 524 | 3.34 | 3.91 | 70850 | 3 | 2 | | | | 3.91 | 70800 | 13300 | 3.91 | 70800 | 13300 |
| 458 | 3.82 | 4.48 | 70850 | 3 | 2 | | | | 4.48 | 70800 | 13300 | 4.48 | 70800 | 13300 |
| 393 | 4.45 | 5.21 | 70850 | 3 | 2 | | | | 5.00 | 61208 | 13300 | 5.21 | 70800 | 13300 |
| 359 | 4.88 | 5.72 | 70850 | 3 | 2 | | | | 5.00 | 55808 | 13300 | 5.72 | 70800 | 13300 |
| 317 | 5.52 | 6.47 | 70850 | 3 | 2 | | | | 5.00 | 49280 | 13300 | 6.47 | 70800 | 13300 |
| 276 | 6.34 | 7.43 | 70850 | 3 | 2 | | | | 5.00 | 42931 | 13300 | 7.43 | 70800 | 13300 |
| 249 | 7.02 | 8.22 | 70850 | 3 | 2 | | | | 5.00 | 38794 | 13300 | 7.5 | 58190 | 13300 |
| 216 | 8.08 | 9.47 | 70850 | 3 | 2 | | | | 5.00 | 33674 | 13300 | 7.5 | 50511 | 13300 |
| 193 | 9.08 | 10.64 | 70850 | 3 | 2 | 3.0 | 17994 | 13300 | 5.00 | 29989 | 13300 | 7.5 | 44984 | 13300 |
| 173 | 10.12 | 11.86 | 70850 | 3 | 2 | 3.0 | 16141 | 13300 | 5.00 | 26901 | 13300 | 7.5 | 40352 | 13300 |
| 156 | 11.24 | 13.18 | 70850 | 3 | 2 | | | | 5.00 | 24210 | 13300 | 7.5 | 36315 | 13300 |
| 142 | 12.33 | 14.45 | 70850 | 3 | 2 | | | | 5.00 | 22074 | 13300 | 7.5 | 33111 | 13300 |

| K107+R77 | | | | | | AM215 | | |
|-------------------|---|--|---|--------|------|---|--|---|
| Ratio <i>i</i> | Output Speed <i>n_a</i> rpm | Input Power <i>P_emax</i> HP | Output Torque <i>T_amax</i> lb-in | Stages | | Input Power <i>P_e</i> HP | Output Torque <i>T_a</i> lb-in | Output OHL <i>F_{Ra}</i> lb |
| | | | | Pri. | Sec. | | | |
| 1611 | 1.09 | 1.27 | 70850 | 3 | 2 | 1.27 | 70800 | 13300 |
| 1414 | 1.24 | 1.45 | 70850 | 3 | 2 | 1.45 | 70800 | 13300 |
| 1198 | 1.46 | 1.71 | 70850 | 3 | 2 | 1.71 | 70800 | 13300 |
| 992 | 1.76 | 2.07 | 70850 | 3 | 2 | 2.07 | 70800 | 13300 |
| 786 | 2.23 | 2.61 | 70850 | 3 | 2 | 2.61 | 70800 | 13300 |
| 685 | 2.56 | 2.99 | 70850 | 3 | 2 | 2.99 | 70800 | 13300 |
| 605 | 2.89 | 3.39 | 70850 | 3 | 2 | 3.39 | 70800 | 13300 |
| 524 | 3.34 | 3.91 | 70850 | 3 | 2 | 3.91 | 70800 | 13300 |
| 458 | 3.82 | 4.48 | 70850 | 3 | 2 | 4.48 | 70800 | 13300 |
| 393 | 4.45 | 5.21 | 70850 | 3 | 2 | 5.21 | 70800 | 13300 |
| 359 | 4.88 | 5.72 | 70850 | 3 | 2 | 5.72 | 70800 | 13300 |
| 317 | 5.52 | 6.47 | 70850 | 3 | 2 | 6.47 | 70800 | 13300 |
| 276 | 6.34 | 7.43 | 70850 | 3 | 2 | 7.43 | 70800 | 13300 |
| 249 | 7.02 | 8.22 | 70850 | 3 | 2 | 8.22 | 70800 | 13300 |
| 216 | 8.08 | 9.47 | 70850 | 3 | 2 | 9.47 | 70800 | 13300 |
| 193 | 9.08 | 10.64 | 70850 | 3 | 2 | 10 | 59979 | 13300 |
| 173 | 10.12 | 11.86 | 70850 | 3 | 2 | 10 | 53802 | 13300 |
| 156 | 11.24 | 13.18 | 70850 | 3 | 2 | 10 | 48419 | 13300 |
| 142 | 12.33 | 14.45 | 70850 | 3 | 2 | 10 | 44148 | 13300 |

| | |
|--|--------------------------|
| | Standard |
| | Contact with salespeople |
| | Not available |



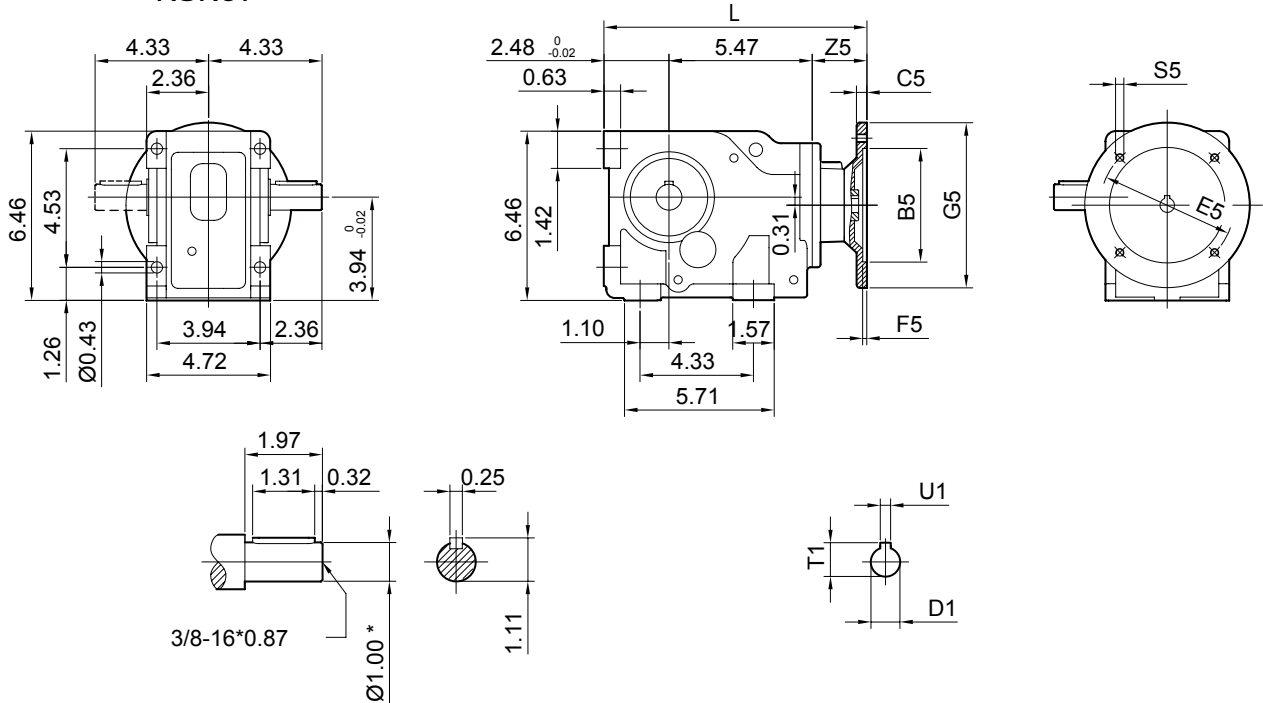
CHENTA



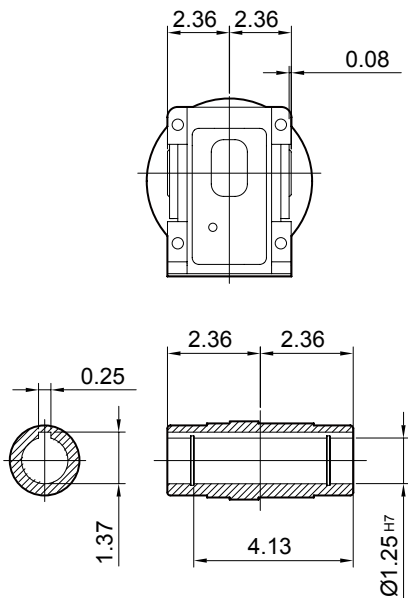
Helical-Bevel Gear Units
Dimension Sheets[inch]

3.3 Dimension Sheets

KSN37



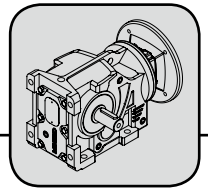
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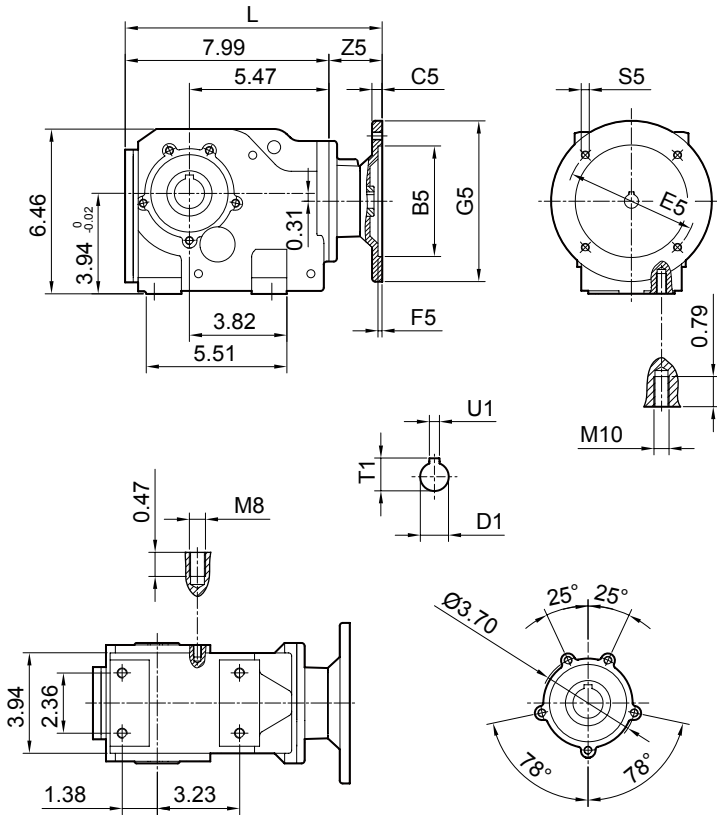
*Refer page16 for tolerance information.

For the dimension concerning the solid input shaft, please refer to the table shown at page56.

