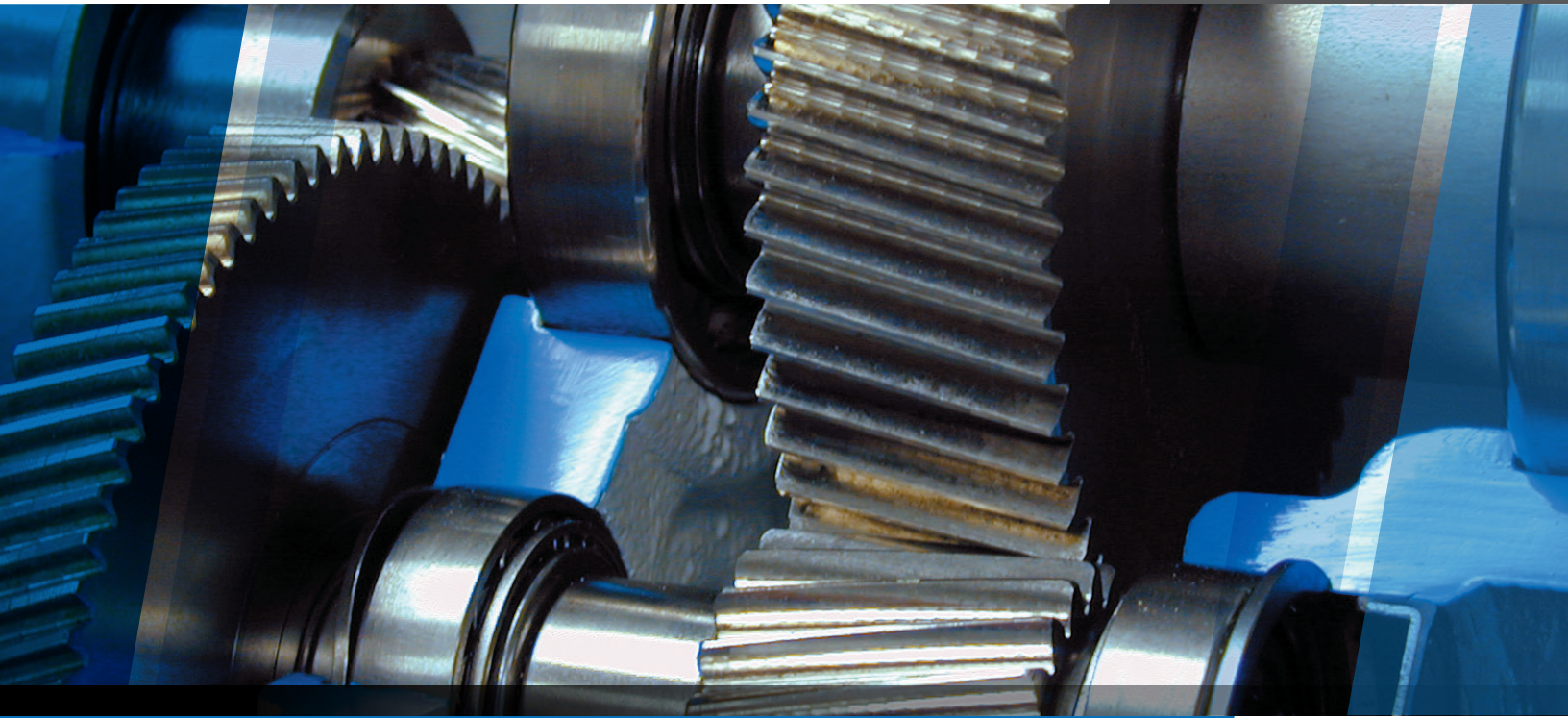


Browning[®]

PRODUCT
CATALOG



POWERATIO[®] 5000 HELICAL IN-LINE GEAR REDUCERS



 **RegalRexnord**[™]

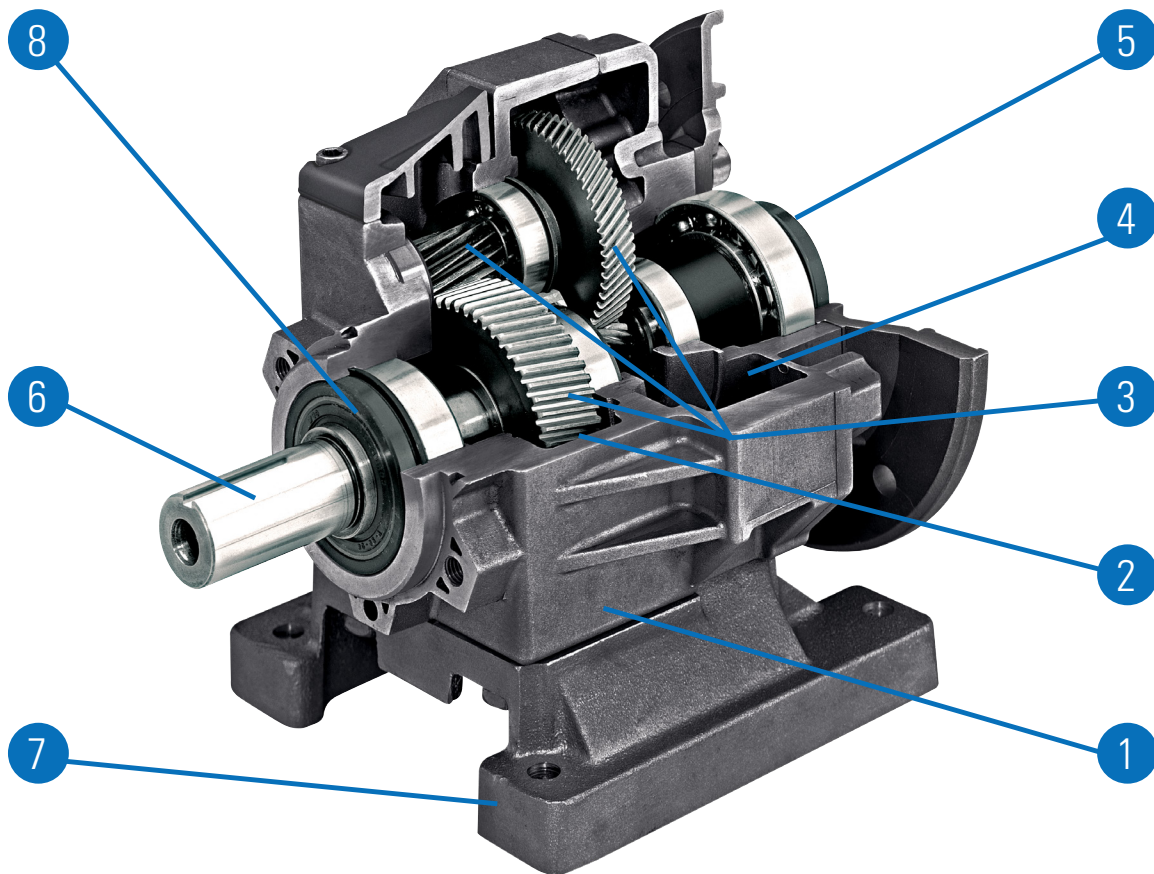


HELICAL IN-LINE GEAR REDUCERS

\ Product Features	2
\ Mounting Versatility and Range	3
\ Selection Procedure	4-5
\ Catalog Nomenclature	6
\ Model Index	7
\ Output Flanges	7
\ Selection Example	8-9
\ Mounting Positions	10
\ Service Classification and Service Factors	11-13
\ Reducer Selection By Motor Input H.P.	14-30
\ Reducer Capacity Rating Tables	31-39
\ Poweratio® 5000 Dimensions	
C-face Quill Input, Foot Mounted Reducers	40-43
C-face Quill Input, Foot Mount with Flange Reducers	44-47
C-face Quill Input, Flange Mount Reducers	48-51
Shaft Input, Foot Mounted Reducers	52-54
Shaft Input, Foot Mount with Flange Reducers	55-57
Shaft Input, Flange Mount Reducers	58-60
Face Mount Supplement	61
\ Shipping Weights	62

HELICAL IN-LINE GEAR REDUCERS

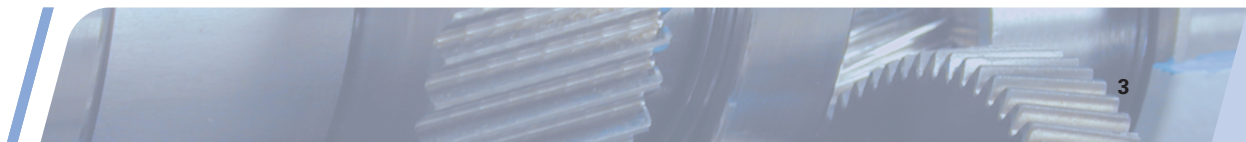
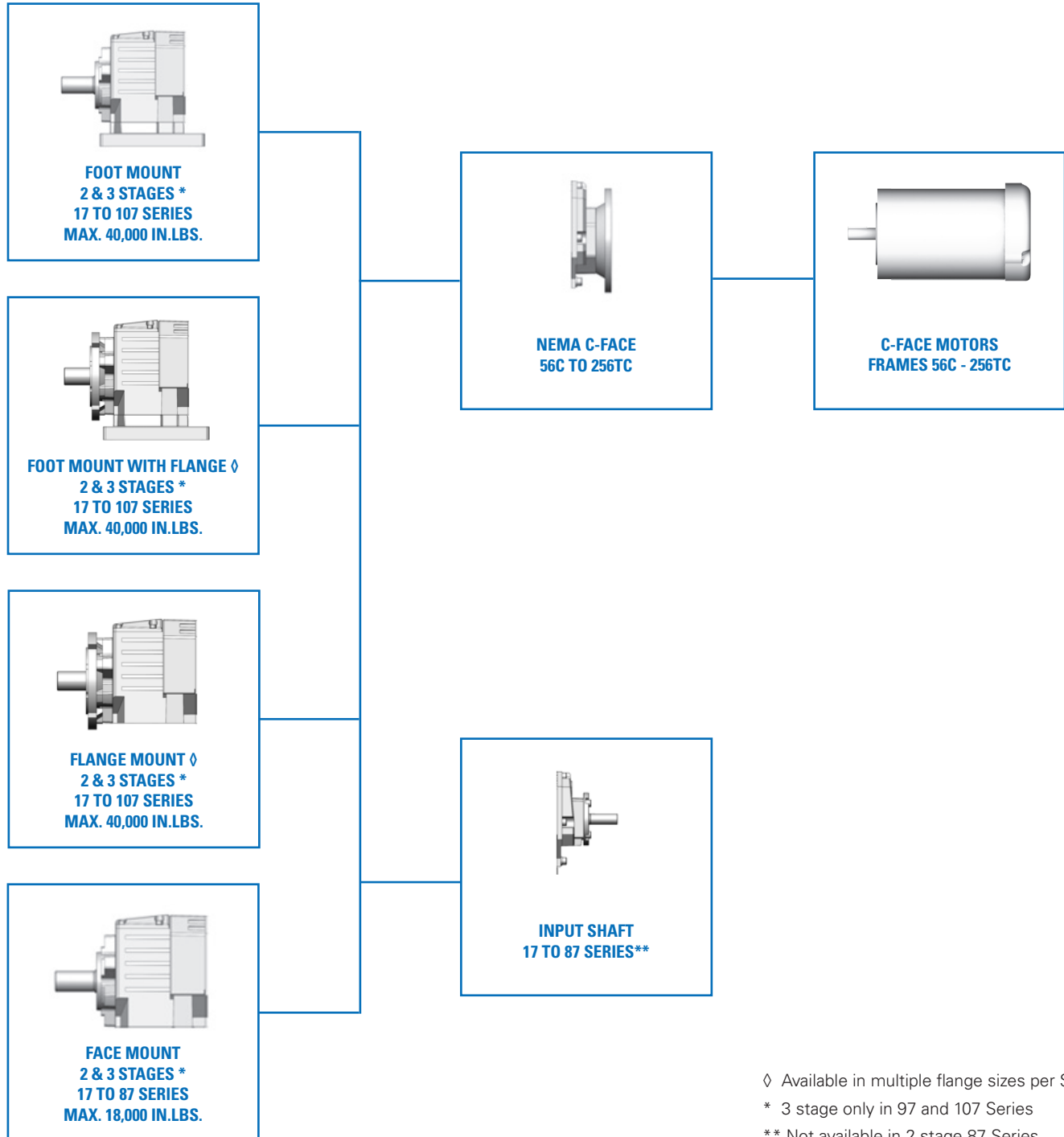
DESIGN FEATURES AND BENEFITS



1. Single Piece Cast Housings are precision machined for optimum alignment of gearing and bearings for quiet operation and precise load transmission. Gear units up through the 557 Series have die cast aluminum frames. Larger Series units are cast iron.
2. Maximized gear efficiency and minimized overall envelope size by offering ratios up to 71:1 in double reduction and 680:1 in triple reduction.
3. All Gearing is hardened and ground to AGMA Quality Class 11 (ISO 6) for smooth, quiet operation, with the efficiency per stage of 97.5-98%.
4. Each reducer is factory filled with a premium semi-synthetic base hydrocarbon lubricant based on the customer specified mounting position. This provides the optimum viscosity over a wider ambient temperature range and normally eliminates the need for seasonal oil changes versus mineral oil.
5. All oil seals are double lip construction and made with FKM material to protect against ingress of contaminants, loss of lubricant and are resistant to degradation from UV, chemicals and heat.
6. Shafts are made of high strength steel alloy, and all oil seal journals are plunge ground. This promotes extended oil seal life and high overhung load capacities.
7. Mounting dimensions match most Poweratio® 4000 reducers and those of many competitors to allow easy unit replacements with increased torque capacity on most sizes.
8. Mounting options are increased, with multiple flange sizes available per Series and the added option of "footed with flange" and face mounting.

HELICAL IN-LINE GEAR REDUCERS

MOUNTING VERSATILITY AND SIZE RANGE



HELICAL IN-LINE GEAR REDUCERS

SELECTION PROCEDURES

Regal provides two methods for selection of Reducers:

- **Selection By Input Horsepower** - On pages 14-30, the Selection Tables by Input HP can be used whenever the Input HP is known. This method can easily be used for both motorized or input shaft reducers.
- **Selection Based on Reducer Capacity** - On pages 31 to 39, the ratings are provided by Input HP and Output Torque Capacity (1.0 service factor). These tables can be used with reducers driven by motors or other methods.

SELECTION BY INPUT HORSEPOWER (HP)

For selection of a reducer by Input HP, follow the steps below.

1. Determine, based on the application criteria and driver type, what Gear service factor or Load Class is required using the tables on page 5 or those found on pages 11 to 13.
2. Determine and locate the Input Motor HP required in the tables on pages 14 through 30.
3. Locate the desired Output RPM.
4. Select the gear Series and ratio that meets or exceeds the required service factor for your application.
5. Output Overhung Load (OHL) needs to be checked when a sprocket, sheave, pulley, or pinion is mounted on the gear output shaft. Using the formulas on page 5 determine the OHL that will be imposed on the reducer output shaft. Check the Output OHL capacity of your gear selection and verify that its capacity exceeds the actual Output OHL imposed by your application.
6. If the reducer is a C-face design, take note on the selection page what recommended NEMA C-face motor frame would be associated with your gear selection. If another motor frame is required, refer to engineering for availability.

SELECTION BY INPUT HP/OUTPUT TORQUE CAPACITY

For selection of a reducer using the table showing Input HP/Output Torque Capacity, follow the steps below.

1. Determine the required service factor as previously defined using the tables page 5 or pages 11 to 13.
2. Determine the actual required Input HP or Output torque of your application load.
3. Determine the Output RPM desired.
4. Multiply either the required input HP or output torque by the service factor the application requires and find the reducer rating that meets these required capacity criteria from the tables on pages 31 to 39.
5. If the reducer desired is a C-face type, confirm on dimensional pages that your C-face motor size is available.
6. Output Overhung Load needs to be checked when a sprocket, sheave, pulley, or pinion is mounted on the gear output shaft. Using the formulas on page 5 determine the OHL that will be imposed on the reducer output shaft. Check the Output OHL capacity of your gear selection and verify that its capacity exceeds the actual Output OHL imposed by your application.
7. Input Overhung Load needs to be checked if the input shaft is not direct coupled. Check the rating table for the Input OHL capacity of your gear selection and verify that its capacity exceeds the actual Input OHL of your application.

HELICAL IN-LINE GEAR REDUCERS

SERVICE FACTORS AND OVERHUNG LOADS

Load Classification Numbers and Service factors are used in the selection of Reducers. The relationship between load class numbers and service factors is shown in Table 2.

The Load Classification Numbers are designated for gearmotors and motorized reducers (C-face) which have a uniform power source (i.e. Electric Motor). They consider the type of load and also the duration of service.

The Service Factors are designated for Reducers and consider other power sources (such as Internal Combustion Engines), as well as the type of load and duration of service.

Table 1 and Table 2 list Service Factors and Load Classes for general use.

TABLE 1 SERVICE FACTORS

PRIME MOVER	DURATION OF SERVICE PER DAY (1)	DRIVEN MACHINE LOAD CLASSIFICATION		
		UNIFORM	MEDIUM SHOCK	HEAVY SHOCK
Electric Motor	Occasional 1/2 hours	●	●	1.25
	Intermittent 3 hours	●	1.00	1.50
	3-10 hours	1.00	1.25	1.75
	Over 10 hours	1.25	1.50	2.00
Electric Motor With Frequent Starts and Stops (2)	Occasional 1/2 hours	●	1.00	1.50
	Intermittent 3 hours	1.00	1.25	1.75
	3-10 hours	1.25	1.50	2.00
	Over 10 hours	1.50	1.75	2.25
Multi-Cylinder Internal Combustion Engine	Occasional 1/2 hours	●	1.00	1.50
	Intermittent 3 hours	1.00	1.25	1.75
	3-10 hours	1.25	1.50	2.00
	Over 10 hours	1.50	1.75	2.25
Single Cylinder Internal Combustion Engine	Occasional 1/2 hours	1.00	1.25	1.75
	Intermittent 3 hours	1.25	1.50	2.00
	3-10 hours	1.50	1.75	2.25
	Over 10 hours	1.75	2.00	2.50

● Unspecified service factors should be considered 1.0 or as agreed to by End User and the Manufacturer.

Explanatory Notes

- Time specified for intermittent and occasional service factors refers to total operating time per day.
- Term "frequent starts and stops" refers to more than 10 starts per hour.

AGMA Load Classification and Service Factor tables on pages 11 to 13 provide approximate service factors for various types of machinery. The service factors are based on uniform power sources (i.e. electric motor).

Use the service factors from Table 1 to obtain service factors for internal combustion engines.

All the Class Number and Service Factor charts are to be used for general guidelines for assistance in determining the required service factor. Rely on past experience as well. Consult factory for severe applications, when there are safety concerns, or there is a need for extra high reliability.

Occasional starting loads up to 200% of catalog ratings are permissible.

TABLE 2 LOAD CLASSIFICATION NUMBERS

LOAD CLASS (S.F.)	UP TO 3 HRS. TOTAL OPERATION PER DAY	3 TO 10 HRS. TOTAL OPERATION PER DAY	OVER 10 HRS. TOTAL OPERATION PER DAY
I (1.0)	Moderate Shock Load	Uniform Load	
II (1.4)	Heavy Shock Load	Moderate Shock Load	Uniform Load
III (2.0)		Heavy Shock Load	Moderate Shock Load

OVERHUNG LOAD (OHL)

When a sprocket, sheave, pulley or pinion is mounted on the output shaft of a reducer, it is necessary to calculate the overhung load. The OHL must be smaller than the OHL capacity of the reducer. Use one of the following to calculate OHL on the shaft in question.

A. If torque is known:
$$OHL = \frac{(T \times K \times LLF)}{R}$$

B. If HP is known:
$$OHL = \frac{(63025 \times HP \times K \times LLF)}{RPM \times R}$$

WHERE:

OHL	=	Overhung Load (lbs.)
T	=	Torque (in.lbs.)
R	=	radius of driving member (in.)
HP	=	Horsepower of motor or load
K	=	Drive type factor
LLF	=	Load location factor

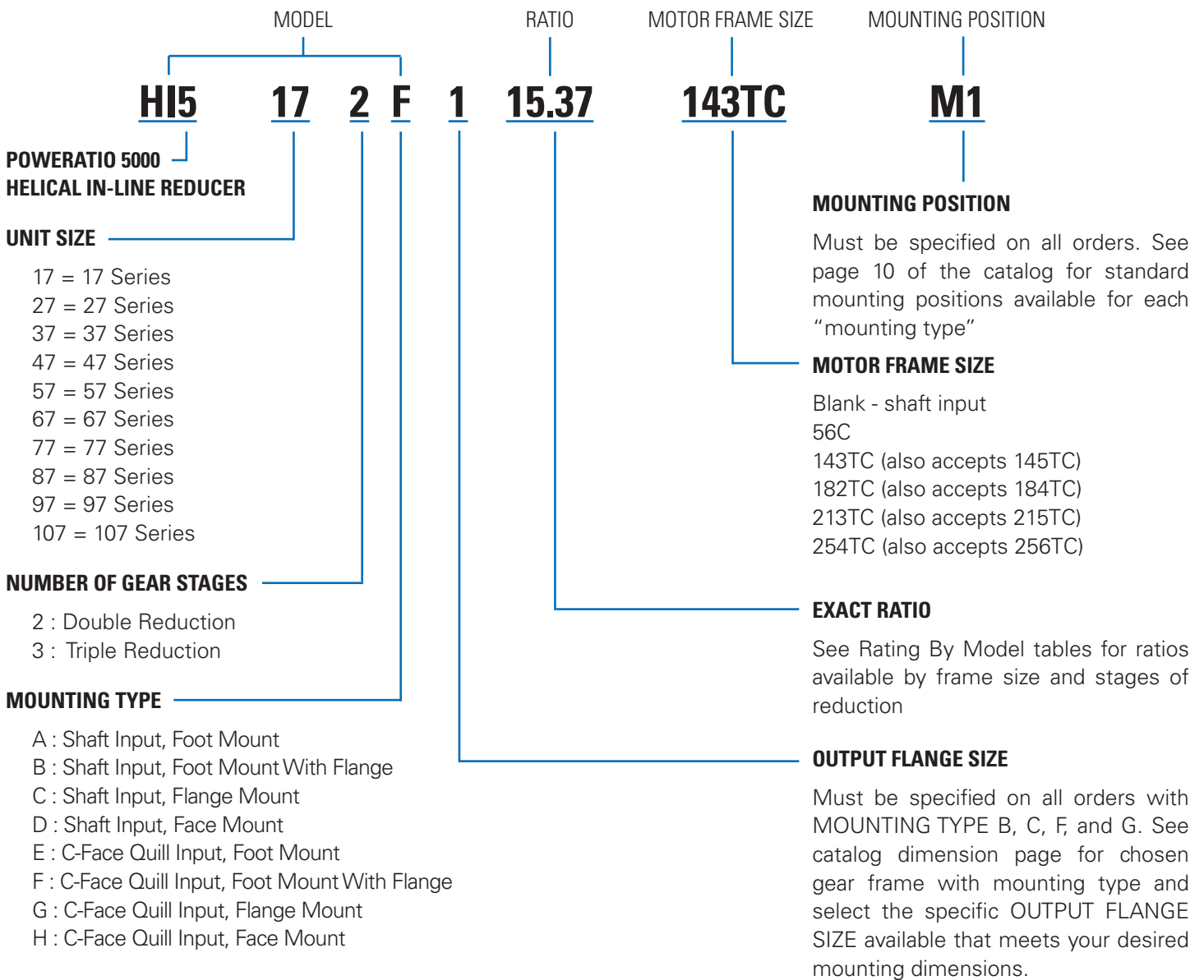
DRIVING MEMBER	VALUE OF K
Chain	1.00
Pinion	1.25
V-Belt	1.50
Timing Belts	1.25
LOAD LOCATION	VALUE OF LLF
End of Shaft Extension	1.20
Middle of Shaft Extension	1.00
Shaft extension Shoulder	0.80

HELICAL IN-LINE GEAR REDUCERS

CATALOG ORDERING NOMENCLATURE

DESCRIPTION FOR ORDERING REDUCERS:

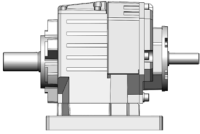
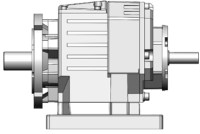
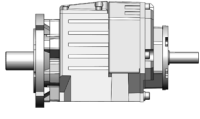
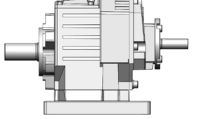
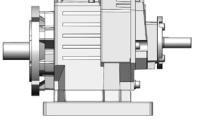
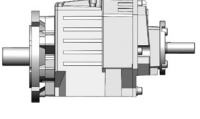
The below example highlights the procedure for creating a Poweratio® 5000 in-line helical gear reducer ordering description to define exactly what is required for your application. The mounting position must be specified on all orders, and is included in the reducer description. If the gear reducer requires a flange (i.e. mounting types B, C, F, and G), the specific flange size must be supplied at order entry.



