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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.

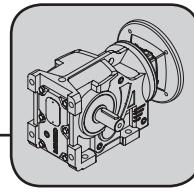
1. Oil level and quality lubricant is key point of daily maintenance. Please refer to our suggestion to change the lubricant periodically according to operation frequency site situation.
2. Check the alignment of coupling, the tightness of chain, and nuts and keep the reducer away from excessive dust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

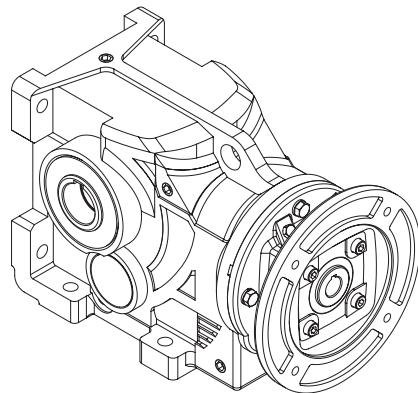
1

CAUSE	REASON	IMPROVEMENT
I. Overheat	1. Overload 2. Lubricant oil overfill or shortage 3. Improper lubricant oil 4. Extra friction on oil seal(lack of lubricant)	1. Adjust to proper loading 2. Add lubricant to the level of oil gauge 3. Change proper lubricant oil 4. Lip lubricant at oil seal
II. Noise	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	1. { Repair gears; Replace bearing 2. { Replace bearing; Fill in lubricant oil 3. { Remove debris & replace lubricant oil: Replace bearing
III. Vibration	1. Gear wear 2. Debris inside 3. Bearing worn-out or damaged 4. Bolt loose	1. Replace gear 2. Remove debris & replace lubricant oil 3. Replace bearing 4. Tighten bolt
IV. Oil Leakage	1. Oil seal damage 2. Gasket damage 3. Loose drain plug 4. Loose covers or flange	1. Replace oil seal 2. Replace gasket 3. Tighten drain plug 4. Tighten the bolts
V. Input and Output Shaft Fail	1. Gear-bound caused by overheat 2. Bearing damage 3. Debris between gears	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	1. Gear wear 2. Damage to key connecting gear and output shaft 3. Input shaft rupture 4. Output shaft rupture	1. Replace gears 2. Replace key 3. Replace input shaft 4. Replace output shaft
VII. Gear Worn-out	1. Overload 2. Improper lubricant oil 3. Lubricant oil shortage 4. Excessive ambient temperature	1. Adjust to proper loading 2. Change proper lubricant oil 3. Refill lubricant oil 4. Ventilation improvement

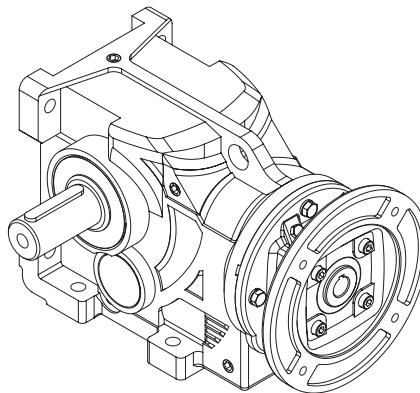


2.1 Variants

Input Flange

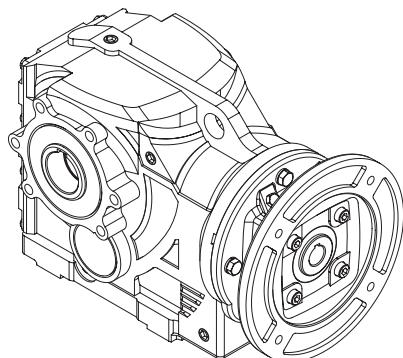


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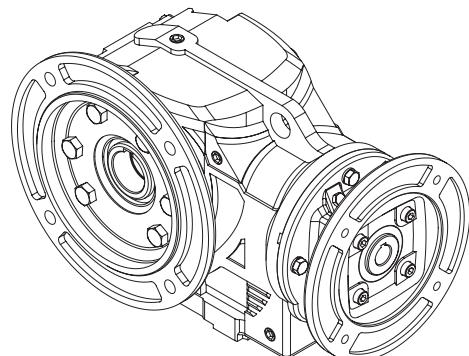


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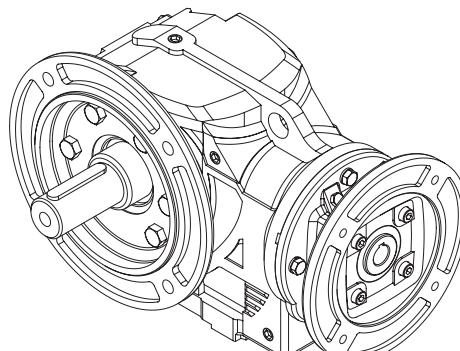
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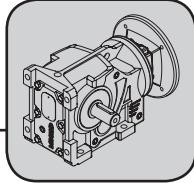
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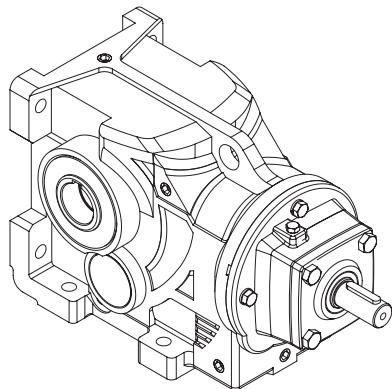
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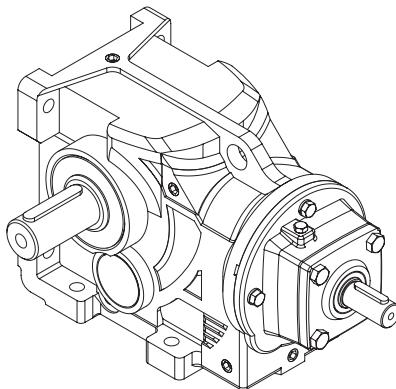
Helical-Bevel Gear Units

Type Introduction

Solid Input Shaft

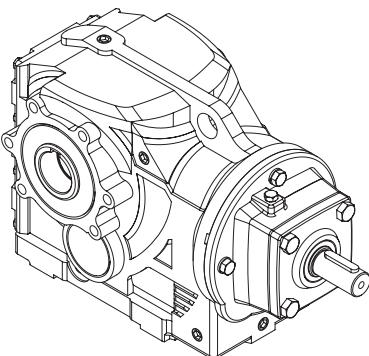


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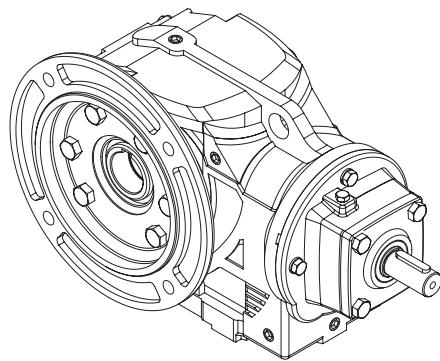


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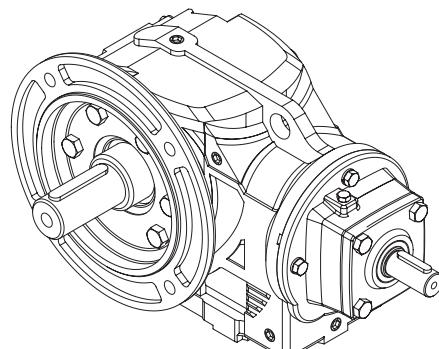
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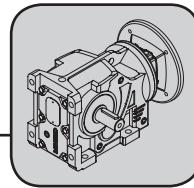
KAS...



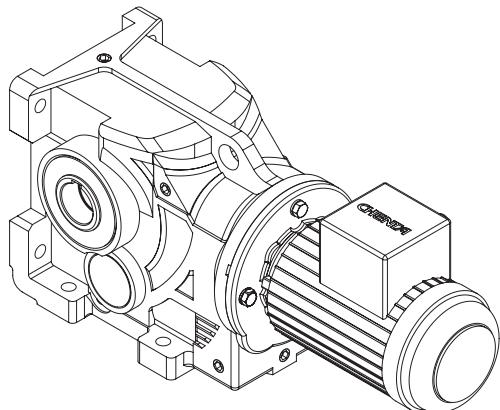
KMS...



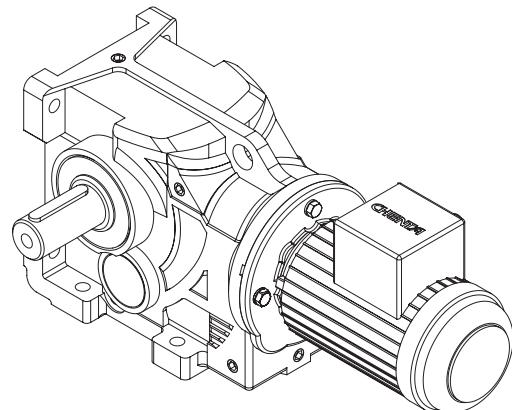
KNS...



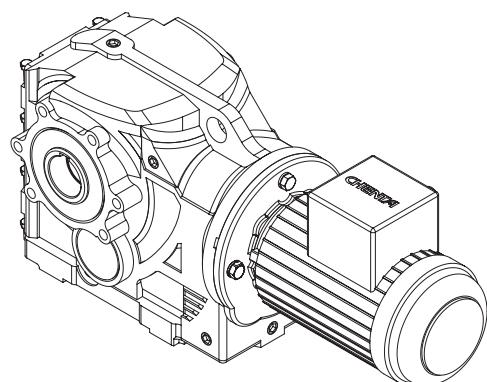
Couple with Motor



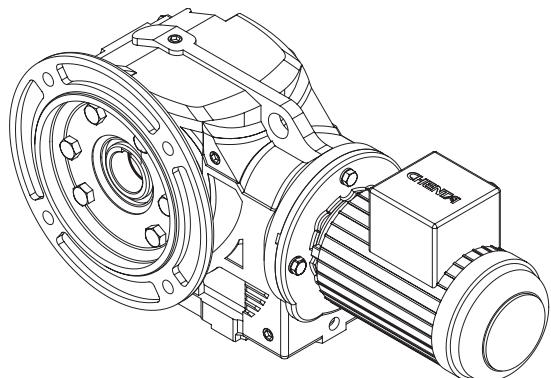
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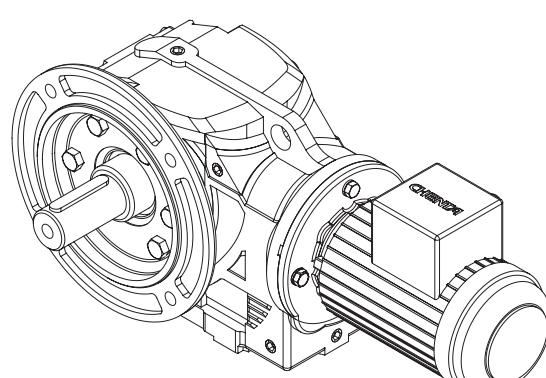
KSM...



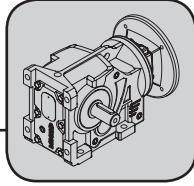
KAM...



KMM...



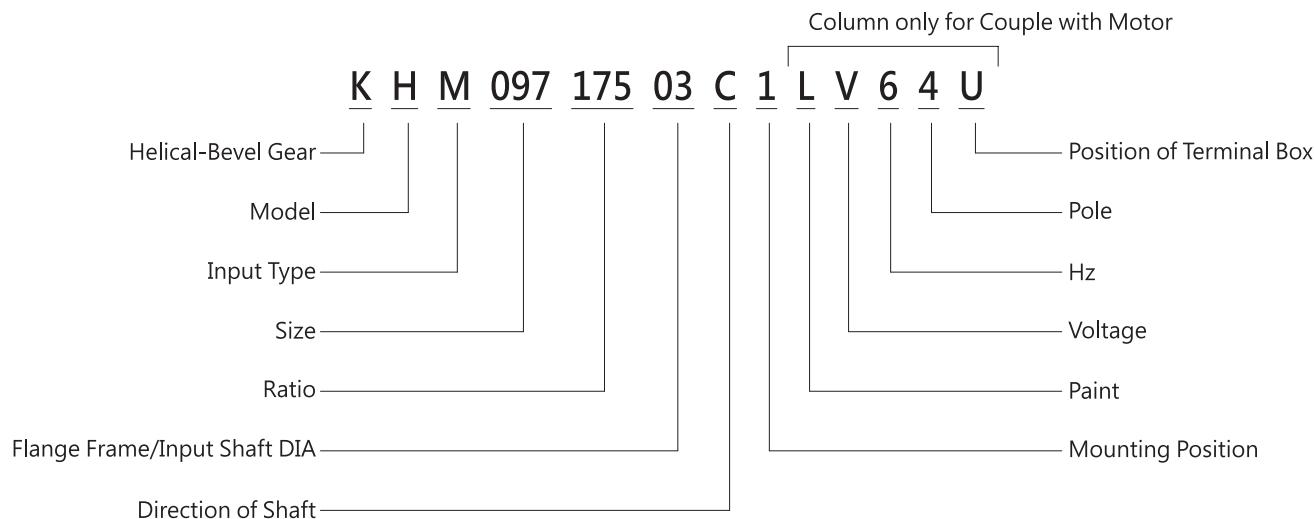
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Helical-Bevel Gear Units

Order Code for Helical Bevel Unit

2.2 Order Code



2

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

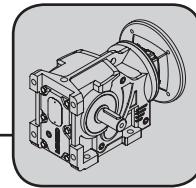
- 5 : 50Hz
- 6 : 60Hz

Pole

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

Position of Terminal Box

- U, D, L, R

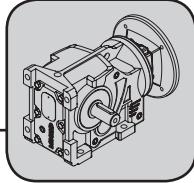


2.3 Selection Table Example

Gear Unit Information

Available C-Face Adapters and Ratings

K37					AM56			AM143			AM145			
Ratio <i>i</i>	Output Speed <i>n_a</i> rmp	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.									
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			

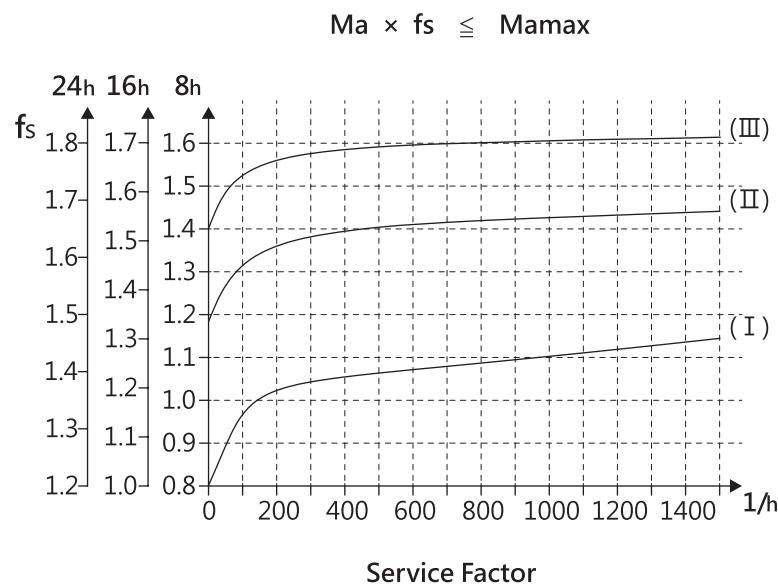


Helical-Bevel Gear Units

Determining the Service Factor

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.