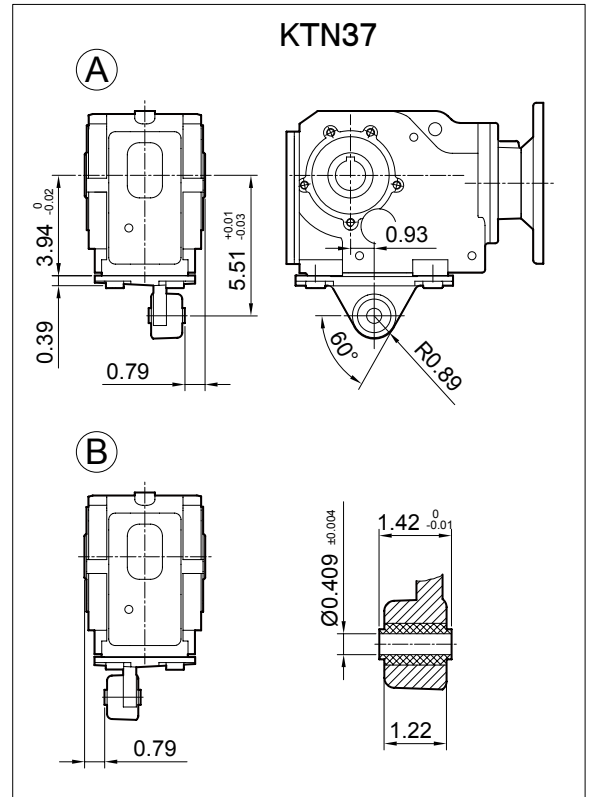
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|------|-------|------|------|-------|------|-------|
| AM56 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 10.35 | 0.41 | 2.40 | 0.625 | 0.71 | 0.188 |
| AM143/145 | 4.50 | 0.47 | 5.875 | 0.20 | 6.50 | 10.75 | 0.41 | 2.80 | 0.875 | 0.97 | 0.188 |



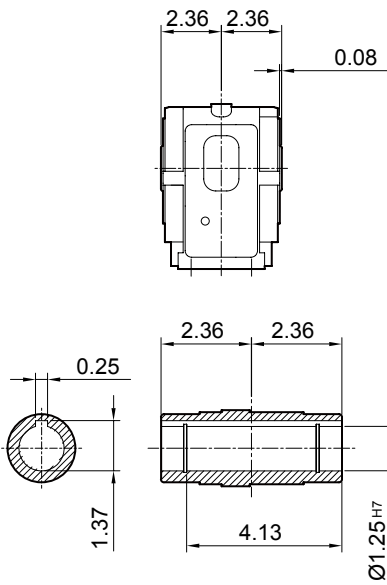
KAN37



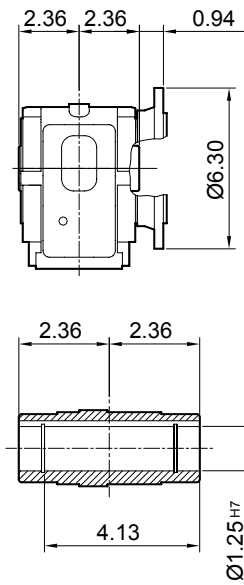
KTN37



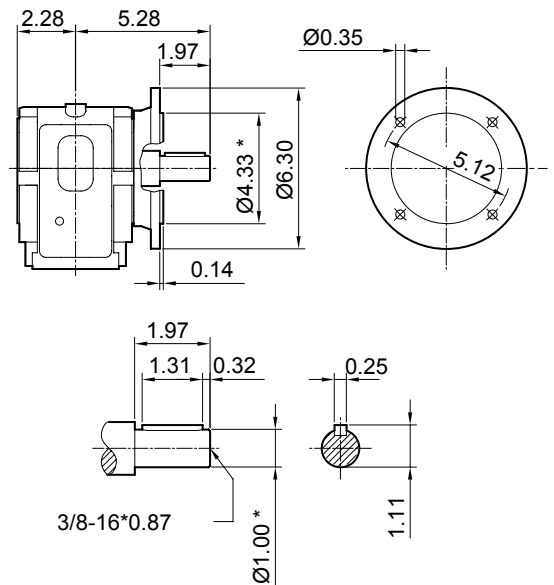
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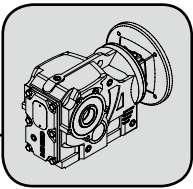
KMN37



KNN37



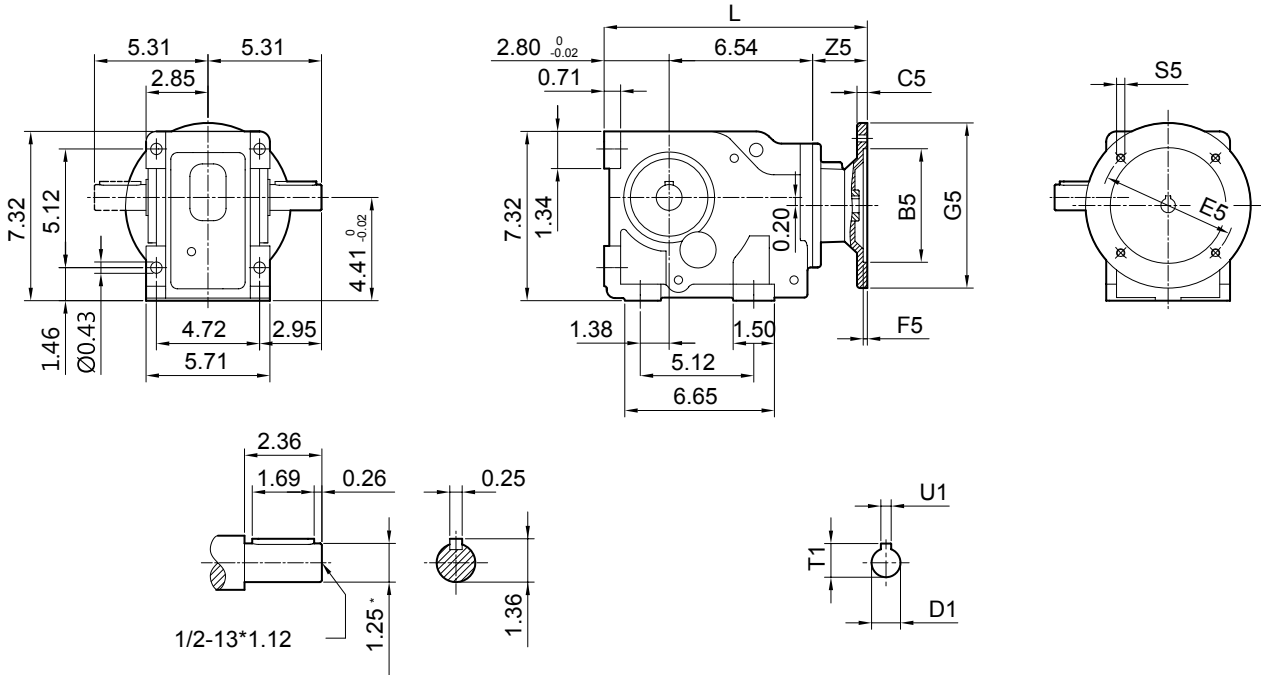
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|------|-------|------|------|-------|------|-------|
| AM56 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 10.35 | 0.41 | 2.40 | 0.625 | 0.71 | 0.188 |
| AM143/145 | 4.50 | 0.47 | 5.875 | 0.20 | 6.50 | 10.75 | 0.41 | 2.80 | 0.875 | 0.97 | 0.188 |



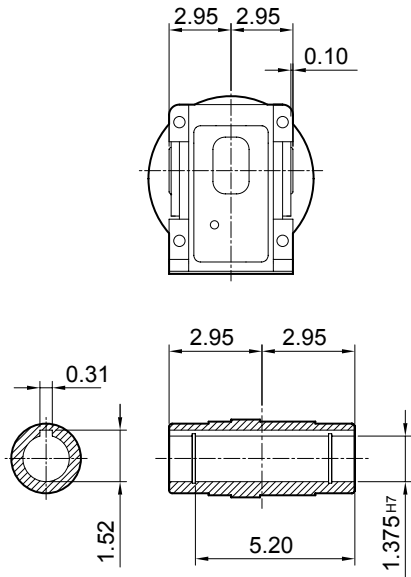
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN47



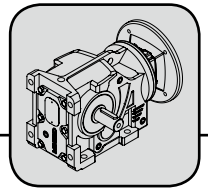
KHN47



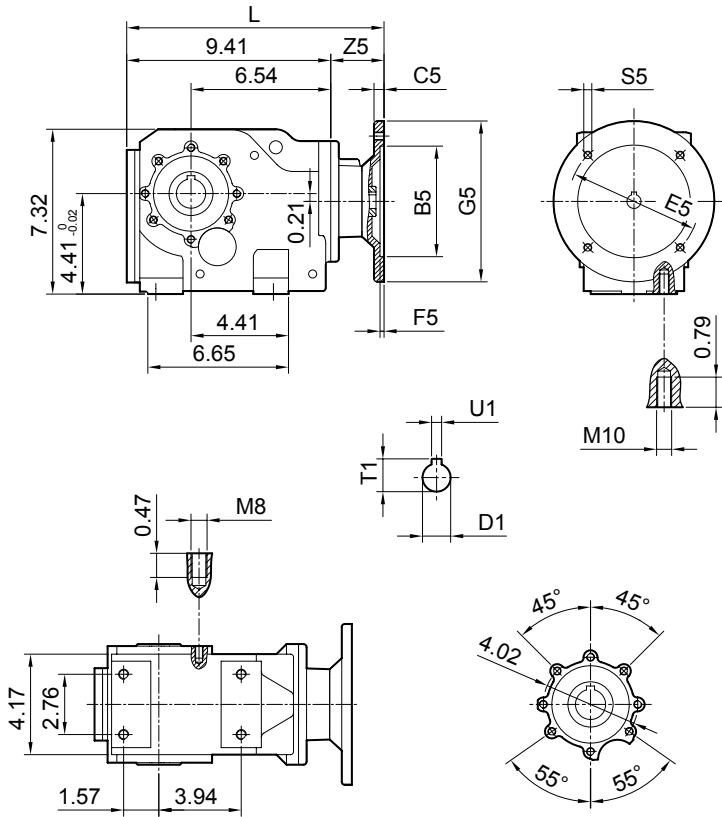
*Refer page16 for tolerance information.

For the dimension concerning the solid input shaft, please refer to the table shown at page 56.

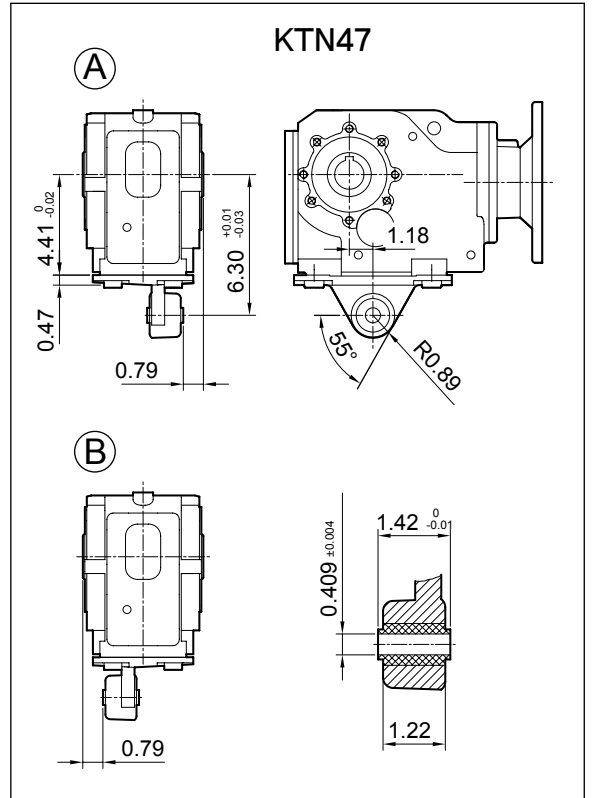
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|------|-------|------|------|-------|------|-------|
| AM56 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 10.35 | 0.41 | 2.40 | 0.625 | 0.71 | 0.188 |
| AM143/145 | 4.50 | 0.47 | 5.875 | 0.20 | 6.50 | 10.75 | 0.41 | 2.80 | 0.875 | 0.97 | 0.188 |
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 12.68 | 0.55 | 3.35 | 1.125 | 1.24 | 0.250 |



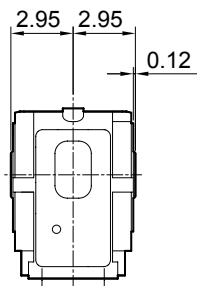
KAN47



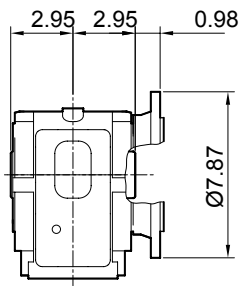
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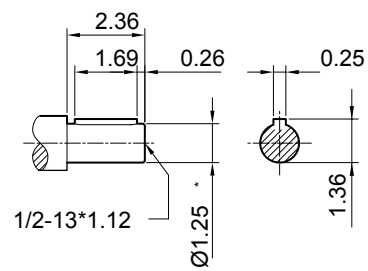
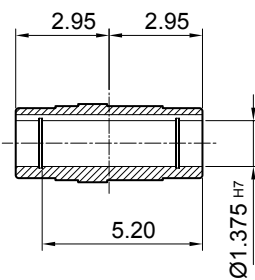
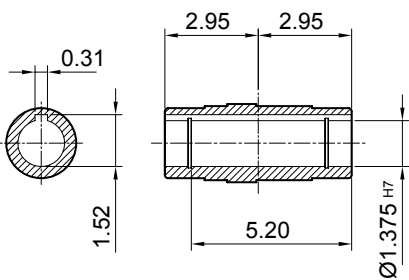
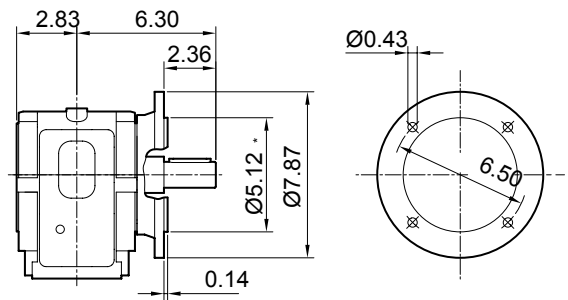
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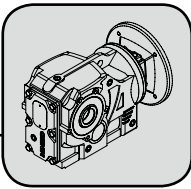
KMN47