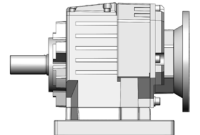
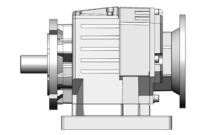
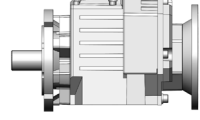
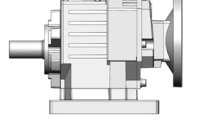
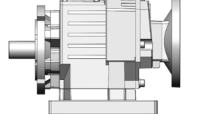
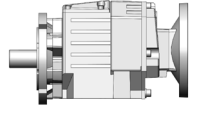
HELICAL IN-LINE GEAR REDUCERS

MODEL INDEX GUIDE

SHAFT INPUT

SERIES	DOUBLE REDUCTION			TRIPLE REDUCTION		
						
	FOOT (A)	FOOT W/FLANGE (B)	FLANGE (C)	FOOT (A)	FOOT W/FLANGE (B)	FLANGE (C)
17	HI5172A Page 52	HI5172B Page 55	HI5172C Page 58	HI5173A Page 52	HI5173B Page 55	HI5173C Page 58
27	HI5272A Page 52	HI5272B Page 55	HI5272C Page 58	HI5273A Page 52	HI5273B Page 55	HI5273C Page 58
37	HI5372A Page 52	HI5372B Page 55	HI5372C Page 58	HI5373A Page 52	HI5373B Page 55	HI5373C Page 58
47	HI5472A Page 53	HI5472B Page 56	HI5472C Page 59	HI5473A Page 53	HI5473B Page 56	HI5473C Page 59
57	HI5572A Page 53	HI5572B Page 56	HI5572C Page 59	HI5573A Page 53	HI5573B Page 56	HI5573C Page 59
67	HI5672A Page 54	HI5672B Page 57	HI5672C Page 60	HI5673A Page 54	HI5673B Page 57	HI5673C Page 60
77	HI5772A Page 54	HI5772B Page 57	HI5772C Page 60	HI5773A Page 54	HI5773B Page 57	HI5773C Page 60
87	-	-	-	HI5873A Page 54	HI5873B Page 57	HI5873C Page 60

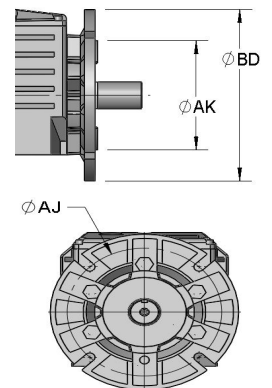
C- FACE QUILL INPUT

SERIES	DOUBLE REDUCTION			TRIPLE REDUCTION		
						
	FOOT (E)	FOOT W/FLANGE (F)	FLANGE (G)	FOOT (E)	FOOT W/FLANGE (F)	FLANGE (G)
17	HI5172E Page 40	HI5172F Page 44	HI5172G Page 48	HI5173E Page 40	HI5173F Page 44	HI5173G Page 48
27	HI5272E Page 40	HI5272F Page 44	HI5272G Page 48	HI5273E Page 40	HI5273F Page 44	HI5273G Page 48
37	HI5372E Page 40	HI5372F Page 44	HI5372G Page 48	HI5373E Page 40	HI5373F Page 44	HI5373G Page 48
47	HI5472E Page 41	HI5472F Page 45	HI5472G Page 49	HI5473E Page 41	HI5473F Page 45	HI5473G Page 49
57	HI5572E Page 41	HI5572F Page 45	HI5572G Page 49	HI5573E Page 41	HI5573F Page 45	HI5573G Page 49
67	HI5672E Page 42	HI5672F Page 46	HI5672G Page 50	HI5673E Page 42	HI5673F Page 46	HI5673G Page 50
77	HI5772E Page 42	HI5772F Page 46	HI5772G Page 50	HI5773E Page 42	HI5773F Page 46	HI5773G Page 50
87	HI5872E Page 42	HI5872F Page 46	HI5872G Page 50	HI5873E Page 42	HI5873F Page 46	HI5873G Page 50
97	-	-	-	HI5973E Page 43	HI5973F Page 47	HI5973G ● Page 51
107	-	-	-	HI51073E Page 43	HI51073F Page 47	HI51073G ● Page 51

OUTPUT FLANGE OPTIONS - DESIGNATION CODE

FLANGE DIMENSIONS INCHES (mm)			MOUNTING TYPES B, C, F OR G									
			SERIES									
BD	AJ	AK	17	27	37	47	57	67	77	87	97	107
4.72 (120)	3.74 (100)	3.15 (80)	1	1								
5.51 (140)	4.53 (115)	3.74 (95)	2	2								
6.30 (160)	5.12 (130)	4.331 (110)	3	3	1	1	1					
7.87 (200)	6.50 (165)	5.118 (130)	4	4	2	2	2	1				
9.84 (250)	8.46 (215)	7.087 (180)			3	3	3	2	1			
11.81 (300)	10.43 (265)	9.055 (230)							2	1	1	
13.78 (350)	11.81 (300)	9.843 (250)								2	2	1
17.72 (450)	15.75 (400)	13.780 (350)								3	3	2

● This reducer is supplied with cast frame with integral feet
 This flange size is an option for Types B and F reducers that are Foot w/ Flange



HELICAL IN-LINE GEAR REDUCERS

SELECTION EXAMPLE

An in-line C-Face gear reducer is required to drive a Rotary Lobe pump. The application will be operated 10 hours per day at a speed of approximately 38 RPM. The customer already has a 1/3 HP DC motor that has a base speed of 1750 RPM and is in a 56C frame. The feet of the gear reducer will be used for the pump mounting, and the pump is designed to accept a gear output flange with a BD dimension of 120mm. Final mounting will be on the wall with output shaft left.

STEP 1

Using the AGMA Service Factor Load Classification Table under “Pumps” for a Rotary Lobe pump operating 10 hours per day, note the service factor for this is 1.00.

STEP 2

Go to the table for Selection by Input HP where the HP = 1/3.

STEP 3

Locate the options of output RPM that closely meet the desired 38 RPM output speed.

STEP 4

Note the Gear Model # and the Ratio that meets all the above requirements. Confirm that the C-face version of the HI517 2 reducer is available with 56C NEMA input.

STEP 5

Check Overhung Load. This application is a direct connected type and no OHL is imposed on the gear reducer output shaft by the driven equipment.

STEP 6

Refer to page 7 to confirm that this Model # offers the availability of a flange BD dimension of 120mm in the Mounting Type “F” (foot mount with flange).

STEP 7

Identify mounting position on page 10 for Foot Mount With Flange with wall mount and with the output shaft left (B6).

CATALOG DESIGNATION FOR YOUR ORDER

HI517 2 **F 1** **46.87** **56C** **B6**

HI517 2

F 1

46.87

56C

B6

Poweratio® 5000 17 Series Gear Reducer double reduction
C-face Quill Input, Foot Mount with Flange having a 120mm BD dimension
Exact ratio providing 37 RPM output @ 1750 RPM input
This reducer accepts a NEMA®* 56C motor frame
Wall Mounted with output shaft left

* NEMA is believed to be the trademark and/or trade name of National Electrical Manufacturers Association and are not owned or controlled by Regal Beloit Corporation.

HELICAL IN-LINE GEAR REDUCERS

SELECTION EXAMPLE

PAGE 13

Coating	1.25	1.25	1.25
Film	1.25	1.25	1.25
Pipe	1.25	1.25	1.25
Pre-Plasticizers	1.50	1.50	1.50
Rods	1.25	1.25	1.25
Sheet	1.25	1.25	1.25
Tubing	1.25	1.25	1.50
Pullers - Barge Haul	1.00	1.50	1.75
Pumps			
Centrifugal	—	1.00	1.25
Proportioning	1.00	1.25	1.50
Reciprocating			
Single Acting, 3 or more cylinders	1.00	1.25	1.50
Double Acting, 2 or more cylinders	1.00	1.25	1.50
Rotary			
- Gear	—	1.00	1.50
- Lobe	—	1.00	1.25
- Vane	—	1.00	1.25
Crushers 1.50	1.50	1.50	1.50
Mills (Low Speed End)	1.50	1.50	1.50
Textile Industry			
Batchers	1.00	1.25	1.50
Calenders	1.00	1.25	1.50
Cards	1.00	1.25	1.50
Dry Cans	1.00	1.25	1.50
Dryers	1.00	1.25	1.50
Dyeing Machinery	1.00	1.25	1.50
Looms	1.00	1.25	1.50
Mangles	1.00	1.25	1.50
Nappers	1.00	1.25	1.50
Pads	1.00	1.25	1.50
Slashers	1.00	1.25	1.50
Soapers	1.00	1.25	1.50
Spinners	1.00	1.25	1.50
Tenter Frames	1.00	1.25	1.50
Washers	1.00	1.25	1.50
Winders	1.00	1.25	1.50

◆ Anti-friction bearings only.

NOTE: A service factor of 1.0 may be applied at the base of a super calender, operating over a speed range where part of the range is constant horsepower and part of the range is constant torque, provided that the constant horsepower part is greater than 1.5 to 1. A service factor of 1.25 is applicable to super calenders operating over the entire speed range at constant torque, or where the constant horsepower speed range is less than 1.5 to 1.

PAGE 14

60	336	29.40	2.38	I, II, III	435	H517 2	56C
52	378	33.85	2.11	I, II, III	459	H517 3	56C
48	410	35.91	1.95	I, II	470	H517 2	56C
48	410	35.91	2.83	III	646	H527 2	56C
46	438	38.37	1.82	I, II	478	H517 2	56C
46	438	38.37	2.57	III	657	H527 2	56C
40	488	43.89	1.63	I, II	495	H517 3	56C
37	535	46.87	1.43	I, II	507	H517 2	56C
37	535	46.87	2.00	III	674	H527 2	56C
35	578	50.67	1.38	I	510	H517 2	56C
35	578	50.67	1.95	II	674	H527 2	56C
33	596	53.36	1.34	I	520	H517 3	56C
28	695	60.90	3x	III	1028	H537 2	56C
28	706	61.89	1.13	I	532	H517 2	56C
28	706	61.89	1.51	II	674	H527 2	56C
26	740	66.22	2.75	III	1046	H537 3	56C
25	793	70.95	1.01	I	540	H517 3	56C
25	793	70.95	1.50	II	674	H527 3	56C
25	793	71.01	2.57	III	1062	H537 3	56C
24	820	73.43	1.36	I	674	H527 3	56C
23	835	74.77	1.39	I	674	H527 3	56C
23	857	76.69	2.38	II, III	1079	H537 3	56C
21	919	82.30	2.21	II, III	1094	H537 3	56C
20	955	86.66	1.28	I	674	H527 3	56C

PAGE 7

97	-	-	-	HI5973E Page 43	HI5973F Page 47	HI5973G ● Page 51
107	-	-	-	HI51073E Page 43	HI51073F Page 47	HI51073G ● Page 51

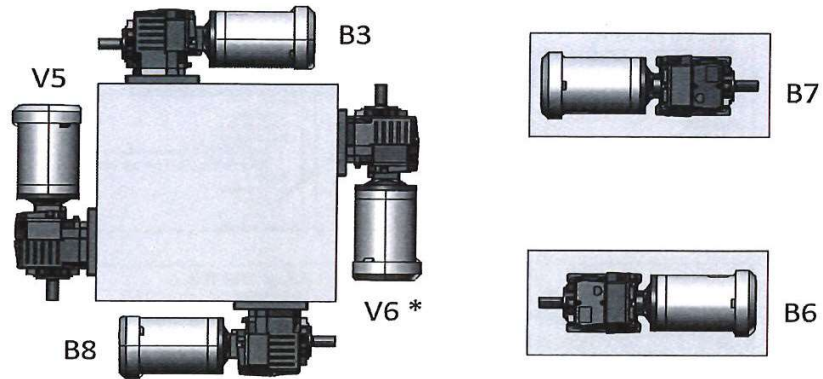
OUTPUT FLANGE OPTIONS - DESIGNATION CODE

FLANGE DIMENSIONS INCHES (mm)			MOUNTING TYPES B, C, F OR G									
			SERIES									
BD	AJ	AK	17	27	37	47	57	67	77	87	97	107
4.72 (120)	3.74 (100)	3.15 (80)	1	1								
5.51 (140)	4.53 (115)	3.74 (95)	2	2								
6.30 (160)	5.12 (130)	4.331 (110)	3	3	1	1	1					
7.87 (200)	6.50 (165)	5.118 (130)	4	4	2	2	2	1				
8.84 (250)	8.46 (215)	7.087 (180)			3	3	3	2	1			
11.81 (300)	10.43 (265)	9.055 (230)							2	1	1	
13.78 (350)	11.81 (300)	9.843 (250)								2	2	1
17.72 (450)	15.75 (400)	13.780 (350)								3	3	2

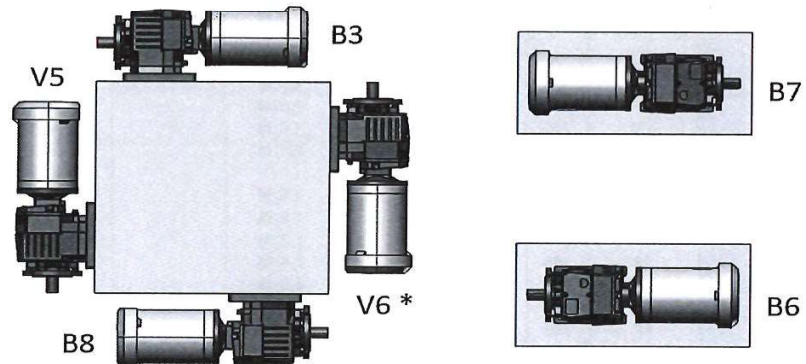
- This reducer is supplied with cast frame with integral feet
- This flange size is an option for Types B and F reducers that are Foot w/ Flange

HELICAL IN-LINE GEAR REDUCERS MOUNTING POSITIONS

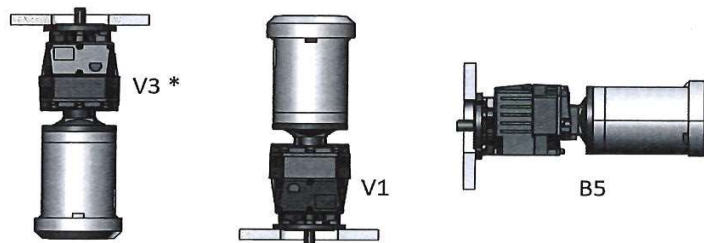
FOOT MOUNT



FOOT MOUNT WITH FLANGE



FLANGE MOUNT



* This mounting position is not recommended due to input oil seal position below gear oil sump.

¹ Illustrations above are C-face style reducers with a C-face motor. Any of these mounting positions shown are also applicable to reducers with keyed input shafts.

HELICAL IN-LINE GEAR REDUCERS

AGMA LOAD CLASSIFICATION NUMBERS

APPLICATION	LOAD			CLASS	APPLICATION	LOAD			CLASS
	Up to 3 hrs/day	Up to 10 hrs/day	Over 10 hrs/day			Up to 3 hrs/day	Up to 10 hrs/day	Over 10 hrs/day	
Agitators (Mixers)					Cranes (Continued)				
Pure Liquids	—	1.00	1.25		Boom Hoist	Refer To Application Engineering			
Liquids & Solids	1.00	1.25	1.50		Trolley Drive	Refer To Application Engineering			
Liquids - Variable Density	1.00	1.25	1.50		(Gantry Drive)				
					(Traction Drive)	Refer To Application Engineering			
Blowers					Mill Duty				
Centrifugal	1.00	1.25	—		Main	Refer To Application Engineering			
Lobe	1.00	1.25	1.50		Auxiliary	Refer To Application Engineering			
Vane	—	1.00	1.25		Bridge & Trolley Travel	Refer To Application Engineering			
Brewing and Distillers					Industrial Duty				
Bottling Machinery	—	1.00	1.25		Main	1.25	1.50	1.75	
Brew Kettles, Continuous Duty	—	1.00	1.25		Auxiliary	Refer To Application Engineering			
Cookers - Continuous Duty	—	1.00	1.25		Bridge & Trolley Travel	Refer To Application Engineering			
Mash Tubs - Continuous Duty	—	1.00	1.25						
Scale Hoppers, Frequent Starts	1.00	1.25	1.50		Crusher				
					Stone or Ore	1.50	1.75	2.00	
Can Filling Machines	—	1.00	1.25		Dredges				
Car Dumpers	1.25	1.50	1.75		Cable Reels	1.00	1.25	1.50	
Car Pullers	1.00	1.25	1.50		Conveyors	1.00	1.25	1.50	
Clarifiers	—	1.00	1.25		Cutter Head Drives	1.25	1.50	1.75	
Classifiers	1.00	1.25	1.50		Pumps	1.00	1.25	1.50	
Clayworking Industry					Screen Drives	1.25	1.50	1.75	
Brick Press	1.25	1.50	1.75		Stackers	1.00	1.25	1.50	
Briquette Machine	1.25	1.50	1.75		Winches	1.00	1.25	1.50	
Pug Mill	1.00	1.25	1.50		Elevators				
Compactors	1.50	1.75	2.00		Bucket	1.00	1.25	1.50	
Compressors					Centrifugal Discharge	—	1.00	1.25	
Centrifugal	—	1.00	1.25		Escalators	Refer To Application Engineering			
Lobe	1.00	1.25	1.50		Freight	Refer To Application Engineering			
Reciprocating, Multi - Cylinder	1.00	1.25	1.50		Gravity Discharge	—	1.00	1.25	
Reciprocating, Single - Cylinder	1.25	1.50	1.75		Extruders				
Conveyors - General Purpose					General	1.25	1.25	1.25	
Uniformly Loaded or Fed	—	1.00	1.25		Plastics				
Not Uniformly Fed	1.00	1.25	1.50		(a) Variable Speed Drive	1.50	1.50	1.50	
Reciprocating or Shaker	1.25	1.50	1.75		(b) Fixed Speed Drive	1.75	1.75	1.75	
Cranes					Rubber				
Dry Dock					(a) Continuous Screw Operation	1.50	1.50	1.50	
Main Hoist	1.25	1.50	1.75		(b) Intermittent Screw Operation	1.75	1.75	1.75	
Auxiliary	1.25	1.50	1.75		Fans				
Boom Hoist	1.25	1.50	1.75		Centrifugal	—	1.00	1.25	
Slewing Drive	1.25	1.50	1.75		Cooling Towers	Refer To Application Engineering			
Traction Drive	1.50	1.50	1.50		Forced Draft	1.25	1.25	1.25	
Container					Induced Draft	1.00	1.25	1.50	
Main Hoist	Refer To Application Engineering				Industrial & Mine	1.00	1.25	1.50	
					Feeders				
					Apron	—	1.25	1.50	
					Belt	1.00	1.25	1.50	
					Disc	—	1.00	1.25	
					Reciprocating	1.25	1.50	1.75	
					Screw	1.00	1.25	1.50	

HELICAL IN-LINE GEAR REDUCERS

AGMA LOAD CLASSIFICATION NUMBERS

APPLICATION	LOAD			CLASS	APPLICATION	LOAD			CLASS
	Up to 3 hrs/day	Up to 10 hrs/day	Over 10 hrs/day			Up to 3 hrs/day	Up to 10 hrs/day	Over 10 hrs/day	
Food Industry					Non-reversing				
Cereal Cooker	—	1.00	1.25		Group Drives	1.00	1.25	1.50	
Dough Mixers	1.00	1.25	1.50		Individual Drives	1.50	1.50	1.75	
Meat Grinders	1.00	1.25	1.50		Reversing	1.50	1.50	1.75	
Slicers	1.00	1.25	1.50		Slab Pushers	1.25	1.25	1.50	
					Shears	1.50	1.50	1.75	
Generators and Executors	—	1.00	1.25		Wire Drawing	1.00	1.25	1.50	
					Wire Winding Machine	1.00	1.25	1.50	
Hammer Mills	1.50	1.50	1.75						
					Metal Strip Processing Machinery				
Hoists					Bridles	1.25	1.25	1.50	
Heavy Duty	1.25	1.50	1.75		Coilers & Uncoilers	1.00	1.00	1.25	
Medium Duty	1.00	1.25	1.50		Edge Trimmers	1.00	1.25	1.50	
Skip Hoist	1.00	1.25	1.50		Flatteners	1.00	1.25	1.50	
					Loopers (Accumulators)	1.00	1.00	1.00	
Laundry Tumblers	1.00	1.25	1.50		Pinch Rolls	1.00	1.25	1.50	
					Scrap Choppers	1.00	1.25	1.50	
Laundry Washers	1.00	1.25	1.50		Shears	1.50	1.50	1.75	
					Slitters	1.00	1.25	1.50	
Lumber Industry									
Barkers					Mills, Rotary Type				
- Spindle Feed	1.25	1.25	1.25		Ball & Rod				
- Main Drive	1.50	1.50	1.50		Spur Ring Gear	1.50	1.50	1.75	
Conveyors					Helical Ring Gear	1.50	1.50	1.50	
- Burner	1.25	1.25	1.50		Direct Connected	1.50	1.50	1.75	
- Main or Heavy Duty	1.50	1.50	1.50		Cement Kilns	1.50	1.50	1.50	
- Main Log	1.50	1.50	1.50		Dryers & Coolers	1.50	1.50	1.50	
- Re-Saw, Merry-Go-Round	1.25	1.25	1.50						
- Slab	1.50	1.75	1.50		Mixers, Concrete	1.00	1.25	1.50	
- Transfer	1.25	1.25	1.50						
Chains					Paper Mills				
- Floor	1.50	1.50	1.50		Agitator (Mixer)	1.50	1.50	1.50	
- Green	1.50	1.50	1.50		Agitator for Pure Liquids	1.25	1.25	1.25	
Cut-Off Saws					Barkers - Mechanical	1.75	1.75	1.75	
- Chain	1.50	1.50	1.50		Barking Drums	1.75	1.75	1.75	
- Drag	1.50	1.50	1.50		Beater	1.50	1.50	1.50	
Debarking Drums	1.50	1.50	1.75		Breaker Stack	1.25	1.25	1.25	
Feeds					❖ Calender	1.25	1.25	1.25	
- Edger	1.25	1.25	1.50		Chipper	1.75	1.75	1.75	
- Gang	1.50	1.50	1.50		Chip Feeder	1.50	1.50	1.50	
- Trimmer	1.25	1.25	1.50		Coating Rolls	1.25	1.25	1.25	
Log Deck	1.50	1.50			Conveyors				
Log Hauls - Incline-Well Type	1.50	1.50	1.50		Chip, Bark, Chemical	1.25	1.25	1.25	
Log Turning Devices	1.50	1.50	1.50		Log (Including Slab)	1.75	1.75	1.75	
Planner Feed	1.25	1.25	1.25		Couch Rolls	1.25	1.25	1.25	
Planer Tilting Hoists	1.50	1.50	1.50		Cutter	1.75	1.75	1.75	
Rolls - Live-Off Bearing.-Roll Cases	1.50	1.50	1.50		Cylinder Molds	1.25	1.25	1.25	
Sorting Table	1.25	1.25	1.50		❖ Dryers				
Tipple Hoist	1.25	1.25	1.50		Paper Machine	1.25	1.25	1.25	
Transfers					Conveyor Type	1.25	1.25	1.25	
- Chain	1.50	1.50	1.50		Embosser	1.25	1.25	1.25	
- Causeway	1.50	1.50	1.50		Extruder	1.50	1.50	1.50	
Tray Drives	1.25	1.25	1.50		Fourdrinier Rolls (Includes Lump Breaker, Dandy				
Veneer Lathe Drives	Refer To Application Engineering				Roll, Wire Turning, and Return Rolls)	1.25	1.25	1.25	
					Jordan	1.25	1.25	1.25	
Metal Mills					Kiln Drive	1.50	1.50	1.50	
Draw Bench Carriage & Main Drive	1.00	1.25	1.50		Mt. Hope Roll	1.25	1.25	1.25	
Runout Table									

❖ Anti-friction bearings only.

HELICAL IN-LINE GEAR REDUCERS

AGMA LOAD CLASSIFICATION NUMBERS

APPLICATION	LOAD		CLASS	APPLICATION	LOAD		CLASS
	Up to 3 hrs/day	Up to 10 hrs/day			Up to 3 hrs/day	Up to 10 hrs/day	
Paper Mills (Continued)				Rubber Industry			
Paper Rolls	1.25	1.25	1.25	Intensive Internal Mixers			
Platter	1.50	1.50	1.50	(a) Batch Mixers	1.50	1.75	1.75
Presses - Felt & Suction	1.25	1.25	1.25	(b) Continuous Mixers	1.25	1.50	1.50
Pulper	1.50	1.50	1.75	Mixing Mill - 2 Smooth Rolls - (If corrugated rolls are used, (then use the same service factors that are used for a Cracker-Warmer)	1.50	1.50	1.50
Pumps - Vacuum	1.50	1.50	1.50	Batch Drop Mill - 2 Smooth Rolls	1.50	1.50	1.50
Reel (Surface Type)	1.25	1.25	1.50	Cracker Warmer - 1 Corrugated Roll	1.75	1.75	1.75
Screens				Cracker - 2 Corrugated Rolls	1.75	1.75	1.75
Chip	1.50	1.50	1.50	Holding, Feed & Blend Mill - 2 Rolls	1.25	1.25	1.25
Rotary	1.50	1.50	1.50	Refiner - 2 Rolls	1.50	1.50	1.50
Vibrating	1.75	1.75	1.75	Calenders	1.50	1.50	1.50
Size Press	1.25	1.25	1.25				
Super Calender (See Note)	1.25	1.25	1.25	Sand Miller	1.00	1.25	1.50
Thickner							
(AC Motor)	1.50	1.50	1.50	Sewage Disposal			
(DC Motor)	1.25	1.25	1.25	Bar Screens	—	1.00	1.25
Washer				Chemical Feeders	—	1.00	1.25
(AC Motor)	1.50	1.50	1.50	Dewatering Screens	1.00	1.25	1.50
(DC Motor)	1.25	1.25	1.25	Scum Breakers	1.00	1.25	1.50
Wind and Unwind Stand	1.00	1.00	1.00	Slow or Rapid Mixers	1.00	1.25	1.50
Winders (Surface Type)	1.25	1.25	1.25	Sludge Collectors	1.00	1.00	1.25
❖ Yankee Dryers	1.25	1.25	1.25	Thickeners	1.00	1.25	1.50
				Vacuum Filters	1.00	1.25	1.50
Plastics Industry - Primary Processing				Screens			
Intensive Internal Mixers				Air Washing	—	1.00	1.25
(a) Batch Mixers	1.75	1.75	1.75	Rotary - Stone or Gravel	1.00	1.25	1.50
(b) Continuous Mixers	1.50	1.50	1.50	Traveling Water Intake	—	1.00	1.25
Batch Drop Mill - 2 Smooth Rolls	1.25	1.25	1.25				
Continuous Feed, Holding & Blend Mill	1.25	1.25	1.25	Sugar Industry			
Compounding Mills	1.25	1.25	1.25	Beet Slicer	1.50	1.50	1.75
Calenders	1.50	1.50	1.50	Cane Knives	1.50	1.50	1.50
				Crushers 1.50	1.50	1.50	
Plastics Industry - Secondary Processing				Mills (Low Speed End)	1.50	1.50	1.50
Blow Molders	1.50	1.50	1.50				
Coating	1.25	1.25	1.25	Textile Industry			
Film	1.25	1.25	1.25	Batchers	1.00	1.25	1.50
Pipe	1.25	1.25	1.25	Calenders	1.00	1.25	1.50
Pre-Plasticizers	1.50	1.50	1.50	Cards	1.00	1.25	1.50
Rods	1.25	1.25	1.25	Dry Cans	1.00	1.25	1.50
Sheet	1.25	1.25	1.25	Dryers	1.00	1.25	1.50
Tubing	1.25	1.25	1.50	Dyeing Machinery	1.00	1.25	1.50
				Looms	1.00	1.25	1.50
Pullers - Barge Haul	1.00	1.50	1.75	Mangles	1.00	1.25	1.50
				Nappers	1.00	1.25	1.50
Pumps				Pads	1.00	1.25	1.50
Centrifugal	—	1.00	1.25	Slashers	1.00	1.25	1.50
Proportioning	1.00	1.25	1.50	Soapers	1.00	1.25	1.50
Reciprocating				Spinners	1.00	1.25	1.50
Single Acting, 3 or more cylinders	1.00	1.25	1.50	Tenter Frames	1.00	1.25	1.50
Double Acting, 2 or more cylinders	1.00	1.25	1.50	Washers	1.00	1.25	1.50
Rotary				Winders	1.00	1.25	1.50
- Gear	—	1.00	1.50				
- Lobe	—	1.00	1.25				
- Vane	—	1.00	1.25				

❖ Anti-friction bearings only.