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

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

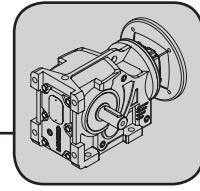
[All exterior moments of inertia] - recalculated to motor speed, formula

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

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



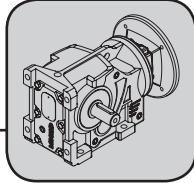
Calculation of service factor

$$fs = \frac{M_{max}}{Ma}$$

M_{max} : the maximum permitted continuous torque
Ma : 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 $fs=1.51$ from the fs chart; according to selection tables, we will know to select the gear unit with $fs \geq 1.51$.



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

2

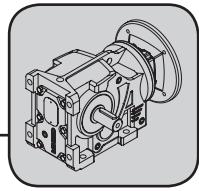
Hollow Shaft Diameter inch		Tolerance inch
over	to	
0.500	0.875	.+.0007 / -.0.0
0.875	1.9375	.+.0010 / -.0.0
1.9375	2.9375	.+.0011 / -.0.0
2.9375	4.000	.+.0013 / -.0.0
4.000	4.500	.+.0018 / -.0.0

Output flanges

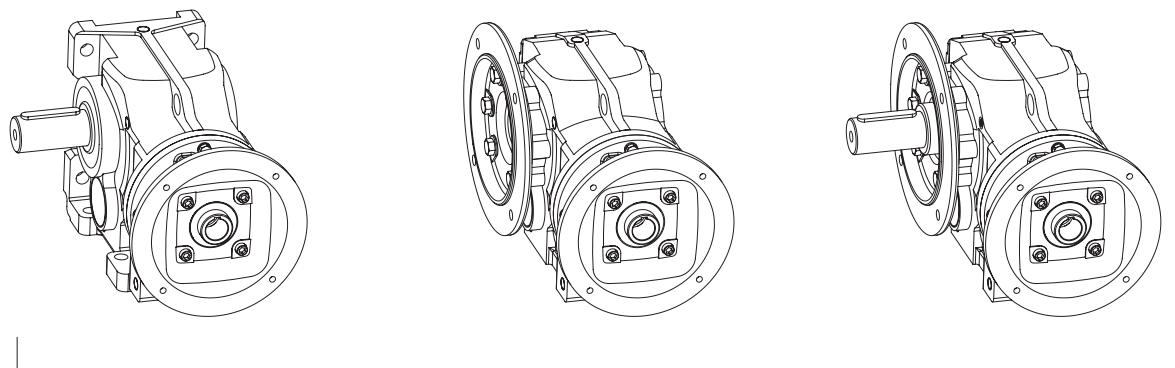
Diameter inch		Flange Centering Shoulder Dimension Tolerance inch	
over	to	ISO j6	ISO h6
3.15	4.72	.+.0005 / -.00035	—
4.72	7.08	.+.0005 / -.0004	—
7.08	9.84	.+.0005 / -.0005	—
9.84	12.4	—	.+.0 / -.0013
12.4	15.74	—	.+.0 / -.0014
15.74	19.68	—	.+.0 / -.0020

Helical-Bevel Gear Units

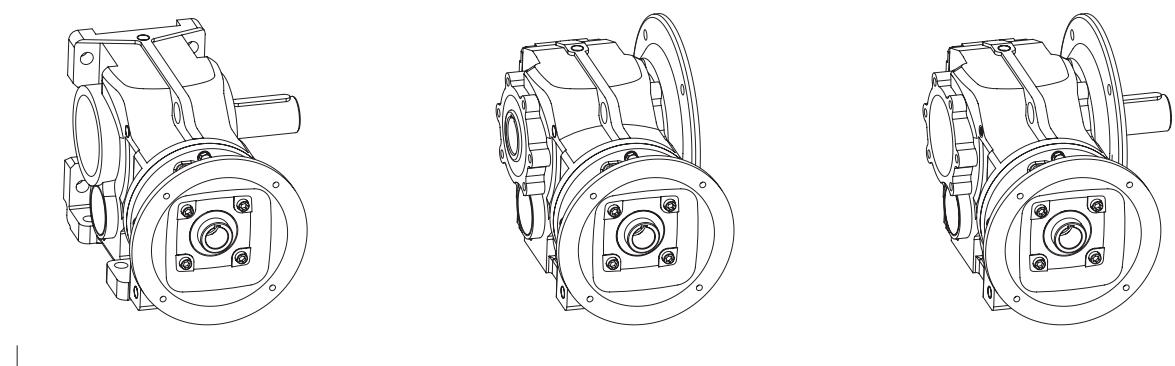
Direction of Shaft



2.6 Direction of Shaft

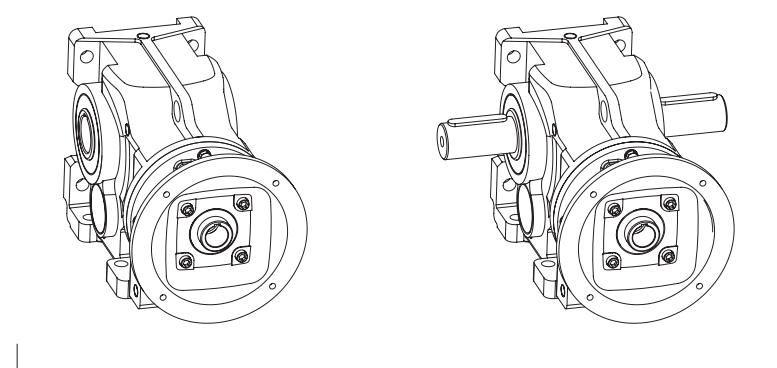


A

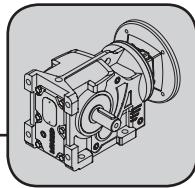


2

B



C



Helical-Bevel Gear Units

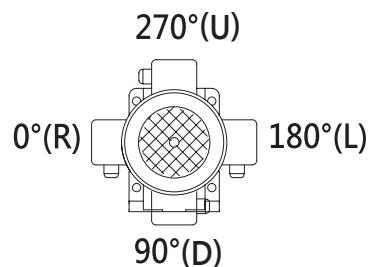
Mounting Positions

2.7 Mounting Positions

KS../KH..37-107

Position of Terminal Box

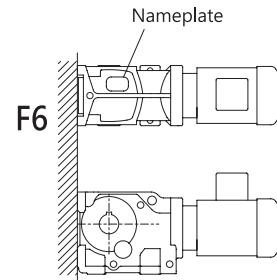
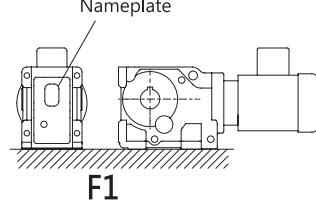
Standard position "U", unless specific requirements



Mounting Surface

Standard mounting surface F1, unless specific requirements

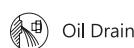
The position of plug and nameplate might vary depending on the mounting surface



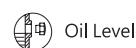
2



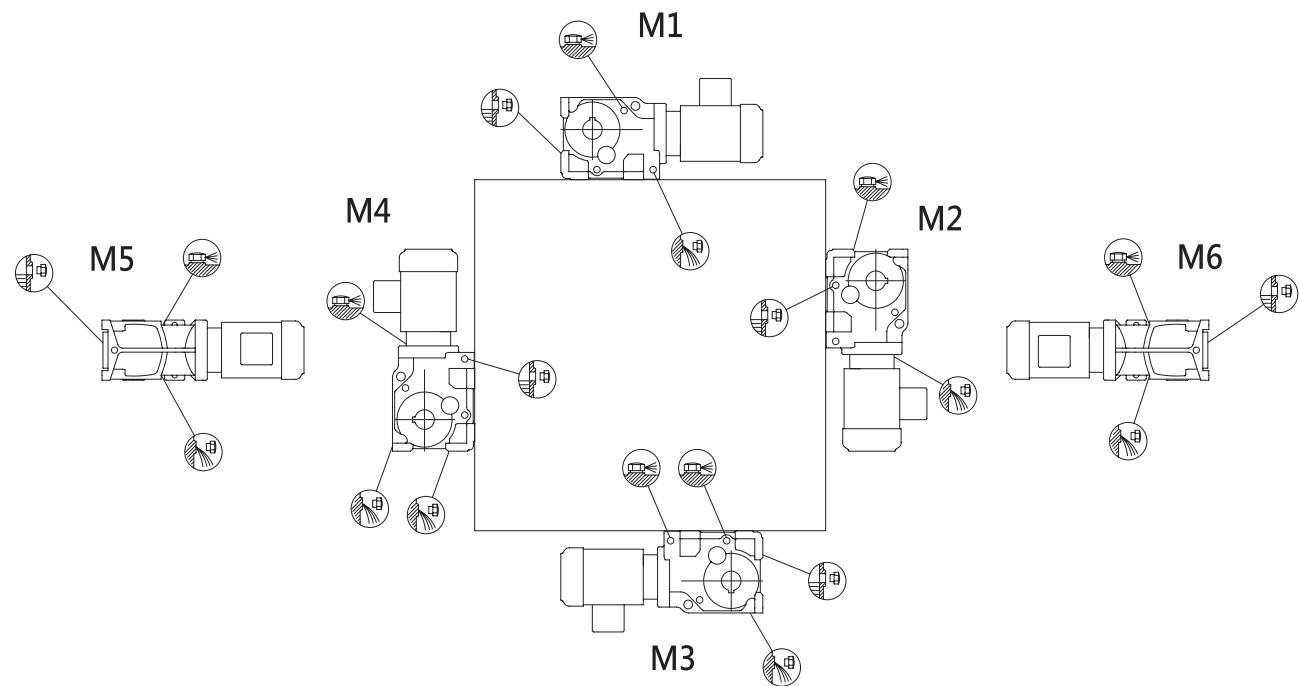
Breather



Oil Drain

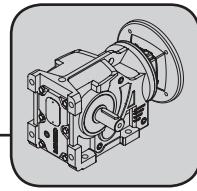


Oil Level



Helical-Bevel Gear Units

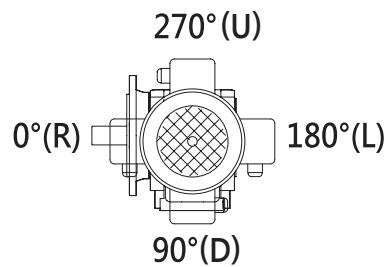
Mounting positions



KA../KN../KM../KT..37-107

Position of Terminal Box

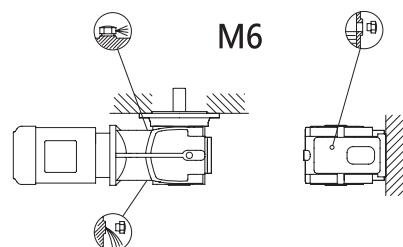
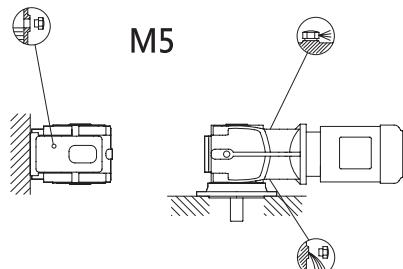
Standard position "U", unless specific requirements



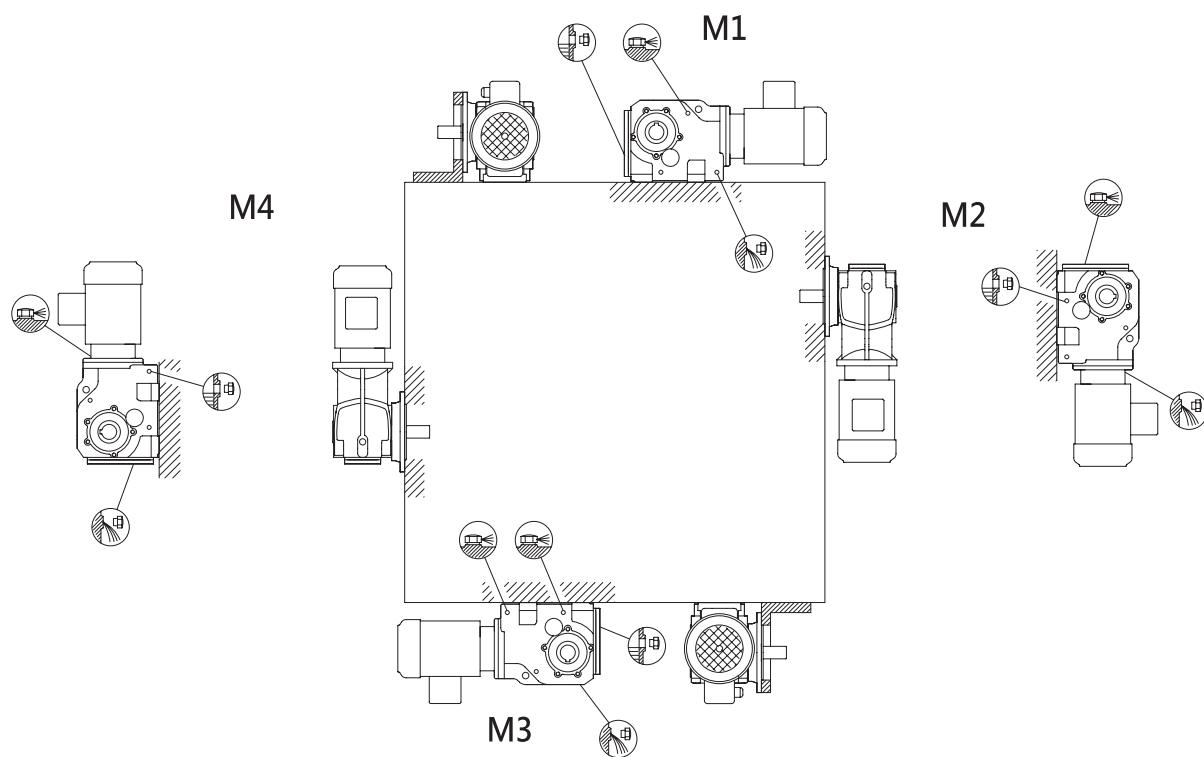
Breather

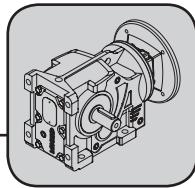
Oil Drain

Oil Level



2





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

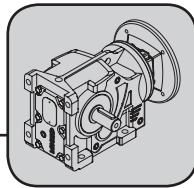
output RPM<100RPM, please use CPC HD-320 E.P. lubricant or equivalent

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



CHENDA



Helical-Bevel Gear Units

Selection Table

1750 Input Rpm

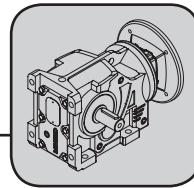
3.1 Selection Tables

K37						AM56			AM143			AM145		
Ratio <i>i</i>	Output Speed <i>n_a</i> rpm	Input Power <i>P_e_{max}</i> HP	Output Torque <i>T_a_{max}</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.									
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

1750 Input Rpm

Helical-Bevel Gear Units

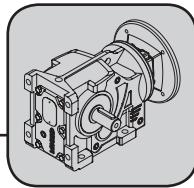
Selection Table



K47						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.									
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