KNN47



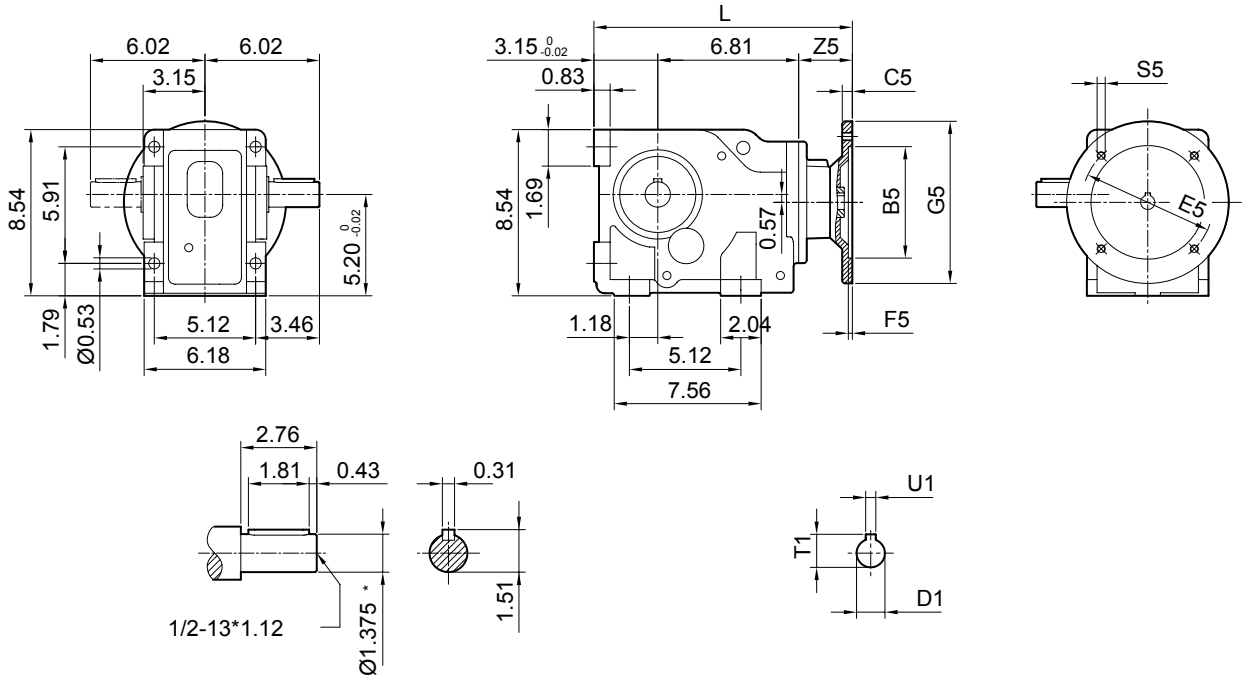
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|------|-------|------|------|-------|------|-------|
| AM56 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 10.35 | 0.41 | 2.40 | 0.625 | 0.71 | 0.188 |
| AM143/145 | 4.50 | 0.47 | 5.875 | 0.20 | 6.50 | 10.75 | 0.41 | 2.80 | 0.875 | 0.97 | 0.188 |
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 12.68 | 0.55 | 3.35 | 1.125 | 1.24 | 0.250 |



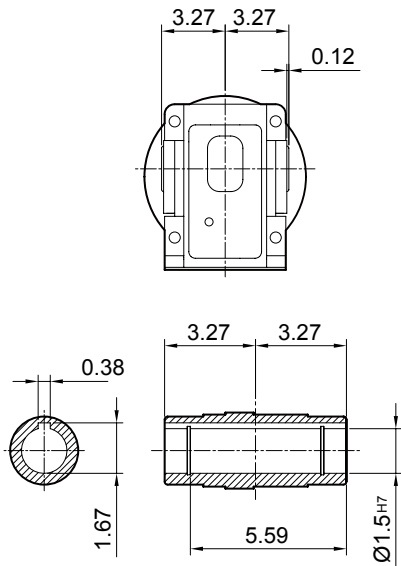
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN57



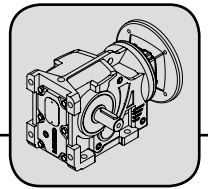
KHN57



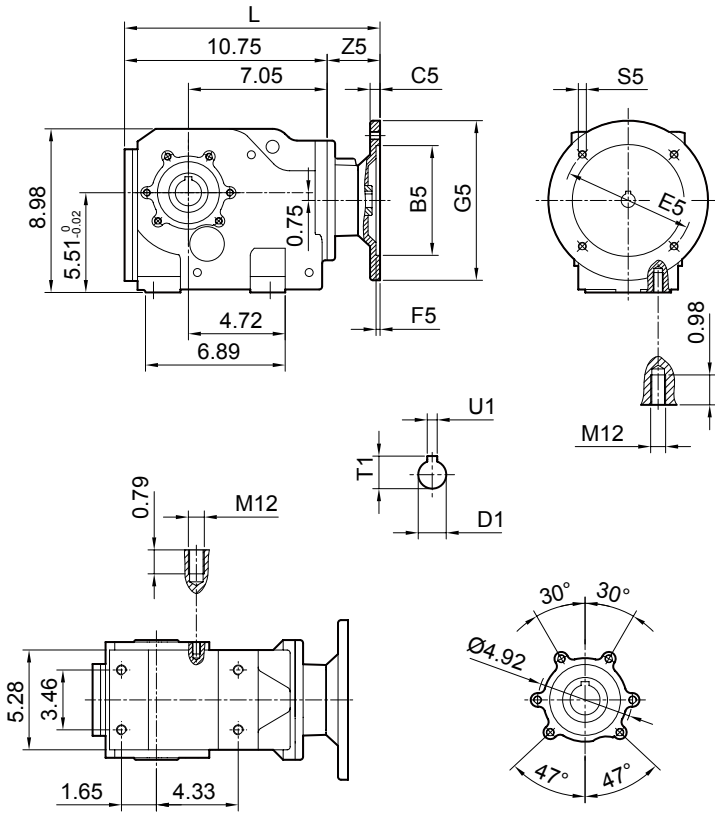
*Refer page16 for tolerance information.

For the dimension concerning the solid input shaft, please refer to the table shown at page56.

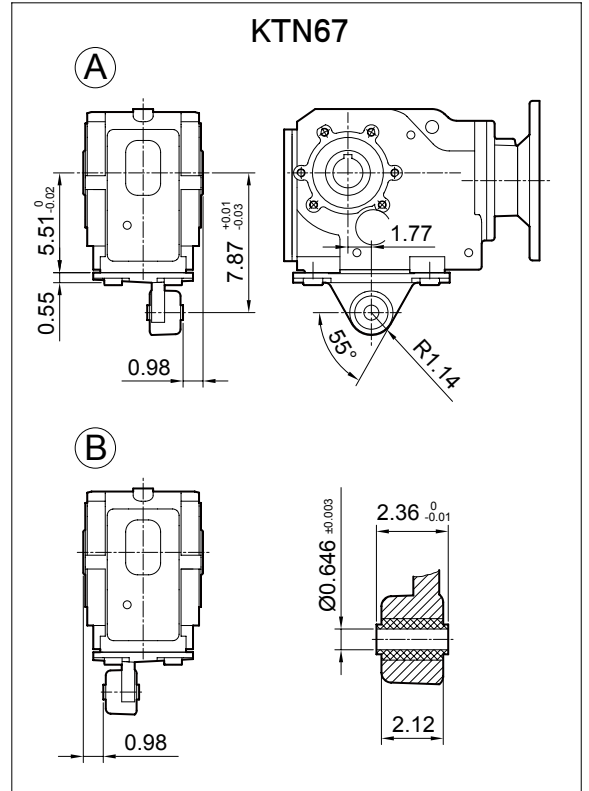
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|------|-------|------|------|-------|------|-------|
| AM56 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 12.11 | 0.41 | 2.15 | 0.625 | 0.71 | 0.188 |
| AM143/145 | 4.50 | 0.47 | 5.875 | 0.20 | 6.50 | 12.50 | 0.41 | 2.54 | 0.875 | 0.96 | 0.188 |
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 13.23 | 0.55 | 3.27 | 1.125 | 1.24 | 0.250 |