NOTE: A service factor of 1.0 may be applied at the base of a super calender, operating over a speed range where part of the range is constant horsepower and part of the range is constant torque, provided that the constant horsepower part is greater than 1.5 to 1. A service factor of 1.25 is applicable to super calenders operating over the entire speed range at constant torque, or where the constant horsepower speed range is less than 1.5 to 1.

HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM•

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
1/3	497	40	3.52	3+	I, II, III	204	HI517 2	56C
	400	50	4.37	3+	I, II, III	216	HI517 2	56C
	315	63	5.56	3+	I, II, III	230	HI517 2	56C
	275	73	6.36	3+	I, II, III	250	HI517 2	56C
	239	84	7.33	3+	I, II, III	260	HI517 2	56C
	222	90	7.89	3+	I, II, III	266	HI517 2	56C
	174	115	10.06	3+	I, II, III	284	HI517 2	56C
	150	133	11.66	3+	I, II, III	293	HI517 2	56C
	132	151	13.26	3+	I, II, III	305	HI517 2	56C
	114	175	15.37	3+	I, II, III	321	HI517 2	56C
	108	185	16.20	3+	I, II, III	335	HI517 2	56C
	93	214	18.78	3+	I, II, III	350	HI517 2	56C
	81	246	21.54	3+	I, II, III	374	HI517 2	56C
	79	254	22.29	3+	I, II, III	375	HI517 2	56C
	67	300	26.31	2.66	I, II, III	420	HI517 2	56C
	60	336	29.40	2.38	I, II, III	435	HI517 2	56C
	52	378	33.85	2.11	I, II, III	459	HI517 3	56C
	49	410	35.91	1.95	I, II	470	HI517 2	56C
	49	410	35.91	2.83	III	646	HI527 2	56C
	46	438	38.37	1.82	I, II	478	HI517 2	56C
	46	438	38.37	2.57	III	657	HI527 2	56C
	40	488	43.69	1.63	I, II	495	HI517 3	56C
	37	535	46.87	1.49	I, II	507	HI517 2	56C
	37	535	46.87	2.00	III	674	HI527 2	56C
	35	578	50.67	1.38	I	510	HI517 2	56C
	35	578	50.67	1.95	II	674	HI527 2	56C
	33	596	53.36	1.34	I	520	HI517 3	56C
	29	695	60.90	3+	III	1028	HI537 2	56C
	28	706	61.89	1.13	I	532	HI517 2	56C
	28	706	61.89	1.51	II	674	HI527 2	56C
	26	740	66.22	2.75	III	1046	HI537 3	56C
	25	793	70.95	1.01	I	540	HI517 3	56C
	25	793	70.95	1.50	II	674	HI527 3	56C
	25	793	71.01	2.57	III	1062	HI537 3	56C
	24	820	73.43	1.36	I	674	HI527 3	56C
	23	835	74.77	1.39	I	674	HI527 3	56C
	23	857	76.69	2.38	II, III	1079	HI537 3	56C
	21	919	82.30	2.21	II, III	1094	HI537 3	56C
	20	968	86.66	1.20	I	674	HI527 3	56C
	18.9	1037	92.78	1.96	I, II	1121	HI537 3	56C
	18.9	1037	92.78	2.70	III	1121	HI547 3	56C
	18.1	1082	96.85	1.10	I	674	HI527 3	56C
	17.0	1149	102.89	1.02	I	674	HI527 3	56C

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H

◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION

• FOR INPUT SPEEDS ABOVE 1750 RPM, UNIT MAY BECOME THERMALLY LIMITED IF OPERATING FOR EXTENDED PERIODS OF TIME

HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL $\diamond$ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
1/3	16.7	1169	104.68	1.74	II	1123	HI537 3	56C
	16.7	1169	104.68	2.39	III	1123	HI547 3	56C
	14.9	1310	117.22	1.55	I, II	1123	HI537 3	56C
	14.9	1310	117.22	2.14	III	1123	HI547 3	56C
	13.8	1415	126.65	1.44	I	1123	HI537 3	56C
	13.8	1415	126.65	2.0	III	1123	HI547 3	56C
	12.9	1516	135.74	2.49	III	1460	HI557 3	56C
	12.8	1526	136.62	1.33	I	1123	HI537 3	56C
	12.8	1526	136.62	1.83	II	1123	HI547 3	56C
	12.0	1627	145.68	1.72	II	1123	HI547 3	56C
	12.0	1627	145.68	2.29	III	1460	HI557 3	56C
	11.1	1758	157.40	1.59	II	1123	HI547 3	56C
	11.1	1758	157.40	2.12	III	1460	HI557 3	56C
	10.6	1847	165.29	1.10	I	1123	HI537 3	56C
	10.6	1847	165.29	1.52	II	1123	HI547 3	56C
	10.6	1847	165.29	2.42	III	1460	HI557 3	56C
	9.7	2015	180.40	1.39	I	1123	HI547 3	56C
	9.5	2057	184.15	2.90	II, III	2023	HI567 3	56C
	9.4	2070	185.29	1.82	I	1460	HI557 3	56C
	8.6	2280	204.12	1.23	I	1123	HI547 3	56C
	8.5	2295	205.43	1.63	II	1460	HI557 3	56C
	8.5	2300	205.87	2.60	III	2023	HI567 3	56C
	7.8	2504	224.18	1.12	I	1123	HI547 3	56C
	7.8	2504	224.18	1.78	II	1460	HI557 3	56C
	7.3	2685	240.34	2.22	I, II, III	2023	HI567 3	56C
	7.2	2706	242.18	2.94	III	3372	HI577 3	56C
	7.0	2795	250.15	2.85	I, II, III	3372	HI577 3	56C
	6.3	3113	278.62	1.20	I	1460	HI557 3	56C
	6.3	3119	279.22	1.89	II	2023	HI567 3	56C
	6.1	3229	289.08	2.47	III	3372	HI577 3	56C
	5.4	3642	325.97	1.64	I, II	2023	HI567 3	56C
	5.3	3690	330.31	2.13	III	3372	HI577 3	56C
	4.8	4071	364.41	1.45	I, II	2023	HI567 3	56C
	4.4	4408	394.59	1.81	I, II	3372	HI577 3	56C
	4.1	4753	425.43	1.26	I	2023	HI567 3	56C
	3.6	5376	481.19	1.09	I	2023	HI567 3	56C
	3.4	5753	514.99	1.38	I	3372	HI577 3	56C
	2.6	7597	680.03	1.05	I	3372	HI577 3	56C

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H

$\diamond$ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION

• FOR INPUT SPEEDS ABOVE 1750 RPM, UNIT MAY BECOME THERMALLY LIMITED IF OPERATING FOR EXTENDED PERIODS OF TIME

HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM•

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
1/2	497	61	3.52	3+	I, II, III	204	HI517 2	56C
	400	76	4.37	3+	I, II, III	216	HI517 2	56C
	315	96	5.56	3+	I, II, III	230	HI517 2	56C
	275	110	6.36	3+	I, II, III	250	HI517 2	56C
	239	127	7.33	3+	I, II, III	260	HI517 2	56C
	222	136	7.89	3+	I, II, III	266	HI517 2	56C
	174	174	10.06	3+	I, II, III	284	HI517 2	56C
	150	202	11.66	3+	I, II, III	293	HI517 2	56C
	132	229	13.26	3+	I, II, III	305	HI517 2	56C
	114	266	15.37	3.00	I, II, III	321	HI517 2	56C
	108	280	16.20	2.85	I, II, III	335	HI517 2	56C
	93	325	18.78	2.46	I, II, III	350	HI517 2	56C
	81	373	21.54	2.14	I, II, III	374	HI517 2	56C
	79	385	22.29	2.07	I, II, III	375	HI517 2	56C
	67	455	26.31	1.75	I, II	420	HI517 2	56C
	67	455	26.31	2.55	III	594	HI527 2	56C
	60	508	29.40	1.57	I, II	435	HI517 2	56C
	60	508	29.40	2.34	III	612	HI527 2	56C
	52	573	33.85	2.08	I, II, III	636	HI527 3	56C
	49	621	35.91	1.28	I	470	HI517 2	56C
	49	621	35.91	1.86	II	646	HI527 2	56C
	46	664	38.37	1.20	I	478	HI517 2	56C
	46	664	38.37	1.70	II	657	HI527 2	56C
	44	674	39.79	3+	III	934	HI537 3	56C
	40	740	43.69	1.08	I	495	HI517 3	56C
	40	740	43.69	1.61	II	674	HI527 3	56C
	37	811	46.87	1.31	I	674	HI527 2	56C
	37	799	47.22	2.55	II, III	972	HI537 3	56C
	35	876	50.67	1.29	I	674	HI527 2	56C
	33	903	53.36	1.29	I	674	HI527 3	56C
	32	926	54.73	2.20	II, III	1005	HI537 3	56C
	31	967	57.13	2.10	III	1014	HI537 3	56C
	28	1070	61.89	1.00	I	674	HI527 2	56C
	26	1121	66.22	1.82	I, II	1046	HI537 3	56C
	26	1121	66.22	2.50	III	1046	HI547 3	56C
	25	1202	71.01	1.69	I, II	1062	HI537 3	56C
	25	1202	71.01	2.33	III	1062	HI547 3	56C
	23	1298	76.69	1.57	I, II	1079	HI537 3	56C
	23	1298	76.69	2.16	III	1079	HI547 3	56C
	21	1393	82.30	1.46	I, II	1094	HI537 3	56C
	21	1393	82.30	2.01	III	1094	HI547 3	56C
	18.9	1570	92.78	1.30	I	1121	HI537 3	56C
	18.9	1570	92.78	1.78	II	1121	HI547 3	56C
	18.9	1570	92.78	2.84	III	1404	HI557 3	56C

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HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
1/2	16.7	1772	104.68	1.15	I	1123	HI537 3	56C
	16.7	1772	104.68	1.58	II	1123	HI547 3	56C
	16.7	1772	104.68	2.50	III	1439	HI557 3	56C
	14.9	1984	117.22	1.41	I, II	1123	HI547 3	56C
	14.9	1984	117.22	2.25	III	1460	HI557 3	56C
	13.8	2144	126.65	1.31	I	1123	HI547 3	56C
	13.8	2144	126.65	2.08	II, III	1460	HI557 3	56C
	13.0	2284	134.91	2.62	III	2023	HI567 3	56C
	12.9	2298	135.74	1.64	II	1460	HI557 3	56C
	12.8	2313	136.62	1.21	I	1123	HI547 3	56C
	12.0	2466	145.68	1.14	I	1123	HI547 3	56C
	12.0	2466	145.68	1.51	II	1460	HI557 3	56C
	11.9	2489	147.05	2.40	III	2023	HI567 3	56C
	11.1	2664	157.40	1.05	I	1123	HI547 3	56C
	11.1	2664	157.40	1.40	II	1460	HI557 3	56C
	10.6	2798	165.29	1.00	I	1123	HI547 3	56C
	10.6	2798	165.29	1.60	II	1460	HI557 3	56C
	10.3	2885	170.44	2.07	III	2023	HI567 3	56C
	9.8	3013	178.01	2.64	III	3372	HI577 3	56C
	9.5	3117	184.15	1.92	II	2023	HI567 3	56C
	9.4	3136	185.29	1.20	I	1460	HI557 3	56C
	9.1	3244	191.67	2.46	II, III	3372	HI577 3	56C
	8.5	3477	205.43	1.07	I	1460	HI557 3	56C
	8.5	3485	205.87	1.71	II	2023	HI567 3	56C
	8.5	3492	206.32	2.28	III	3372	HI577 3	56C
	7.9	3773	222.92	2.11	II, III	3372	HI577 3	56C
	7.8	3795	224.18	1.18	I	1460	HI557 3	56C
	7.3	4068	240.34	1.47	I, II	2023	HI567 3	56C
	7.2	4099	242.18	1.94	I, II	3372	HI577 3	56C
	7.0	4234	250.15	1.88	I, II	3372	HI577 3	56C
	6.3	4726	279.22	1.25	I	2023	HI567 3	56C
	6.1	4893	289.08	1.63	II	3372	HI577 3	56C
	5.4	5518	325.97	1.08	I	2023	HI567 3	56C
	5.3	5591	330.31	1.41	II	3372	HI577 3	56C
	4.4	6679	394.59	1.19	I	3372	HI577 3	56C
1/3	497	91	3.52	3+	I, II, III	204	HI517 2	56C
	400	113	4.37	3+	I, II, III	216	HI517 2	56C
	315	144	5.56	3+	I, II, III	230	HI517 2	56C
	275	165	6.36	3+	I, II, III	250	HI517 2	56C
	239	190	7.33	3+	I, II, III	260	HI517 2	56C
	222	205	7.89	3+	I, II, III	266	HI517 2	56C
	174	261	10.06	3+	I, II, III	284	HI517 2	56C
	150	302	11.66	2.64	I, II, III	293	HI517 2	56C
	132	344	13.26	2.32	I, II, III	305	HI517 2	56C
	114	399	15.37	2.00	I, II, III	321	HI517 2	56C

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HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL $\diamond$ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT*
3/4	108	420	16.20	1.90	I, II	335	HI517 2	56C
	108	420	16.20	2.76	III	512	HI527 2	56C
	93	487	18.78	1.64	I, II	350	HI517 2	56C
	93	487	18.78	2.38	III	537	HI527 2	56C
	81	559	21.54	1.43	I, II	374	HI517 2	56C
	81	559	21.54	2.13	III	560	HI527 2	56C
	79	578	22.29	1.38	I	375	HI517 2	56C
	79	578	22.29	2.06	II, III	566	HI527 2	56C
	70	648	24.98	3+	I, II, III	832	HI537 2	56C
	67	683	26.31	1.17	I	420	HI517 2	56C
	67	683	26.31	1.70	II	594	HI527 2	56C
	60	763	29.40	1.05	I	435	HI517 2	56C
	60	763	29.40	1.56	II	612	HI527 2	56C
	60	763	29.41	2.64	III	868	HI537 2	56C
	49	932	35.91	1.24	I	646	HI527 2	56C
	49	923	35.58	2.19	II, III	910	HI537 2	56C
	46	995	38.37	1.13	I	657	HI527 2	56C
	44	1010	39.79	2.01	III	934	HI537 3	56C
	43	1051	40.50	1.94	I, II	938	HI537 2	56C
	37	1199	47.22	1.70	I, II	972	HI537 3	56C
	36	1271	49.00	1.59	I, II	980	HI537 2	56C
	36	1271	49.00	1.89	I, II	980	HI547 2	56C
	36	1271	49.00	2.70	III	1219	HI557 2	56C
	32	1390	54.73	1.46	I, II	1005	HI537 3	56C
	32	1390	54.73	2.01	III	1005	HI547 3	56C
	31	1482	57.13	1.37	I	1014	HI537 3	56C
	31	1451	57.13	1.93	II	1014	HI547 3	56C
	29	1580	60.90	2.17	III	1282	HI557 2	56C
	26	1681	66.22	1.21	I	1046	HI537 3	56C
	26	1681	66.22	1.66	II	1046	HI547 3	56C
	26	1681	66.22	2.63	III	1306	HI557 3	56C
	25	1803	71.01	1.13	I	1062	HI537 3	56C
	25	1803	71.01	1.55	II	1062	HI547 3	56C
	25	1803	71.01	2.07	III	1327	HI557 3	56C
	23	1947	76.69	1.05	I	1079	HI537 3	56C
	23	1947	76.69	1.44	II	1079	HI547 3	56C
	23	1947	76.69	2.27	III	1349	HI557 3	56C
	21	2090	82.30	1.34	I	1094	HI547 3	56C
	21	2090	82.30	1.79	II	1369	HI557 3	56C
	21	2094	82.48	2.85	III	1895	HI567 3	56C
	18.9	2356	92.78	1.19	I	1121	HI547 3	56C
	18.9	2356	92.78	1.89	II	1404	HI557 3	56C
	18.2	2445	96.29	2.44	III	1959	HI567 3	56C
	17.4	2552	100.51	2.34	I, II	1977	HI567 3	56C
	16.7	2658	104.68	1.05	I	1123	HI547 3	56C

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HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
3/4	16.7	2658	104.68	1.66	II	1439	HI557 3	56C
	15.1	2934	115.56	2.04	I, II, III	2023	HI567 3	56C
	14.9	2976	117.22	1.50	I, II	1460	HI557 3	56C
	14.2	3127	123.15	3+	III	5171	HI587 3	56C
	13.9	3198	125.96	1.84	I, II	2023	HI567 3	56C
	13.8	3216	126.65	1.39	I	1460	HI557 3	56C
	13.0	3425	134.91	1.74	I, II	2023	HI567 3	56C
	12.9	3446	135.74	1.10	I	1460	HI557 3	56C
	12.8	3474	136.82	2.29	II, III	3372	HI577 3	56C
	12.0	3699	145.68	1.01	I	1460	HI557 3	56C
	11.9	3734	147.05	1.60	II	2023	HI567 3	56C
	11.6	3827	150.73	3+	III	5171	HI587 3	56C
	11.4	3886	153.05	1.84	I, II	3372	HI577 3	56C
	10.7	4146	163.31	1.92	I, II	3372	HI577 3	56C
	10.3	4327	170.44	1.38	I	2023	HI567 3	56C
	9.8	4520	178.01	1.76	I, II	3372	HI577 3	56C
	9.8	4555	179.39	3+	III	5171	HI587 3	56C
	9.5	4676	184.15	1.28	I	2023	HI567 3	56C
	9.1	4867	191.67	1.64	I, III	3372	HI577 3	56C
	8.5	5227	205.87	1.14	I	2023	HI567 3	56C
	8.5	5238	206.32	1.52	II	3372	HI577 3	56C
	8.0	5535	217.98	2.76	II, III	5171	HI587 3	56C
	7.9	5660	222.92	1.41	I, II	3372	HI577 3	56C
	7.2	6149	242.18	1.30	I	3372	HI577 3	56C
	7.1	6272	247.03	2.75	II, III	5171	HI587 3	56C
	7.0	6351	250.15	1.25	I	3372	HI577 3	56C
	6.1	7340	289.08	1.09	I	3372	HI577 3	56C
	5.8	7621	300.17	2.44	II, III	5171	HI587 3	56C
1	497	122	3.52	3+	I, II, III	204	HI517 2	56C or 143TC
	400	151	4.37	3+	I, II, III	216	HI517 2	56C or 143TC
	315	192	5.56	3+	I, II, III	230	HI517 2	56C or 143TC
	275	220	6.36	2.74	I, II, III	250	HI517 2	56C or 143TC
	239	254	7.33	2.37	I, II, III	260	HI517 2	56C or 143TC
	222	273	7.89	2.21	I, II, III	266	HI517 2	56C or 143TC
	174	348	10.06	2.29	I, II, III	284	HI517 2	56C or 143TC
	150	403	11.66	1.98	I, II	293	HI517 2	56C or 143TC
	150	403	11.66	2.95	III	457	HI527 2	56C or 143TC
	132	459	13.26	1.74	I, II	305	HI517 2	56C or 143TC
	132	459	13.26	2.59	III	479	HI527 2	56C or 143TC
	114	532	15.37	1.50	I, II	321	HI517 2	56C or 143TC
	114	532	15.37	2.24	III	504	HI527 2	56C or 143TC
	108	560	16.20	1.42	I, II	335	HI517 2	56C or 143TC
	108	560	16.20	2.07	III	512	HI527 2	56C or 143TC
	93	650	18.78	1.23	I	350	HI517 2	56C or 143TC
	93	650	18.78	1.78	II	537	HI527 2	56C or 143TC
	87	695	20.10	2.86	III	784	HI537 2	56C or 143TC
	81	745	21.54	1.07	II	374	HI517 2	56C or 143TC

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HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT*
1	81	745	21.54	1.60	II	560	HI527 2	56C or 143TC
	79	771	22.29	1.04	I	375	HI517 2	56C or 143TC
	79	771	22.29	1.54	II	566	HI527 2	56C or 143TC
	70	864	24.98	2.32	III	832	HI537 2	56C or 143TC
	67	910	26.31	1.27	I	594	HI527 2	56C or 143TC
	60	1017	29.40	1.17	I	612	HI527 2	56C or 143TC
	60	1017	29.41	1.98	II	868	HI537 2	56C or 143TC
	60	1017	29.41	2.46	III	868	HI547 2	56C or 143TC
	52	1146	33.85	1.04	I	636	HI527 3	56C
	49	1231	35.58	1.64	I, II	910	HI537 2	56C or 143TC
	49	1231	35.58	2.03	III	910	HI547 2	56C or 143TC
	43	1401	40.50	1.45	I, II	938	HI537 2	56C or 143TC
	40	1530	44.23	1.33	I	958	HI537 2	56C or 143TC
	40	1530	44.23	1.50	II	958	HI547 2	56C or 143TC
	40	1530	44.23	2.24	III	1189	HI557 2	56C or 143TC
	37	1599	47.22	1.75	I, II	972	HI547 3	56C or 143TC
	36	1695	49.00	1.19	I	980	HI537 2	56C or 143TC
	36	1695	49.00	1.42	II	980	HI547 2	56C or 143TC
	36	1695	49.00	2.03	III	1219	HI557 2	56C or 143TC
	32	1853	54.73	1.10	I	1005	HI537 3	56C or 143TC
	32	1853	54.73	1.51	II	1005	HI547 3	56C or 143TC
	32	1853	54.73	2.39	III	1251	HI557 3	56C or 143TC
	31	1934	57.13	1.05	I	1014	HI537 3	56C or 143TC
	31	1934	57.13	1.45	II	1014	HI547 3	56C or 143TC
	31	1934	57.13	2.29	III	1263	HI557 3	56C or 143TC
	29	2106	60.90	1.02	I	1028	HI547 2	56C or 143TC
	29	2106	60.90	1.63	II	1282	HI557 2	56C or 143TC
	29	2111	61.03	2.01	III	1769	HI567 2	56C or 143TC
	28	2095	61.89	2.85	III	1775	HI567 3	56C or 143TC
	26	2242	66.22	1.25	I	1046	HI547 3	56C or 143TC
	26	2242	66.22	1.97	II	1306	HI557 3	56C or 143TC
	25	2404	71.01	1.16	I	1062	HI547 3	56C or 143TC
	25	2404	71.01	1.55	II	1327	HI557 3	56C or 143TC
	25	2464	71.25	2.01	III	1834	HI567 2	56C or 143TC
	23	2596	76.69	1.08	I	1079	HI547 3	56C or 143TC
	23	2596	76.69	1.70	II	1349	HI557 3	56C or 143TC
	21	2786	82.30	1.00	I	1094	HI547 3	56C or 143TC
	21	2786	82.30	1.34	I	1369	HI557 3	56C or 143TC
	21	2792	82.48	2.14	II, III	1895	HI567 3	56C or 143TC
	20	2927	86.47	2.72	III	3258	HI577 3	56C or 143TC
	18.9	3141	92.78	1.42	I, II	1404	HI557 3	56C or 143TC
	18.2	3260	96.29	1.83	I, II	1959	HI567 3	56C or 143TC
	17.5	3393	100.22	2.35	III	3360	HI577 3	56C or 143TC
	17.4	3403	100.51	1.76	I, II	1977	HI567 3	56C or 143TC
	16.7	3544	104.68	1.25	I	1439	HI557 3	56C or 143TC

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HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL $\diamond$ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT*
1	15.1	3912	115.56	1.53	I, II	2023	HI567 3	56C or 143TC
	15.0	3946	116.56	2.02	III	3372	HI577 3	56C or 143TC
	14.9	3968	117.22	1.12	I	1460	HI557 3	56C or 143TC
	14.2	4169	123.15	3+	II, III	5171	HI587 3	56C or 143TC
	13.9	4264	125.96	1.38	I	2023	HI567 3	56C or 143TC
	13.8	4288	126.65	1.04	I	1460	HI557 3	56C or 143TC
	13.0	4567	134.91	1.31	I	2023	HI567 3	56C or 143TC
	12.8	4632	136.82	1.72	II	3372	HI577 3	56C or 143TC
	11.9	4978	147.05	1.20	I	2023	HI567 3	56C or 143TC
	11.6	5103	150.73	3+	II, III	5171	HI587 3	56C or 143TC
	11.4	5181	153.05	1.38	I	3372	HI577 3	56C or 143TC
	10.7	5529	163.31	1.44	I, II	3372	HI577 3	56C or 143TC
	10.3	5770	170.44	1.04	I	2023	HI567 3	56C or 143TC
	9.8	6026	178.01	1.32	I	3372	HI577 3	56C or 143TC
	9.8	6073	179.39	3+	II, III	5171	HI587 3	56C or 143TC
	8.5	6985	206.32	1.14	I	3372	HI577 3	56C or 143TC
	8.0	7379	217.98	2.52	II, III	5171	HI587 3	56C or 143TC
	7.9	7547	222.92	1.06	I	3372	HI577 3	56C or 143TC
	7.1	8363	247.03	2.06	I, II, III	5171	HI587 3	56C or 143TC
	5.8	10162	300.17	1.83	I, II	5171	HI587 3	56C or 143TC
1.5	497	183	3.52	3+	I, II, III	204	HI517 2	56C or 145TC
	400	227	4.37	2.66	I, II, III	216	HI517 2	56C or 145TC
	315	288	5.56	2.09	I, II, III	230	HI517 2	56C or 145TC
	275	330	6.36	1.82	I, II	250	HI517 2	56C or 145TC
	275	330	6.36	2.47	III	356	HI527 2	56C or 145TC
	239	380	7.33	1.58	I, II	260	HI517 2	56C or 145TC
	239	380	7.33	2.71	III	379	HI527 2	56C or 145TC
	222	409	7.89	1.47	I, II	266	HI517 2	56C or 145TC
	222	409	7.89	2.52	III	392	HI527 2	56C or 145TC
	174	522	10.06	1.53	I, II	284	HI517 2	56C or 145TC
	174	522	10.06	2.28	III	433	HI527 2	56C or 145TC
	153	593	11.43	3+	III	660	HI537 2	145TC
	150	605	11.66	1.32	I	293	HI517 2	56C or 145TC
	150	605	11.66	1.97	III	457	HI527 2	56C or 145TC
	132	688	13.26	1.16	I	305	HI517 2	56C or 145TC
	132	688	13.26	1.73	II	479	HI527 2	56C or 145TC
	123	737	14.21	2.66	I, II, III	708	HI537 2	145TC
	114	797	15.37	1.00	I	321	HI517 2	56C or 145TC
	114	797	15.37	1.49	II	504	HI527 2	56C or 145TC
	108	840	16.20	1.38	I	512	HI527 2	56C or 145TC
	105	862	16.62	2.30	II, III	742	HI537 2	56C or 145TC
	93	974	18.78	1.19	I	537	HI527 2	56C or 145TC
	87	1043	20.10	1.91	II	784	HI537 2	56C or 145TC
	87	1043	20.10	2.40	III	784	HI547 2	56C or 145TC
	81	1118	21.54	1.06	I	560	HI527 2	56C or 145TC