K47						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
				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 <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
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

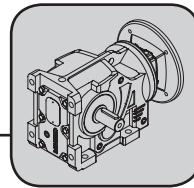
K57						AM182			AM184		
Ratio <i>i</i>	Output Speed <i>n_a</i> rpm	Input Power <i>P_emax</i> HP	Output Torque <i>T_amax</i> lb-in	Stages		Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb	Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb
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

Helical-Bevel Gear Units

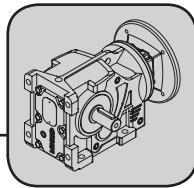
Selection Table



K67						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
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

K67						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
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

	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
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	-									

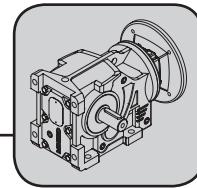
K77						AM184			AM213			AM215		
Ratio <i>i</i>	Output Speed <i>n_a</i> rmprpm	Input Power <i>P_emax</i> HP	Output Torque <i>T_amax</i> lb-in	Stages		Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb	Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <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
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

Helical-Bevel Gear Units

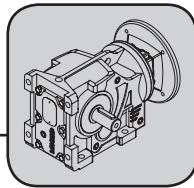
Selection Table



K87						AM143			AM145			AM182			AM184		
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	Output Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb
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	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	Output Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb
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 <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
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 -												

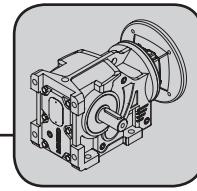
K97					AM254			AM256			AM284			AM286		
Ratio <i>i</i>	Output Speed <i>n_a</i> rpm	Input Power <i>P_emax</i> HP	Output Torque <i>T_amax</i> lb-in	Stages	Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb	Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output 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
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

	Standard
	Contact with salespeople
	Not available

1750 Input Rpm

Helical-Bevel Gear Units

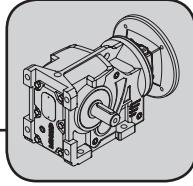
Selection Table



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
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
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
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

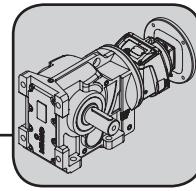
K107						AM326		
Ratio <i>i</i>	Output Speed <i>n_a</i> rpm	Input Power <i>P_emax</i> HP	Output Torque <i>T_amax</i> lb-in	Stages		Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb
22.86	77	80.69	60185	3	-	50	37788	7220
19.84	88	90.22	58415	3	-	50	32801	7130
16.13	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

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

1750 Input Rpm

Helical-Bevel Gear Units

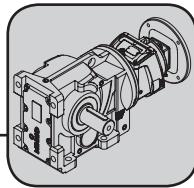
Selection Table



3.2 Selection Table (Double Reduction)

K47+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.									
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

	Standard
	Contact with salespeople
	Not available



Helical-Bevel Gear Units

Selection Table

1750 Input Rpm

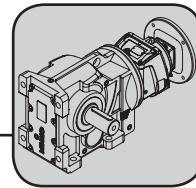
K57+R37						AM56			AM143			AM145		
Ratio <i>i</i>	Output Speed <i>n_a</i> rpm	Input Power <i>P_emax</i> HP	Output Torque <i>T_amax</i> lb-in	Stages		Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb	Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <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
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

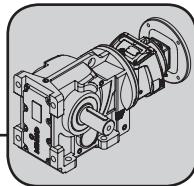
Helical-Bevel Gear Units

Selection Table



K67+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
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
 Contact with salespeople
 Not available



Helical-Bevel Gear Units

Selection Table

1750 Input Rpm

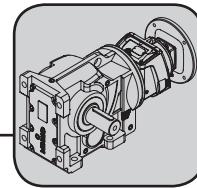
K77+R37						AM56			AM143			AM145		
Ratio <i>i</i>	Output Speed <i>n_a</i> rpm	Input Power <i>P_emax</i> HP	Output Torque <i>T_amax</i> lb-in	Stages		Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb	Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <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
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

	Standard
	Contact with salespeople
	Not available

1750 Input Rpm

Helical-Bevel Gear Units

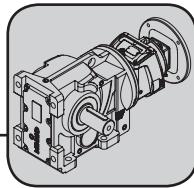
Selection Table



K87+R47						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
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_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
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

Standard
Contact with salespeople
Not available



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_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
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									

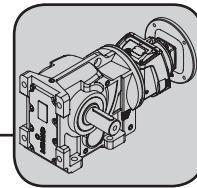
K97+R47						AM182			AM184		
Ratio <i>i</i>	Output Speed <i>n_a</i> rpm	Input Power <i>P_emax</i> HP	Output Torque <i>T_amax</i> lb-in	Stages		Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb	Input Power <i>P_e</i> HP	Output Torque <i>T_a</i> lb-in	Output OHL <i>F_{Ra}</i> lb
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

Helical-Bevel Gear Units

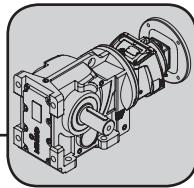
Selection Table



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
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

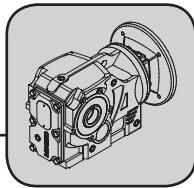
K107+R77						AM182			AM184			AM213		
Ratio <i>i</i>	Output Speed n _a rpm	Input Power P _{e,max} HP	Output Torque T _{a,max} lb-in	Stages		Input Power P _e HP	Output Torque T _a lb-in	Output OHL F _{Ra} lb	Input Power P _e HP	Output Torque T _a lb-in	Output OHL F _{Ra} lb	Input Power P _e HP	Output Torque T _a lb-in	Output OHL F _{Ra} lb
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 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
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



CHENDA

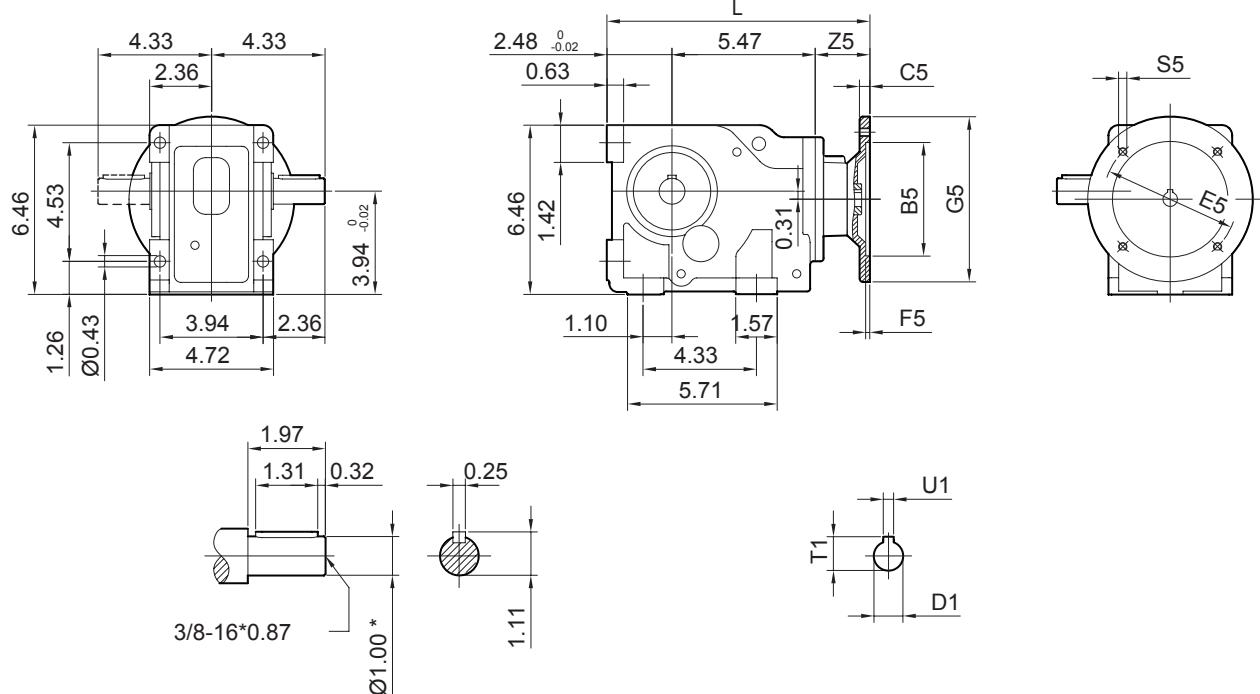


Helical-Bevel Gear Units

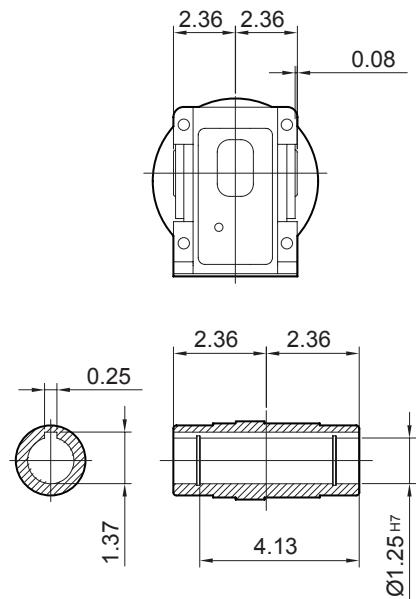
Dimension Sheets[inch]

3.3 Dimension Sheets

KSN37



KHN37



3

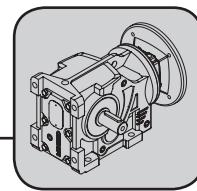
*Refer page16 for tolerance information.

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

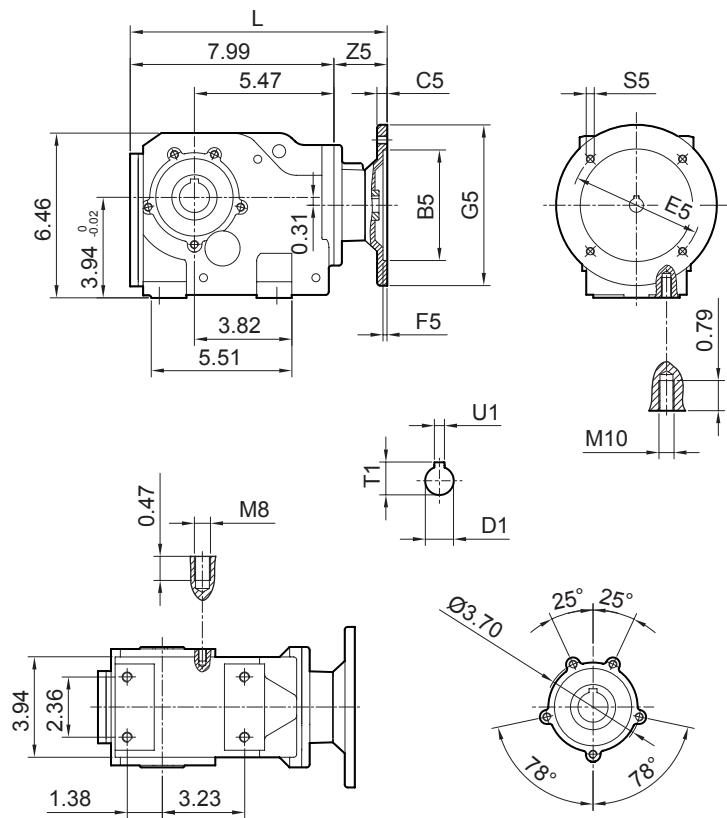
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM56	4.50	0.39	5.875	0.16	6.50	10.35	0.41	2.40	0.625	0.71	0.188
AM143/145	4.50	0.47	5.875	0.20	6.50	10.75	0.41	2.80	0.875	0.97	0.188

Helical-Bevel Gear Units

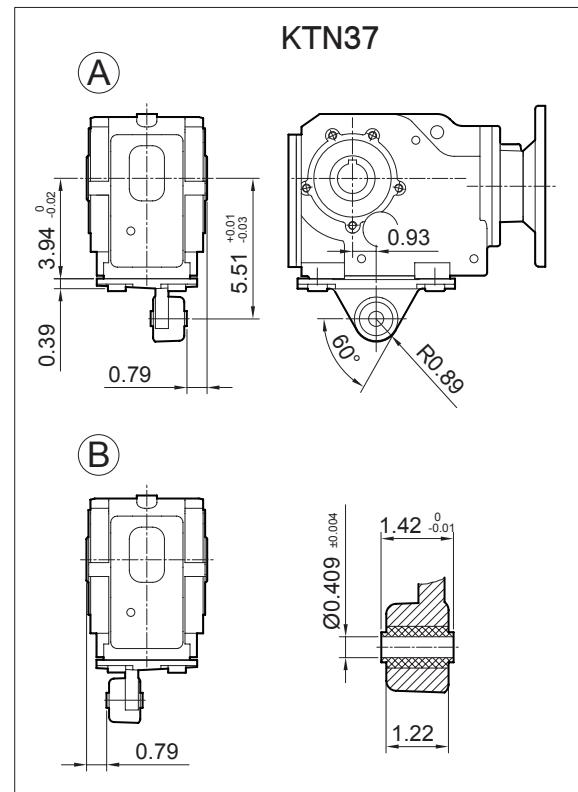
Dimension Sheets [inch]



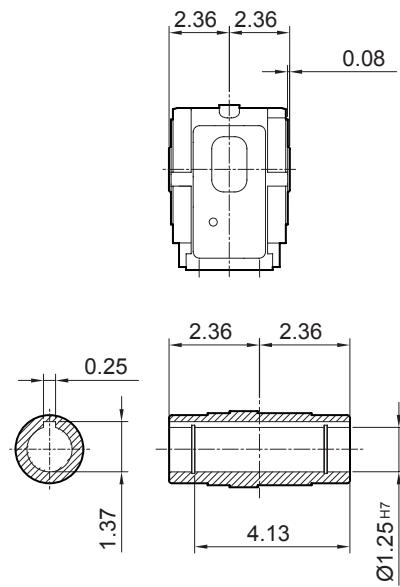
KAN37



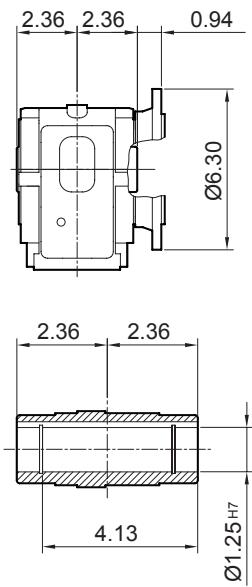
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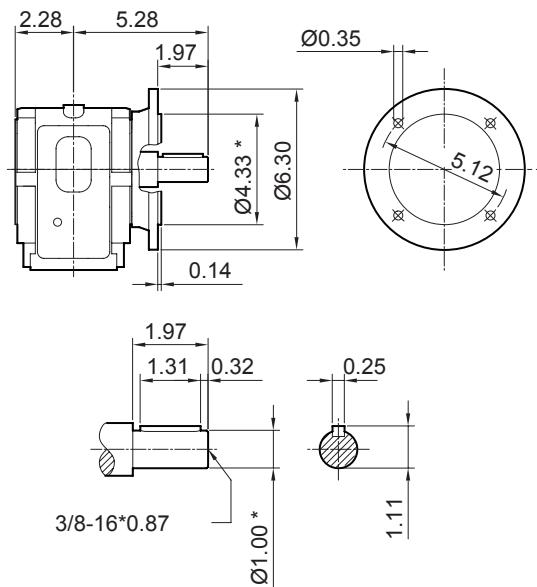
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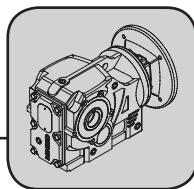
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KNN37