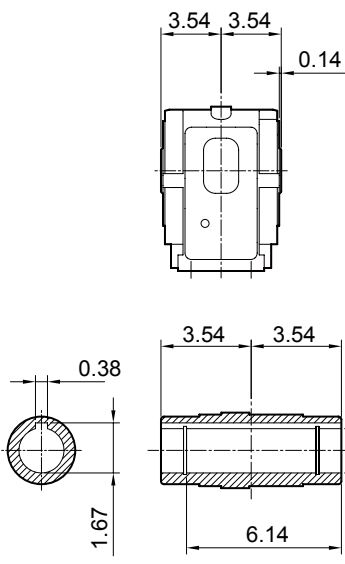
KAN67



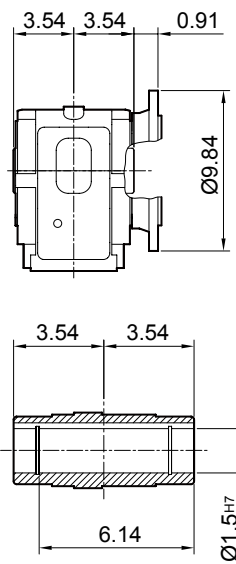
KTN67



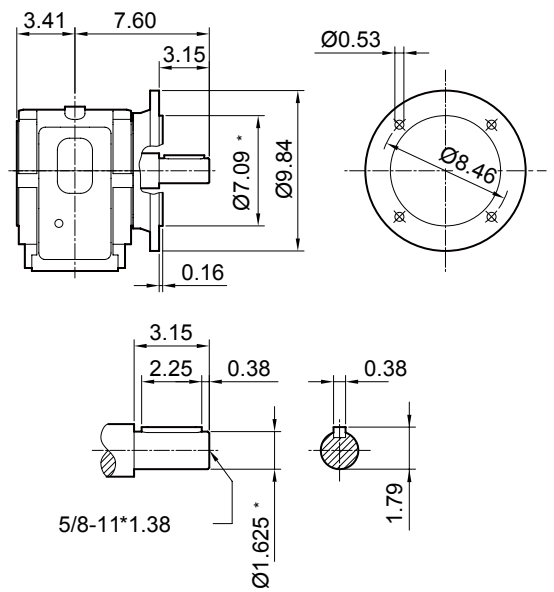
KAN67



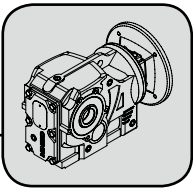
KMN67



KNN67



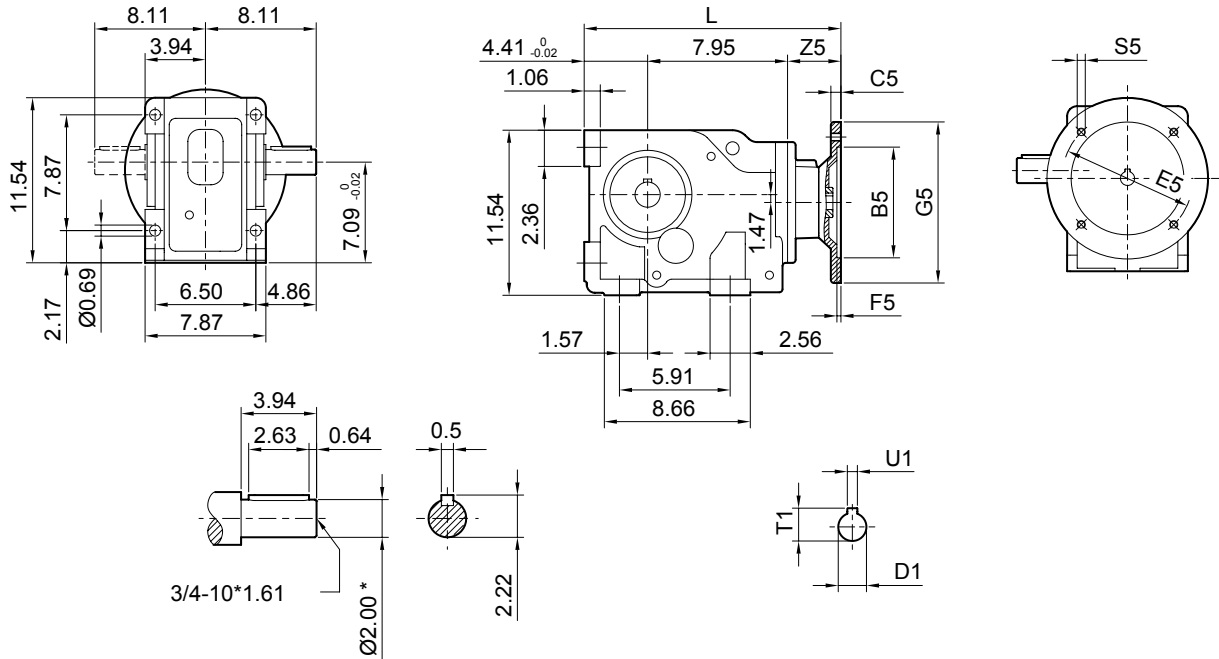
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|------|-------|------|------|-------|------|-------|
| AM56 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 12.74 | 0.41 | 2.15 | 0.625 | 0.71 | 0.188 |
| AM143/145 | 4.50 | 0.47 | 5.875 | 0.20 | 6.50 | 13.13 | 0.41 | 2.54 | 0.875 | 0.96 | 0.188 |
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 13.23 | 0.55 | 3.27 | 1.125 | 1.24 | 0.250 |



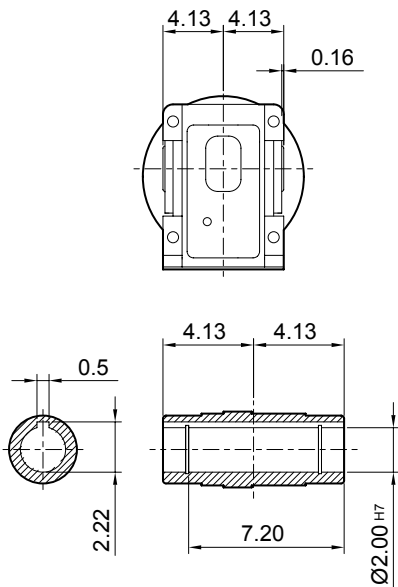
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN77



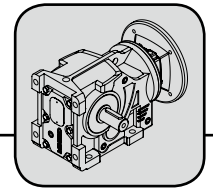
KHN77



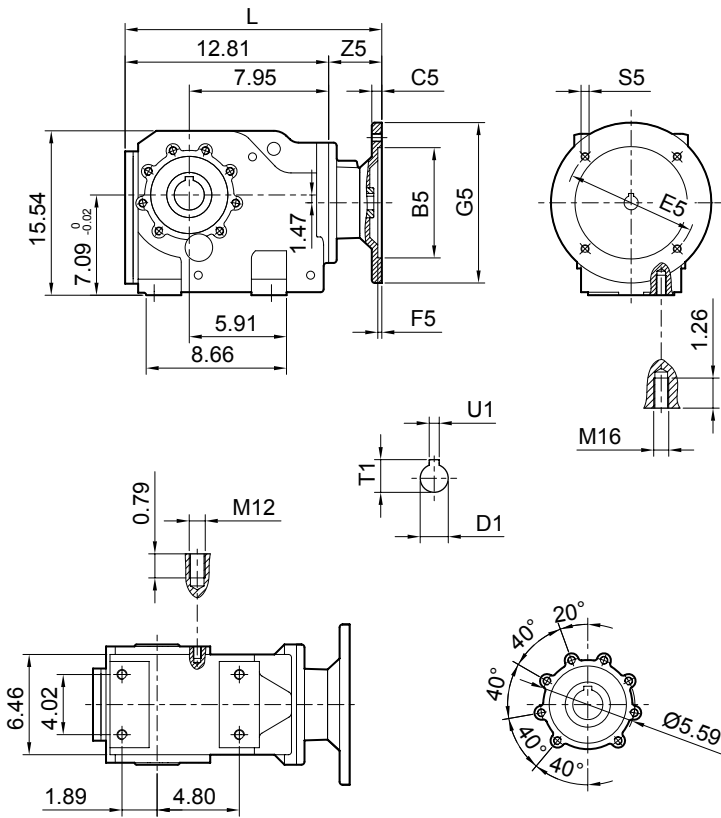
*Refer page16 for tolerance information.

For the dimension concerning the solid input shaft, please refer to the table shown at page56.

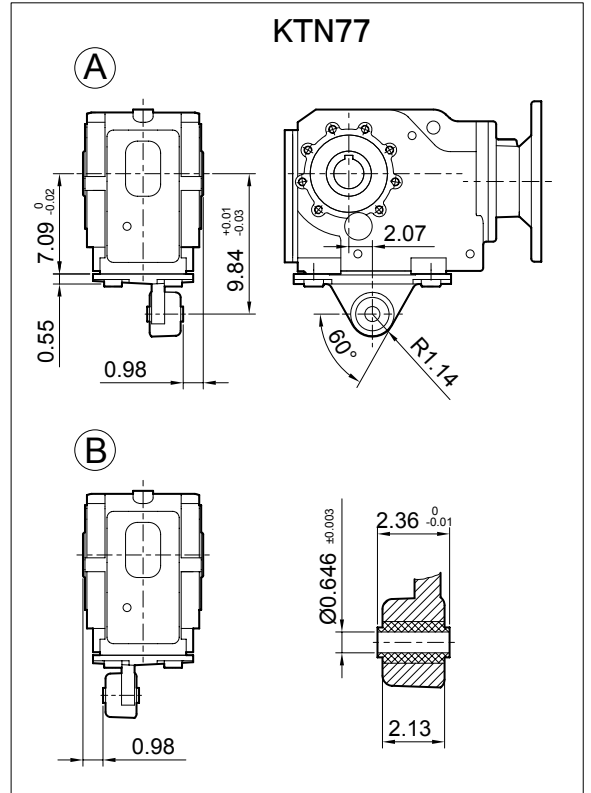
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|------|-------|------|------|-------|------|-------|
| AM143/145 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 14.69 | 0.41 | 2.32 | 0.875 | 0.96 | 0.188 |
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 15.41 | 0.55 | 3.05 | 1.125 | 1.24 | 0.250 |
| AM213/215 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 17.68 | 0.55 | 5.31 | 1.375 | 1.52 | 0.312 |



KAN77



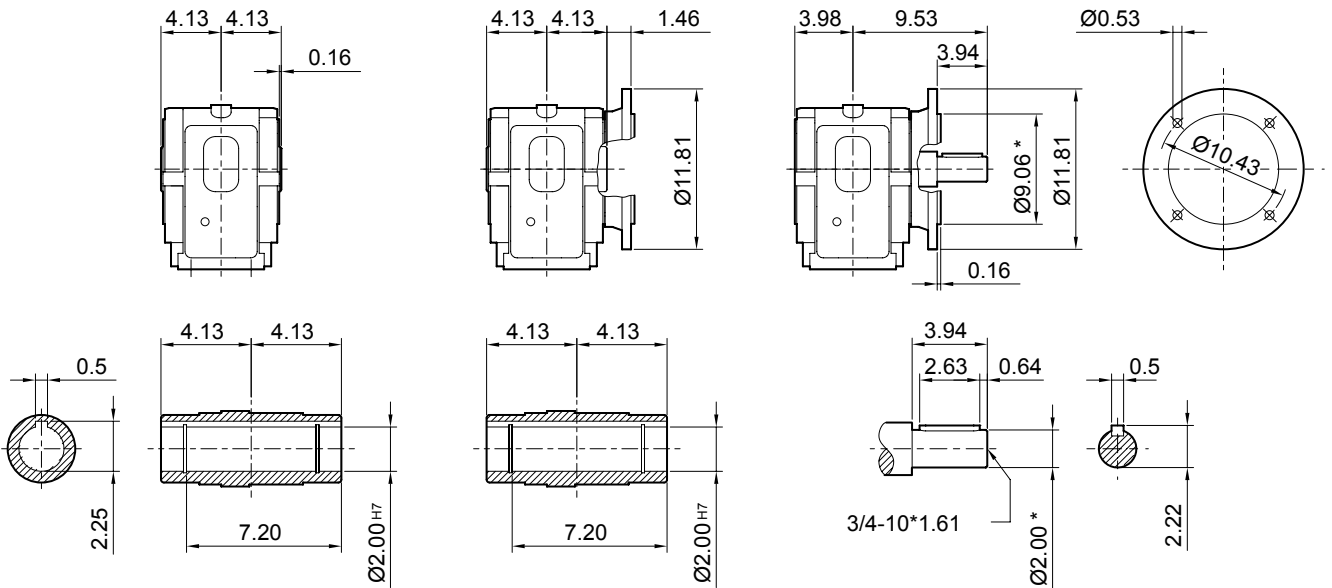
KTN77



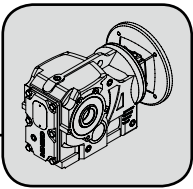
KAN77

KMN77

KNN77



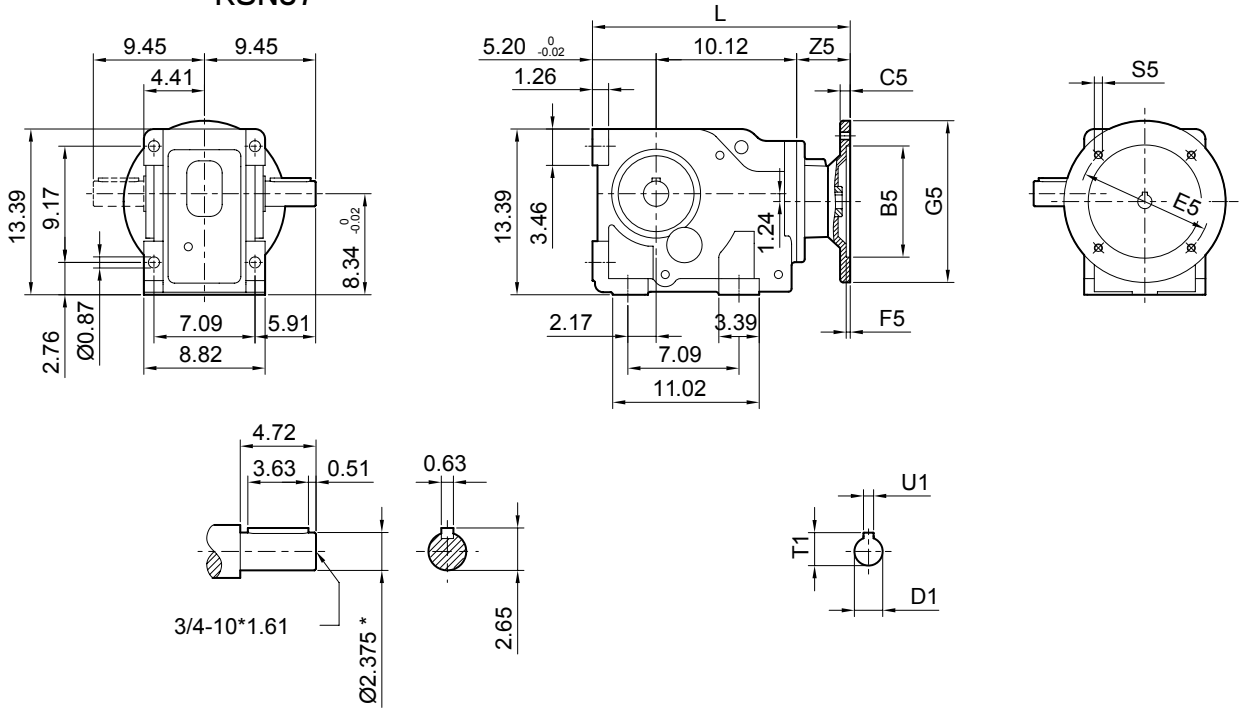
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|------|-------|------|------|-------|------|-------|
| AM143/145 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 14.69 | 0.41 | 2.32 | 0.875 | 0.96 | 0.188 |
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 15.41 | 0.55 | 3.05 | 1.125 | 1.24 | 0.250 |
| AM213/215 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 17.68 | 0.55 | 5.31 | 1.375 | 1.52 | 0.312 |