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H

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• FOR INPUT SPEEDS ABOVE 1750 RPM, UNIT MAY BECOME THERMALLY LIMITED IF OPERATING FOR EXTENDED PERIODS OF TIME

HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT*
1.5	71	1277	24.61	3+	III	1019	HI557 2	145TC
	70	1296	24.98	1.54	I, II	832	HI537 2	56C or 145TC
	60	1526	29.41	1.32	I	868	HI537 2	56C or 145TC
	60	1526	29.41	1.64	II	868	HI547 2	56C or 145TC
	60	1526	29.41	2.53	III	1071	HI557 2	56C or 145TC
	51	1727	34.01	2.16	I, II, III	1113	HI557 3	56C or 145TC
	49	1846	35.58	1.10	I	910	HI537 2	56C or 145TC
	49	1846	35.58	2.42	II, III	1126	HI557 2	56C or 145TC
	45	2000	38.55	2.57	III	1577	HI567 2	56C or 145TC
	44	2021	39.79	1.84	II	1159	HI557 3	56C or 145TC
	43	2101	40.50	1.14	I	938	HI547 2	56C or 145TC
	40	2295	44.23	1.50	II	1189	HI557 2	56C or 145TC
	39	2299	44.32	2.56	III	1635	HI567 2	56C or 145TC
	37	2398	47.22	1.17	I	972	HI547 3	56C or 145TC
	37	2398	47.22	1.84	II	1208	HI557 3	56C or 145TC
	36	2542	49.00	1.35	I	1219	HI557 2	56C or 145TC
	34	2684	51.74	2.23	I, II, III	1700	HI567 2	56C or 145TC
	32	2794	53.85	2.57	III	2930	HI577 2	56C or 145TC
	32	2779	54.73	1.59	I, II	1251	HI557 3	56C or 145TC
	29	3160	60.90	1.09	I	1282	HI557 2	56C or 145TC
	28	3143	61.89	1.90	II	1775	HI567 3	56C or 145TC
	28	3249	62.63	2.45	III	3035	HI577 2	56C or 145TC
	26	3363	66.22	1.31	I	1306	HI557 3	56C or 145TC
	25	3614	71.16	1.65	II	1833	HI567 3	56C or 145TC
	25	3606	71.01	1.04	I	1327	HI557 3	56C or 145TC
	25	3557	70.04	3+	III	4706	HI587 3	56C or 145TC
	24	3848	74.16	1.35	I	3152	HI577 2	56C or 145TC
	23	3834	75.50	1.90	II	3164	HI577 3	56C or 145TC
	23	3894	76.69	1.14	I	1349	HI557 3	56C or 145TC
	21	4188	82.48	1.43	I, II	1895	HI567 3	56C or 145TC
	21	4335	85.36	3+	III	4888	HI587 3	56C or 145TC
	20	4391	86.47	1.81	I, II	3258	HI577 3	56C or 145TC
	18.5	4809	94.70	3+	II, III	4983	HI587 3	56C or 145TC
	18.2	4890	96.29	1.22	I	1959	HI567 3	56C or 145TC
	17.5	5089	100.22	1.57	II	3360	HI577 3	56C or 145TC
	17.4	5104	100.51	1.17	I	1977	HI567 3	56C or 145TC
	17.3	5147	101.35	3+	II, III	5045	HI587 3	56C or 145TC
	15.1	5868	115.56	1.02	I	2023	HI567 3	56C or 145TC
	15.0	5919	116.56	1.35	I	3372	HI577 3	56C or 145TC
	14.2	6254	123.15	2.97	II, III	5171	HI587 3	56C or 145TC
	12.8	6948	136.82	1.15	I	3372	HI577 3	56C or 145TC
	11.6	7654	150.73	2.43	II, III	5171	HI587 3	56C or 145TC
	9.8	9109	179.39	2.04	II, III	5171	HI587 3	56C or 145TC
	8.0	11069	217.98	1.68	I, II	5171	HI587 3	56C or 145TC
	7.1	12544	247.03	1.38	I	5171	HI587 3	56C or 145TC
	5.8	15243	300.17	1.22	I	5171	HI587 3	56C or 145TC

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H

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• FOR INPUT SPEEDS ABOVE 1750 RPM, UNIT MAY BECOME THERMALLY LIMITED IF OPERATING FOR EXTENDED PERIODS OF TIME

HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT*
2	497	244	3.52	2.47	I, II, III	204	HI517 2	145TC
	497	244	3.52	2.82	I, II, III	256	HI527 2	145TC
	400	302	4.37	1.99	I, II	216	HI517 2	145TC
	400	302	4.37	2.56	III	293	HI527 2	145TC
	315	385	5.56	1.57	I, II	230	HI517 2	145TC
	315	385	5.56	2.23	III	333	HI527 2	145TC
	275	440	6.36	1.37	I	250	HI517 2	145TC
	275	440	6.36	1.85	II	356	HI527 2	145TC
	239	507	7.33	1.19	I	260	HI517 2	145TC
	239	507	7.33	2.03	II, III	379	HI527 2	145TC
	222	546	7.89	1.10	I	266	HI517 2	145TC
	222	546	7.89	1.89	II	392	HI527 2	145TC
	220	551	7.96	2.96	III	581	HI537 2	145TC
	185	654	9.45	2.71	I, II, III	618	HI537 2	145TC
	174	696	10.06	1.15	I	284	HI517 2	145TC
	174	696	10.06	1.71	II	433	HI527 2	145TC
	153	791	11.43	2.42	I, II, III	660	HI537 2	145TC
	150	807	11.66	1.48	I, II	457	HI527 2	145TC
	132	917	13.26	1.30	I, II	479	HI527 2	145TC
	123	983	14.21	2.00	I, II, III	708	HI537 2	145TC
	114	1063	15.37	1.12	I	504	HI527 2	145TC
	108	1121	16.20	1.03	I	512	HI527 2	145TC
	105	1150	16.62	1.72	I, II	742	HI537 2	145TC
	105	1150	16.62	2.18	III	742	HI547 2	145TC
	87	1390	20.10	1.43	I, II	784	HI537 2	145TC
	87	1390	20.10	1.80	II	784	HI547 2	145TC
	87	1390	20.10	2.73	III	960	HI557 2	145TC
	71	1702	24.61	2.62	II, III	1019	HI557 2	145TC
	70	1728	24.98	1.16	I	832	HI537 2	145TC
	70	1728	24.98	1.24	I	832	HI547 2	145TC
	60	2034	29.41	1.23	I	868	HI547 2	145TC
	60	2034	29.41	1.90	II	1071	HI557 2	145TC
	57	2120	30.65	2.82	III	1481	HI567 2	145TC
	49	2461	35.58	1.02	I	910	HI547 2	145TC
	49	2461	35.58	1.81	II	1126	HI557 2	145TC
	49	2475	35.78	2.41	II, III	1546	HI567 2	145TC
	47	2576	37.24	3+	III	2675	HI577 2	145TC
	45	2667	38.55	1.92	II, III	1577	HI567 2	145TC
	44	2694	39.79	1.38	I	1159	HI557 3	145TC
	40	2996	43.31	2.66	II, III	2780	HI577 2	145TC
	40	3060	44.23	1.12	I	1189	HI557 2	145TC
	39	3066	44.32	1.92	II	1635	HI567 2	145TC
	37	3197	47.22	1.38	I	1208	HI557 3	145TC
	37	3253	47.02	1.92	II	2837	HI577 2	145TC
	36	3390	49.00	1.01	I	1219	HI557 2	145TC

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HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM•

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
2	36	3287	48.55	3+	III	4371	HI587 3	145TC
	34	3579	51.74	1.67	I, II	1700	HI567 2	145TC
	32	3725	53.85	1.92	I, II	2930	HI577 2	145TC
	30	3903	57.64	3+	III	4528	HI587 3	145TC
	28	4190	61.89	1.43	I, II	1775	HI567 3	145TC
	27	4444	65.64	3+	III	4647	HI587 3	145TC
	25	4929	71.25	1.01	I	1834	HI567 2	145TC
	25	4742	70.04	3+	II, III	4706	HI587 3	145TC
	23	5112	75.50	1.43	I, II	3164	HI577 3	145TC
	22	5276	77.93	3+	III	4804	HI587 3	145TC
	21	5584	82.48	1.07	I	1895	HI567 3	145TC
	21	5779	85.36	3+	II, III	4888	HI587 3	145TC
	20	5966	86.25	1.01	I	3256	HI577 2	145TC
	18	6412	94.70	2.90	II, III	4983	HI587 3	145TC
	17.5	6786	100.22	1.17	I	3360	HI577 3	145TC
	17.3	6862	101.35	2.71	II, III	5045	HI587 3	145TC
	15.0	7892	116.56	1.01	I	3372	HI577 3	145TC
	14.2	8338	123.15	2.23	II, III	5171	HI587 3	145TC
	11.6	10205	150.73	1.82	I, II	5171	HI587 3	145TC
	9.8	12146	179.39	1.53	I, II	5171	HI587 3	145TC
	8.0	14759	217.98	1.26	I	5171	HI587 3	145TC
	7.1	16726	247.03	1.03	I	5171	HI587 3	145TC
3	485	375	3.61	3+	I, II, III	407	HI537 2	182TC
	414	439	4.23	3+	I, II, III	442	HI537 2	182TC
	349	520	5.01	2.71	I, II, III	479	HI537 2	182TC
	288	630	6.07	2.51	I, II, III	521	HI537 2	182TC
	257	707	6.81	2.27	I, II, III	546	HI537 2	182TC
	257	707	6.81	3+	I, II, III	546	HI547 2	182TC
	220	826	7.96	1.97	I, II	581	HI537 2	182TC
	220	826	7.96	2.91	III	581	HI547 2	182TC
	185	981	9.45	1.81	I, II	618	HI537 2	182TC
	185	981	9.45	2.55	III	618	HI547 2	182TC
	153	1186	11.43	1.61	I, II	660	HI537 2	182TC
	153	1186	11.43	2.19	III	660	HI547 2	182TC
	125	1453	14.00	2.57	II, III	856	HI557 2	182TC
	123	1474	14.21	1.33	I	708	HI537 2	182TC
	123	1474	14.21	1.46	II	708	HI547 2	182TC
	105	1725	16.62	1.15	I	742	HI537 2	182TC
	105	1725	16.62	1.45	II	742	HI547 2	182TC
	105	1725	16.62	2.56	III	905	HI557 2	182TC
	104	1738	16.75	3+	I, II, III	1228	HI567 2	182TC
	91	1997	19.25	2.99	II, III	1287	HI567 2	182TC

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HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
3	87	2086	20.10	1.20	I	784	HI547 2	182TC
	87	2086	20.10	2.14	II, III	960	HI557 2	182TC
	80	2260	21.78	2.64	I, II, III	1338	HI567 2	182TC
	71	2554	24.61	1.75	I, II	1019	HI557 2	182TC
	70	2598	25.04	2.30	III	1397	HI567 2	182TC
	64	2823	27.21	2.82	I, II, III	2458	HI577 2	182TC
	60	3052	29.41	1.27	I	1071	HI557 2	182TC
	60	3033	29.23	1.97	II	1461	HI567 2	182TC
	58	3157	30.42	2.52	III	2535	HI577 2	182TC
	49	3713	35.78	1.61	I, II	1546	HI567 2	182TC
	49	3671	35.38	2.17	III	2640	HI577 2	182TC
	49	3692	35.58	1.21	I	1126	HI557 2	182TC
	47	3864	37.24	2.05	II, III	2675	HI577 2	182TC
	45	4000	38.55	1.28	I	1577	HI567 2	182TC
	42	4321	41.64	3+	III	4230	HI587 2	182TC
	40	4494	43.31	1.77	I, II	2780	HI577 2	182TC
	39	4599	44.32	1.28	I	1635	HI567 2	182TC
	37	4879	47.02	1.28	I	2837	HI577 2	182TC
	36	4931	48.55	3+	II, III	4371	HI587 3	182TC
	35	5250	50.60	3+	II, III	4409	HI587 2	182TC
	34	5369	51.74	1.11	I	1700	HI567 2	182TC
	32	5588	53.85	1.28	I	2930	HI577 2	182TC
	30	5854	57.64	3+	II, III	4528	HI587 3	182TC
	28	6499	62.63	1.23	I	3035	HI577 2	182TC
	27	6666	65.64	2.79	II, III	4647	HI587 3	182TC
	25	7113	70.04	2.61	I, II, III	4706	HI587 3	182TC
	22	7915	77.93	2.35	I, II, III	4804	HI587 3	182TC
	21	8669	85.36	2.14	I, II, III	4888	HI587 3	182TC
	19.0	9346	92.02	2.84	III	5320	HI597 3	182TC
	18	9618	94.70	1.93	I, II	4983	HI587 3	182TC
	17.9	9952	97.99	2.67	III	5381	HI597 3	182TC
	17.3	10293	101.35	1.81	I, II	5045	HI587 3	182TC
	16.0	11123	109.52	2.39	II, III	5418	HI597 3	182TC
	14.6	12181	119.94	2.18	III	5418	HI597 3	182TC
	14.2	12507	123.15	1.49	I, II	5171	HI587 3	182TC
	11.9	14876	146.47	1.78	I, II	5418	HI597 3	182TC
	11.9	14876	146.47	2.68	III	6632	HI5107 3	182TC
	11.6	15308	150.73	1.21	I	5171	HI587 3	182TC
	11.1	16084	158.37	1.65	I, II	5418	HI597 3	182TC
	11.1	16084	158.37	2.53	III	6632	HI5107 3	182TC
	10.1	17616	173.45	1.51	I, II	5418	HI597 3	182TC
	10.1	17616	173.45	2.31	III	6632	HI5107 3	182TC
	9.8	18219	179.39	1.02	I	5171	HI587 3	182TC
	8.3	21512	211.82	1.23	I	5418	HI597 3	182TC
	8.3	21512	211.82	1.85	II	6632	HI5107 3	182TC

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HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM•

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
5	485	624	3.61	2.06	I, II, III	407	HI537 2	184TC
	414	732	4.23	1.92	I, II	442	HI537 2	184TC
	414	732	4.23	2.00	III	442	HI547 2	184TC
	349	866	5.01	1.63	I, II	479	HI537 2	184TC
	349	866	5.01	2.58	III	558	HI557 2	184TC
	288	1050	6.07	1.51	I, II	521	HI537 2	184TC
	288	1050	6.07	2.04	III	521	HI547 2	184TC
	257	1178	6.81	1.36	I	546	HI537 2	184TC
	257	1178	6.81	2.04	II, III	546	HI547 2	184TC
	220	1377	7.96	1.18	I	581	HI537 2	184TC
	220	1377	7.96	1.75	II	581	HI547 2	184TC
	220	1377	7.96	2.31	III	692	HI557 2	184TC
	185	1634	9.45	1.08	I	618	HI537 2	184TC
	185	1634	9.45	1.53	II	618	HI547 2	184TC
	185	1634	9.45	2.10	III	742	HI557 2	184TC
	153	1977	11.43	1.32	I	660	HI547 2	184TC
	153	1977	11.43	1.80	II	797	HI557 2	184TC
	141	2143	12.39	2.40	I, II, III	1102	HI567 2	184TC
	125	2421	14.00	1.54	I, II	856	HI557 2	184TC
	123	2463	14.24	2.16	III	1161	HI567 2	184TC
	105	2874	16.62	1.54	I, II	905	HI557 2	184TC
	104	2897	16.75	2.03	III	1228	HI567 2	184TC
	101	2992	17.30	2.62	II, III	2145	HI577 2	184TC
	91	3329	19.25	1.79	I, II	1287	HI567 2	184TC
	87	3476	20.10	1.28	I	960	HI557 2	184TC
	87	3481	20.13	2.29	II, III	2249	HI577 2	184TC
	80	3767	21.78	1.59	I, II	1338	HI567 2	184TC
	80	3801	21.98	3+	III	3645	HI587 2	184TC
	75	4045	23.39	1.97	I, II	2353	HI577 2	184TC
	74	4069	23.53	3+	III	3707	HI587 2	184TC
	72	4194	24.25	3+	II, III	3735	HI587 2	184TC
	71	4256	24.61	1.05	I	1019	HI557 2	184TC
	64	4706	27.21	1.69	I, II	2458	HI577 2	184TC
	61	4981	28.80	3+	II, III	3893	HI587 2	184TC
	60	5055	29.23	1.18	I	1461	HI567 2	184TC
	58	5261	30.42	1.51	II	2535	HI577 2	184TC
	57	5301	30.65	1.13	I	1481	HI567 2	184TC
	50	6051	34.99	3+	II, III	4071	HI587 2	184TC
	49	6119	35.38	1.30	I	2640	HI577 2	184TC
	47	6440	37.24	1.23	I	2675	HI577 2	184TC
	42	7201	41.64	2.41	II, III	4230	HI587 2	184TC
	40	7490	43.31	1.06	I	2780	HI577 2	184TC
	35	8751	50.60	2.12	I, II, III	4409	HI587 2	184TC
	30	9757	57.64	1.91	I, II	4528	HI587 3	184TC
	27	11111	65.64	1.67	I, II	4647	HI587 3	184TC

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HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM ●

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
5	25	11855	70.04	1.57	I, II	4706	HI587 3	184TC
	25	11646	68.80	2.28	III	5037	HI597 3	184TC
	23	12754	75.35	2.08	III	5125	HI597 3	184TC
	22	13191	77.93	1.41	I, II	4804	HI587 3	184TC
	21	14449	85.36	1.29	I	4888	HI587 3	184TC
	20	15144	89.47	1.75	II	5293	HI597 3	184TC
	20	15144	89.47	2.69	III	6372	HI5107 3	184TC
	19.0	15576	92.02	1.70	I, II	5320	HI597 3	184TC
	19.0	15576	92.02	2.56	III	6409	HI5107 3	184TC
	18	16030	94.70	1.16	I	4983	HI587 3	184TC
	17.9	16586	97.99	1.60	II	5381	HI597 3	184TC
	17.9	16586	97.99	2.45	III	6490	HI5107 3	184TC
	17.3	17155	101.35	1.08	I	5045	HI587 3	184TC
	16.0	18538	109.52	1.43	I, II	5418	HI597 3	184TC
	16.0	18538	109.52	2.20	III	6632	HI5107 3	184TC
	14.6	20302	119.94	1.31	I	5418	HI597 3	184TC
	14.6	20302	119.94	2.01	II, III	6632	HI5107 3	184TC
	11.9	24793	146.47	1.07	I	5418	HI597 3	184TC
	11.9	24793	146.47	1.61	II	6632	HI5107 3	184TC
	11.1	26807	158.37	1.52	I, II	6632	HI5107 3	184TC
	10.1	29359	173.45	1.39	I	6632	HI5107 3	184TC
	8.3	35854	211.82	1.11	I	6632	HI5107 3	184TC
7.5	266	1704	6.57	1.97	I, II	837	HI567 2	213TC
	231	1961	7.56	1.76	I, II	896	HI567 2	213TC
	218	2080	8.02	2.21	I, II, III	1613	HI577 2	213TC
	198	2288	8.82	1.59	I, II	960	HI567 2	213TC
	191	2381	9.18	2.19	III	1706	HI577 2	213TC
	164	2771	10.68	2.17	I, II, III	1811	HI577 2	213TC
	155	2924	11.27	3+	I, II, III	3033	HI587 2	213TC
	141	3214	12.39	1.60	I, II	1102	HI567 2	213TC
	131	3471	13.38	3+	III	3190	HI587 2	213TC
	123	3694	14.24	1.44	I, II	1161	HI567 2	213TC
	116	3920	15.11	1.75	I, II	2051	HI577 2	213TC
	115	3953	15.24	3+	III	3310	HI587 2	213TC
	108	4218	16.26	3+	I, II, III	3369	HI587 2	213TC
	104	4345	16.75	1.35	I	1228	HI567 2	213TC
	101	4488	17.30	1.75	II	2145	HI577 2	213TC
	97	4693	18.09	3+	I, II, III	3467	HI587 2	213TC
	91	4994	19.25	1.20	I	1287	HI567 2	213TC
	88	5142	19.82	3+	III	3550	HI587 2	213TC
	87	5222	20.13	1.53	II	2249	HI577 2	213TC
	80	5650	21.78	1.06	I	1338	HI567 2	213TC
	80	5702	21.98	3+	II, III	3645	HI587 2	213TC
	75	6068	23.39	1.31	I	2353	HI577 2	213TC
	74	6104	23.53	3+	II, III	3707	HI587 2	213TC

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H

◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION

• FOR INPUT SPEEDS ABOVE 1750 RPM, UNIT MAY BECOME THERMALLY LIMITED IF OPERATING FOR EXTENDED PERIODS OF TIME

HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
7.5	72	6291	24.25	2.73	I, II, III	3735	HI587 2	213TC
	64	7059	27.21	1.13	I	2458	HI577 2	213TC
	61	7471	28.80	2.49	II, III	3893	HI587 2	213TC
	58	7891	30.42	1.01	I	2535	HI577 2	213TC
	50	9077	34.99	2.05	II, III	4071	HI587 2	213TC
	42	10802	41.64	1.61	I, II	4230	HI587 2	213TC
	35	13126	50.60	1.42	I, II	4409	HI587 2	213TC
	34	12921	50.89	2.05	III	4744	HI597 3	213TC
	31	14150	55.73	1.88	II	4832	HI597 3	213TC
	31	14150	55.73	2.88	III	5758	HI5107 3	213TC
	30	14635	57.64	1.27	I	4528	HI587 3	213TC
	27	16666	65.64	1.12	I	4647	HI587 3	213TC
	25	17783	70.04	1.05	I	4706	HI587 3	213TC
	25	17468	68.80	1.52	II	5037	HI597 3	213TC
	25	17468	68.80	2.33	III	6032	HI5107 3	213TC
	23	19131	75.35	1.39	I	5125	HI597 3	213TC
	23	19131	75.35	2.13	II, III	6150	HI5107 3	213TC
	20	22716	89.47	1.17	I	5293	HI597 3	213TC
	20	22716	89.47	1.79	II	6372	HI5107 3	213TC
	19.0	23364	92.02	1.14	I	5320	HI597 3	213TC
	19.0	23364	92.02	1.70	II	6409	HI5107 3	213TC
	17.9	24880	97.99	1.07	I	5381	HI597 3	213TC
	17.9	24880	97.99	1.64	II	6490	HI5107 3	213TC
	16.0	27807	109.52	1.46	I, II	6632	HI5107 3	213TC
	14.6	30453	119.94	1.34	I	6632	HI5107 3	213TC
	11.9	37189	146.47	1.07	I	6632	HI5107 3	213TC
	11.1	40210	158.37	1.01	1	6632	HI5107 3	213TC
10	293	2068	5.98	3+	I, II, III	2453	HI587 2	215TC
	266	2272	6.57	1.48	I, II	837	HI567 2	215TC
	246	2456	7.10	3+	II, III	2610	HI587 2	215TC
	231	2615	7.56	1.32	I	896	HI567 2	215TC
	218	2774	8.02	1.66	I, II	1613	HI577 2	215TC
	203	2985	8.63	3+	II, III	2789	HI587 2	215TC
	198	3051	8.82	1.19	I	960	HI567 2	215TC
	191	3175	9.18	1.64	I, II	1706	HI577 2	215TC
	164	3694	10.68	1.63	I, II	1811	HI577 2	215TC
	155	3898	11.27	3+	II, III	3033	HI587 2	215TC
	141	4285	12.39	1.20	I	1102	HI567 2	215TC
	131	4628	13.38	3+	II, III	3190	HI587 2	215TC
	123	4925	14.24	1.08	I	1161	HI567 2	215TC
	116	5226	15.11	1.31	I	2051	HI577 2	215TC
	115	5271	15.24	3+	II, III	3310	HI587 2	215TC
	108	5624	16.26	3+	II, III	3369	HI587 2	215TC
	104	5794	16.75	1.02	I	1228	HI567 2	215TC
	101	5984	17.30	1.31	I	2145	HI577 2	215TC
	97	6257	18.09	2.97	II, III	3467	HI587 2	215TC

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H

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• FOR INPUT SPEEDS ABOVE 1750 RPM, UNIT MAY BECOME THERMALLY LIMITED IF OPERATING FOR EXTENDED PERIODS OF TIME

HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM*

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
10	88	6855	19.82	2.66	II, III	3550	HI587 2	215TC
	87	6963	20.13	1.14	I	2249	HI577 2	215TC
	80	7602	21.98	2.44	I, II, III	3645	HI587 2	215TC
	74	8139	23.53	2.28	I, II, III	3707	HI587 2	215TC
	72	8388	24.25	2.05	I, II, III	3735	HI587 2	215TC
	61	9961	28.80	1.87	I, II	3893	HI587 2	215TC
	50	12102	34.99	1.54	I, II	4071	HI587 2	215TC
	48	12224	36.11	2.10	III	4410	HI597 3	215TC
	42	14402	41.64	1.20	I	4230	HI587 2	215TC
	36	16436	48.55	1.13	I	4371	HI587 3	215TC
	34	17228	50.89	1.54	II	4744	HI597 3	215TC
	34	17228	50.89	2.36	III	5641	HI5107 3	215TC
	31	18867	55.73	1.41	I, II	4832	HI597 3	215TC
	31	18867	55.73	2.16	II, III	5758	HI5107 3	215TC
	25	23291	68.80	1.14	I	5037	HI597 3	215TC
	25	23291	68.80	1.75	II	6032	HI5107 3	215TC
	23	25509	75.35	1.04	I	5125	HI597 3	215TC
	23	25509	75.35	1.60	II	6150	HI5107 3	215TC
	20	30289	89.47	1.34	I	6372	HI5107 3	215TC
	19.0	31152	92.02	1.28	I	6409	HI5107 3	215TC
	17.9	33173	97.99	1.23	I	6490	HI5107 3	215TC
	16.0	37076	109.52	1.10	I	6632	HI5107 3	215TC
	14.6	40604	119.94	1.00	I	6632	HI5107 3	215TC
15	293	3103	5.98	2.85	I, II, III	2453	HI587 2	254TC
	246	3684	7.10	2.82	I, II, III	2610	HI587 2	254TC
	203	4477	8.63	2.67	I, II, III	2789	HI587 2	254TC
	155	5847	11.27	2.27	I, II, III	3033	HI587 2	254TC
	131	6942	13.38	2.17	I, II, III	3190	HI587 2	254TC
	115	7907	15.24	2.13	I, II, III	3310	HI587 2	254TC
	108	8436	16.26	2.20	I, II, III	3369	HI587 2	254TC
	97	9385	18.09	1.98	I, II	3467	HI587 2	254TC
	88	10283	19.82	1.77	I, II	3550	HI587 2	254TC
	80	11404	21.98	1.63	I, II	3645	HI587 2	254TC
	74	12208	23.53	1.52	I, II	3707	HI587 2	254TC
	72	12581	24.25	1.36	I	3735	HI587 2	254TC
	61	14942	28.80	1.24	I	3893	HI587 2	254TC
	50	18154	34.99	1.02	I	4071	HI587 2	254TC
	48	18337	36.11	1.40	I, II	4410	HI597 3	254TC
	48	18337	36.11	2.17	III	5196	HI5107 3	254TC
	34	25842	50.89	1.03	I	4744	HI597 3	254TC
	34	25842	50.89	1.58	II	5641	HI5107 3	254TC
	31	28300	55.73	1.44	I, II	5758	HI5107 3	254TC
	25	34937	68.80	1.17	I	6032	HI5107 3	254TC
	23	38263	75.35	1.06	I	6150	HI5107 3	254TC

- * MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H
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- FOR INPUT SPEEDS ABOVE 1750 RPM, UNIT MAY BECOME THERMALLY LIMITED IF OPERATING FOR EXTENDED PERIODS OF TIME

HELICAL IN-LINE GEAR REDUCERS

SELECTION BY INPUT H.P. @ 1750 RPM•

HP	OUTPUT SPEED (RPM)	OUTPUT TORQUE (IN.LBS.)	EXACT RATIO	GEAR SERVICE FACTOR	AGMA Class Rating(s)	OUTPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES	C-FACE INPUT *
20	293	4137	5.98	2.14	I, II, III	2453	HI587 2	256TC
	246	4912	7.10	2.12	I, II, III	2610	HI587 2	256TC
	203	5970	8.63	2.00	I, II, III	2789	HI587 2	256TC
	155	7796	11.27	1.70	I, II	3033	HI587 2	256TC
	131	9256	13.38	1.63	I, II	3190	HI587 2	256TC
	115	10542	15.24	1.60	I, II	3310	HI587 2	256TC
	108	11248	16.26	1.65	I, II	3369	HI587 2	256TC
	97	12514	18.09	1.49	I, II	3467	HI587 2	256TC
	88	13711	19.82	1.33	I	3550	HI587 2	256TC
	80	15205	21.98	1.22	I	3645	HI587 2	256TC
	74	16277	23.53	1.14	I	3707	HI587 2	256TC
	72	16775	24.25	1.02	I	3735	HI587 2	256TC
	48	24449	36.11	1.05	I	4410	HI597 3	256TC
	48	24449	36.11	1.63	I, II	5196	HI5107 3	256TC
	34	34456	50.89	1.18	I	5641	HI5107 3	256TC
	31	37733	55.73	1.08	I	5758	HI5107 3	256TC

- * MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H
- ◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION
- FOR INPUT SPEEDS ABOVE 1750 RPM, UNIT MAY BECOME THERMALLY LIMITED IF OPERATING FOR EXTENDED PERIODS OF TIME

HELICAL IN-LINE GEAR REDUCERS*

RATINGS @ 1750 RPM INPUT 1.00 SERVICE FACTOR

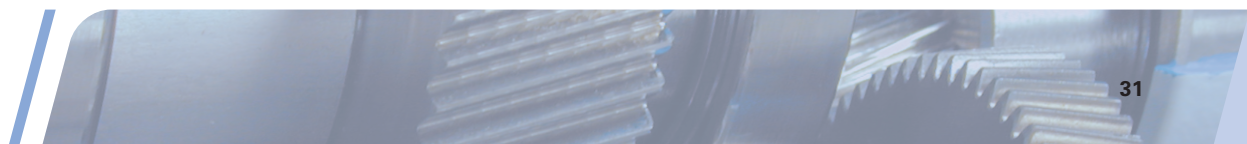
HI517 DOUBLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
497	3.52	4.94	602	204	112	HI517 2
400	4.37	3.98	602	216	112	HI517 2
315	5.56	3.13	602	230	112	HI517 2
275	6.36	2.74	602	250	112	HI517 2
239	7.33	2.37	602	260	112	HI517 2
222	7.89	2.21	602	266	112	HI517 2
174	10.06	2.29	798	284	112	HI517 2
150	11.66	1.98	798	293	112	HI517 2
132	13.26	1.74	798	305	112	HI517 2
114	15.37	1.50	798	321	112	HI517 2
108	16.20	1.42	798	335	112	HI517 2
93	18.78	1.23	798	350	112	HI517 2
81	21.54	1.07	798	374	112	HI517 2
79	22.29	1.04	798	375	112	HI517 2
67	26.31	0.88	798	420	112	HI517 2
60	29.40	0.78	798	435	112	HI517 2
49	35.91	0.64	798	470	112	HI517 2
46	38.37	0.60	798	478	112	HI517 2
37	46.87	0.49	798	507	112	HI517 2
35	50.67	0.46	798	510	112	HI517 2
28	61.89	0.37	798	532	112	HI517 2

HI517 TRIPLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
52	33.85	0.70	798	459	100	HI517 3
46	38.40	0.61	798	478	100	HI517 3
40	43.69	0.54	798	495	100	HI517 3
35	50.64	0.46	798	510	100	HI517 3
33	53.36	0.44	798	520	100	HI517 3
29	61.21	0.38	798	525	100	HI517 3
28	61.85	0.38	798	532	100	HI517 3
25	70.95	0.33	798	540	100	HI517 3
24	73.43	0.32	798	540	100	HI517 3
23	74.77	0.31	798	540	100	HI517 3
20	86.66	0.27	798	540	100	HI517 3
18.1	96.85	0.24	798	540	100	HI517 3
17.0	102.89	0.23	798	540	100	HI517 3
13.8	126.40	0.19	798	540	100	HI517 3
12.9	135.69	0.17	798	540	100	HI517 3
10.6	165.74	0.14	798	540	100	HI517 3

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H AND SEE PAGES 14-30
 ◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION



HELICAL IN-LINE GEAR REDUCERS*

RATINGS @ 1750 RPM INPUT 1.00 SERVICE FACTOR

HI527 DOUBLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
497	3.52	5.64	687	256	270	HI527 2
400	4.37	5.11	773	293	270	HI527 2
315	5.56	4.47	859	333	270	HI527 2
275	6.36	3.71	816	356	270	HI527 2
239	7.33	4.06	1030	379	270	HI527 2
222	7.89	3.77	1030	392	270	HI527 2
174	10.06	3.42	1190	433	270	HI527 2
150	11.66	2.95	1190	457	270	HI527 2
132	13.26	2.59	1190	479	270	HI527 2
114	15.37	2.24	1190	504	270	HI527 2
108	16.20	2.07	1158	512	270	HI527 2
93	18.78	1.78	1158	537	270	HI527 2
81	21.54	1.60	1190	560	270	HI527 2
79	22.29	1.54	1190	566	270	HI527 2
67	26.31	1.27	1158	594	270	HI527 2
60	29.40	1.17	1190	612	270	HI527 2
49	35.91	0.93	1158	646	270	HI527 2
46	38.37	0.85	1127	657	270	HI527 2
37	46.87	0.66	1065	674	270	HI527 2
35	50.67	0.64	1127	674	270	HI527 2
28	61.89	0.50	1065	674	270	HI527 2

HI527 TRIPLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
52	33.85	1.04	1189	636	157	HI527 3
46	38.40	0.86	1118	657	157	HI527 3
40	43.69	0.80	1189	674	157	HI527 3
35	50.64	0.69	1189	674	157	HI527 3
33	53.36	0.64	1162	674	157	HI527 3
29	61.21	0.57	1189	674	157	HI527 3
28	61.85	0.55	1162	674	157	HI527 3
25	70.95	0.49	1189	674	157	HI527 3
24	73.43	0.45	1118	674	157	HI527 3
23	74.77	0.46	1162	674	157	HI527 3
20	86.66	0.40	1162	674	157	HI527 3
18.1	96.85	0.36	1189	674	157	HI527 3
17.0	102.89	0.34	1171	674	157	HI527 3
13.8	126.40	0.27	1162	674	157	HI527 3
12.9	135.69	0.26	1189	674	157	HI527 3
10.6	165.74	0.21	1162	674	157	HI527 3

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H AND SEE PAGES 14-30
 ◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION

HELICAL IN-LINE GEAR REDUCERS*

RATINGS @ 1750 RPM INPUT 1.00 SERVICE FACTOR

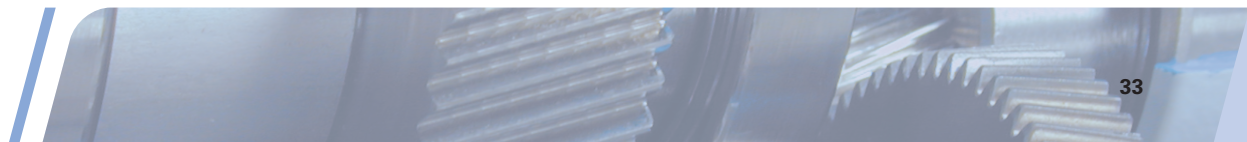
HI537 DOUBLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
485	3.61	10.31	1287	407	506	HI537 2
414	4.23	9.97	1459	442	506	HI537 2
349	5.01	8.13	1408	479	506	HI537 2
288	6.07	7.54	1584	521	506	HI537 2
257	6.81	6.82	1606	546	506	HI537 2
220	7.96	5.91	1628	581	506	HI537 2
185	9.45	5.42	1771	618	506	HI537 2
153	11.43	4.84	1914	660	506	HI537 2
123	14.21	3.98	1958	708	506	HI537 2
105	16.62	3.44	1980	742	506	HI537 2
87	20.10	2.86	1990	784	506	HI537 2
70	24.98	2.32	2002	832	506	HI537 2
60	29.41	1.98	2013	868	506	HI537 2
49	35.58	1.64	2024	910	506	HI537 2
43	40.50	1.45	2035	938	506	HI537 2
40	44.23	1.33	2035	958	506	HI537 2
36	49.00	1.19	2015	980	506	HI537 2
29	60.90	0.95	2005	1028	506	HI537 2

HI537 TRIPLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
51	34.01	1.77	2035	900	449	HI537 3
44	39.79	1.51	2035	934	449	HI537 3
37	47.22	1.27	2035	972	449	HI537 3
32	54.73	1.10	2035	1005	449	HI537 3
31	57.13	1.05	2035	1014	449	HI537 3
26	66.22	0.91	2035	1046	449	HI537 3
25	71.01	0.85	2035	1062	449	HI537 3
23	76.69	0.78	2035	1079	449	HI537 3
21	82.30	0.73	2035	1094	449	HI537 3
21	83.59	0.72	2035	1098	449	HI537 3
19	92.78	0.65	2035	1121	449	HI537 3
16.7	104.68	0.57	2035	1123	449	HI537 3
14.9	117.22	0.51	2035	1123	449	HI537 3
13.8	126.65	0.47	2035	1123	449	HI537 3
12.8	136.62	0.44	2035	1123	449	HI537 3
10.6	165.29	0.36	2035	1123	449	HI537 3
9.7	180.40	0.33	2035	1123	449	HI537 3

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H AND SEE PAGES 14-30
 ◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION



HELICAL IN-LINE GEAR REDUCERS*

RATINGS @ 1750 RPM INPUT 1.00 SERVICE FACTOR

HI547 DOUBLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
414	4.23	9.97	1459	442	506	HI547 2
349	5.01	9.91	1717	479	506	HI547 2
288	6.07	10.22	2146	521	506	HI547 2
257	6.81	10.21	2404	546	506	HI547 2
220	7.96	8.73	2404	581	506	HI547 2
185	9.45	7.65	2502	618	506	HI547 2
153	11.43	6.58	2600	660	506	HI547 2
123	14.21	4.37	2146	708	506	HI547 2
105	16.62	4.35	2502	742	506	HI547 2
87	20.10	3.60	2502	784	506	HI547 2
70	24.98	2.48	2146	832	506	HI547 2
60	29.41	2.46	2502	868	506	HI547 2
49	35.58	2.03	2502	910	506	HI547 2
43	40.50	1.72	2404	938	506	HI547 2
40	44.23	1.40	2146	958	506	HI547 2
36	49.00	1.42	2404	980	506	HI547 2
29	60.90	1.02	2146	1028	506	HI547 2

HI547 TRIPLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
51	34.01	2.43	2799	900	449	HI547 3
44	39.79	2.08	2799	934	449	HI547 3
37	47.22	1.75	2799	972	449	HI547 3
32	54.73	1.51	2799	1005	449	HI547 3
31	57.13	1.45	2799	1014	449	HI547 3
26	66.22	1.25	2799	1046	449	HI547 3
25	71.01	1.16	2799	1062	449	HI547 3
23	76.69	1.08	2799	1079	449	HI547 3
21	82.30	1.00	2799	1094	449	HI547 3
21	83.59	0.99	2799	1098	449	HI547 3
18.9	92.78	0.89	2799	1121	449	HI547 3
16.7	104.68	0.79	2799	1123	449	HI547 3
14.9	117.22	0.70	2799	1123	449	HI547 3
13.8	126.65	0.65	2799	1123	449	HI547 3
12.8	136.62	0.60	2799	1123	449	HI547 3
12.0	145.68	0.57	2799	1123	449	HI547 3
11.1	157.40	0.52	2799	1123	449	HI547 3
10.6	165.29	0.50	2799	1123	449	HI547 3
9.7	180.40	0.46	2799	1123	449	HI547 3
8.6	204.12	0.40	2799	1123	449	HI547 3
7.8	224.18	0.37	2799	1123	449	HI547 3
6.3	278.62	0.30	2799	1123	449	HI547 3

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H AND SEE PAGES 14-30
 ◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION

HELICAL IN-LINE GEAR REDUCERS*

RATINGS @ 1750 RPM INPUT 1.00 SERVICE FACTOR

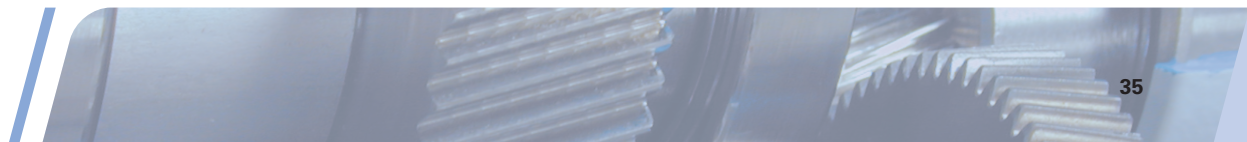
HI557 DOUBLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
485	3.61	12.37	1545	462	506	HI557 2
414	4.23	12.91	1889	508	506	HI557 2
349	5.01	12.88	2232	558	506	HI557 2
288	6.07	12.27	2576	613	506	HI557 2
257	6.81	12.76	3005	647	506	HI557 2
220	7.96	11.54	3177	692	506	HI557 2
185	9.45	10.51	3434	742	506	HI557 2
153	11.43	9.01	3563	797	506	HI557 2
125	14.00	7.71	3735	856	506	HI557 2
105	16.62	7.69	4421	905	506	HI557 2
87	20.10	6.42	4464	960	506	HI557 2
71	24.61	5.24	4464	1019	506	HI557 2
60	29.41	3.80	3863	1071	506	HI557 2
49	35.58	3.63	4464	1126	506	HI557 2
43	40.50	1.96	2747	1164	506	HI557 2
40	44.23	2.24	3434	1189	506	HI557 2
36	49.00	2.03	3434	1219	506	HI557 2
29	60.90	1.63	3434	1282	506	HI557 2

HI557 TRIPLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
51	34.01	3.24	3735	1113	449	HI557 3
44	39.79	2.76	3726	1159	449	HI557 3
37	47.22	2.76	4421	1208	449	HI557 3
32	54.73	2.38	4421	1251	449	HI557 3
31	57.13	2.28	4421	1263	449	HI557 3
26	66.22	1.97	4421	1306	449	HI557 3
25	71.01	1.55	3735	1327	449	HI557 3
23	76.69	1.70	4421	1349	449	HI557 3
21	82.30	1.34	3735	1369	449	HI557 3
21	83.59	1.33	3777	1374	449	HI557 3
18.9	92.78	1.42	4464	1404	449	HI557 3
16.7	104.68	1.25	4421	1439	449	HI557 3
14.9	117.22	1.12	4464	1460	449	HI557 3
13.8	126.65	1.04	4464	1460	449	HI557 3
12.9	135.74	0.82	3777	1460	449	HI557 3
12.0	145.68	0.76	3735	1460	449	HI557 3
11.1	157.40	0.70	3735	1460	449	HI557 3
10.6	165.29	0.80	4464	1460	449	HI557 3
9.4	185.29	0.60	3777	1460	449	HI557 3
8.5	205.43	0.54	3735	1460	449	HI557 3
7.8	224.18	0.59	4464	1460	449	HI557 3
6.3	278.62	0.40	3735	1460	449	HI557 3

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 ◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION



HELICAL IN-LINE GEAR REDUCERS*

RATINGS @ 1750 RPM INPUT 1.00 SERVICE FACTOR

HI567 DOUBLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◊ (LBS.)	INPUT OHL ◊ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
266	6.57	14.80	3363	837	450	HI567 2
231	7.56	13.20	3452	896	450	HI567 2
198	8.82	11.90	3629	960	450	HI567 2
141	12.39	11.98	5133	1102	450	HI567 2
123	14.24	10.78	5310	1161	450	HI567 2
104	16.75	10.16	5886	1228	450	HI567 2
91	19.25	8.97	5974	1287	450	HI567 2
80	21.78	7.93	5974	1338	450	HI567 2
70	25.04	6.90	5974	1397	450	HI567 2
60	29.23	5.91	5974	1461	450	HI567 2
57	30.65	5.64	5974	1481	450	HI567 2
49	35.78	4.83	5974	1546	450	HI567 2
45	38.55	3.85	5133	1577	450	HI567 2
39	44.32	3.84	5886	1635	450	HI567 2
34	51.74	3.34	5974	1700	450	HI567 2
29	61.03	2.01	4248	1769	450	HI567 2
25	71.25	2.01	4956	1834	450	HI567 2

HI567 TRIPLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◊ (LBS.)	INPUT OHL ◊ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
28	61.89	2.85	5974	1775	270	HI567 3
25	71.16	2.48	5974	1833	270	HI567 3
21	82.48	2.14	5974	1895	270	HI567 3
18.2	96.29	1.83	5974	1959	270	HI567 3
17.4	100.51	1.75	5974	1977	270	HI567 3
15.1	115.56	1.53	5974	2023	270	HI567 3
13.9	125.96	1.38	5886	2023	270	HI567 3
13.0	134.91	1.31	5974	2023	270	HI567 3
11.9	147.05	1.20	5974	2023	270	HI567 3
10.3	170.44	1.03	5974	2023	270	HI567 3
9.5	184.15	0.96	5974	2023	270	HI567 3
8.5	205.87	0.86	5974	2023	270	HI567 3
7.3	240.34	0.73	5974	2023	270	HI567 3
6.3	279.22	0.62	5886	2023	270	HI567 3
5.4	325.97	0.54	5974	2023	270	HI567 3
4.8	364.41	0.48	5886	2023	270	HI567 3
4.1	425.43	0.41	5974	2023	270	HI567 3
3.6	481.19	0.36	5886	2023	270	HI567 3
3.1	561.76	0.31	5974	2023	270	HI567 3

* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H AND SEE PAGES 14-30

◊ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION

HELICAL IN-LINE GEAR REDUCERS*

RATINGS @ 1750 RPM INPUT 1.00 SERVICE FACTOR

HI577 DOUBLE REDUCTION

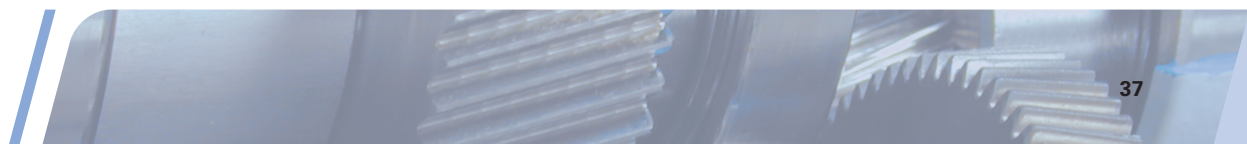
OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
218	8.02	16.59	4602	1613	506	HI577 2
191	9.18	16.45	5222	1706	506	HI577 2
164	10.68	16.29	6019	1811	506	HI577 2
116	15.11	13.12	6859	2051	506	HI577 2
101	17.30	13.09	7833	2145	506	HI577 2
87	20.13	11.44	7966	2249	506	HI577 2
75	23.39	9.85	7966	2353	506	HI577 2
64	27.21	8.46	7966	2458	506	HI577 2
58	30.42	7.57	7966	2535	506	HI577 2
49	35.38	6.51	7966	2640	506	HI577 2
47	37.24	6.15	7921	2675	506	HI577 2
40	43.31	5.32	7966	2780	506	HI577 2
37	47.02	3.84	6240	2837	506	HI577 2
32	53.85	3.85	7169	2930	506	HI577 2
28	62.63	3.68	7966	3035	506	HI577 2
24	74.16	2.02	5178	3152	506	HI577 2
20	86.25	2.02	6019	3256	506	HI577 2

HI577 TRIPLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
23	75.50	2.85	7302	3164	450	HI577 3
20	86.47	2.72	7966	3258	450	HI577 3
17.5	100.22	2.35	7966	3360	450	HI577 3
15.0	116.56	2.02	7966	3372	450	HI577 3
12.8	136.82	1.72	7966	3372	450	HI577 3
11.4	153.05	1.38	7169	3372	450	HI577 3
10.7	163.31	1.44	7966	3372	450	HI577 3
9.8	178.01	1.32	7966	3372	450	HI577 3
9.1	191.67	1.23	7966	3372	450	HI577 3
8.5	206.32	1.14	7966	3372	450	HI577 3
7.9	222.92	1.05	7966	3372	450	HI577 3
7.2	242.18	0.97	7966	3372	450	HI577 3
7.0	250.15	0.94	7966	3372	450	HI577 3
6.1	289.08	0.81	7966	3372	450	HI577 3
5.3	330.31	0.70	7877	3372	450	HI577 3
4.4	394.59	0.60	7966	3372	450	HI577 3
3.4	514.99	0.46	7966	3372	450	HI577 3
2.6	680.03	0.35	7966	3372	450	HI577 3

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◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION



HELICAL IN-LINE GEAR REDUCERS*

RATINGS @ 1750 RPM INPUT 1.00 SERVICE FACTOR

HI587 DOUBLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
293	5.98	42.79	8851	2453		HI587 2
246	7.10	42.35	10400	2610		HI587 2
203	8.63	40.03	11949	2789		HI587 2
155	11.27	34.06	13276	3033		HI587 2
131	13.38	32.51	15046	3190		HI587 2
115	15.24	31.90	16816	3310		HI587 2
108	16.26	33.05	18587	3369		HI587 2
97	18.09	29.71	18587	3467		HI587 2
88	19.82	26.60	18233	3550		HI587 2
80	21.98	24.45	18587	3645		HI587 2
74	23.53	22.84	18587	3707		HI587 2
72	24.25	20.47	17170	3735		HI587 2
61	28.80	18.66	18587	3893		HI587 2
50	34.99	15.36	18587	4071		HI587 2
42	41.64	12.04	17347	4230		HI587 2
35	50.60	10.62	18587	4409		HI587 2

HI587 TRIPLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
36	48.55	11.30	18587	4371	506	HI587 3
30	57.64	9.52	18587	4528	506	HI587 3
27	65.64	8.36	18587	4647	506	HI587 3
25	70.04	7.83	18587	4706	506	HI587 3
22	77.93	7.04	18587	4804	506	HI587 3
21	85.36	6.43	18587	4888	506	HI587 3
18	94.70	5.79	18587	4983	506	HI587 3
17.3	101.35	5.41	18587	5045	506	HI587 3
14.2	123.15	4.45	18587	5171	506	HI587 3
11.6	150.73	3.64	18587	5171	506	HI587 3
9.8	179.39	3.06	18587	5171	506	HI587 3
8.0	217.98	2.52	18587	5171	506	HI587 3
7.1	247.03	2.06	17259	5171	506	HI587 3
5.8	300.17	1.83	18587	5171	506	HI587 3

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◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION

HELICAL IN-LINE GEAR REDUCERS*

RATINGS @ 1750 RPM INPUT 1.00 SERVICE FACTOR

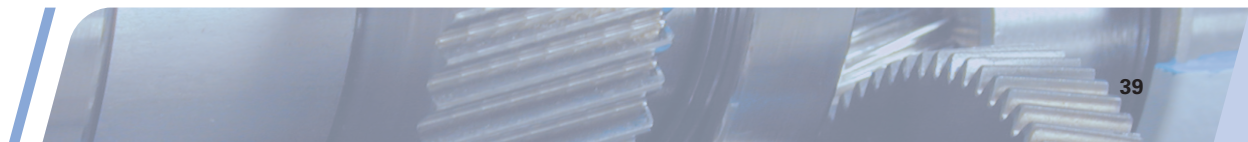
HI597 DOUBLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
48	36.11	20.97	25667	4410		HI597 3
34	50.89	15.40	26552	4744		HI597 3
31	55.73	14.06	26552	4832		HI597 3
25	68.80	11.39	26552	5037		HI597 3
23	75.35	10.40	26552	5125		HI597 3
20	89.47	8.76	26552	5293		HI597 3
19.0	92.02	8.51	26552	5320		HI597 3
17.9	97.99	8.00	26552	5381		HI597 3
16.0	109.52	7.15	26552	5418		HI597 3
14.6	119.94	6.53	26552	5418		HI597 3
11.9	146.47	5.35	26552	5418		HI597 3
11.1	158.37	4.95	26552	5418		HI597 3
10.1	173.45	4.52	26552	5418		HI597 3
8.3	211.82	3.70	26552	5418		HI597 3