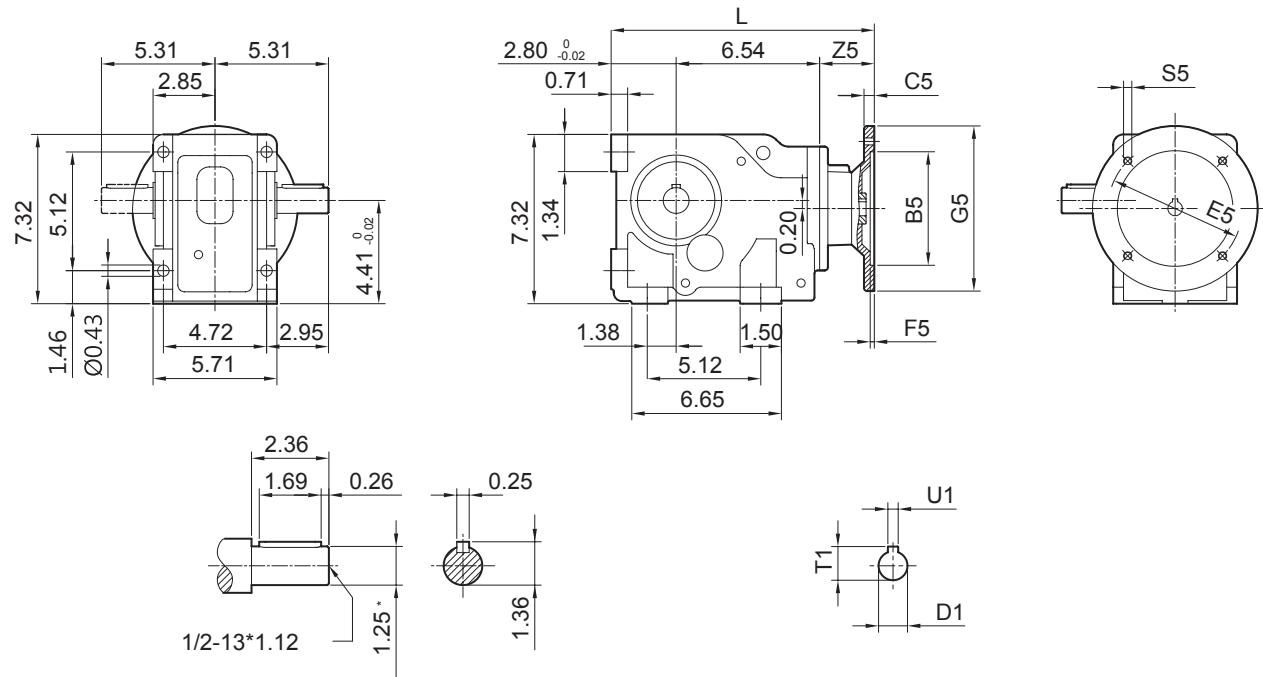
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM56	4.50	0.39	5.875	0.16	6.50	10.35	0.41	2.40	0.625	0.71	0.188
AM143/145	4.50	0.47	5.875	0.20	6.50	10.75	0.41	2.80	0.875	0.97	0.188



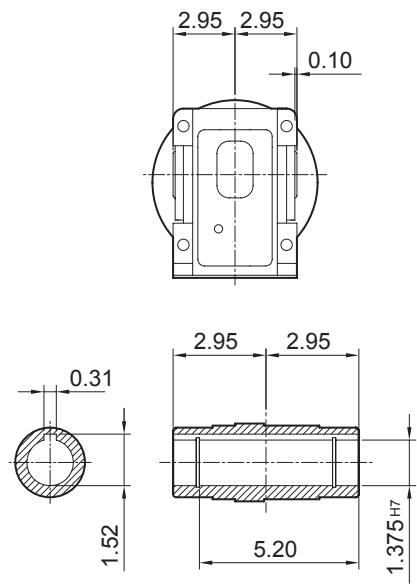
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN47



KHN47



3

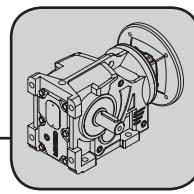
*Refer page 16 for tolerance information.

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

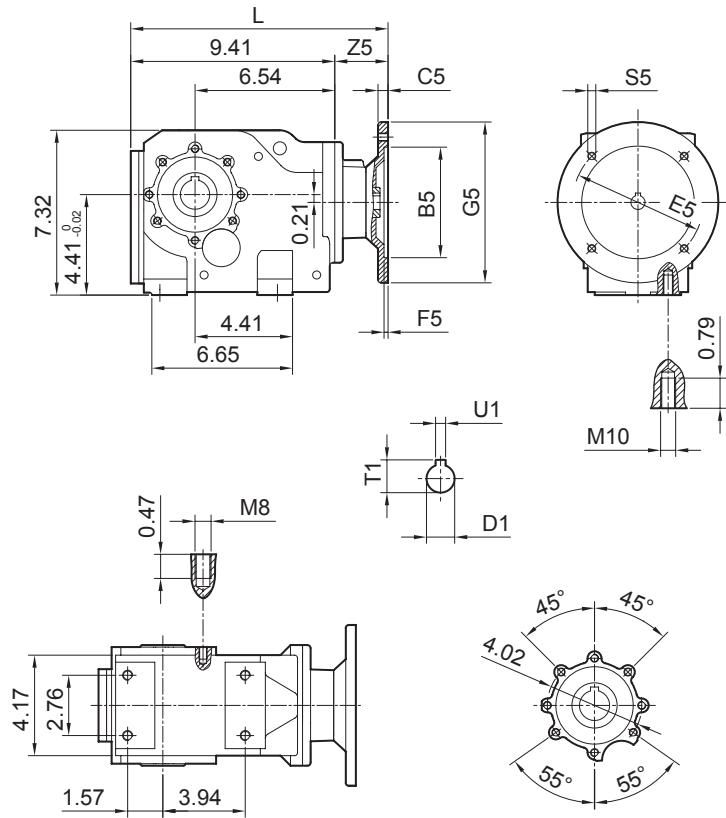
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM56	4.50	0.39	5.875	0.16	6.50	10.35	0.41	2.40	0.625	0.71	0.188
AM143/145	4.50	0.47	5.875	0.20	6.50	10.75	0.41	2.80	0.875	0.97	0.188
AM182/184	8.50	0.67	7.250	0.20	9.00	12.68	0.55	3.35	1.125	1.24	0.250

Helical-Bevel Gear Units

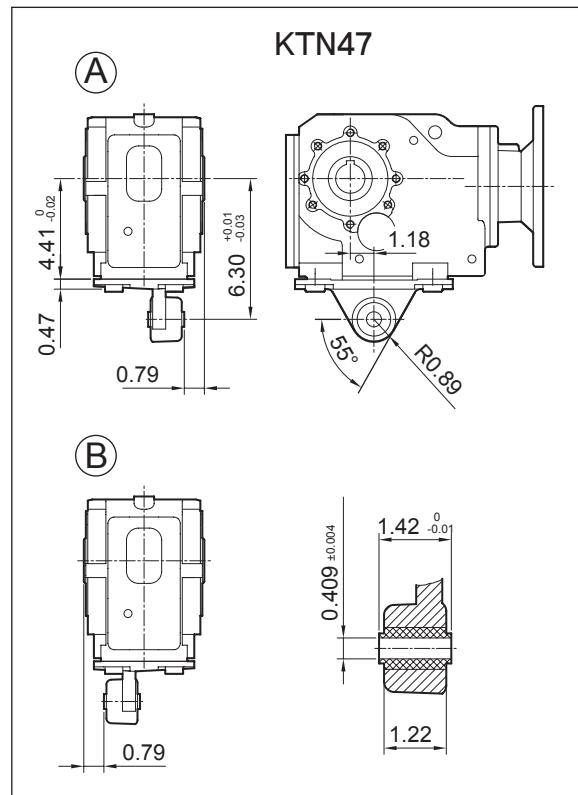
Dimension Sheets [inch]



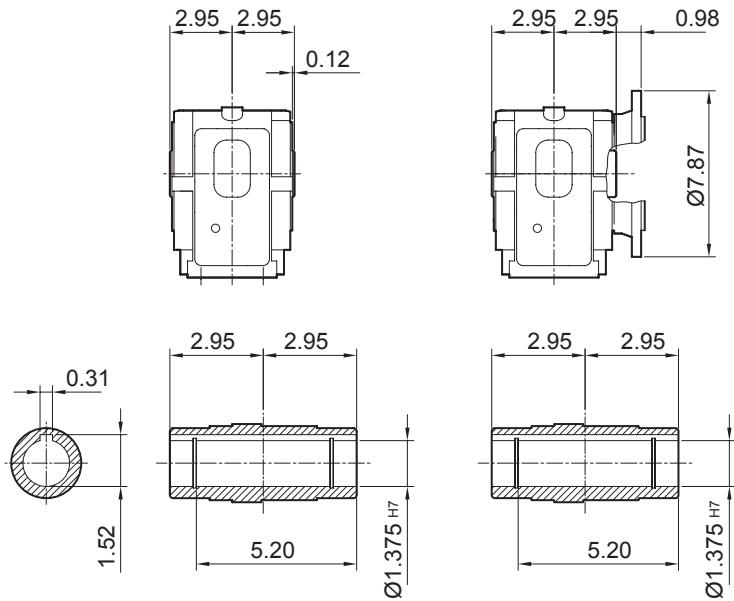
KAN47



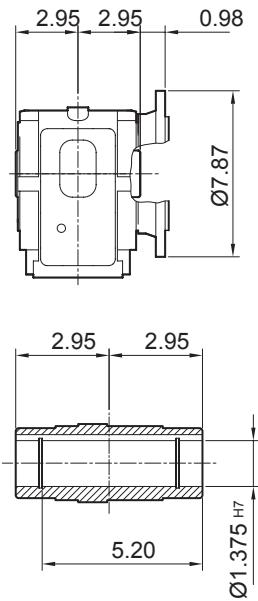
KTN47



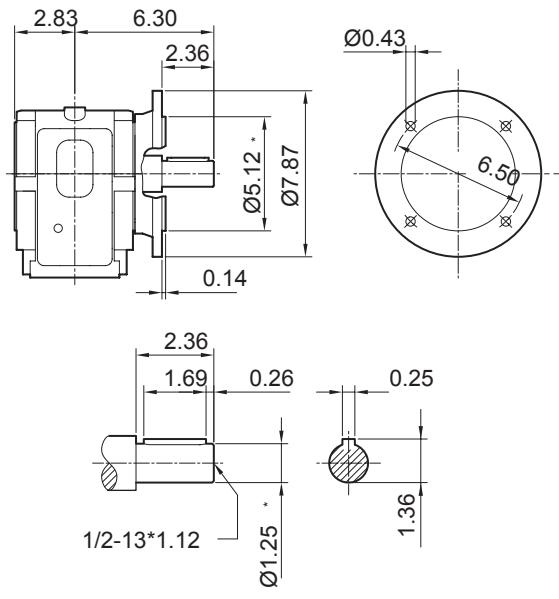
KAN47



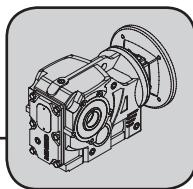
KMN47



KNN47



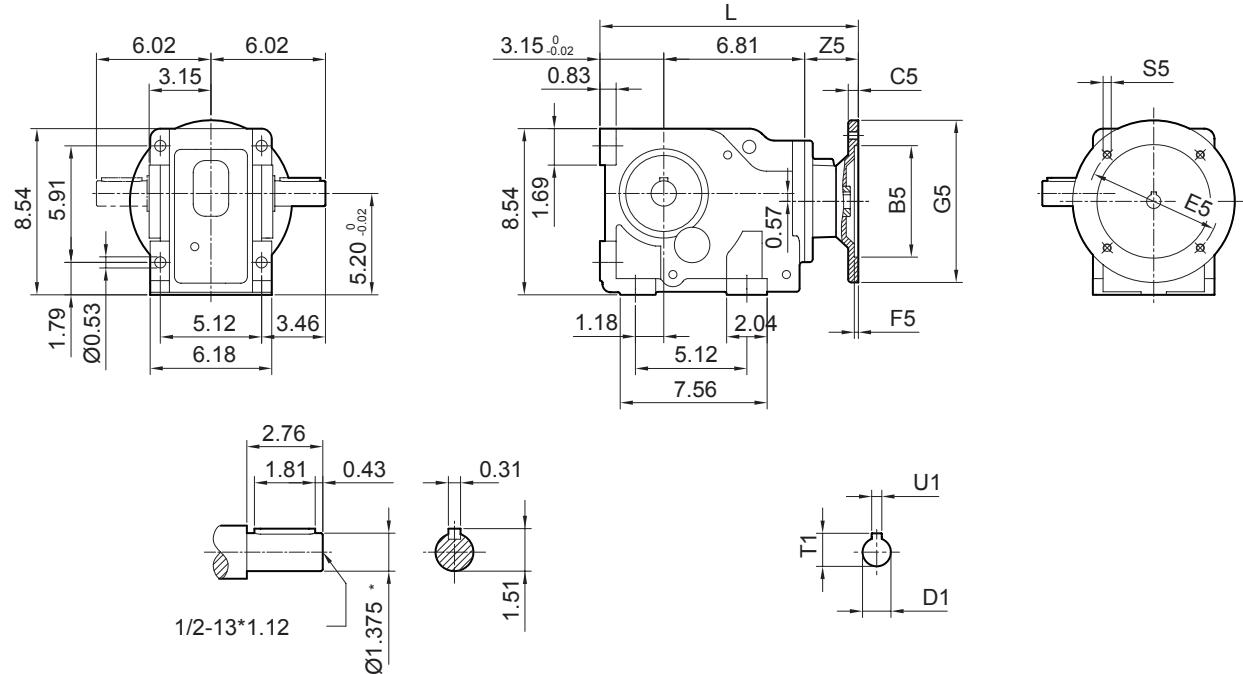
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM56	4.50	0.39	5.875	0.16	6.50	10.35	0.41	2.40	0.625	0.71	0.188
AM143/145	4.50	0.47	5.875	0.20	6.50	10.75	0.41	2.80	0.875	0.97	0.188
AM182/184	8.50	0.67	7.250	0.20	9.00	12.68	0.55	3.35	1.125	1.24	0.250



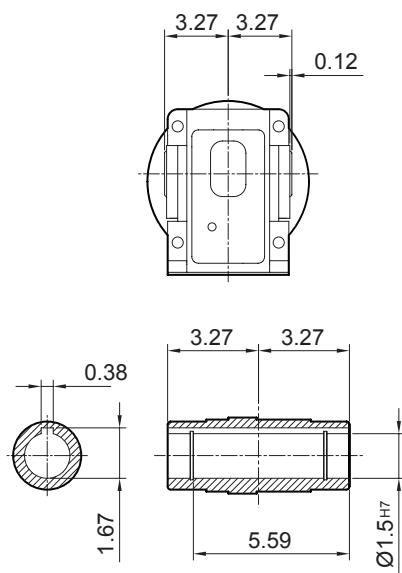
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN57



KHN57



3

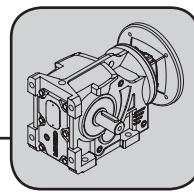
*Refer page16 for tolerance information.