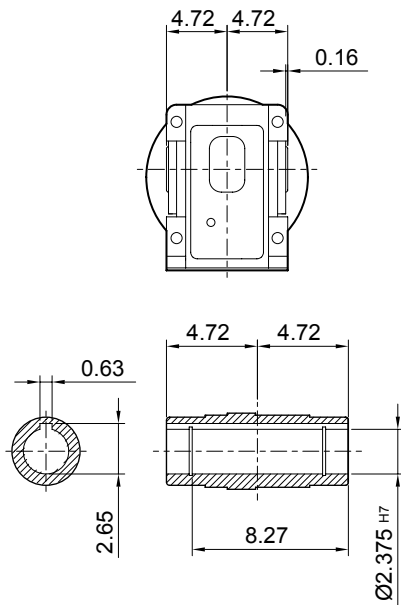
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN87



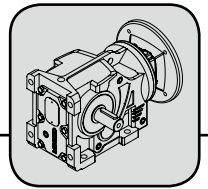
KHN87



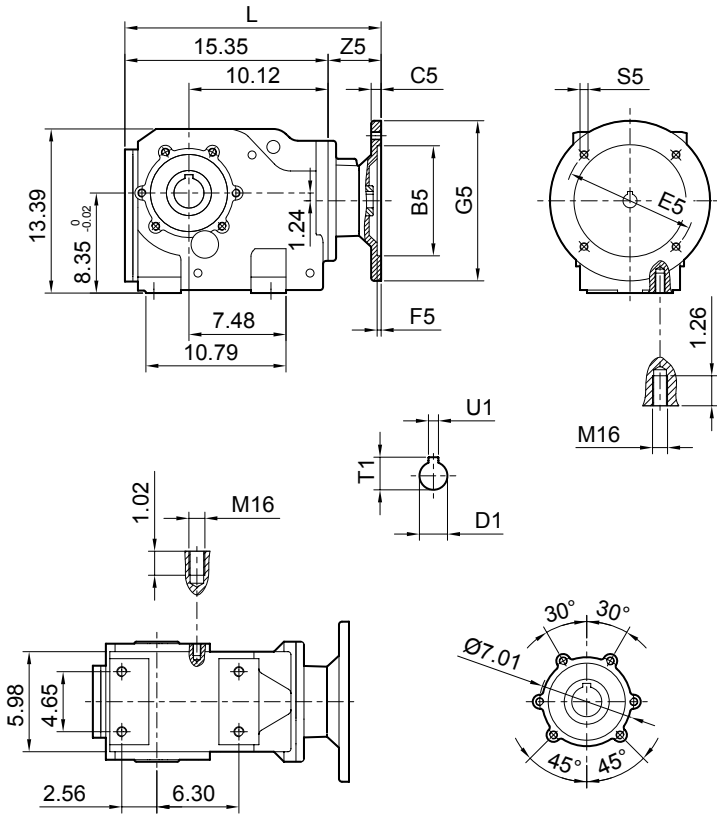
*Refer page16 for tolerance information.

For the dimension concerning the solid input shaft, please refer to the table shown at page56.

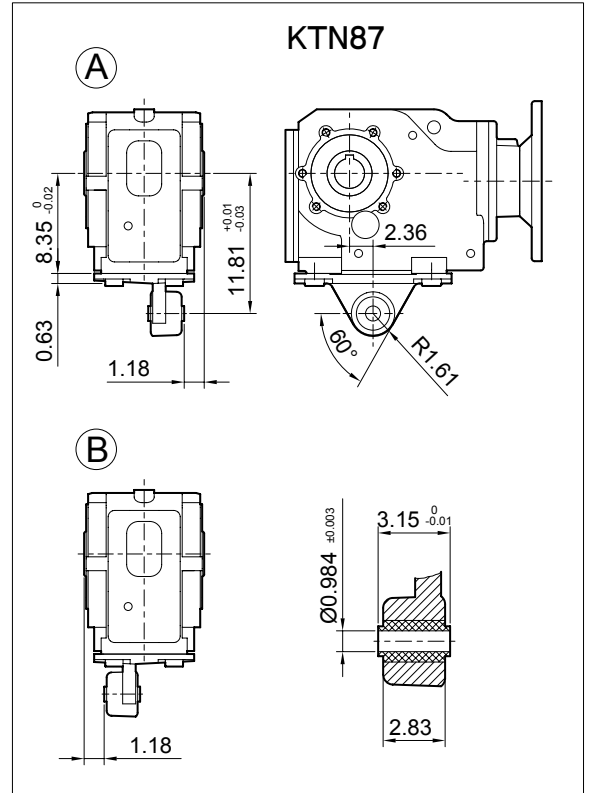
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|-------|-------|------|------|-------|------|-------|
| AM143/145 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 14.69 | 0.41 | 2.56 | 0.875 | 0.96 | 0.188 |
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 15.41 | 0.55 | 2.68 | 1.125 | 1.24 | 0.250 |
| AM213/215 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 17.68 | 0.55 | 4.94 | 1.375 | 1.52 | 0.312 |
| AM254/256 | 8.50 | 0.79 | 7.250 | 0.20 | 10.00 | 21.24 | 0.55 | 5.93 | 1.625 | 1.80 | 0.375 |



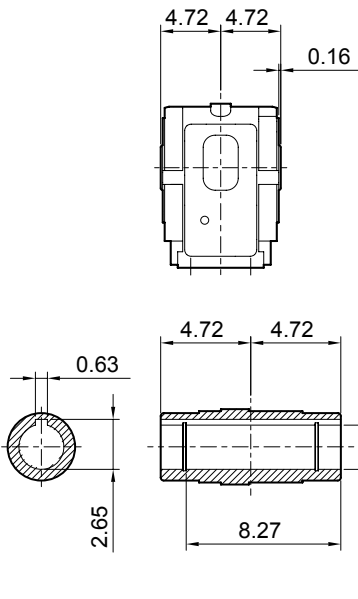
KAN87



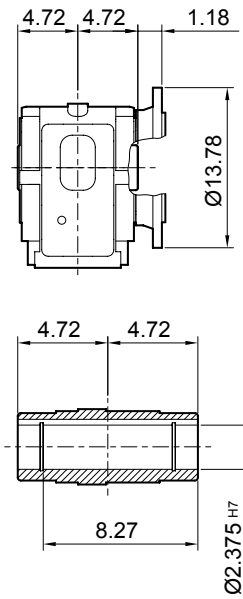
KTN87



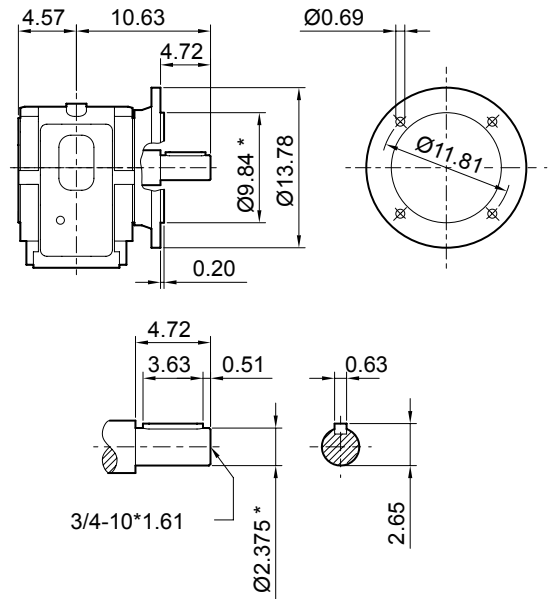
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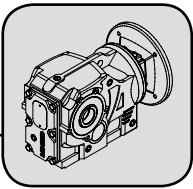
KMN87



KNN87



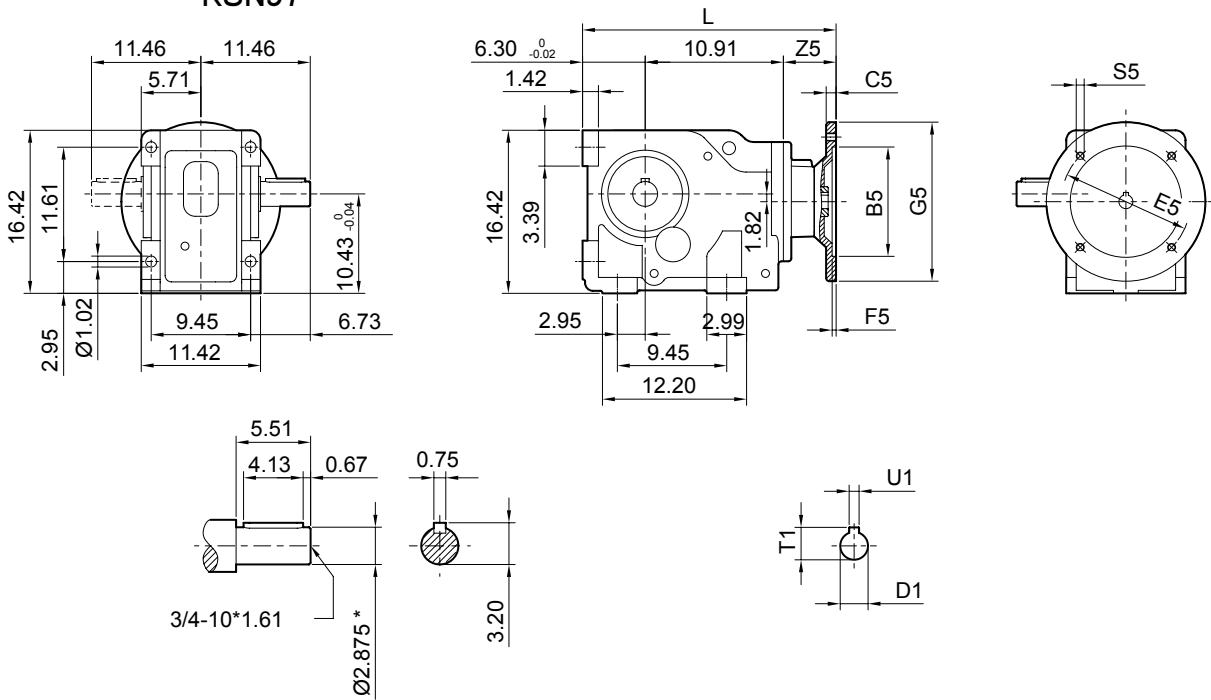
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|------|------|-------|------|-------|-------|------|------|-------|------|-------|
| AM143/145 | 4.50 | 0.39 | 5.875 | 0.16 | 6.50 | 14.69 | 0.41 | 2.56 | 0.875 | 0.96 | 0.188 |
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 15.41 | 0.55 | 2.68 | 1.125 | 1.24 | 0.250 |
| AM213/215 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 17.68 | 0.55 | 5.31 | 1.375 | 1.52 | 0.312 |
| AM254/256 | 8.50 | 0.79 | 7.250 | 0.20 | 10.00 | 21.24 | 0.55 | 5.93 | 1.625 | 1.80 | 0.375 |



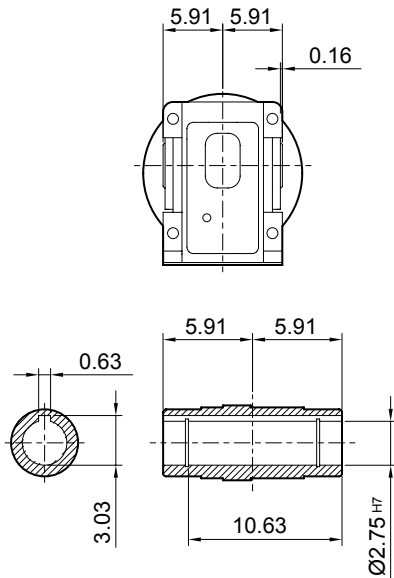
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN97