HI5107 TRIPLE REDUCTION

OUTPUT SPEED (RPM)	EXACT RATIO	GEAR SERVICE FACTOR		OUTPUT OHL ◇ (LBS.)	INPUT OHL ◇ (LBS.)	MODEL / REDUCTION STAGES
		INPUT HP	OUTPUT TORQUE (IN. LBS.)			
48	36.11	32.55	39828	5196		HI5107 3
34	50.89	23.61	40713	5641		HI5107 3
31	55.73	21.56	40713	5758		HI5107 3
25	68.80	17.46	40713	6032		HI5107 3
23	75.35	15.94	40713	6150		HI5107 3
20	89.47	13.43	40713	6372		HI5107 3
19.0	92.02	12.77	39828	6409		HI5107 3
17.9	97.99	12.26	40713	6490		HI5107 3
16.0	109.52	10.97	40713	6632		HI5107 3
14.6	119.94	10.02	40713	6632		HI5107 3
11.9	146.47	8.02	39828	6632		HI5107 3
11.1	158.37	7.59	40713	6632		HI5107 3
10.1	173.45	6.93	40713	6632		HI5107 3
8.3	211.82	5.55	39828	6632		HI5107 3

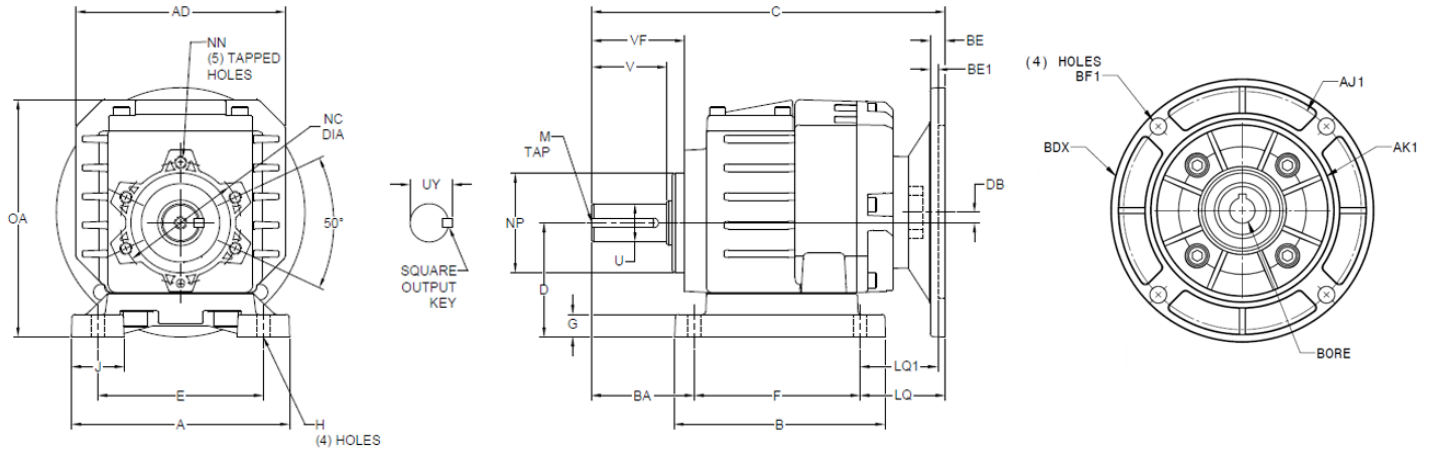
* MOTORIZED REDUCERS - SPECIFY MOUNTING TYPE E, F, G OR H AND SEE PAGES 14-30
 ◇ THE POINT OF OHL CONSIDERED TO BE APPLIED AT THE MIDPOINT OF THE SHAFT EXTENSION



HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FOOT MOUNT

MOUNTING TYPE E



(INCHES)

MODEL	STAGES	A ³	AD	B ³	BA	C			D	DB	E	F
						56C	140TC	180TC				
HI5172E	2	5.71	5.47	5.51	2.28	8.86	8.86	N/A	2.95	0.27	4.33	4.33
HI5173E	3	5.71	5.47	5.51	2.28	9.62	N/A	N/A	2.95	0.13	4.33	4.33
HI5272E	2	5.71	5.47	6.02	2.95	9.26	9.26	N/A	3.54	0.27	4.33	5.12
HI5273E	3	5.71	5.47	6.02	2.95	10.02	N/A	N/A	3.54	0.13	4.33	5.12
HI5372E	2	7.48	7.01	6.14	2.95	11.42	11.42	12.13	4.33	0.21	6.30	5.12
HI5373E	3	7.48	7.01	6.14	2.95	11.76	11.76	N/A	4.33	0.59	6.30	5.12

MODEL	STAGES	G	H	J	LQ		LQ1	M	
					56C	140TC		TAP	DEPTH
HI5172E	2	0.59	0.35	1.38	2.25	2.25	N/A	1/4-20	0.71
HI5173E	3	0.59	0.35	1.38	3.01	N/A	N/A	1/4-20	0.71
HI5272E	2	0.79	0.35	1.38	1.19	1.19	N/A	5/16-18	0.82
HI5273E	3	0.79	0.35	1.38	1.95	N/A	N/A	5/16-18	0.82
HI5372E	2	0.79	0.43	2.08	3.35	3.35	3.88	5/16-18	0.82
HI5373E	3	0.79	0.43	2.08	3.69	3.69	N/A	5/16-18	0.82

OUTPUT SHAFT

MODEL	STAGES	NC	NN		NP	OA ³	U ¹	UY	V	VF	OUTPUT KEY
			TAP	DEPTH							
HI5172E	2	3.15	M8	0.67	2.600	6.10	0.750	0.84	1.57	2.02	3/16 x 1.12
HI5173E	3	3.15	M8	0.67	2.600	6.10	0.750	0.84	1.57	2.02	3/16 x 1.12
HI5272E	2	3.15	M8	0.67	2.600	6.77	1.000	1.11	1.97	2.42	1/4 x 1.62
HI5273E	3	3.15	M8	0.67	2.600	6.77	1.000	1.11	1.97	2.42	1/4 x 1.62
HI5372E	2	4.84	M10	0.71	4.170	8.33	1.000	1.11	2.24	2.85	1/4 x 1.88
HI5373E	3	4.84	M10	0.71	4.170	8.33	1.000	1.11	2.24	2.85	1/4 x 1.88

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	5.88	4.500	6.50	0.38	N/A	0.625	3/16 x 3/32	0.41
140TC	5.88	4.500	6.50	0.38	N/A	0.875	3/16 x 3/32	0.41
180TC	7.25	8.500	8.88	N/A	0.50	1.125	1/4 x 1/8	0.53

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U"; LARGER DIAMETER "U": +.000", -.0012

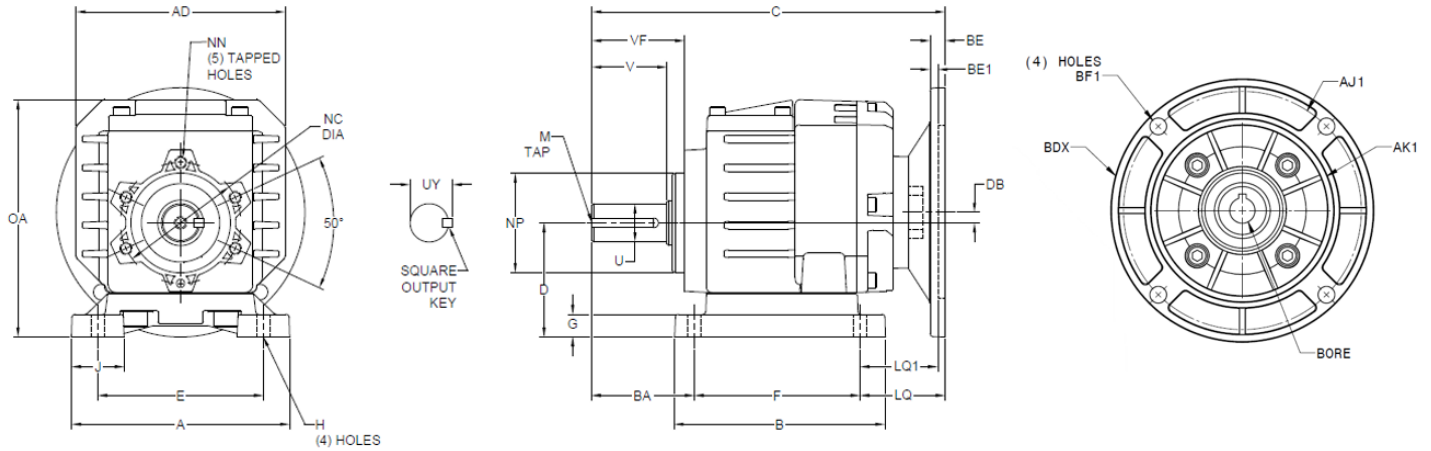
² REFER TO GEAR CASE DIMENSION TABLE UNDER "C" FOR AVAILABILITY OF C-FACE MOTOR FRAME SIZE FOR A GIVEN MODEL

³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FOOT MOUNT

MOUNTING TYPE E



(INCHES)

MODEL	STAGES	A ³	AD	B ³	BA	C			D	DB	E	F
						56C	140TC	180TC				
HI5472E	2	6.69	7.01	7.76	3.54	11.54	11.54	12.25	4.53	0.21	5.31	6.50
HI5473E	3	6.69	7.01	7.76	3.54	11.88	11.88	N/A	4.53	0.59	5.31	6.50
HI5572E	2	6.69	7.95	7.76	3.82	12.51	12.51	13.22	4.53	0.86	5.31	6.50
HI5573E	3	6.69	7.95	7.76	3.82	12.85	12.85	N/A	4.53	0.61	5.31	6.50

MODEL	STAGES	G	H	J	LQ		LQ1	M	
					56C	140TC	180TC	TAP	DEPTH
HI5472E	2	0.94	0.53	1.65	1.50	1.50	2.03	5/16-18	0.82
HI5473E	3	0.94	0.53	1.65	1.84	1.84	N/A	5/16-18	0.82
HI5572E	2	0.94	0.53	1.65	2.19	2.19	2.72	3/8 - 16	0.88
HI5573E	3	0.94	0.53	1.65	2.53	2.53	N/A	3/8 - 16	0.88

OUTPUT SHAFT

MODEL	STAGES	NC	NN		NP	OA ³	U ¹	UY	V	VF	OUTPUT KEY
			TAP	DEPTH							
HI5472E	2	4.84	M10	0.71	4.170	8.52	1.250	1.37	2.36	2.97	1/4 x 2.00
HI5473E	3	4.84	M10	0.71	4.170	8.52	1.250	1.37	2.36	2.97	1/4 x 2.00
HI5572E	2	4.84	M10	0.71	4.170	8.58	1.375	1.52	2.64	3.25	5/16 x 2.00
HI5573E	3	4.84	M10	0.71	4.170	8.58	1.375	1.52	2.64	3.25	5/16 x 2.00

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	5.88	4.500	6.50	0.38	N/A	0.625	3/16 x 3/32	0.41
140TC	5.88	4.500	6.50	0.38	N/A	0.875	3/16 x 3/32	0.41
180TC	7.25	8.500	8.88	N/A	0.50	1.125	1/4 x 1/8	0.53

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER "U": +.000", -.0012

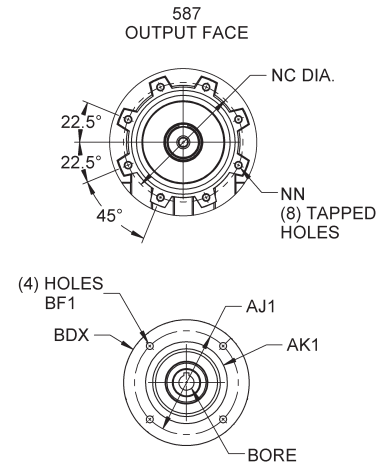
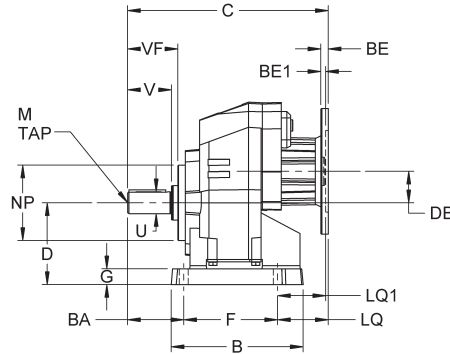
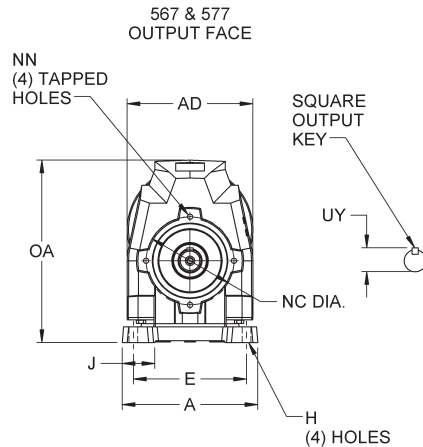
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³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FOOT MOUNT

MOUNTING TYPE E



(INCHES)

MODEL	STAGES	A ³	AD	B ³	BA	C				D	DB	E	F
						56C/140TC	180TC	210TC	250TC				
HI5672E	2	8.27	7.87	9.25	3.94	12.76	13.46	13.98	N/A	5.12	1.97	5.91	7.68
HI5673E	3	8.27	7.87	9.25	3.94	13.13	N/A	N/A	N/A	5.12	0.47	5.91	7.68
HI5772E	2	9.06	9.69	9.65	4.53	13.49	14.19	14.71	N/A	5.51	2.70	6.69	8.07
HI5773E	3	9.06	9.69	9.65	4.53	13.86	N/A	N/A	N/A	5.51	1.20	6.69	8.07
HI5872E	2	11.42	11.08	12.19	5.51	N/A	19.61	19.61	19.61	7.09	2.58	8.47	10.24
HI5873E	3	11.42	11.08	12.19	5.51	17.66	18.36	18.88	N/A	7.09	4.55	8.47	10.24

MODEL	STAGES	G	H	J	LQ		LQ1				M	
					56C/140TC	180TC	210TC	250TC			TAP	DEPTH
HI5672E	2	0.98	0.55	N/A	1.14	1.66	2.04	N/A			1/2-13	1.26
HI5673E	3	0.98	0.55	N/A	1.52	N/A	N/A	N/A			1/2-13	1.26
HI5772E	2	0.71	0.69	N/A	0.89	1.41	1.79	N/A			5/8-11	1.38
HI5773E	3	0.71	0.69	N/A	1.26	N/A	N/A	N/A			5/8-11	1.38
HI5872E	2	1.18	0.71	N/A	N/A	3.54	3.54	3.54			3/4-10	1.42
HI5873E	3	1.18	0.71	N/A	1.91	2.29	2.81	N/A			3/4-10	1.42

OUTPUT SHAFT

MODEL	STAGES	NC	NN		NP	OA ³	U ¹	UY	V	VF	OUTPUT KEY
			TAP	DEPTH							
HI5672E	2	5.51	M10	0.75	4.724	11.42	1.375	1.51	2.76	3.62	5/16 x 2.13
HI5673E	3	5.51	M10	0.75	4.724	11.42	1.375	1.51	2.76	3.62	5/16 x 2.13
HI5772E	2	6.30	M12	0.75	5.512	12.54	1.625	1.79	3.15	4.02	3/8 x 2.25
HI5773E	3	6.30	M12	0.75	5.512	12.54	1.625	1.79	3.15	4.02	3/8 x 2.25
HI5872E	2	7.48	M12	0.71	6.496	16.02	2.125	2.35	3.94	5.16	1/2 x 2.81
HI5873E	3	7.48	M12	0.71	6.496	16.02	2.125	2.35	3.94	5.16	1/2 x 2.81

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	5.88	4.500	6.50	0.38	N/A	0.625	3/16 x 3/32	0.39
140TC	5.88	4.500	6.50	0.38	N/A	0.875	3/16 x 3/32	0.39
180TC	7.25	8.500	8.88	N/A	0.39	1.125	1/4 x 1/8	0.53
210TC	7.25	8.500	8.88	N/A	0.33	1.375	5/16 x 5/32	0.53
250TC	7.25	8.500	8.88	N/A	0.80	1.625	3/8 x 3/16	0.53

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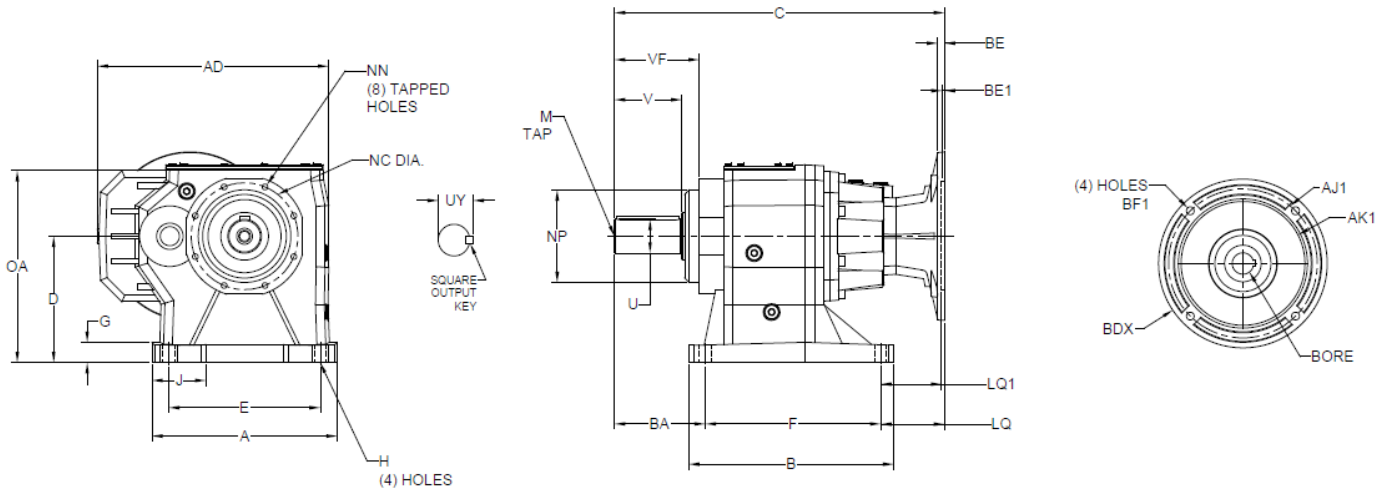
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³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FOOT MOUNT

MOUNTING TYPE E



(INCHES)

MODEL	STAGES	A ³	AD	B ³	BA	C			D	DB	E	F
						180TC	210TC	250TC				
HI5973E	3	12.99	16.24	14.37	6.30	23.50	23.50	23.50	8.86	-	9.84	12.21
HI51073E	3	15.75	17.72	17.32	7.28	26.28	26.28	26.28	9.84	-	11.42	14.57

MODEL	STAGES	G	H	J	LQ1			M	
					180TC	210TC	250TC	TAP	DEPTH
HI5973E	3	1.18	0.87	N/A	4.67	4.67	4.67	3/4-10	1.61
HI51073E	3	1.58	1.02	N/A	4.11	4.11	4.11	3/4-10	1.61

OUTPUT SHAFT

MODEL	STAGES	NC	NN		NP	OA ³	U ¹	UY	V	VF	OUTPUT KEY
			TAP	DEPTH							
HI5973E	3	7.48	M12	0.86	6.496	13.94	2.375	2.65	4.72	5.94	5/8 x 4.00
HI51073E	3	7.87	M14	1.18	6.496	15.67	2.875	3.20	5.51	6.73	3/4 x 4.75

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
180TC	7.25	8.50	8.88	N/A	0.80	1.125	1/4 x 1/8	0.53
210TC	7.25	8.50	8.88	N/A	0.80	1.375	5/16 x 5/32	0.53
250TC	7.25	8.50	8.88	N/A	0.80	1.625	3/8 x 3/16	0.53

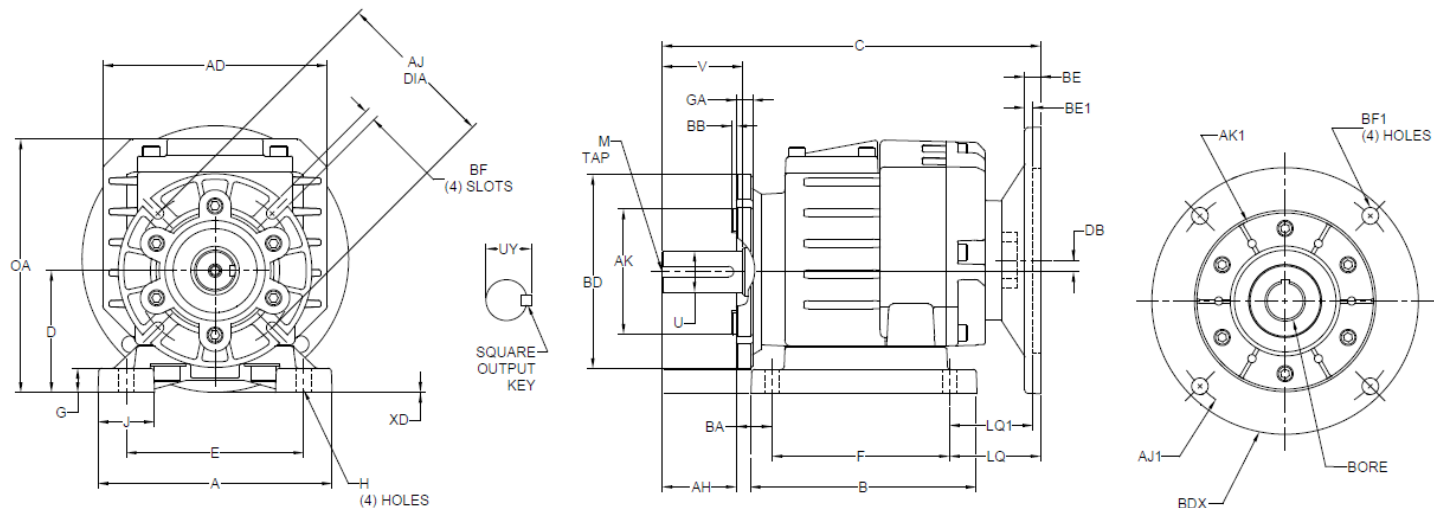
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² REFER TO GEAR CASE DIMENSION TABLE UNDER "C" FOR AVAILABILITY OF C-FACE MOTOR FRAME SIZE FOR A GIVEN MODEL

³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FOOT MOUNT W/ FLANGE MOUNTING TYPE F



(INCHES)

MODEL	STAGES	A ³	AD	B ³	C			D	DB	E	F	G	H	J
					56C	140TC	180TC							
HI5172F	2	5.71	5.47	5.51	8.86	8.86	N/A	2.95	0.27	4.33	4.33	0.59	0.35	1.38
HI5173F	3	5.71	5.47	5.51	9.62	N/A	N/A	2.95	0.13	4.33	4.33	0.59	0.35	1.38
HI5272F	2	5.71	5.47	6.02	9.26	9.26	N/A	3.54	0.27	4.33	5.12	0.79	0.35	1.38
HI5273F	3	5.71	5.47	6.02	10.02	N/A	N/A	3.54	0.13	4.33	5.12	0.79	0.35	1.38
HI5372F	2	7.48	7.01	6.14	11.42	11.42	12.13	4.33	0.21	6.30	5.12	0.79	0.43	2.08
HI5373F	3	7.48	7.01	6.14	11.76	11.76	N/A	4.33	0.59	6.30	5.12	0.79	0.43	2.08

OUTPUT SHAFT

MODEL	STAGES	M		OA ³	U ¹	UY	V	OUTPUT KEY	LQ		
		TAP	DEPTH						56C	143TC	180TC
HI5172F	2	1/4-20	0.71	6.10	0.750	0.84	1.57	3/16 x 1.12	2.25	2.25	N/A
HI5173F	3	1/4-20	0.71	6.10	0.750	0.84	1.57	3/16 x 1.12	3.01	N/A	N/A
HI5272F	2	5/16-18	0.82	6.77	1.000	1.11	1.97	1/4 x 1.62	1.19	1.19	N/A
HI5273F	3	5/16-18	0.82	6.77	1.000	1.11	1.97	1/4 x 1.62	1.95	N/A	N/A
HI5372F	2	5/16-18	0.82	8.33	1.000	1.11	2.24	1/4 x 1.88	3.35	3.35	3.88
HI5373F	3	5/16-18	0.82	8.33	1.000	1.11	2.24	1/4 x 1.88	3.69	3.69	N/A

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BA	BD	BB	BF	GA	XD
HI5172F HI5173F	1	1.41	3.94	3.150	0.87	4.72	0.10	0.28	0.39	N/A
	2	1.41	4.53	3.740	0.87	5.51	0.12	0.35	0.39	N/A
HI5272F HI5273F	1	1.81	3.94	3.150	1.14	4.72	0.10	0.28	0.39	N/A
	2	1.81	4.53	3.740	1.14	5.51	0.12	0.35	0.39	N/A
	3	1.81	5.12	4.331	1.14	6.30	0.14	0.35	0.39	N/A
HI5372F HI5373F	4	1.81	6.50	5.118	1.14	7.87	0.14	0.43	0.43	0.40
	1	2.14	5.12	4.331	0.81	6.30	0.14	0.35	0.39	N/A
	2	2.14	6.50	5.118	0.81	7.87	0.14	0.43	0.51	N/A

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	5.88	4.500	6.50	0.38	N/A	0.625	3/16 x 3/32	0.41
140TC	5.88	4.500	6.50	0.38	N/A	0.875	3/16 x 3/32	0.41
180TC	7.25	8.500	8.88	N/A	0.50	1.125	1/4 x 1/8	0.53

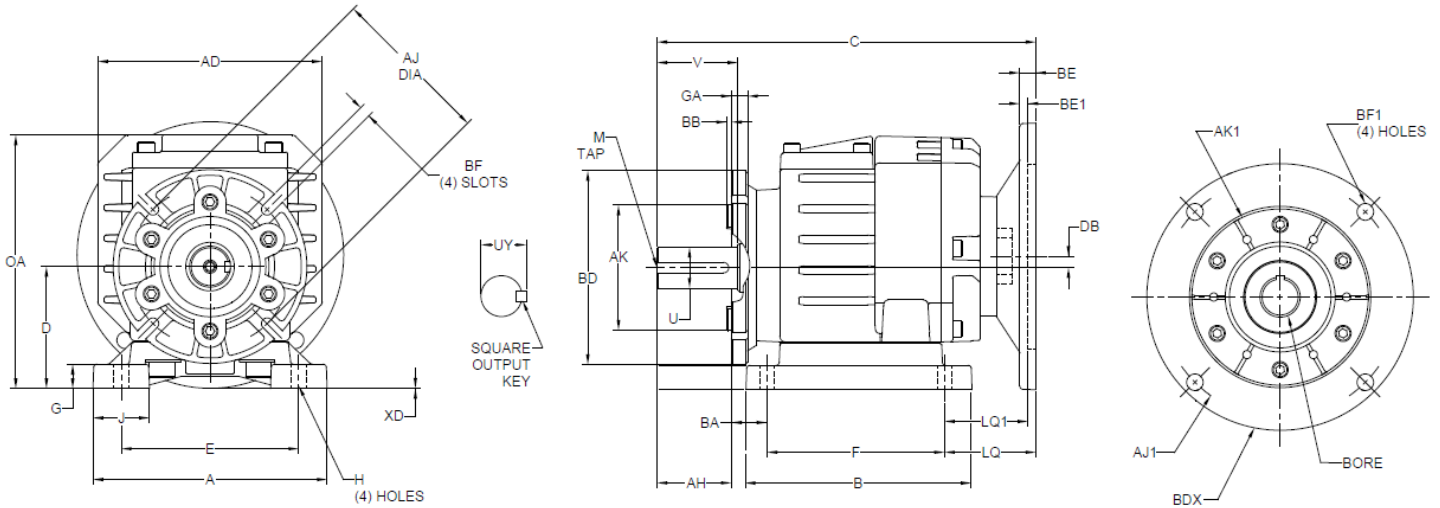
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³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FOOT MOUNT W/ FLANGE MOUNTING TYPE F