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

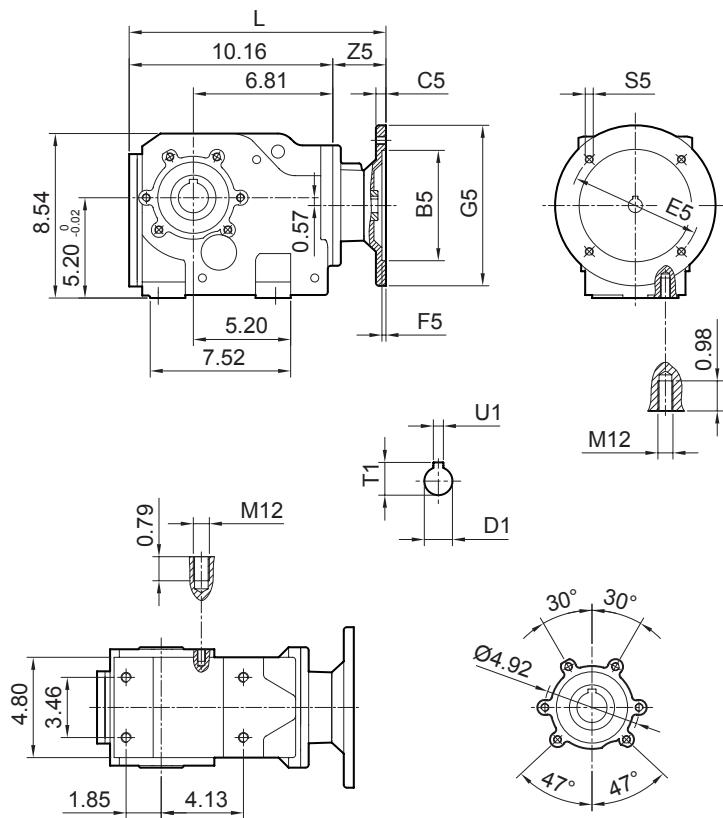
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM56	4.50	0.39	5.875	0.16	6.50	12.11	0.41	2.15	0.625	0.71	0.188
AM143/145	4.50	0.47	5.875	0.20	6.50	12.50	0.41	2.54	0.875	0.96	0.188
AM182/184	8.50	0.67	7.250	0.20	9.00	13.23	0.55	3.27	1.125	1.24	0.250

Helical-Bevel Gear Units

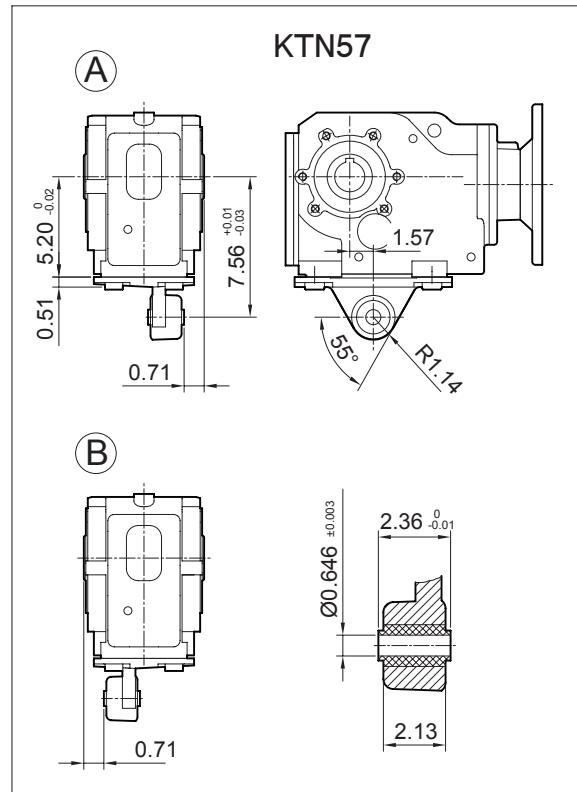
Dimension Sheets [inch]



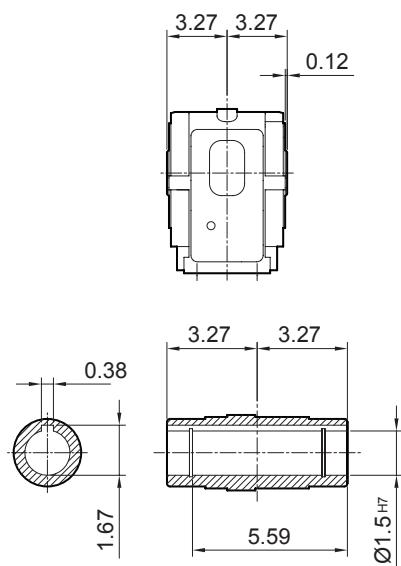
KAN57



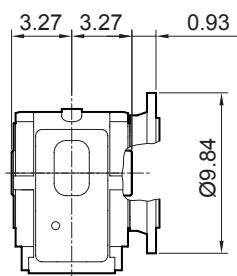
KTN57



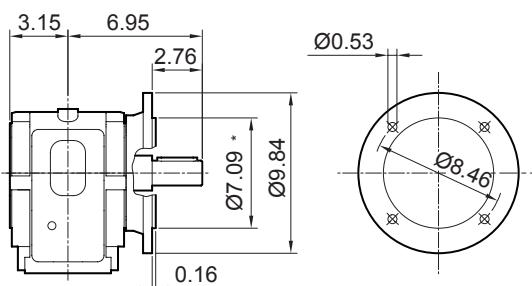
KAN57



KMN57

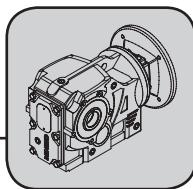


KNN57



3

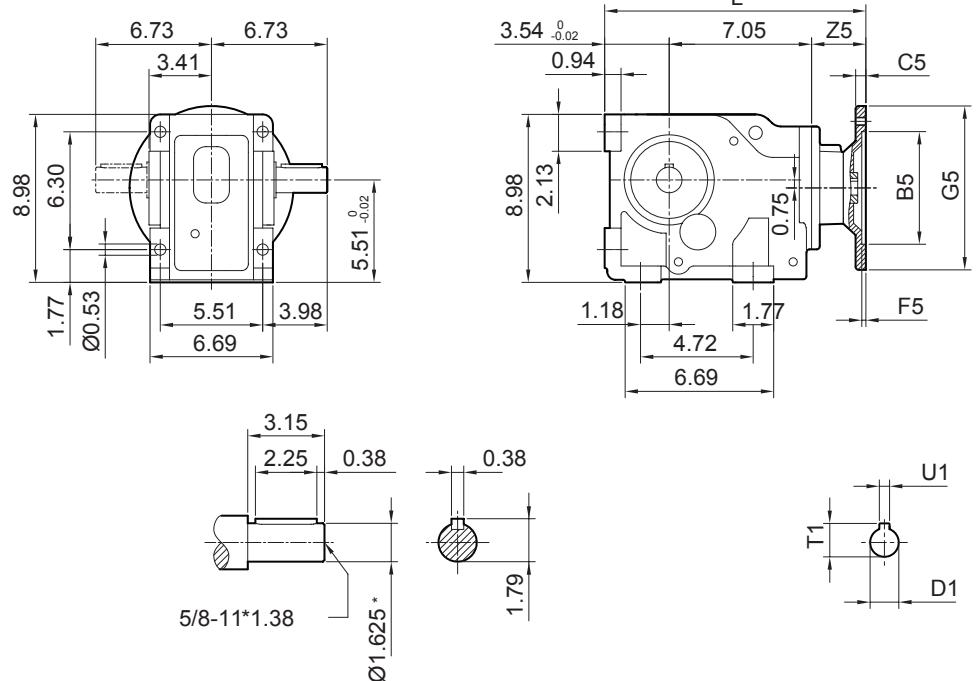
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM56	4.50	0.39	5.875	0.16	6.50	12.11	0.41	2.15	0.625	0.71	0.188
AM143/145	4.50	0.47	5.875	0.20	6.50	12.50	0.41	2.54	0.875	0.96	0.188
AM182/184	8.50	0.67	7.250	0.20	9.00	13.23	0.55	3.27	1.125	1.24	0.250



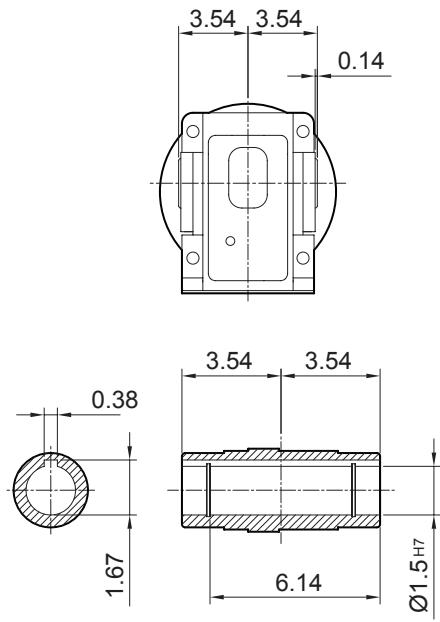
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN67



KHN67



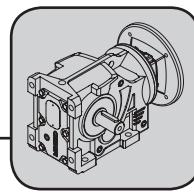
*Refer page16 for tolerance information.

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

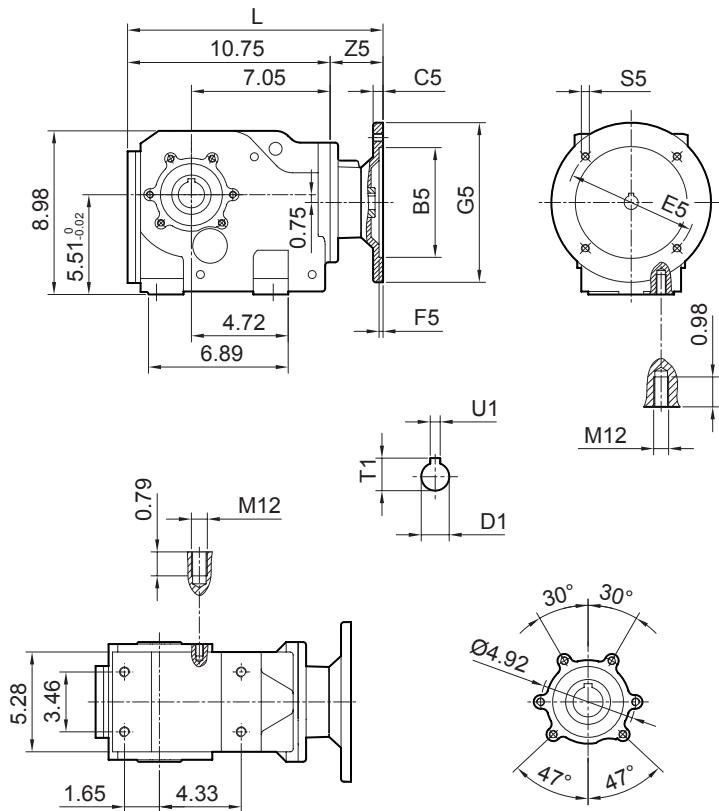
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM56	4.50	0.39	5.875	0.16	6.50	12.74	0.41	2.15	0.625	0.71	0.188
AM143/145	4.50	0.47	5.875	0.20	6.50	13.13	0.41	2.54	0.875	0.96	0.188
AM182/184	8.50	0.67	7.250	0.20	9.00	13.23	0.55	3.27	1.125	1.24	0.250

Helical-Bevel Gear Units

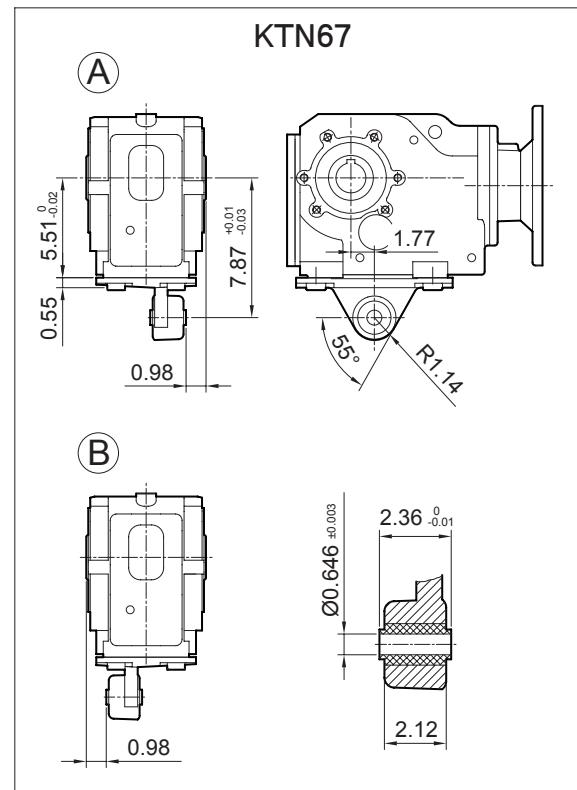
Dimension Sheets [inch]