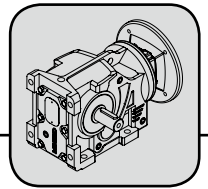
KHN97



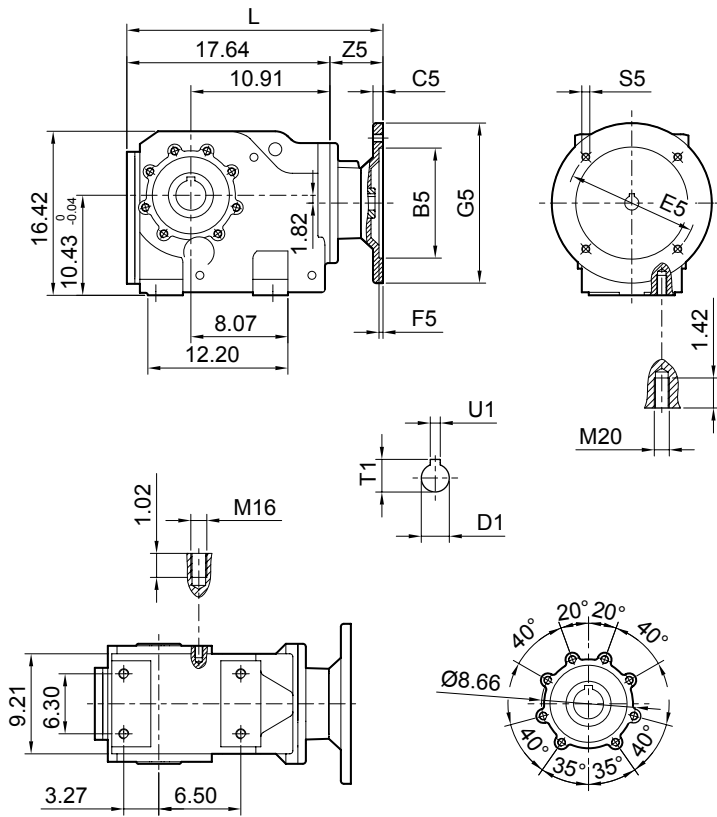
*Refer page16 for tolerance information.

For the dimension concerning the solid input shaft, please refer to the table shown at page56.

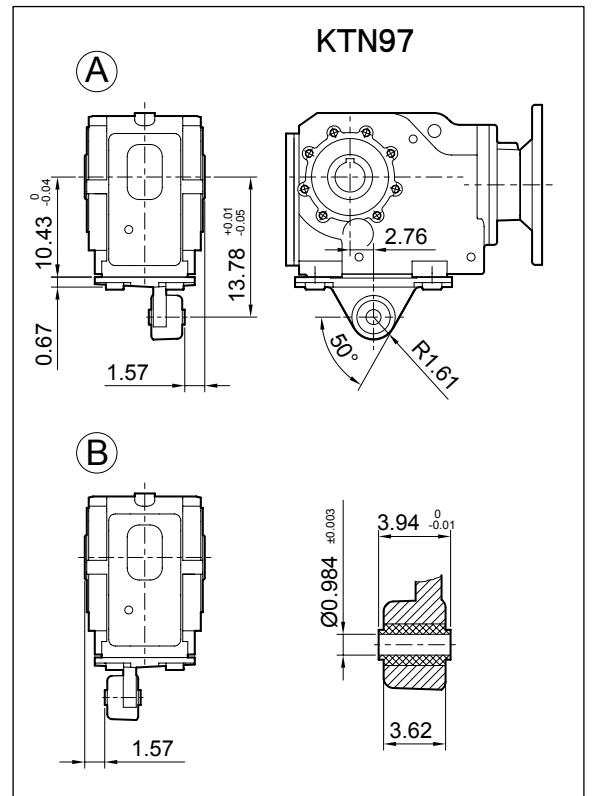
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|-------|------|-------|------|-------|-------|------|------|-------|------|-------|
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 19.72 | 0.55 | 2.52 | 1.125 | 1.24 | 0.250 |
| AM213/215 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 21.83 | 0.55 | 4.63 | 1.375 | 1.52 | 0.312 |
| AM254/256 | 8.50 | 0.79 | 7.250 | 0.20 | 10.00 | 22.81 | 0.55 | 5.61 | 1.625 | 1.80 | 0.375 |
| AM284/286 | 10.50 | 0.79 | 9.000 | 0.20 | 11.26 | 23.17 | 0.59 | 5.96 | 1.875 | 2.10 | 0.500 |



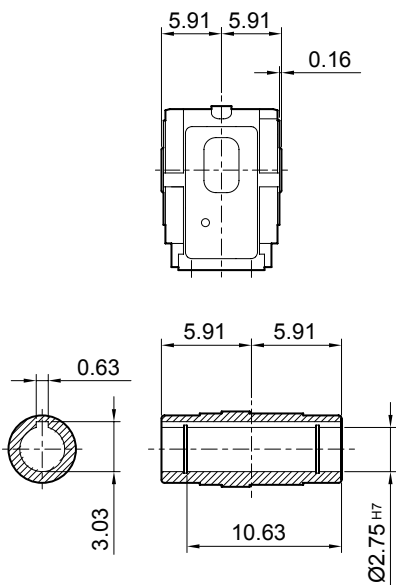
KAN97



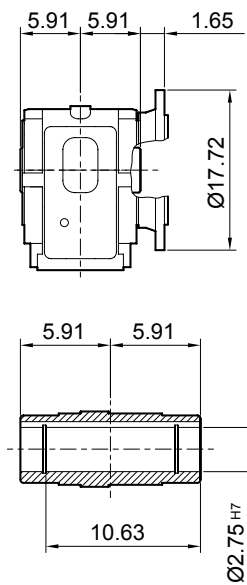
KTN97



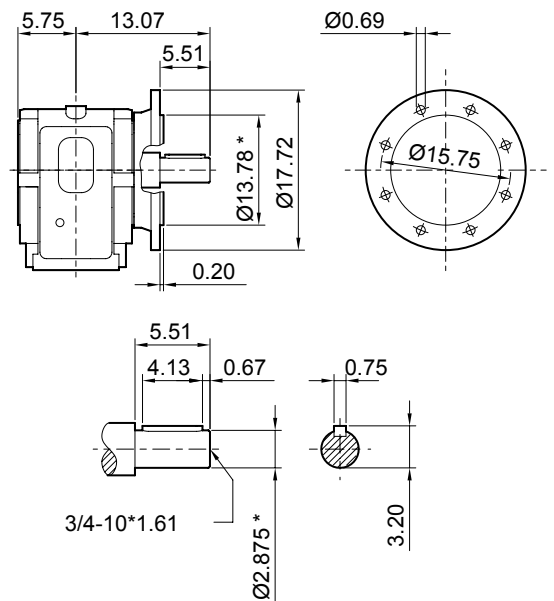
KAN97



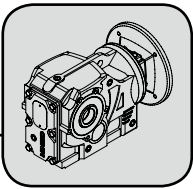
KMN97



KNN97

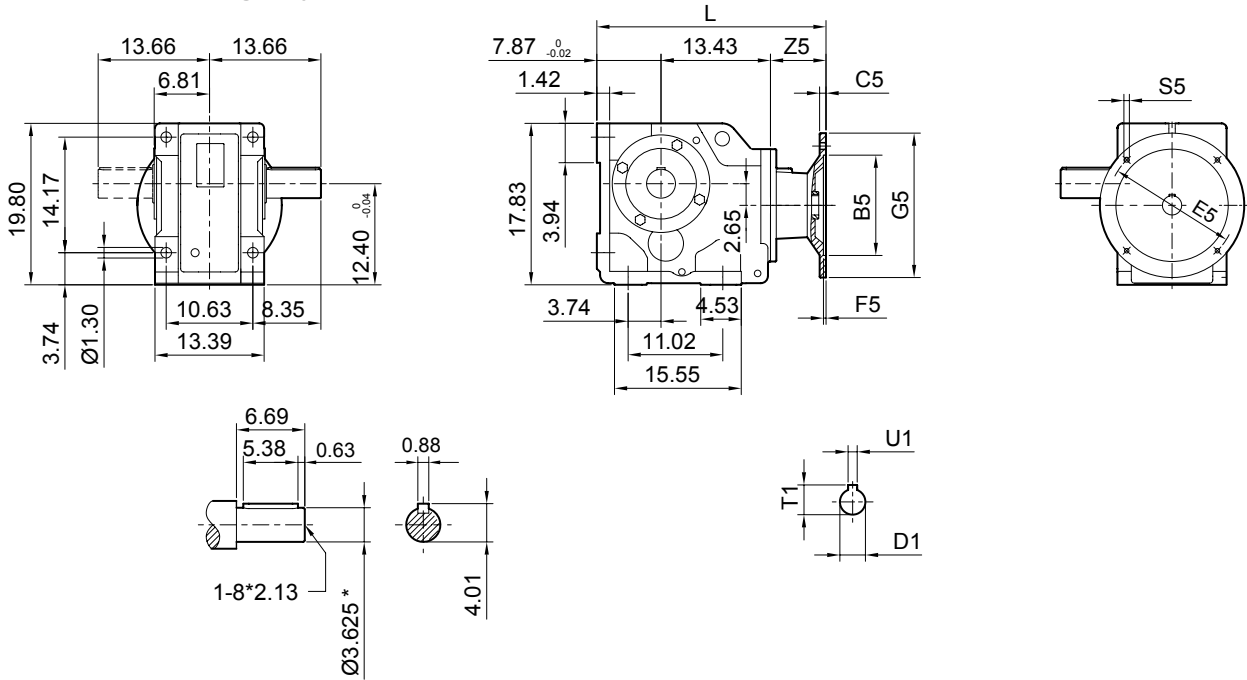


| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|-------|------|-------|------|-------|-------|------|------|-------|------|-------|
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 19.72 | 0.55 | 2.52 | 1.125 | 1.24 | 0.250 |
| AM213/215 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 21.83 | 0.55 | 4.63 | 1.375 | 1.52 | 0.312 |
| AM254/256 | 8.50 | 0.79 | 7.250 | 0.20 | 10.00 | 22.81 | 0.55 | 5.61 | 1.625 | 1.80 | 0.375 |
| AM284/286 | 10.50 | 0.79 | 9.000 | 0.20 | 11.26 | 23.17 | 0.59 | 5.96 | 1.875 | 2.10 | 0.500 |

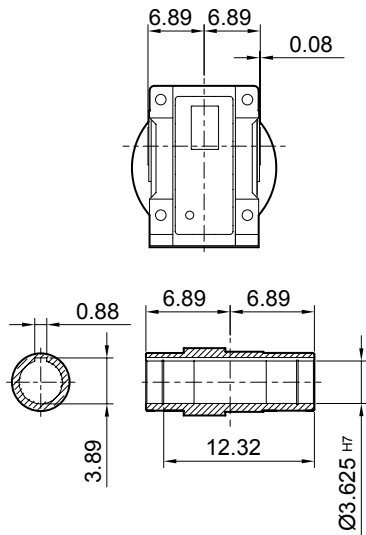


Helical-Bevel Gear Units
Dimension Sheets[inch]

KSN107



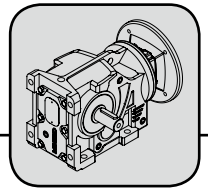
KHN107



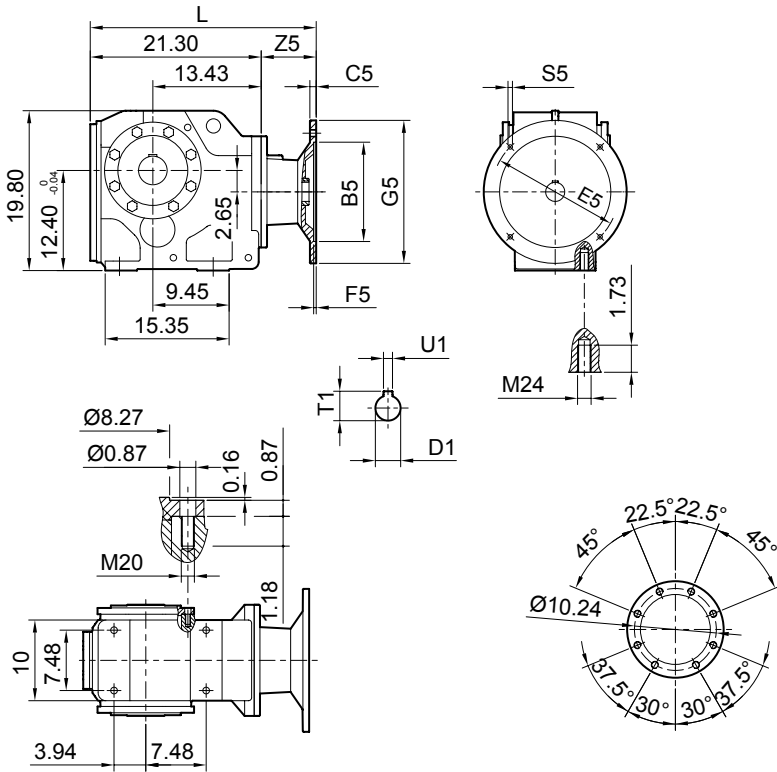
*Refer page16 for tolerance information.