(INCHES)

MODEL	STAGES	A ³	AD	B ³	C			D	DB	E	F	G	H	J
					56C	140TC	180TC							
HI5472F	2	6.69	7.01	7.76	11.54	11.54	12.25	4.53	0.21	5.31	6.50	0.94	0.53	1.65
HI5473F	3	6.69	7.01	7.76	11.88	11.88	N/A	4.53	0.59	5.31	6.50	0.94	0.53	1.65
HI5572F	2	6.69	7.95	7.76	12.51	12.51	13.22	4.53	0.86	5.31	6.50	0.94	0.53	1.65
HI5573F	3	6.69	7.95	7.76	15.85	15.85	N/A	4.53	0.61	5.31	6.50	0.94	0.53	1.65

OUTPUT SHAFT

MODEL	STAGES	M		OA ³	U ¹	UY	V	OUTPUT KEY
		TAP	DEPTH					
HI5472F	2	5/16-18	0.82	8.52	1.250	1.37	2.36	1/4 x 2.00
HI5473F	3	5/16-18	0.82	8.52	1.250	1.37	2.36	1/4 x 2.00
HI5572F	2	3/8 - 16	0.88	8.58	1.375	1.52	2.64	5/16 x 2.00
HI5573F	3	3/8 - 16	0.88	8.58	1.375	1.52	2.64	5/16 x 2.00

LQ		LQ1
56C	143TC	180TC
1.50	1.50	2.03
1.84	1.84	N/A
2.19	2.19	2.72
2.53	2.53	N/A

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BA	BD	BB	BF	GA	XD
HI5472F	1	2.26	5.12	4.331	1.28	6.30	0.14	0.35	0.39	N/A
HI5473F	2	2.26	6.50	5.118	1.28	7.87	0.14	0.43	0.51	N/A
HI5572F	1	2.54	5.12	4.331	1.28	6.30	0.14	0.35	0.39	N/A
HI5573F	2	2.54	6.50	5.118	1.28	7.87	0.14	0.43	0.51	N/A

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	5.88	4.500	6.50	0.38	N/A	0.625	3/16 x 3/32	0.41
140TC	5.88	4.500	6.50	0.38	N/A	0.875	3/16 x 3/32	0.41
180TC	7.25	8.500	8.88	N/A	0.50	1.125	1/4 x 1/8	0.53

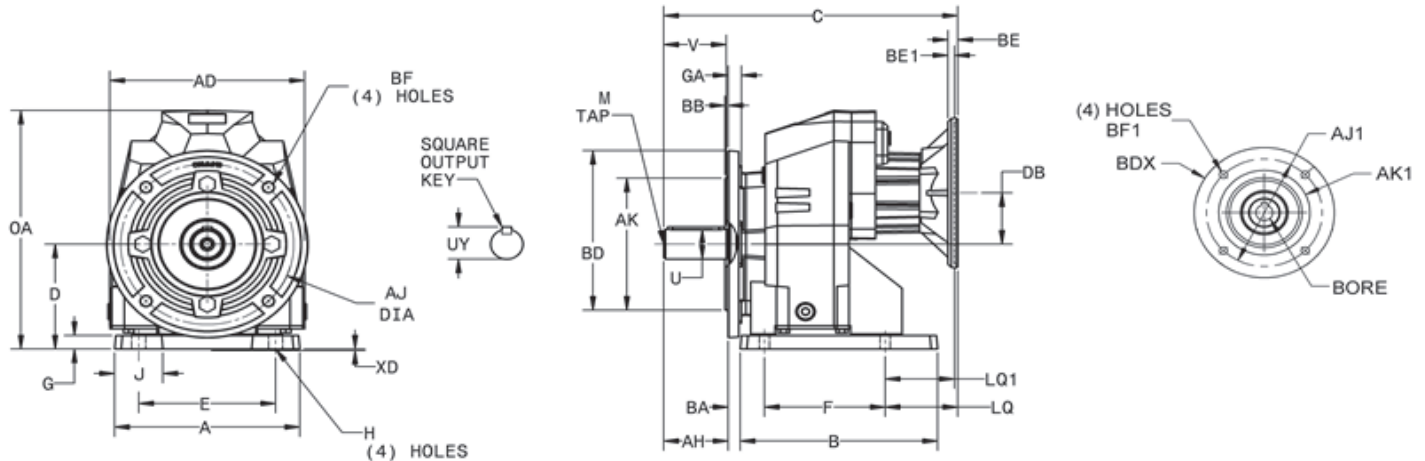
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³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FOOT MOUNT W/ FLANGE MOUNTING TYPE F



(INCHES)

MODEL	STAGES	A ³	AD	B ³	C				D	DB	E	F	G	H	J
					56C/140TC	180TC	210TC	250TC							
HI5672F	2	8.27	7.87	9.25	12.76	13.46	13.98	N/A	5.12	1.97	5.91	7.68	0.98	0.55	N/A
HI5673F	3	8.27	7.87	9.25	13.13	N/A	N/A	N/A	5.12	0.47	5.91	7.68	0.98	0.55	N/A
HI5772F	2	9.06	9.69	9.65	13.49	14.19	14.71	N/A	5.51	2.7	6.69	8.07	0.71	0.69	N/A
HI5773F	3	9.06	9.69	9.65	13.86	N/A	N/A	N/A	5.51	1.2	6.69	8.07	0.71	0.69	N/A
HI5872F	2	11.42	11.08	12.19	N/A	19.61	19.61	19.61	7.09	2.58	8.47	10.24	1.18	0.71	N/A
HI5873F	3	11.42	11.08	12.19	17.66	18.36	18.88	N/A	7.09	4.55	8.47	10.24	1.18	0.71	N/A

OUTPUT SHAFT

MODEL	STA- GES	M		OA ³	U ¹	UY	V	OU- TPUT KEY	LQ		LQ1		
		TAP	DEPTH						56C	143TC	180TC	210TC	250TC
HI5672F	2	1/2-13	1.26	11.42	1.375	1.51	2.76	5/16 x 2.13	1.14	1.14	1.66	2.04	N/A
HI5673F	3	1/2-13	1.26	11.42	1.375	1.51	2.76	5/16 x 2.13	1.52	1.52	N/A	N/A	N/A
HI5772F	2	5/8-11	1.38	12.54	1.625	1.79	3.15	3/8 x 2.25	0.89	0.89	1.41	1.79	N/A
HI5773F	3	5/8-11	1.38	12.54	1.625	1.79	3.15	3/8 x 2.25	1.26	1.26	N/A	N/A	N/A
HI5872F	2	3/4-10	1.42	16.02	2.125	2.35	3.94	1/2 x 2.81	N/A	N/A	3.54	3.54	3.54
HI5873F	3	3/4-10	1.42	16.02	2.125	2.35	3.94	1/2 x 2.81	1.91	1.91	2.29	2.81	N/A

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BA	BD	BB	BF	GA	XD
HI5672F HI5673F	1	2.76	6.5	5.118	1.18	7.87	0.14	0.43	0.43	N/A
HI5772F HI5773F	1	3.15	8.47	7.087	1.38	9.84	0.16	0.55	0.51	N/A
HI5872F HI5873F	1	3.94	10.43	9.055	1.57	11.81	0.16	0.55	0.83	N/A

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	5.88	4.500	6.50	0.39	N/A	0.625	3/16 x 3/32	0.39
140TC	5.88	4.500	6.50	0.39	N/A	0.875	3/16 x 3/32	0.39
180TC	7.25	8.500	8.88	N/A	0.39	1.125	1/4 x 1/8	0.53
210TC	7.25	8.500	8.88	N/A	0.33	1.375	5/16 x 5/32	0.53
250TC	7.25	8.500	8.88	N/A	0.80	1.625	3/8 x 3/16	0.53

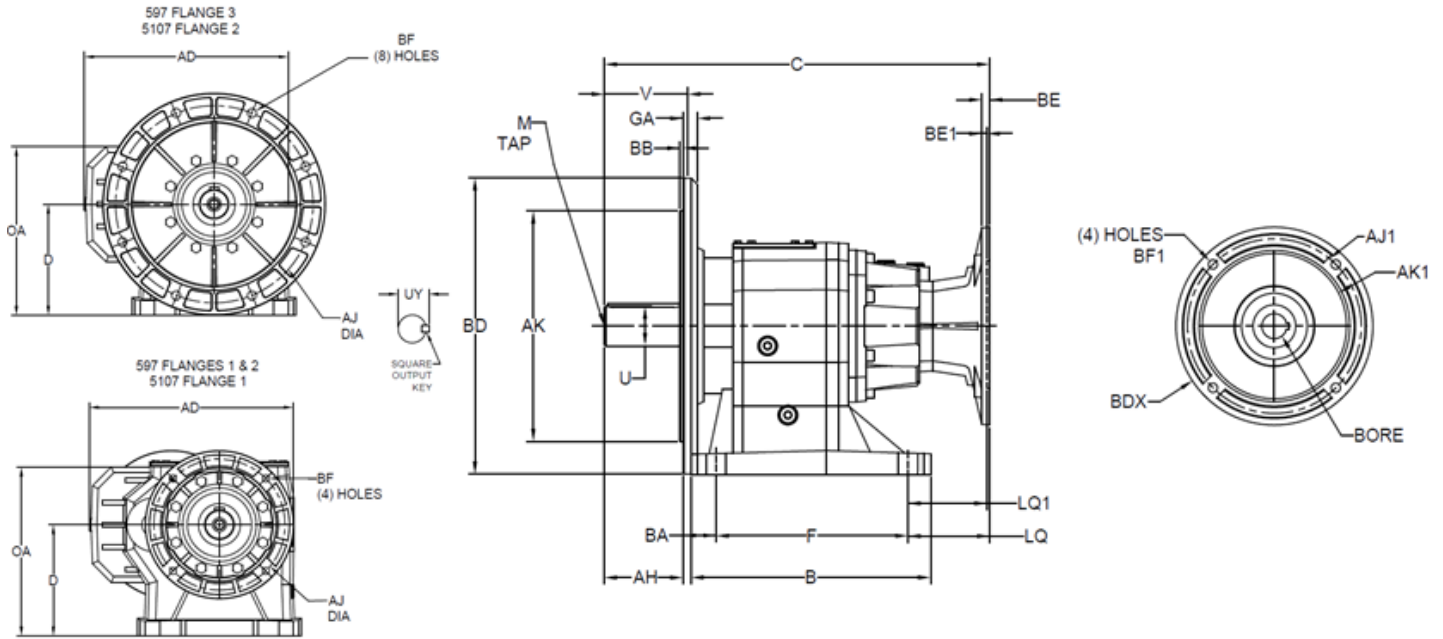
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² REFER TO GEAR CASE DIMENSION TABLE UNDER "C" FOR AVAILABILITY OF C-FACE MOTOR FRAME SIZE FOR A GIVEN MODEL

³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FOOT MOUNT W/ FLANGE MOUNTING TYPE F



(INCHES)

MODEL	STAGES	A ³	AD	B ³	C			D	DB	E	F	G	H	J
					180TC	210TC	250TC							
HI5973F	3	12.99	16.24	14.37	23.5	23.5	23.5	8.86	-	9.84	12.21	1.18	0.87	N/A
HI51073F	3	15.75	17.72	17.32	26.28	26.28	26.28	9.84	-	11.42	14.57	1.58	1.02	N/A

OUTPUT SHAFT

MODEL	STAGES	M		OA ³	U ¹	UY	V	OUTPUT KEY	LQ1		
		TAP	DEPTH						180TC	210TC	250TC
HI5973F	3	3/4-10	1.61	13.94	2.375	2.65	4.72	5/8 x 5/16	4.67	4.67	4.67
HI51073F	3	3/4-10	1.61	15.67	2.875	3.2	5.51	3/4 x 3/8	4.11	4.11	4.11

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BA	BD	BB	BF	GA	XD
HI5973F	1	4.72	10.43	9.055	1.58	11.81	0.16	0.55	4	0.83
	2	4.72	11.81	9.843	1.58	13.78	0.20	0.71	4	0.83
	3	4.72	15.75	13.780	1.58	17.72	0.20	0.71	8	0.87
HI51073F	1	5.51	11.81	9.843	1.77	13.78	0.20	0.71	4	0.83
	2	5.51	15.75	13.780	1.77	17.72	0.20	0.71	4	0.87

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	7.25	8.500	8.88	N/A	0.80	1.125	1/4 x 1/8	0.53
210TC	7.25	8.500	8.88	N/A	0.80	1.375	5/16 x 5/32	0.53
250TC	7.25	8.500	8.88	N/A	0.80	1.625	3/8 x 3/16	0.53

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER "U": +.000", -.0012"

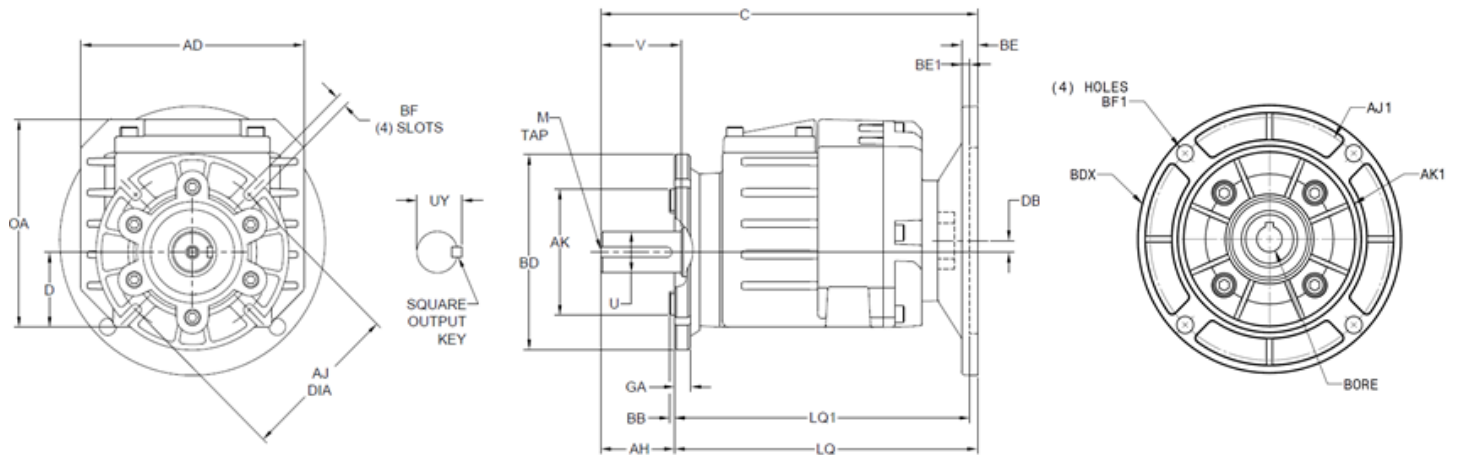
² REFER TO GEAR CASE DIMENSION TABLE UNDER "C" FOR AVAILABILITY OF C-FACE MOTOR FRAME SIZE FOR A GIVEN MODEL

³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FLANGE MOUNT

MOUNTING TYPE G⁴



(INCHES)

MODEL	STAGES	AD	C			D	DB	M		OA ³	U ¹	UY	V	OUTPUT KEY
			56C	140TC	180TC			TAP	DEPTH					
HI5172G	2	5.47	8.86	8.86	N/A	1.79	0.27	1/4-20	0.71	5.00	0.750	0.84	1.57	3/16 x 1.12
HI5173G	3	5.47	9.62	N/A	N/A	1.79	0.13	1/4-20	0.71	5.00	0.750	0.84	1.57	3/16 x 1.12
HI5272G	2	5.47	9.26	9.26	N/A	1.79	0.27	5/16-18	0.82	5.00	1.000	1.11	1.97	1/4 x 1.62
HI5273G	3	5.47	10.02	N/A	N/A	1.79	0.13	5/16-18	0.82	5.00	1.000	1.11	1.97	1/4 x 1.62
HI5372G	2	7.01	11.42	11.42	12.13	2.74	0.21	5/16-18	0.82	6.73	1.000	1.11	2.24	1/4 x 1.88
HI5373G	3	7.01	11.76	11.76	N/A	2.74	0.59	5/16-18	0.82	6.73	1.000	1.11	2.24	1/4 x 1.88

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BD	BB	BF	GA	LQ- 56/140TC		LQ1-180TC
									2 STAGE	3 STAGE	
HI5172G HI5173G	1	1.41	3.94	3.150	4.72	0.10	0.28	0.39	7.45	8.21	N/A
	2	1.41	4.53	3.740	5.51	0.12	0.35	0.39	7.45	8.21	N/A
	3	1.41	5.12	4.331	6.30	0.14	0.35	0.39	7.45	8.21	N/A
	4	1.41	6.50	5.118	7.87	0.14	0.43	0.43	7.45	8.21	N/A
HI5272G HI5273G	1	1.81	3.94	3.150	4.72	0.10	0.28	0.39	7.45	8.21	N/A
	2	1.81	4.53	3.740	5.51	0.12	0.35	0.39	7.45	8.21	N/A
	3	1.81	5.12	4.331	6.30	0.14	0.35	0.39	7.45	8.21	N/A
	4	1.81	6.50	5.118	7.87	0.14	0.43	0.43	7.45	8.21	N/A
HI5372G HI5373G	1	2.14	5.12	4.331	6.30	0.14	0.35	0.39	9.28	9.62	9.81
	2	2.14	6.50	5.118	7.87	0.14	0.43	0.51	9.28	9.62	9.81
	3	2.14	8.46	7.087	9.84	0.16	0.55	0.61	9.28	9.62	9.81

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	5.88	4.500	6.50	0.38	N/A	0.625	3/16 x 3/32	0.41
140TC	5.88	4.500	6.50	0.38	N/A	0.875	3/16 x 3/32	0.41
180TC	7.25	8.500	8.88	N/A	0.50	1.125	1/4 x 1/8	0.53

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER "U": +.000", -.0012"

² REFER TO GEAR CASE DIMENSION TABLE UNDER "C" FOR AVAILABILITY OF C-FACE MOTOR FRAME SIZE FOR A GIVEN MODEL

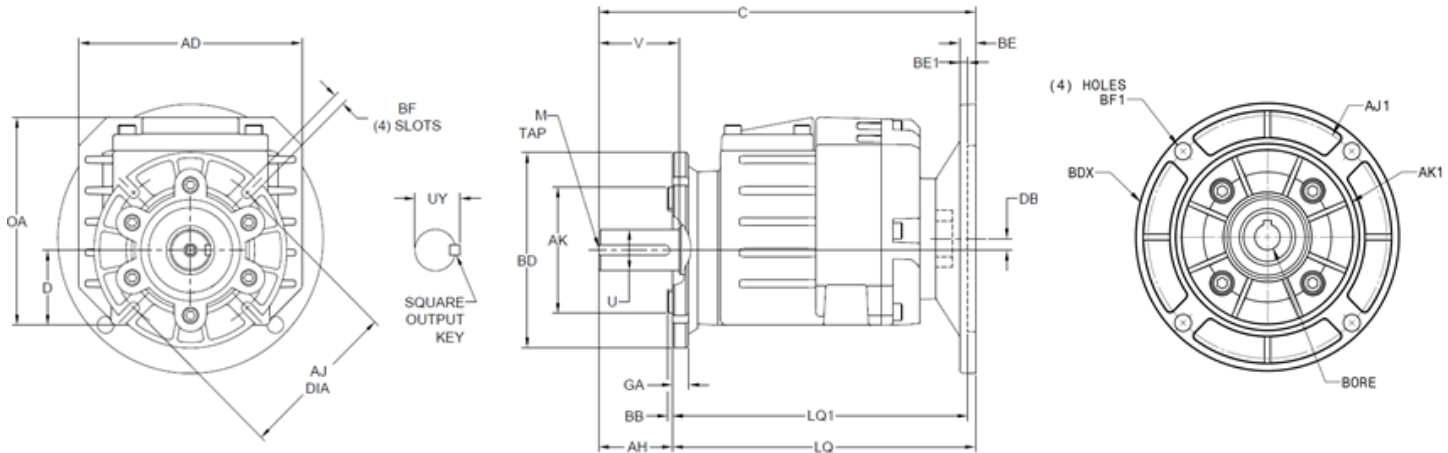
³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

⁴ FOR C-FACE QUILL INPUT WITH FACE MOUNT (MOUNTING TYPE H), REFER TO PAGE 61 FOR SHAFT AND MOUNTING DIMENSIONS

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FLANGE MOUNT

MOUNTING TYPE G⁴



(INCHES)

MODEL	STAGES	AD	C			D	DB	M		OA ³	U ¹	UY	V	OUTPUT KEY
			56C	140TC	180TC			TAP	DEPTH					
HI5472G	2	7.01	11.54	11.54	12.25	2.74	0.21	5/16-18	0.82	6.73	1.250	1.37	2.36	1/4 x 2.00
HI5473G	3	7.01	11.88	11.88	N/A	2.74	0.59	5/16-18	0.82	6.73	1.250	1.37	2.36	1/4 x 2.00
HI5572G	2	7.95	12.51	12.51	13.22	2.74	0.86	3/8 - 16	0.88	6.79	1.375	1.52	2.64	5/16 x 2.00
HI5573G	3	7.95	12.85	12.85	N/A	2.74	0.61	3/8 - 16	0.88	6.79	1.375	1.52	2.64	5/16 x 2.00

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BD	BB	BF	GA	LQ- 56/140TC		LQ1-180TC
									2 STAGE	3 STAGE	
HI5472G HI5473G	1	2.26	5.12	4.331	6.30	0.14	0.35	0.39	9.28	9.62	9.81
	2	2.26	6.50	5.118	7.87	0.14	0.43	0.51	9.28	9.62	9.81
	3	2.26	8.46	7.087	9.87	0.16	0.55	0.61	9.28	9.62	9.81
HI5572G HI5573G	1	2.54	5.12	4.331	6.30	0.14	0.35	0.39	9.97	10.31	10.49
	2	2.54	6.50	5.118	7.87	0.14	0.43	0.51	9.97	10.31	10.49
	3	2.54	8.46	7.087	9.87	0.16	0.55	0.61	9.97	10.31	10.49

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	5.88	4.500	6.50	0.38	N/A	0.625	3/16 x 3/32	0.41
140TC	5.88	4.500	6.50	0.38	N/A	0.875	3/16 x 3/32	0.41
180TC	7.25	8.500	8.88	N/A	0.50	1.125	1/4 x 1/8	0.53

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

² REFER TO GEAR CASE DIMENSION TABLE UNDER "C" FOR AVAILABILITY OF C-FACE MOTOR FRAME SIZE FOR A GIVEN MODEL

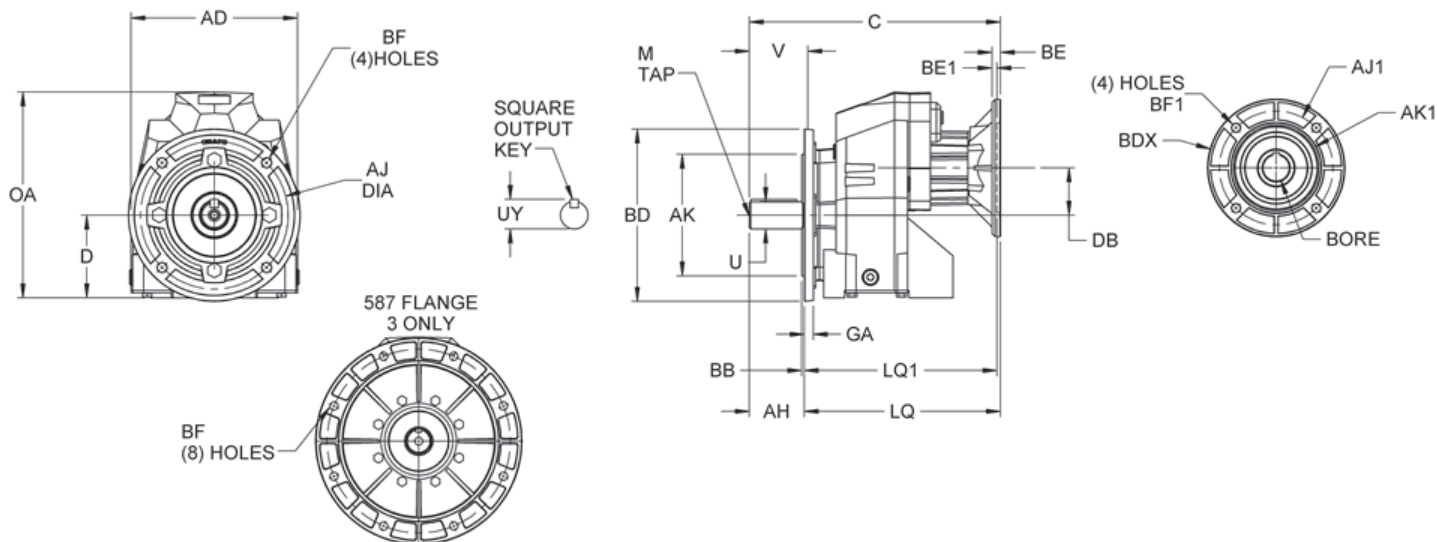
³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

⁴ FOR C-FACE QUILL INPUT WITH FACE MOUNT (MOUNTING TYPE H), REFER TO PAGE 61 FOR SHAFT AND MOUNTING DIMENSIONS

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FLANGE MOUNT

MOUNTING TYPE G⁴



(INCHES)