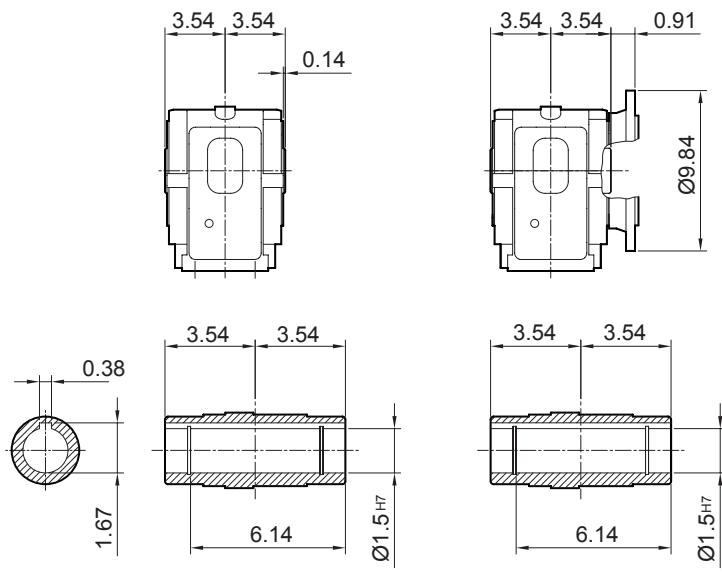
KAN67



KTN67

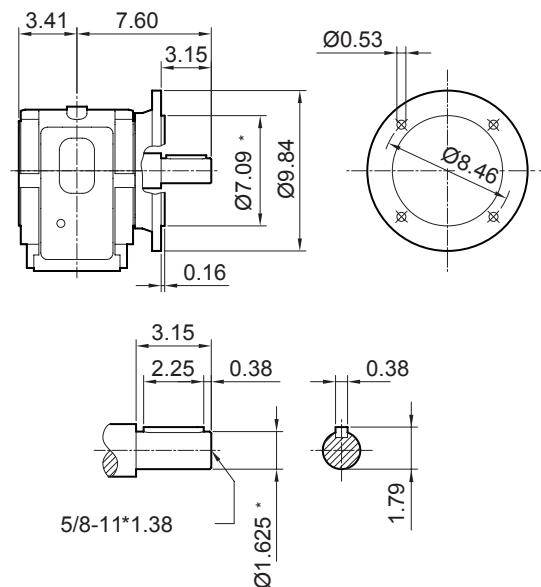


KAN67



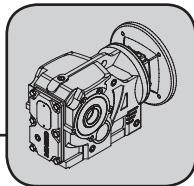
KMN67

KNN67



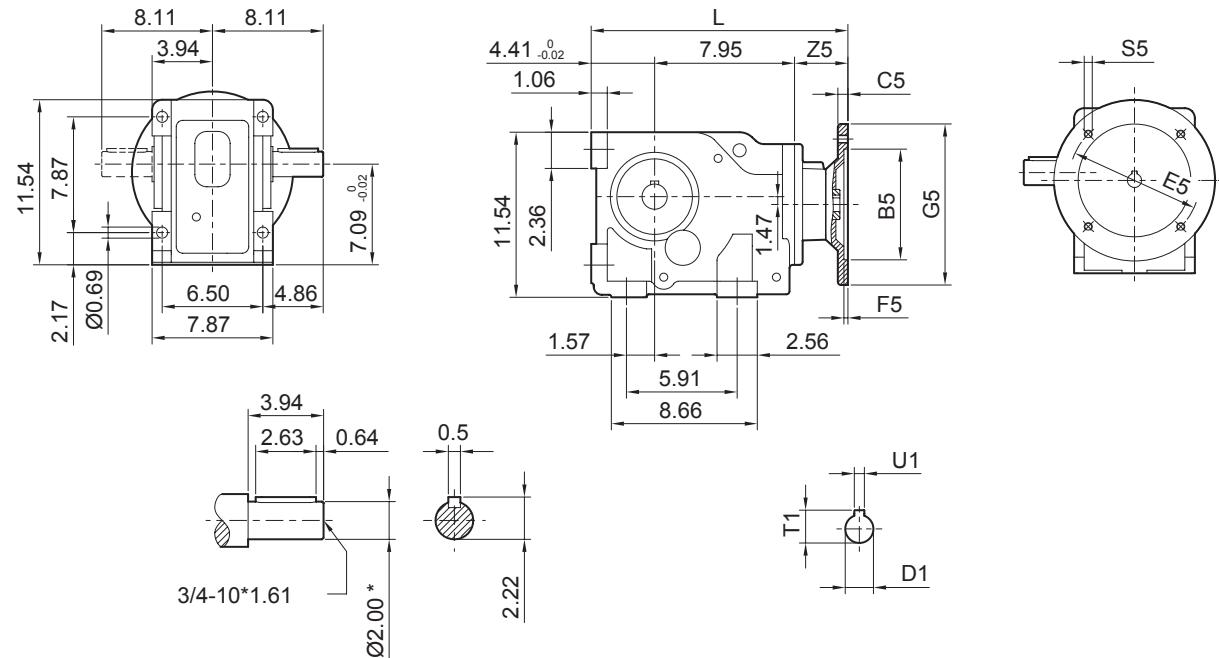
3

	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

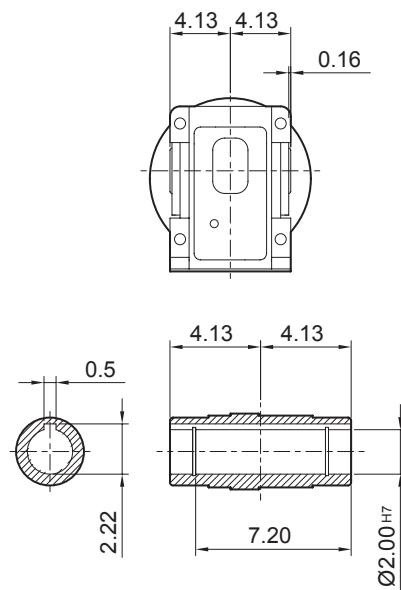


Helical-Bevel Gear Units
Dimension Sheets[inch]

KSN77



KHN77



3

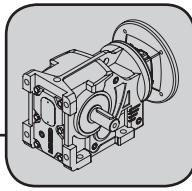
*Refer page16 for tolerance information.

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

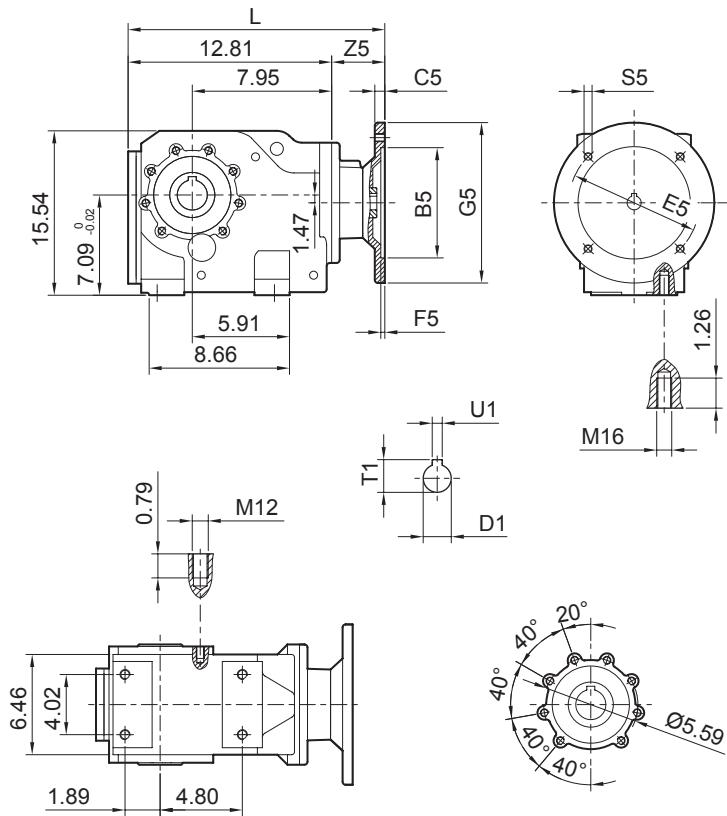
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM143/145	4.50	0.39	5.875	0.16	6.50	14.69	0.41	2.32	0.875	0.96	0.188
AM182/184	8.50	0.67	7.250	0.20	9.00	15.41	0.55	3.05	1.125	1.24	0.250
AM213/215	8.50	0.67	7.250	0.20	9.00	17.68	0.55	5.31	1.375	1.52	0.312

Helical-Bevel Gear Units

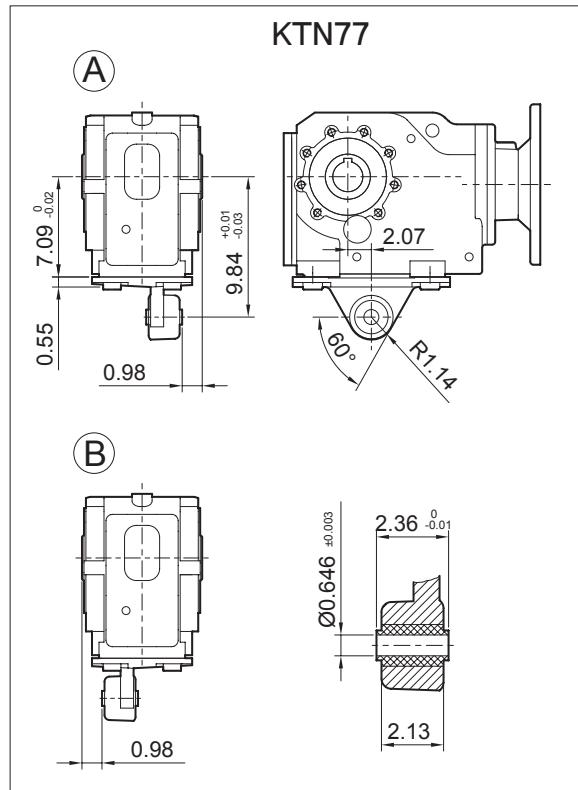
Dimension Sheets[inch]



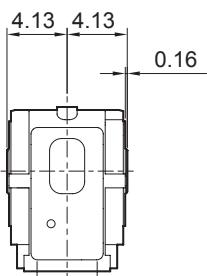
KAN77



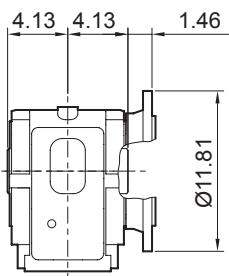
KTN77



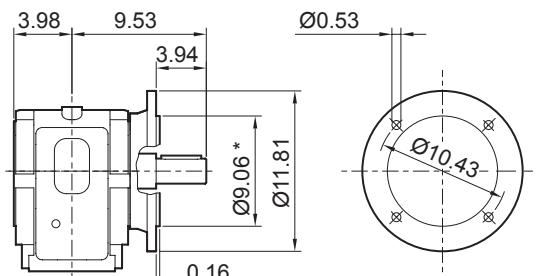
KAN77



KMN77



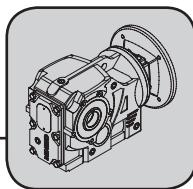
KNN77



Technical drawing showing dimensions for a mechanical part:

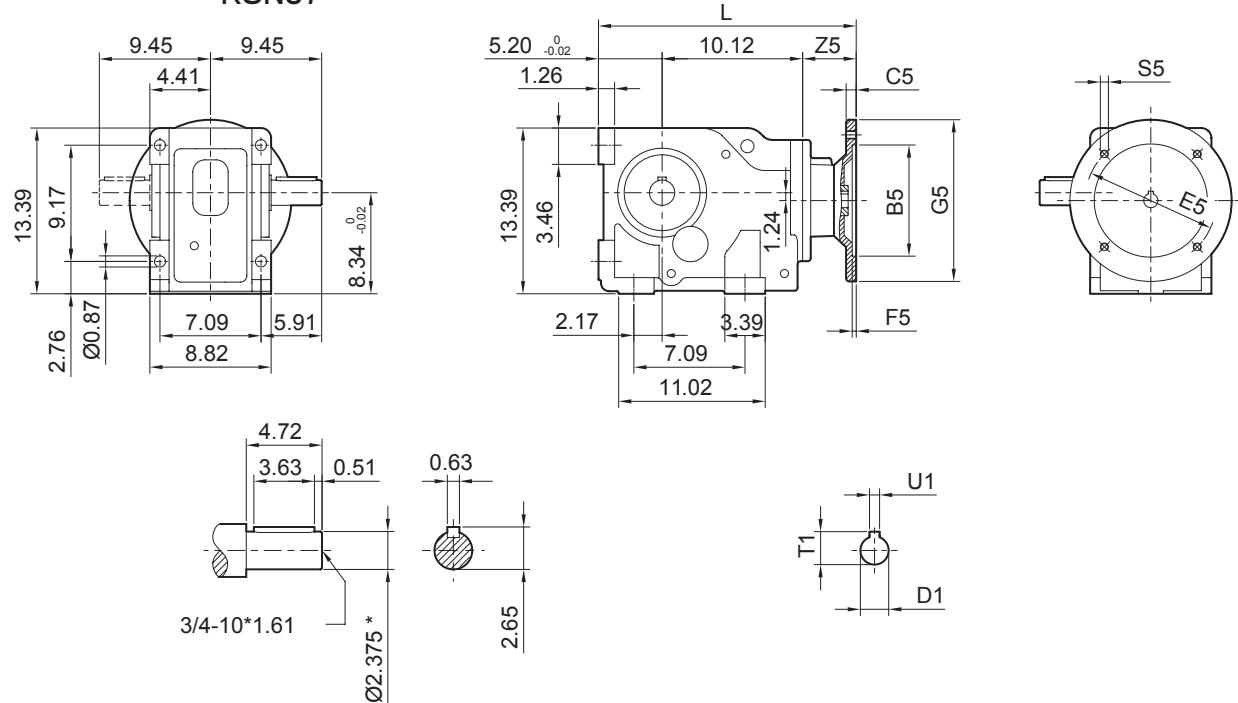
- Total height: 3.94
- Top slot width: 2.63
- Side slot width: 0.64
- Bottom slot width: 2.00
- Hole diameter: 2.22

	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

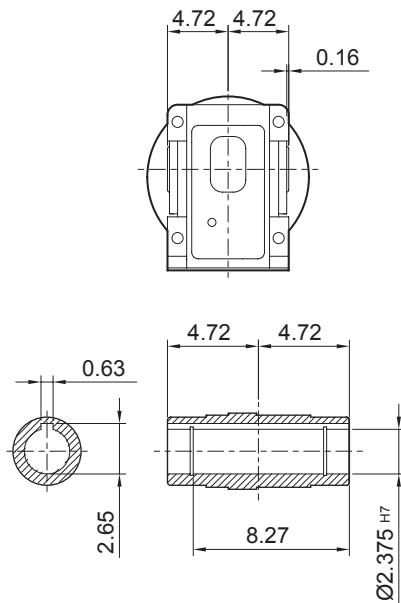


Helical-Bevel Gear Units
Dimension Sheets[inch]

KSN87



KHN87



3

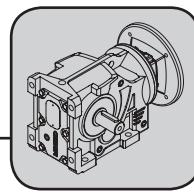
*Refer page16 for tolerance information.