For the dimension concerning the solid input shaft, please refer to the table shown at page56.

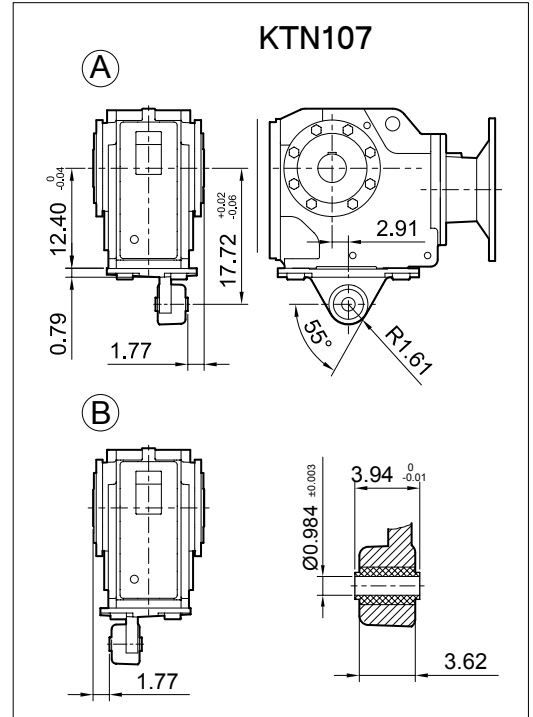
| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|-------|------|-------|------|-------|-------|------|------|-------|------|-------|
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 19.72 | 0.55 | 2.52 | 1.125 | 1.24 | 0.250 |
| AM213/215 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 21.83 | 0.55 | 4.25 | 1.375 | 1.52 | 0.312 |
| AM254/256 | 8.50 | 0.79 | 7.250 | 0.20 | 10.00 | 22.81 | 0.55 | 5.24 | 1.625 | 1.80 | 0.375 |
| AM284/286 | 10.50 | 0.79 | 9.000 | 0.20 | 11.26 | 23.17 | 0.59 | 5.59 | 1.875 | 2.10 | 0.500 |
| AM324/326 | 12.50 | 0.79 | 11.00 | 0.20 | 14.02 | 28.11 | 0.65 | 6.81 | 2.125 | 2.35 | 0.500 |



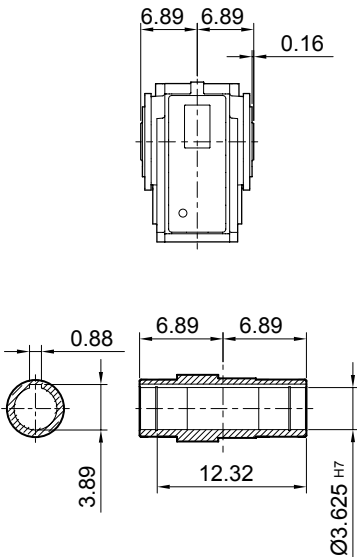
KAN107



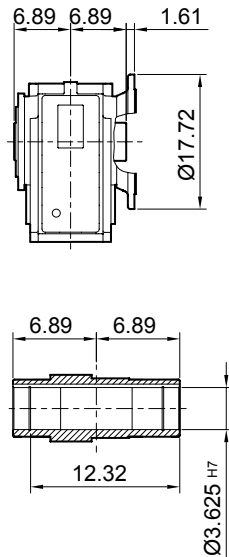
KTN107



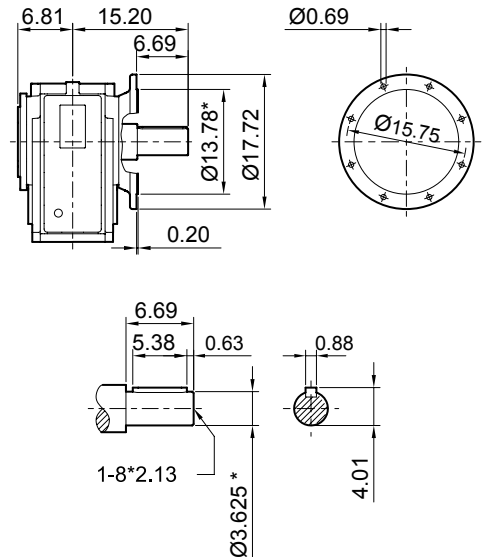
KAN107



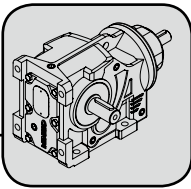
KMN107



KNN107



| | B5 | C5 | E5 | F5 | G5 | L | S5 | Z5 | D1 | T1 | U1 |
|-----------|-------|------|-------|------|-------|-------|------|------|-------|------|-------|
| AM182/184 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 19.72 | 0.55 | 2.52 | 1.125 | 1.24 | 0.250 |
| AM213/215 | 8.50 | 0.67 | 7.250 | 0.20 | 9.00 | 21.83 | 0.55 | 4.25 | 1.375 | 1.52 | 0.312 |
| AM254/256 | 8.50 | 0.79 | 7.250 | 0.20 | 10.00 | 22.81 | 0.55 | 5.24 | 1.625 | 1.80 | 0.375 |
| AM284/286 | 10.50 | 0.79 | 9.000 | 0.20 | 11.26 | 23.17 | 0.59 | 5.29 | 1.875 | 2.10 | 0.500 |
| AM324/326 | 12.50 | 0.79 | 11.00 | 0.20 | 14.02 | 28.11 | 0.65 | 6.81 | 2.125 | 2.35 | 0.500 |



Helical-Bevel Gear Units
Dimension Sheets[inch]

Solid Input Shaft

K..S

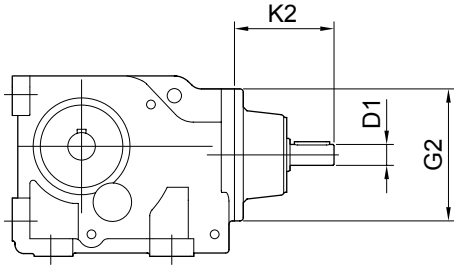


FIG 1

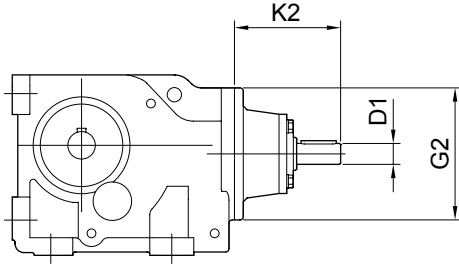
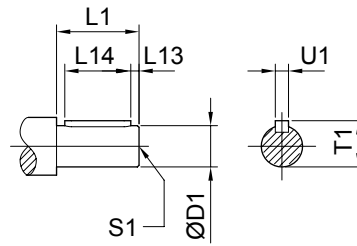
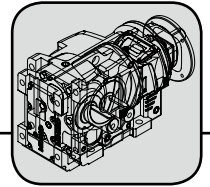


FIG 2

| | D1 | L1 | L13 | L14 | T1 | U1 | S1 | K2 | G2 | FIG |
|--------|-------|------|------|------|------|--------|--------------|------|-------|-----|
| K..37 | 0.625 | 1.57 | 0.25 | 1.26 | 0.7 | 0.1875 | 1/4-20*0.63 | 3.46 | 4.74 | 1 |
| | 0.750 | | | | 0.83 | | | 3.56 | | |
| K..47 | 0.750 | 1.57 | 0.25 | 1.26 | 0.83 | 0.1875 | 1/4-20*0.63 | 3.39 | 6.30 | 1 |
| | 0.875 | 1.97 | 0.29 | 1.57 | 0.96 | 0.1875 | 5/16-18*0.87 | 3.78 | 6.30 | 1 |
| K..57 | 0.750 | 1.57 | 0.25 | 1.26 | 0.83 | 0.1875 | 1/4-20*0.63 | 4.39 | 6.30 | 2 |
| | 0.875 | 1.97 | 0.29 | 1.57 | 0.96 | 0.1875 | 5/16-18*0.87 | 4.70 | 6.30 | 2 |
| K..67 | 0.750 | 1.57 | 0.25 | 1.26 | 0.83 | 0.1875 | 1/4-20*0.63 | 4.39 | 6.30 | 2 |
| | 0.875 | 1.97 | 0.29 | 1.57 | 0.96 | 0.1875 | 5/16-18*0.87 | 4.70 | 6.30 | 2 |
| K..77 | 0.750 | 1.57 | 0.25 | 1.26 | 0.83 | 0.1875 | 1/4-20*0.63 | 4.17 | 7.87 | 2 |
| | 0.875 | 1.97 | 0.29 | 1.57 | 0.96 | 0.1875 | 5/16-18*0.87 | 4.49 | 7.87 | 2 |
| | 1.375 | 3.14 | 0.35 | 2.76 | 1.51 | 0.3125 | 1/2-13*1.12 | 6.97 | 7.87 | 2 |
| K..87 | 0.750 | 1.57 | 0.25 | 1.26 | 0.83 | 0.1875 | 1/4-20*0.63 | 3.80 | 9.84 | 2 |
| | 1.125 | 2.36 | 0.32 | 1.97 | 1.24 | 0.2500 | 3/8-16*0.87 | 4.50 | 9.84 | 2 |
| | 1.375 | 3.14 | 0.35 | 2.76 | 1.51 | 0.3125 | 1/2-13*1.12 | 6.59 | 9.84 | 2 |
| | 1.625 | 4.33 | 0.58 | 2.76 | 1.79 | 0.3750 | 5/8-11*1.38 | 9.47 | 9.84 | 2 |
| K..97 | 1.125 | 2.36 | 0.32 | 1.97 | 1.24 | 0.2500 | 3/8-16*0.87 | 4.35 | 11.81 | 2 |
| | 1.375 | 3.14 | 0.35 | 2.76 | 1.51 | 0.3125 | 1/2-13*1.12 | 6.28 | 11.81 | 2 |
| | 1.625 | 4.33 | 0.58 | 2.76 | 1.79 | 0.3750 | 5/8-11*1.38 | 9.15 | 11.81 | 2 |
| | 1.875 | 4.33 | 0.64 | 3.15 | 2.09 | 0.5000 | 5/8-11*1.38 | 9.35 | 11.81 | 2 |
| K..107 | 1.125 | 2.36 | 0.32 | 1.97 | 1.24 | 0.2500 | 3/8-16*0.87 | 4.35 | 13.78 | 2 |
| | 1.375 | 3.14 | 0.35 | 2.76 | 1.51 | 0.3125 | 1/2-13*1.12 | 5.90 | 13.78 | 2 |
| | 1.625 | 4.33 | 0.58 | 2.76 | 1.79 | 0.3750 | 5/8-11*1.38 | 8.78 | 13.78 | 2 |
| | 1.875 | 4.33 | 0.64 | 3.15 | 2.09 | 0.5000 | 5/8-11*1.38 | 8.78 | 13.78 | 2 |