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

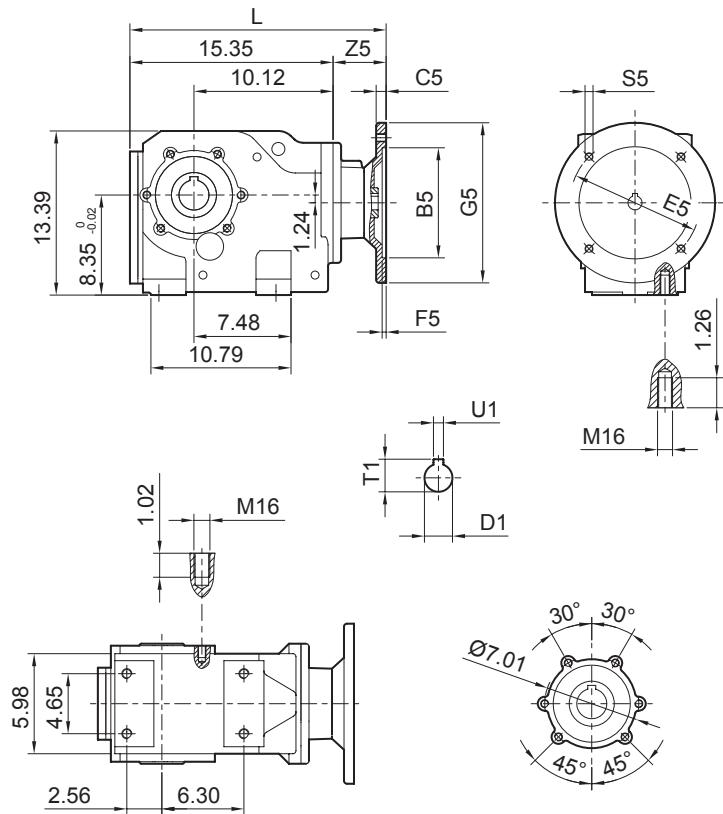
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM143/145	4.50	0.39	5.875	0.16	6.50	14.69	0.41	2.56	0.875	0.96	0.188
AM182/184	8.50	0.67	7.250	0.20	9.00	15.41	0.55	2.68	1.125	1.24	0.250
AM213/215	8.50	0.67	7.250	0.20	9.00	17.68	0.55	4.94	1.375	1.52	0.312
AM254/256	8.50	0.79	7.250	0.20	10.00	21.24	0.55	5.93	1.625	1.80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

Helical-Bevel Gear Units

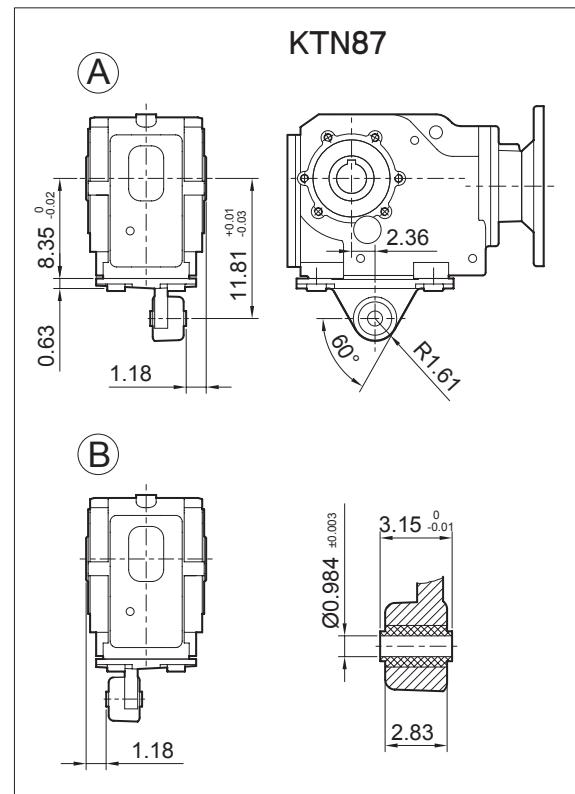
Dimension Sheets [inch]



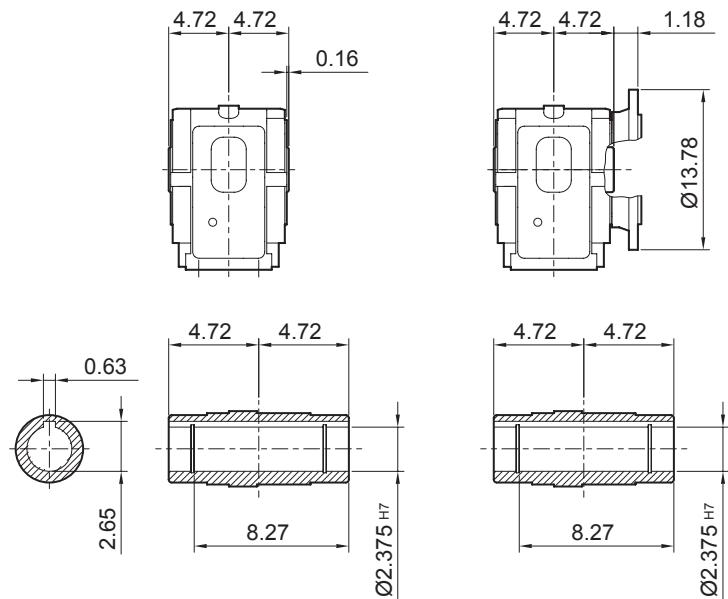
KAN87



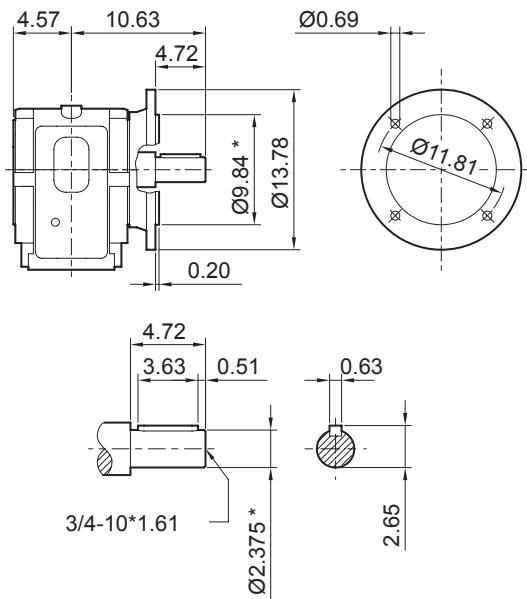
KTN87



KAN87



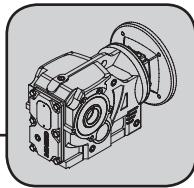
KMN87



KNN87

3

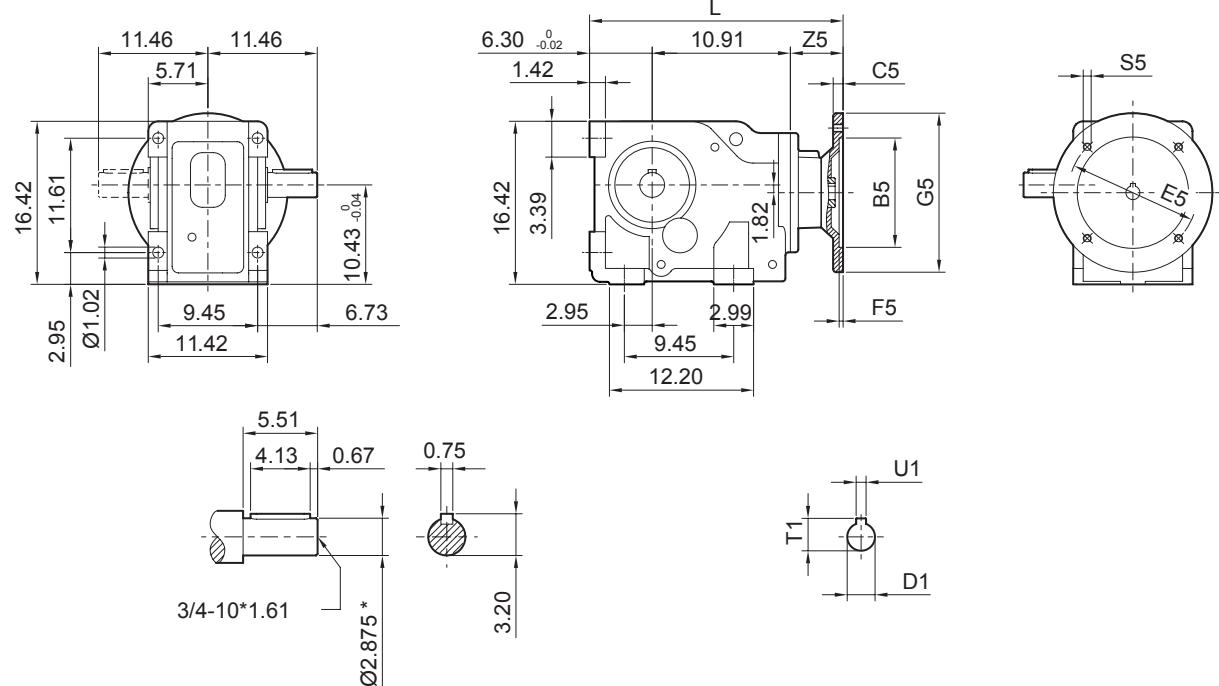
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM143/145	4.50	0.39	5.875	0.16	6.50	14.69	0.41	2.56	0.875	0.96	0.188
AM182/184	8.50	0.67	7.250	0.20	9.00	15.41	0.55	2.68	1.125	1.24	0.250
AM213/215	8.50	0.67	7.250	0.20	9.00	17.68	0.55	5.31	1.375	1.52	0.312
AM254/256	8.50	0.79	7.250	0.20	10.00	21.24	0.55	5.93	1.625	1.80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



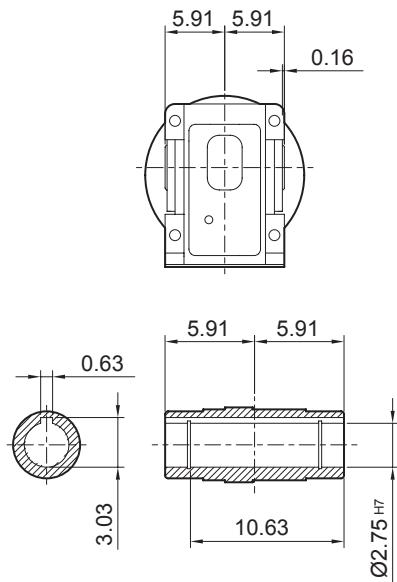
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN97



KHN97



3

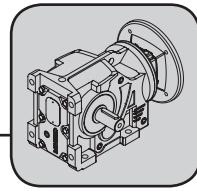
*Refer page16 for tolerance information.

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

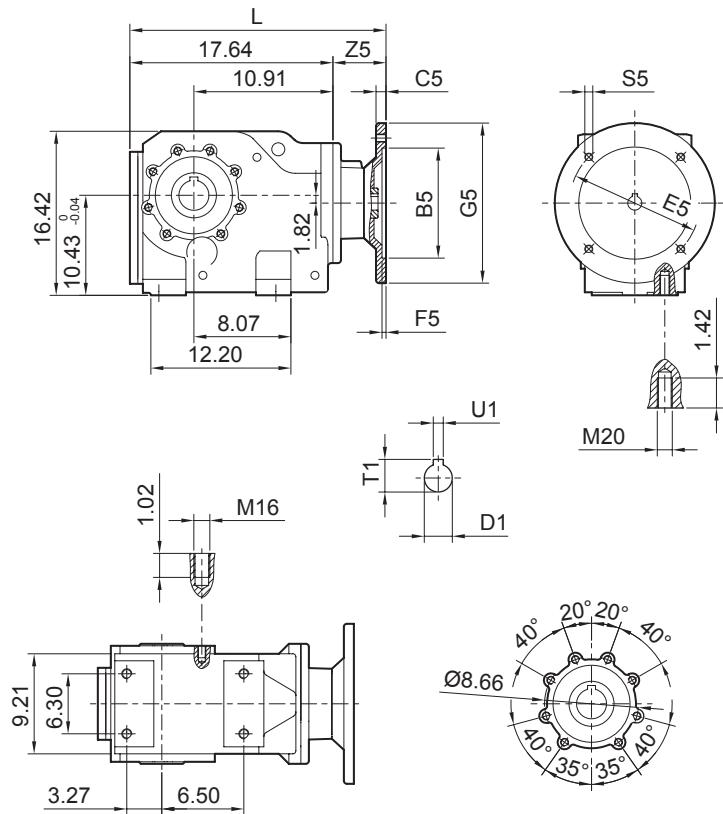
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM182/184	8.50	0.67	7.250	0.20	9.00	19.72	0.55	2.52	1.125	1.24	0.250
AM213/215	8.50	0.67	7.250	0.20	9.00	21.83	0.55	4.63	1.375	1.52	0.312
AM254/256	8.50	0.79	7.250	0.20	10.00	22.81	0.55	5.61	1.625	1.80	0.375
AM284/286	10.50	0.79	9.000	0.20	11.26	23.17	0.59	5.96	1.875	2.10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

Helical-Bevel Gear Units

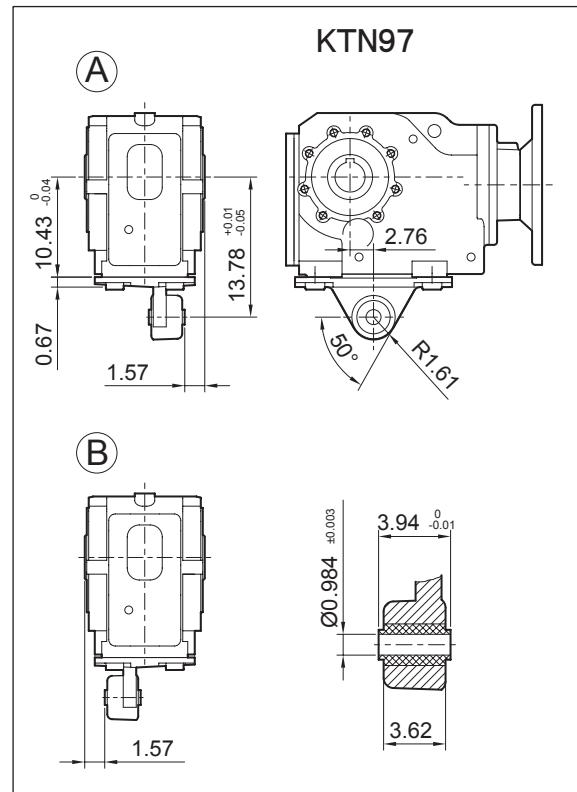
Dimension Sheets [inch]