| K37 | | |
|-----------|-----------|-------|
| Ratio i | Input Dia | |
| 150.47 | 0.625 | |
| 134.96 | | |
| 116.28 | | |
| 106.21 | | |
| 92.84 | | |
| 83.69 | | |
| 75.58 | | |
| 67.80 | | |
| 59.67 | | |
| 49.51 | | |
| 44.46 | | |
| 37.97 | | 0.750 |
| 32.19 | | |
| 26.40 | | |
| 25.73 | | |
| 23.10 | | |
| 19.73 | | |
| 16.73 | | |
| 15.32 | | |
| 13.08 | | |
| 11.09 | | |
| 9.09 | | |
| 7.96 | | |
| 6.80 | | |
| 5.76 | | |
| 4.73 | | |

| K47 | | |
|-----------|-----------|-------|
| Ratio i | Input Dia | |
| 130.79 | 0.750 | |
| 116.81 | | |
| 108.86 | | |
| 96.90 | | |
| 86.89 | | |
| 76.33 | | |
| 71.78 | | |
| 58.99 | | |
| 53.29 | | |
| 47.08 | | |
| 41.36 | | |
| 38.89 | | 0.875 |
| 31.35 | | |
| 28.88 | | |
| 26.30 | | |
| 24.73 | | |
| 20.65 | | |
| 18.36 | | |
| 16.99 | | |
| 13.13 | | |
| 10.80 | | |
| 9.95 | | |
| 7.11 | | |
| 5.85 | | |

| K57 | | |
|-----------|-----------|-------|
| Ratio i | Input Dia | |
| 149.93 | 0.750 | |
| 130.88 | | |
| 118.43 | | |
| 108.29 | | |
| 95.70 | | |
| 84.31 | | |
| 69.12 | | |
| 65.13 | | |
| 56.22 | | |
| 47.35 | | |
| 44.43 | | |
| 41.71 | | 0.875 |
| 34.20 | | |
| 32.22 | | |
| 27.82 | | |
| 25.76 | | |
| 22.24 | | |
| 17.57 | | |
| 12.75 | | |
| 11.00 | | |
| 8.69 | | |

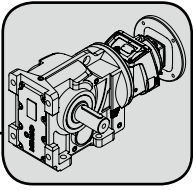
| K67 | | |
|-----------|-----------|-------|
| Ratio i | Input Dia | |
| 149.56 | 0.750 | |
| 130.56 | | |
| 118.14 | | |
| 108.03 | | |
| 95.46 | | |
| 84.10 | | |
| 68.95 | | |
| 64.97 | | |
| 56.09 | | |
| 46.33 | | |
| 44.32 | | |
| 37.98 | | 0.875 |
| 35.79 | | |
| 33.26 | | |
| 30.90 | | |
| 27.27 | | |
| 25.70 | | |
| 24.42 | | |
| 22.18 | | |
| 17.53 | | |
| 14.16 | | |
| 12.22 | | |
| 9.66 | | |

| K77 | | |
|-----------|-----------|-------|
| Ratio i | Input Dia | |
| 194.36 | 0.750 | |
| 180.17 | | |
| 160.76 | | |
| 144.13 | | |
| 122.94 | | |
| 109.30 | | |
| 100.66 | | |
| 90.08 | | |
| 78.07 | | |
| 64.06 | | 0.875 |
| 57.05 | | |
| 51.18 | | |
| 47.12 | | |
| 39.76 | | |
| 30.48 | | |
| 27.34 | | |
| 25.17 | | |
| 22.57 | | |
| 21.24 | | |
| 20.24 | | |
| 18.64 | 1.375 | |
| 15.73 | | |
| 12.06 | | |
| 10.81 | | |
| 9.96 | | |
| 8.40 | | |

| K87 | | |
|-----------|-----------|-------|
| Ratio i | Input Dia | |
| 214.50 | 0.750 | |
| 190.38 | | |
| 180.32 | | |
| 151.59 | | |
| 129.25 | | |
| 117.56 | | |
| 108.00 | | |
| 93.84 | | 1.125 |
| 82.86 | | |
| 72.35 | | |
| 61.42 | | |
| 53.63 | | |
| 50.45 | | |
| 43.31 | | |
| 39.60 | | |
| 32.41 | | |
| 28.30 | | |
| 26.63 | | |
| 22.86 | | |
| 20.90 | | |
| 15.66 | 1.625 | |
| 12.82 | | |
| 11.19 | | |
| 10.53 | | |
| 9.04 | | |
| 8.27 | | |

| K97 | | |
|-----------|-----------|-------|
| Ratio i | Input Dia | |
| 174.75 | 1.125 | |
| 154.10 | | |
| 140.71 | | |
| 119.87 | | |
| 112.43 | | |
| 101.37 | | |
| 89.79 | | 1.375 |
| 80.07 | | |
| 71.78 | | |
| 64.72 | | |
| 52.96 | | |
| 47.16 | | |
| 42.28 | | |
| 38.12 | | |
| 31.19 | | |
| 23.92 | | |
| 21.33 | | |
| 19.12 | | |
| 17.24 | | |
| 14.11 | 1.875 | |
| 12.56 | | |
| 11.26 | | |
| 10.16 | | |
| 8.31 | | |

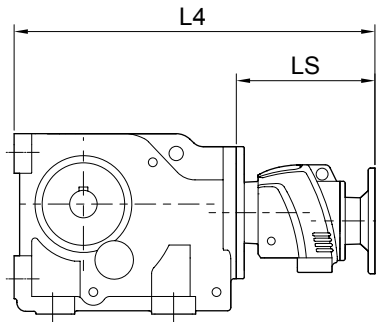
| K107 | | |
|-----------|-----------|-------|
| Ratio i | Input Dia | |
| 143.55 | 1.125 | |
| 121.95 | | |
| 107.04 | | |
| 100.47 | | |
| 95.48 | | |
| 90.70 | | |
| 82.38 | | 1.625 |
| 75.12 | | |
| 66.33 | | |
| 57.78 | | |
| 45.81 | | |
| 41.96 | | |
| 37.96 | | |
| 32.59 | | |
| 29.71 | | |
| 22.86 | | |
| 19.84 | | |
| 16.13 | | |
| 14.59 | | |
| 10.77 | 1.875 | |
| 8.67 | | |



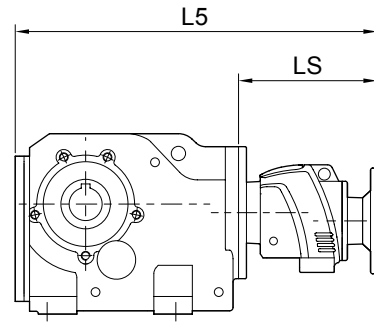
Helical-Bevel Gear Units
Dimension Sheets[inch]

Double Reduction Gear Unit

KLN/KRN



KEN/KFN/KPN



| | | LS | L4 | L5 |
|-----------|-------|-------|-------|-------|
| K..47R37 | AM56 | 8.93 | 18.27 | 18.35 |
| | AM143 | 9.33 | 18.66 | 18.74 |
| | AM145 | 9.33 | 18.66 | 18.74 |
| K..57R37 | AM56 | 8.86 | 18.82 | 19.00 |
| | AM143 | 9.25 | 19.21 | 19.39 |
| | AM145 | 9.25 | 19.21 | 19.39 |
| K..67R37 | AM56 | 8.86 | 19.45 | 19.60 |
| | AM143 | 9.25 | 19.84 | 20.00 |
| | AM145 | 9.25 | 19.84 | 20.00 |
| K..77R37 | AM56 | 8.64 | 21.00 | 21.46 |
| | AM143 | 9.04 | 21.40 | 21.85 |
| | AM145 | 9.04 | 21.40 | 21.85 |
| K..87R47 | AM56 | 9.82 | 25.14 | 25.18 |
| | AM143 | 10.22 | 25.53 | 25.57 |
| | AM145 | 10.22 | 25.53 | 25.57 |
| | AM182 | 10.94 | 26.26 | 26.30 |
| | AM184 | 10.94 | 26.26 | 26.30 |
| K..97R47 | AM56 | 9.50 | 26.71 | 27.19 |
| | AM143 | 9.90 | 27.10 | 27.57 |
| | AM145 | 9.90 | 27.10 | 27.57 |
| | AM182 | 10.63 | 27.83 | 28.30 |
| | AM184 | 10.63 | 27.83 | 28.30 |
| K..107R77 | AM56 | 11.75 | 33.05 | 33.05 |
| | AM143 | 11.75 | 33.05 | 33.05 |
| | AM145 | 11.75 | 33.05 | 33.05 |
| | AM182 | 12.48 | 33.78 | 33.78 |
| | AM184 | 12.48 | 33.78 | 33.78 |
| | AM213 | 14.74 | 36.04 | 36.04 |
| | AM215 | 14.74 | 36.04 | 36.04 |







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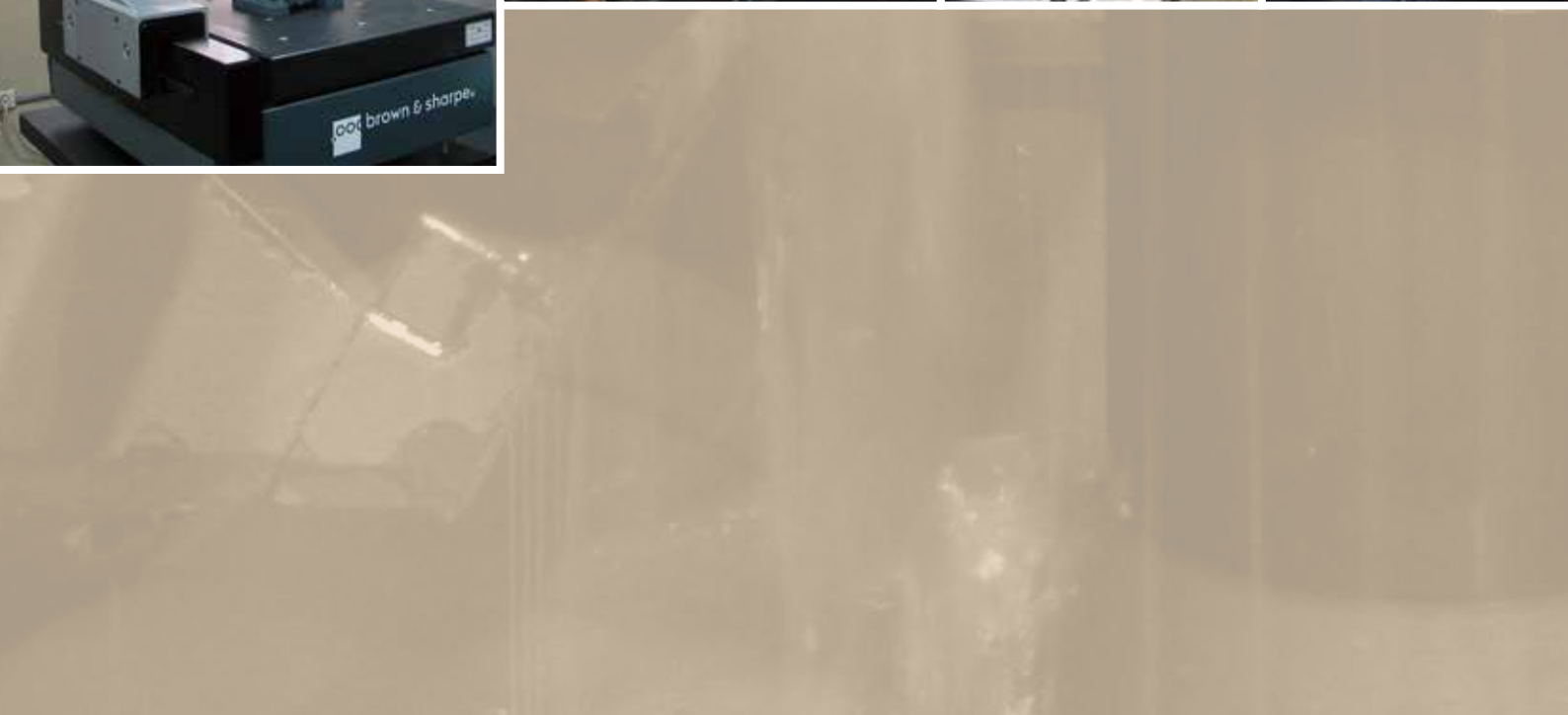


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