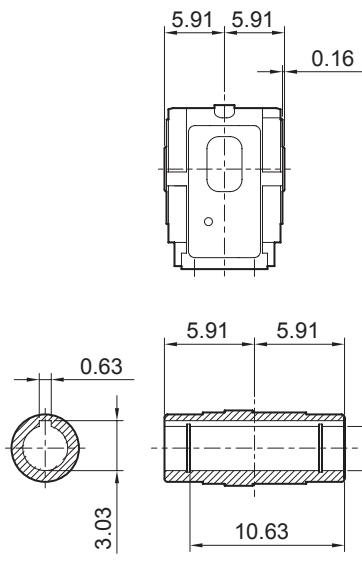
KAN97



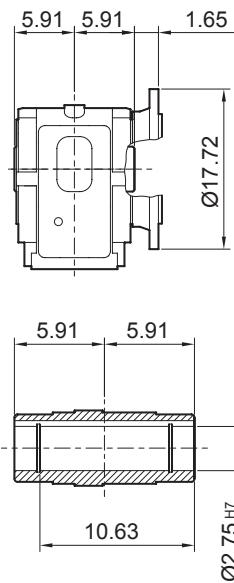
KTN97



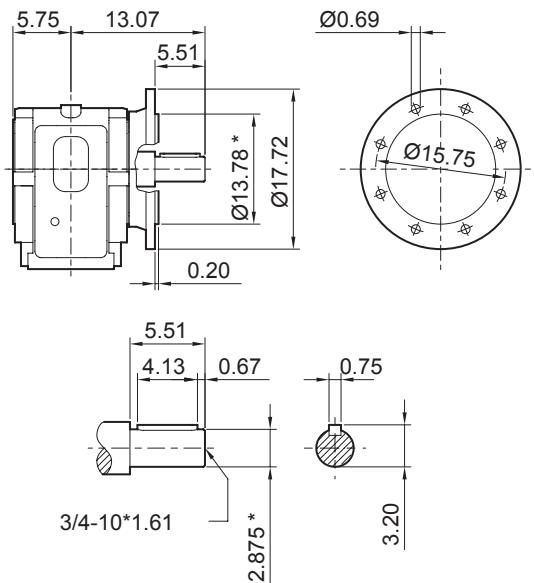
KAN97



KMN97

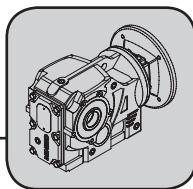


KNN97



3

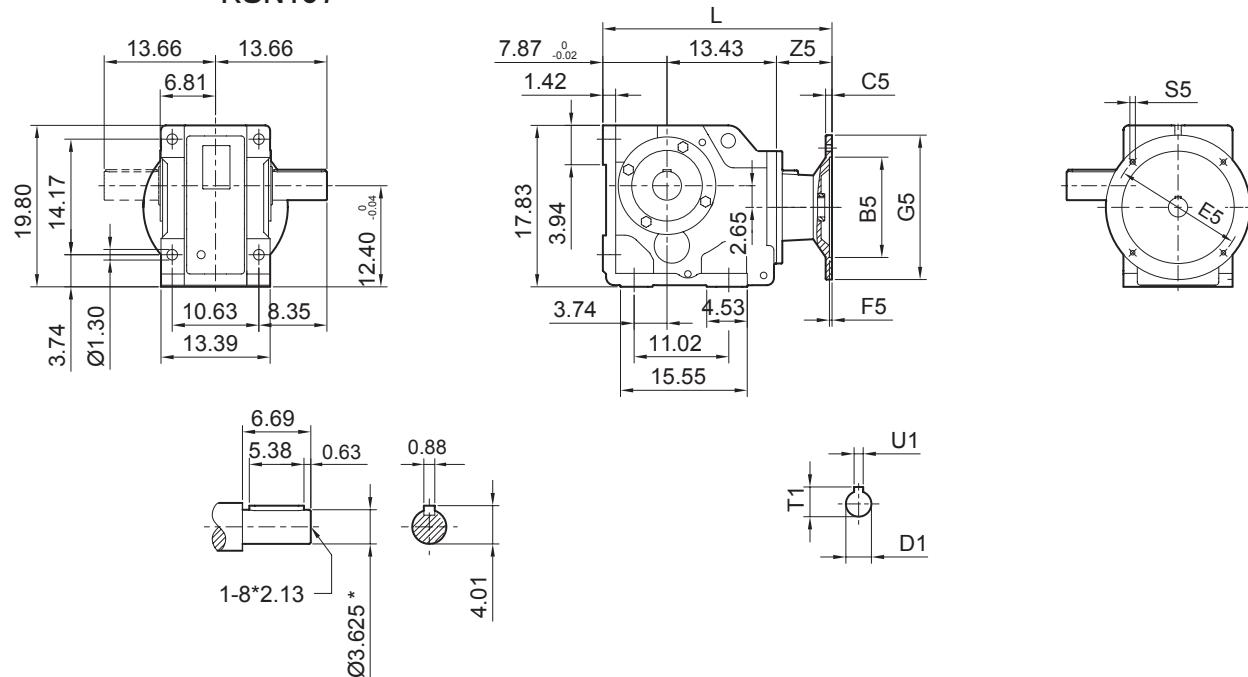
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM182/184	8.50	0.67	7.250	0.20	9.00	19.72	0.55	2.52	1.125	1.24	0.250
AM213/215	8.50	0.67	7.250	0.20	9.00	21.83	0.55	4.63	1.375	1.52	0.312
AM254/256	8.50	0.79	7.250	0.20	10.00	22.81	0.55	5.61	1.625	1.80	0.375
AM284/286	10.50	0.79	9.000	0.20	11.26	23.17	0.59	5.96	1.875	2.10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



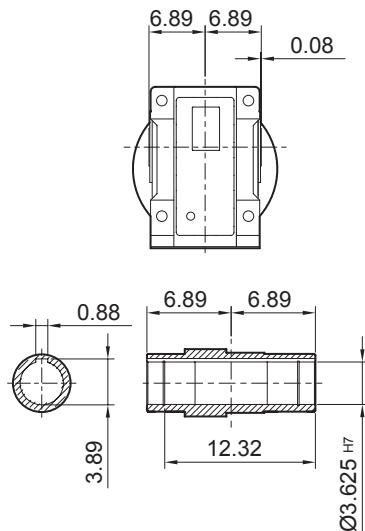
Helical-Bevel Gear Units

Dimension Sheets[inch]

KSN107



KHN107



3

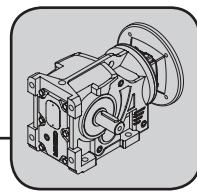
*Refer page16 for tolerance information.

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

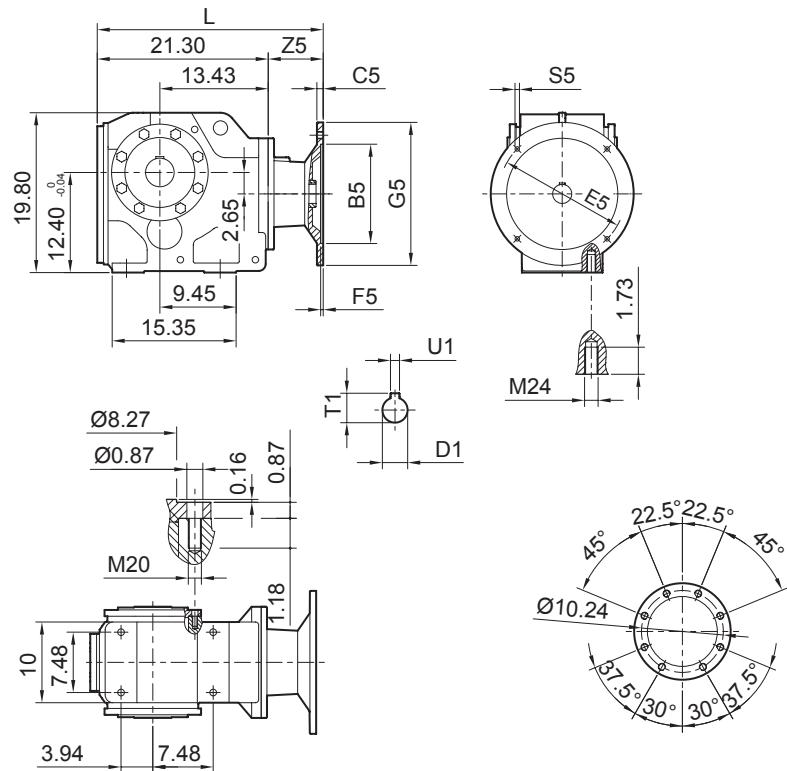
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
AM182/184	8.50	0.67	7.250	0.20	9.00	19.72	0.55	2.52	1.125	1.24	0.250
AM213/215	8.50	0.67	7.250	0.20	9.00	21.83	0.55	4.25	1.375	1.52	0.312
AM254/256	8.50	0.79	7.250	0.20	10.00	22.81	0.55	5.24	1.625	1.80	0.375
AM284/286	10.50	0.79	9.000	0.20	11.26	23.17	0.59	5.59	1.875	2.10	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

Helical-Bevel Gear Units

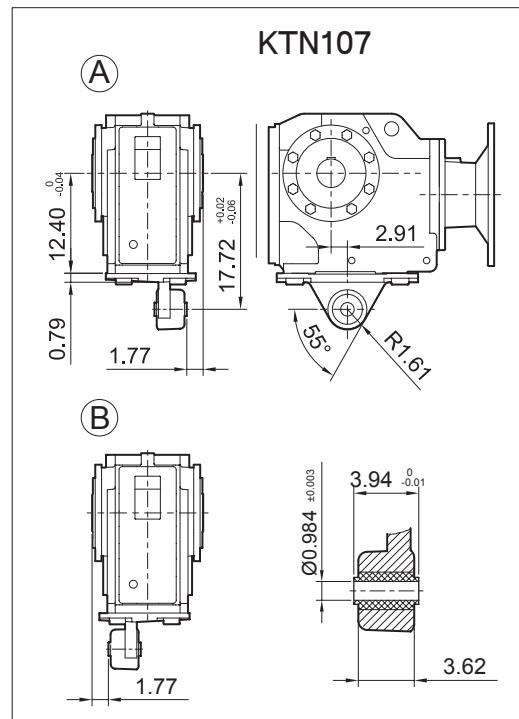
Dimension Sheets [inch]



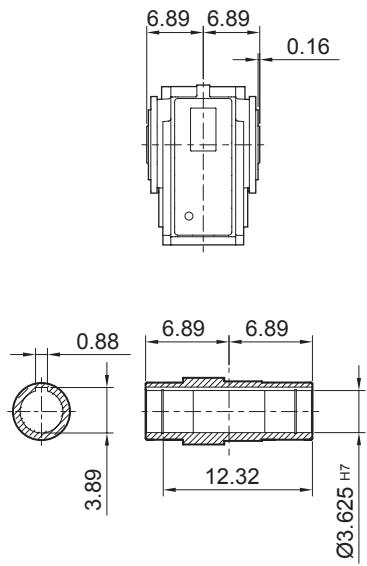
KAN107



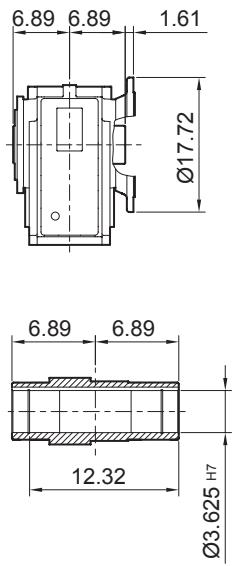
KTN107



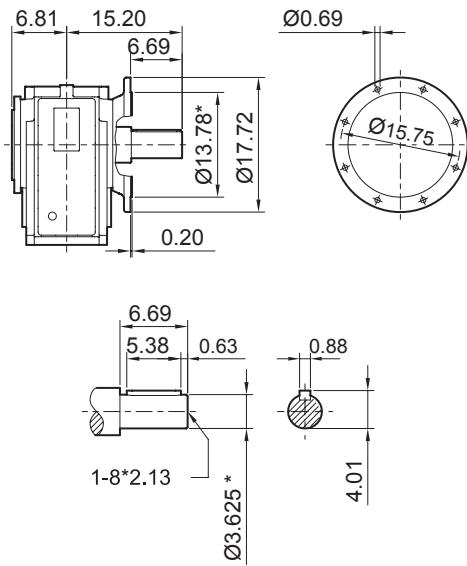
KAN107



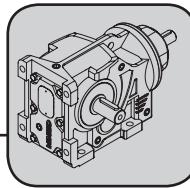
KMN107



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

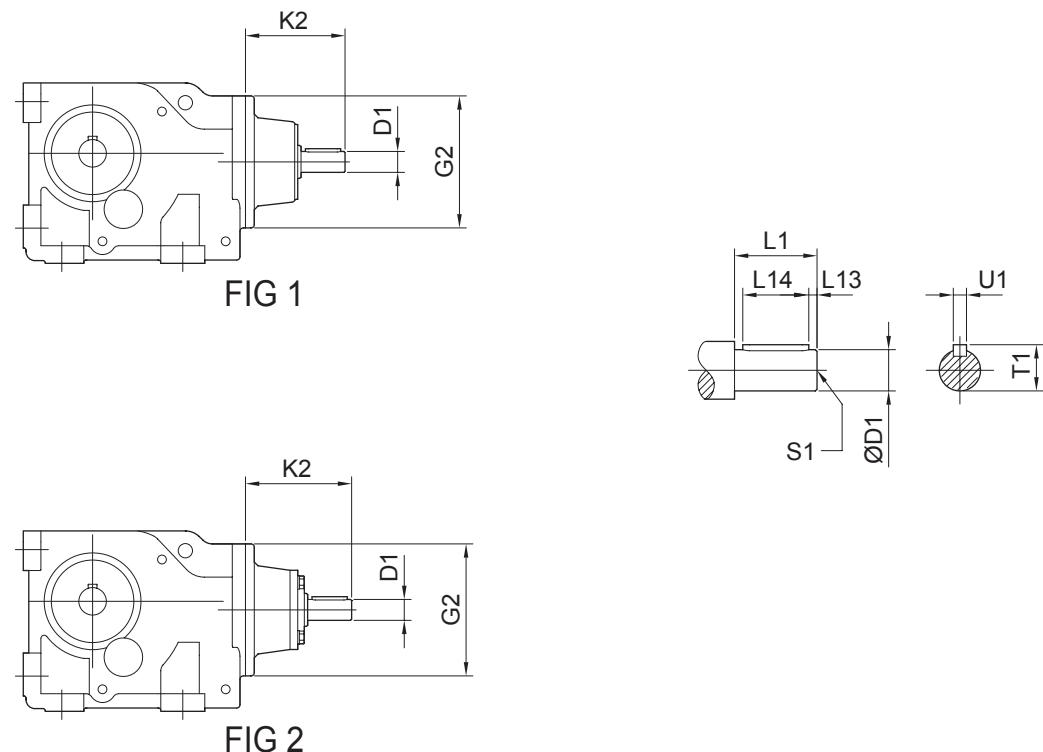


Helical-Bevel Gear Units

Dimension Sheets[inch]

Solid Input Shaft

K..S

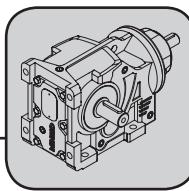


3

	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

Helical-Bevel Gear Units

Dimension Sheets[inch]



K37	
Ratio <i>i</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	
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>i</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	
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>i</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	
34.20	
32.22	
27.82	
25.76	
22.24	
17.57	
12.75	
11.00	
8.69	

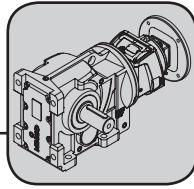
K67	
Ratio <i>i</i>	Input Dia
149.56	0.750
130.56	
118.14	
108.03	
95.46	
84.10	
68.95	
64.97	
56.09	
46.33	
44.32	
37.98	
35.79	
33.26	
30.90	
27.27	
25.70	
24.42	
22.18	
17.53	
14.16	
12.22	
9.66	

K77	
Ratio <i>i</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	
57.05	
51.18	
47.12	
39.76	
30.48	
27.34	
25.17	
22.57	
21.24	
20.24	
18.64	
15.73	
12.06	
10.81	
9.96	
8.40	

K87	
Ratio <i>i</i>	Input Dia
214.50	0.750
190.38	
180.32	
151.59	
129.25	
117.56	
108.00	
93.84	
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	
12.82	
11.19	
10.53	
9.04	
8.27	

K97	
Ratio <i>i</i>	Input Dia
174.75	1.125
154.10	
140.71	
119.87	
112.43	
101.37	
89.79	
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	
12.56	
11.26	
10.16	
8.31	

K107	
Ratio <i>i</i>	Input Dia
143.55	1.375
121.95	
107.04	
100.47	
95.48	
90.70	
82.38	
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	
8.67	

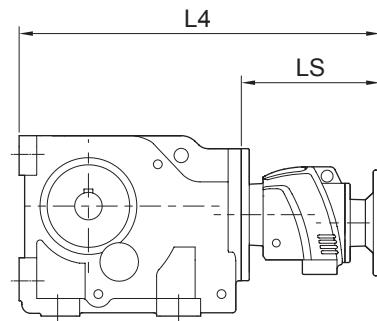


Helical-Bevel Gear Units

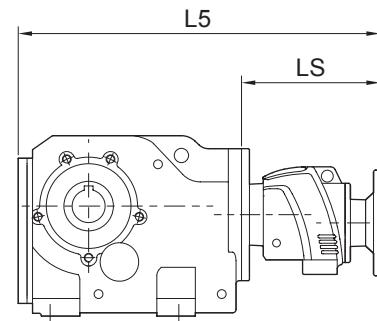
Dimension Sheets[inch]

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



CHENDA



CHENra



CHENDA



CHENrui



CHENDA



CHENra



CHENDA



CHENra