MODEL	STAGES	AD	C				D	DB	M		OA ³	U ¹	UY	V	OUTPUT KEY
			56C/140TC	180TC	210TC	250TC			TAP	DEPTH					
HI5672G	2	7.87	12.76	13.46	13.98	N/A	3.94	1.97	1/2-13	1.26	10.24	1.375	1.51	2.76	5/16 x 2.13
HI5673G	3	7.87	13.13	N/A	N/A	N/A	3.94	0.47	1/2-13	1.26	10.24	1.375	1.51	2.76	5/16 x 2.13
HI5772G	2	9.69	13.49	14.19	14.71	N/A	4.72	2.70	5/8-11	1.38	11.75	1.625	1.79	3.15	3/8 x 2.25
HI5773G	3	9.69	13.86	N/A	N/A	N/A	4.72	1.20	5/8-11	1.38	11.75	1.625	1.79	3.15	3/8 x 2.25
HI5872G	2	11.08	N/A	19.61	19.61	19.61	5.51	2.58	3/4-10	1.42	14.43	2.125	2.35	3.94	1/2 x 2.81
HI5873G	3	11.08	17.66	18.36	18.88	N/A	5.51	4.55	3/4-10	1.42	14.43	2.125	2.35	3.94	1/2 x 2.81

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BD	BB	BF		GA	LQ- 56/140TC		LQ1 -180TC		LQ1 -210TC		LQ1- 250TC
							DIA.	HOLES		2 STAGE	3 STAGE	2 STAGE	3 STAGE	2 STAGE	3 STAGE	2 STAGE
HI5672G	1	2.76	6.50	5.118	7.87	0.14	0.43	4	0.43	10.00	10.37	10.52	N/A	10.90	N/A	N/A
HI5673G	2	2.76	8.47	7.087	9.84	0.16	0.55	4	0.51	10.00	10.37	10.52	N/A	10.90	N/A	N/A
HI5772G	1	3.15	8.47	7.087	9.84	0.16	0.55	4	0.51	10.34	10.71	10.86	N/A	11.24	N/A	N/A
HI5773G	2	3.15	10.43	9.055	11.81	0.16	0.55	4	0.63	10.34	10.71	10.86	N/A	11.24	N/A	N/A
HI5872G	1	3.94	10.43	9.055	11.81	0.16	0.55	4	0.83	N/A	13.72	15.35	14.24	15.35	14.62	15.33
HI5873G	2	3.94	11.81	9.843	13.78	0.20	0.71	4	0.83	N/A	13.72	15.35	14.24	15.35	14.62	15.33
	3	3.94	15.75	13.780	17.72	0.20	0.71	8	0.87	N/A	13.72	15.35	14.24	15.35	14.62	15.33

C-FACE QUILL INPUT

MOTOR ² FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
56C	5.88	4.500	6.50	0.38	N/A	0.625	3/16 x 3/32	0.39
140TC	5.88	4.500	6.50	0.38	N/A	0.875	3/16 x 3/32	0.39
180TC	7.25	8.500	8.88	N/A	0.39	1.125	1/4 x 1/8	0.53
210TC	7.25	8.500	8.88	N/A	0.33	1.375	5/16 x 5/32	0.53
250TC	7.25	8.500	8.88	N/A	0.80	1.625	3/8 x 3/16	0.53

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

² REFER TO GEAR CASE DIMENSION TABLE UNDER "C" FOR AVAILABILITY OF C-FACE MOTOR FRAME SIZE FOR A GIVEN MODEL

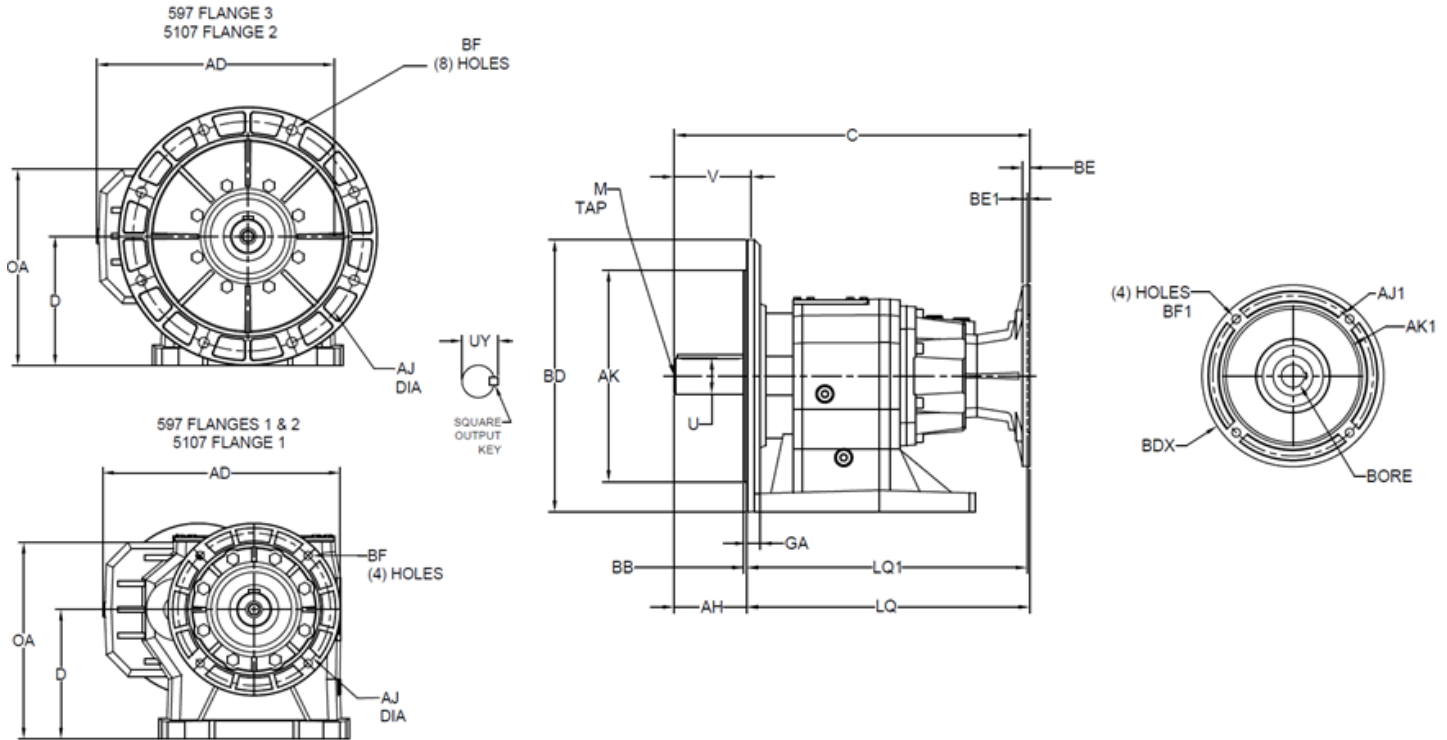
³ ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

⁴ FOR C-FACE QUILL INPUT WITH FACE MOUNT (MOUNTING TYPE H) REFER TO PAGE 61 FOR SHAFT AND MOUNTING DIMENSIONS

HELICAL IN-LINE GEAR REDUCERS

C-FACE QUILL INPUT, FLANGE MOUNT

MOUNTING TYPE G



(INCHES)

MODEL	STAGES	A ²	C			D	DB	M		OA ³	U ¹	UY	V	OUTPUT KEY
			180TC	210TC	250TC			TAP	DEPTH					
HI5973G	3	12.99	23.50	23.50	23.50	8.86	-	3/4-10	1.61	13.94	2.375	2.65	4.72	5/8 x 4.00
HI51073G	3	15.75	26.28	26.28	26.28	9.84	-	3/4-10	1.61	15.67	2.845	3.20	5.51	3/4 x 4.75

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BD	BB	BF		GA	LQ1		
							DIA.	HOLES		180TC	210TC	250TC
HI5973G	1	4.72	10.43	9.055	11.81	0.16	0.55	4	0.83	18.46	18.46	18.46
	2	4.72	11.81	9.843	13.78	0.20	0.71	4	0.83	18.46	18.46	18.46
	3	4.72	15.75	13.780	17.72	0.20	0.71	8	0.87	18.46	18.46	18.46
HI51073G	1	5.51	11.81	9.843	13.78	0.20	0.71	4	0.83	20.45	20.45	20.45
	2	5.51	15.75	13.780	17.72	0.20	0.71	8	0.87	20.45	20.45	20.45

C-FACE QUILL INPUT

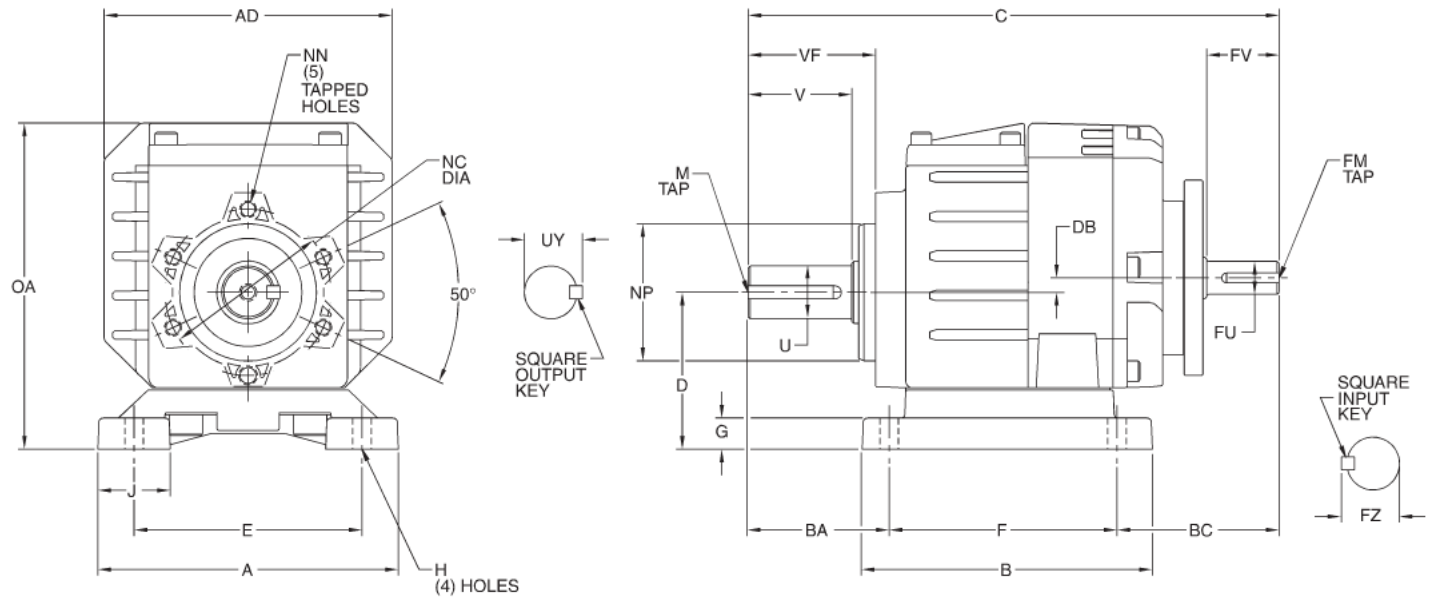
MOTOR FRAME	AJ1	AK1	BDX	BE	BE1	BORE DIA.	KEYWAY	BF1
180TC	7.25	8.500	8.88	N/A	0.80	1.125	1/4 x 1/8	0.53
210TC	7.25	8.500	8.88	N/A	0.80	1.375	5/16 x 5/32	0.53
250TC	7.25	8.500	8.88	N/A	0.80	1.625	3/8 x 3/16	0.53

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

SHAFT INPUT, FOOT MOUNT MOUNTING TYPE A



(INCHES)

MODEL	STAGES	A ²	AD	B ²	BA	BC	C	D	DB	E	F	G	H	J
HI5172A	2	5.71	5.47	5.51	2.28	3.27	9.88	2.95	0.27	4.33	4.33	0.59	0.35	1.38
HI5173A	3	5.71	5.47	5.51	2.28	3.44	10.05	2.95	0.13	4.33	4.33	0.59	0.35	1.38
HI5272A	2	5.71	5.47	6.02	2.95	2.21	10.28	3.54	0.27	4.33	5.12	0.79	0.35	1.38
HI5273A	3	5.71	5.47	6.02	2.95	2.38	10.44	3.54	0.13	4.33	5.12	0.79	0.35	1.38
HI5372A	2	7.48	7.01	6.14	2.95	4.81	12.88	4.33	0.21	6.30	5.12	0.79	0.43	2.08
HI5373A	3	7.48	7.01	6.14	2.95	5.11	13.18	4.33	0.59	6.30	5.12	0.79	0.43	2.08

INPUT SHAFT

MODEL	STAGES	FM		FU ¹	FV	FZ	INPUT KEY
		TAP	DEPTH				
HI5172A	2	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5173A	3	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5272A	2	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5273A	3	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5372A	2	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5373A	3	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50

OUTPUT SHAFT

MODEL	STAGES	M		NC	NN		NP	OA ²	U ¹	UY	V	VF	OUTPUT KEY
		TAP	DEPTH		TAP	DEPTH							
HI5172A	2	1/4-20	0.71	3.15	M8	0.67	2.600	6.10	0.750	0.84	1.57	2.02	3/16 x 1.12
HI5173A	3	1/4-20	0.71	3.15	M8	0.67	2.600	6.10	0.750	0.84	1.57	2.02	3/16 x 1.12
HI5272A	2	5/16-18	0.82	3.15	M8	0.67	2.600	6.77	1.000	1.11	1.97	2.42	1/4 x 1.62
HI5273A	3	5/16-18	0.82	3.15	M8	0.67	2.600	6.77	1.000	1.11	1.97	2.42	1/4 x 1.62
HI5372A	2	5/16-18	0.82	4.84	M10	0.71	4.170	8.33	1.000	1.11	2.24	2.85	1/4 x 1.88
HI5373A	3	5/16-18	0.82	4.84	M10	0.71	4.170	8.33	1.000	1.11	2.24	2.85	1/4 x 1.88

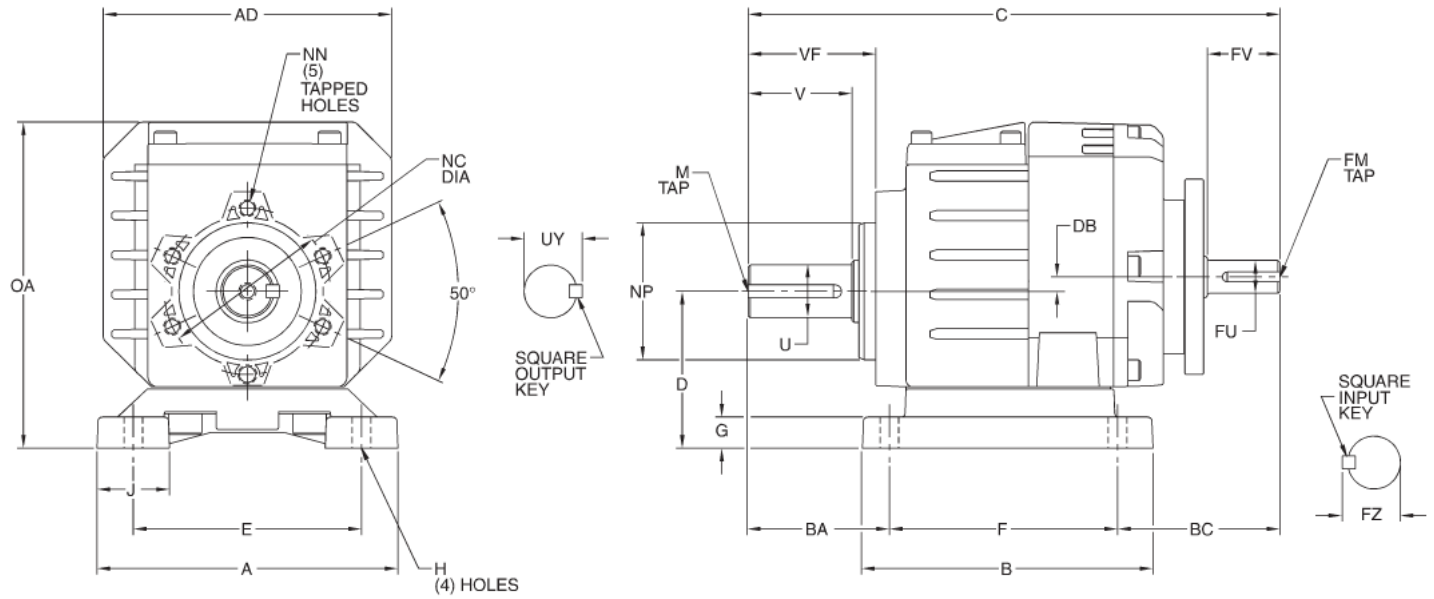
¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

SHAFT INPUT, FOOT MOUNT

MOUNTING TYPE A



(INCHES)

MODEL	STAGES	A ²	AD	B ²	BA	BC	C	D	DB	E	F	G	H	J
HI5472A	2	6.69	7.01	7.76	3.54	2.96	13.00	4.53	0.21	5.31	6.50	0.94	0.53	1.65
HI5473A	3	6.69	7.01	7.76	3.54	3.26	13.30	4.53	0.59	5.31	6.50	0.94	0.53	1.65
HI5572A	2	6.69	7.95	7.76	3.82	3.63	13.95	4.53	0.86	5.31	6.50	0.94	0.53	1.65
HI5573A	3	6.69	7.95	7.76	3.82	3.94	14.26	4.53	0.61	5.31	6.50	0.94	0.53	1.65

INPUT SHAFT

MODEL	STAGES	FM		FU ¹	FV	FZ	INPUT KEY
		TAP	DEPTH				
HI5472A	2	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5473A	3	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5572A	2	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5573A	3	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50

OUTPUT SHAFT

MODEL	STAGES	M		NC	NN		NP	OA ²	U ¹	UY	V	VF	OUTPUT KEY
		TAP	DEPTH		TAP	DEPTH							
HI5472A	2	5/16-18	0.82	4.84	M10	0.71	4.170	8.52	1.250	1.37	2.36	2.97	1/4 x 2.00
HI5473A	3	5/16-18	0.82	4.84	M10	0.71	4.170	8.52	1.250	1.37	2.36	2.97	1/4 x 2.00
HI5572A	2	3/8 - 16	0.88	4.84	M10	0.71	4.170	8.58	1.375	1.52	2.64	3.25	5/16 x 2.00
HI5573A	3	3/8 - 16	0.88	4.84	M10	0.71	4.170	8.58	1.375	1.52	2.64	3.25	5/16 x 2.00

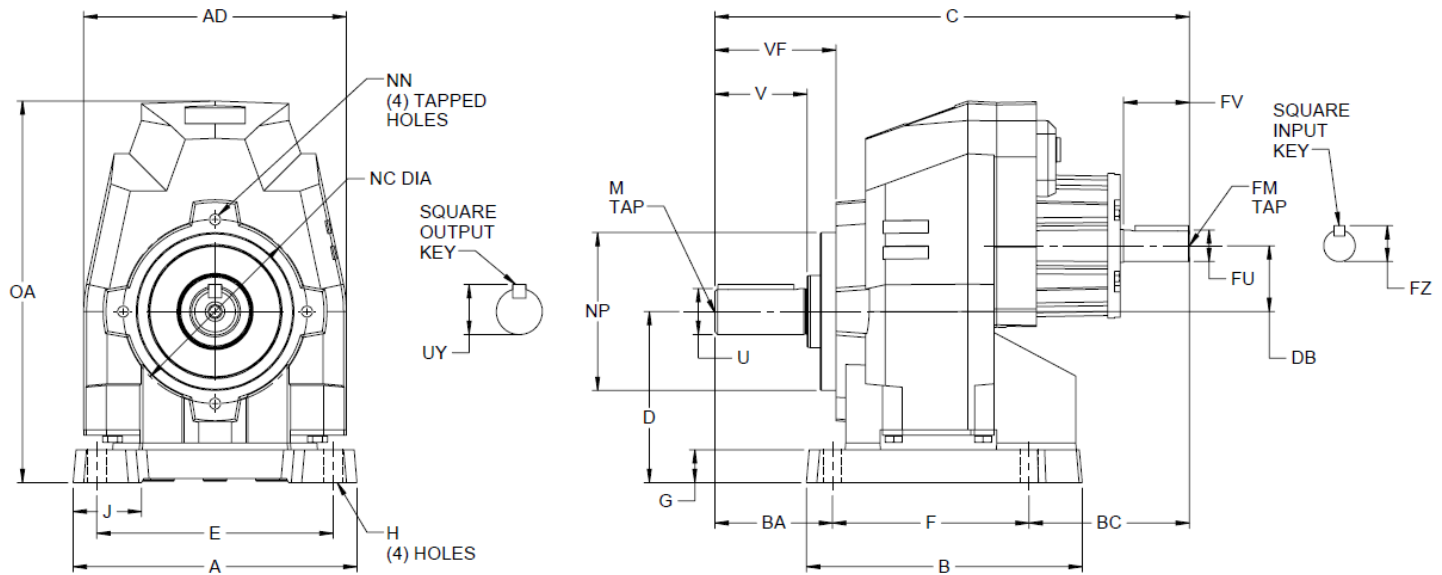
¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

SHAFT INPUT, FOOT MOUNT

MOUNTING TYPE A



(INCHES)

MODEL	STAGES	A ²	AD	B ²	BA	BC	C	D	DB	E	F	G	H	J
HI5672A	2	8.27	7.87	9.25	3.94	2.59	14.21	5.12	1.97	5.91	7.68	0.98	0.55	N/A
HI5673A	3	8.27	7.87	9.25	3.94	2.99	14.54	5.12	0.47	5.91	7.68	0.98	0.55	N/A
HI5772A	2	9.06	9.69	9.65	4.53	2.34	14.94	5.51	2.70	6.69	8.07	0.71	0.69	N/A
HI5773A	3	9.06	9.69	9.65	4.53	2.68	15.28	5.51	1.20	6.69	8.07	0.71	0.69	N/A
HI5873A	3	11.42	11.08	12.19	5.51	3.37	19.12	7.09	4.55	8.47	10.24	1.18	0.71	N/A

INPUT SHAFT

MODEL	STAGES	FM		FU ¹	FV	FZ	INPUT KEY
		TAP	DEPTH				
HI5672A	2	1/4-20	0.71	0.875	1.97	0.96	3/16 x 1.50
HI5673A	3	1/4-20	0.71	0.750	1.97	0.83	3/16 x 1.50
HI5772A	2	1/4-20	0.71	0.875	1.97	0.96	3/16 x 1.50
HI5773A	3	1/4-20	0.71	0.750	1.97	0.83	3/16 x 1.50
HI5873A	3	1/4-20	0.71	0.875	1.97	0.96	3/16 x 1.50

OUTPUT SHAFT

MODEL	STAGES	M		NC	NN		NP	OA ²	U ¹	UY	V	VF	OUTPUT KEY
		TAP	DEPTH		TAP	DEPTH							
HI5672A	2	1/2-13	1.26	5.51	M10	0.75	4.724	11.42	1.375	1.51	2.76	3.62	5/16 x 2.13
HI5673A	3	1/2-13	1.26	5.51	M10	0.75	4.724	11.42	1.375	1.51	2.76	3.62	5/16 x 2.13
HI5772A	2	5/8-11	1.38	6.30	M12	0.75	5.512	12.54	1.625	1.79	3.15	4.02	3/8 x 2.25
HI5773A	3	5/8-11	1.38	6.30	M12	0.75	5.512	12.54	1.625	1.79	3.15	4.02	3/8 x 2.25
HI5873A	3	3/4-10	1.42	7.48	M12	0.71	6.496	16.02	2.125	2.35	3.94	5.16	1/2 x 2.81

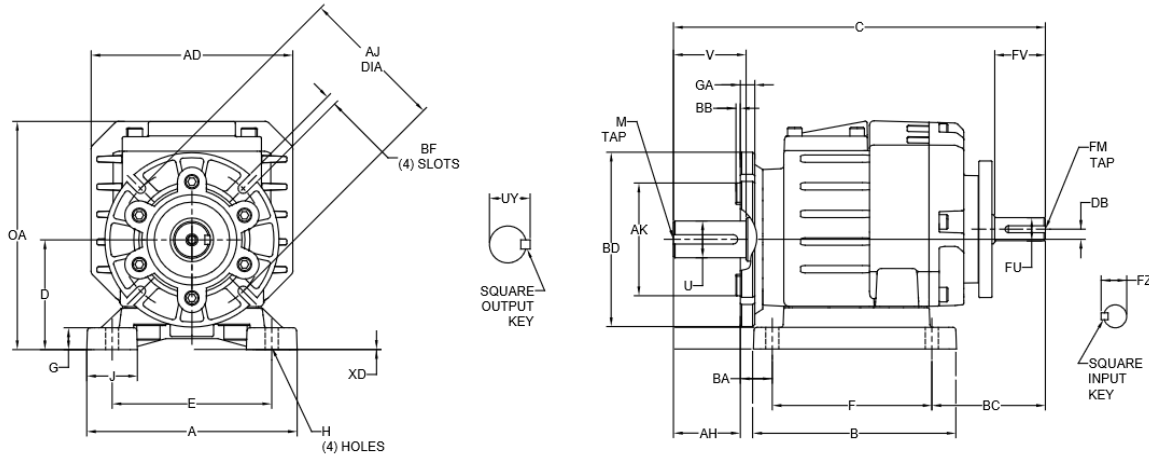
¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

SHAFT INPUT, FOOT MOUNT W/ FLANGE

MOUNTING TYPE B



(INCHES)

MODEL	STAGES	A ²	AD	B ²	BC	C	D	DB	E	F	G	H	J
HI5172B	2	5.71	5.47	5.51	3.27	9.88	2.95	0.27	4.33	4.33	0.59	0.35	1.38
HI5173B	3	5.71	5.47	5.51	3.44	10.05	2.95	0.13	4.33	4.33	0.59	0.35	1.38
HI5272B	2	5.71	5.47	6.02	2.21	10.28	3.54	0.27	4.33	5.12	0.79	0.35	1.38
HI5273B	3	5.71	5.47	6.02	2.38	10.45	3.54	0.13	4.33	5.12	0.79	0.35	1.38
HI5372B	2	7.48	7.01	6.14	4.81	12.88	4.33	0.21	6.30	5.12	0.79	0.43	2.08
HI5373B	3	7.48	7.01	6.14	5.11	13.18	4.33	0.59	6.30	5.12	0.79	0.43	2.08

INPUT SHAFT

MODEL	STAGES	FM		FU ¹	FV	FZ	INPUT KEY
		TAP	DEPTH				
HI5172B	2	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5173B	3	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5272B	2	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5273B	3	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5372B	2	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5373B	3	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50

OUTPUT SHAFT

MODEL	STAGES	M		OA ²	U ¹	UY	V	OUTPUT KEY
		TAP	DEPTH					
HI5172B	2	1/4-20	0.71	6.10	0.750	0.84	1.57	3/16 x 1.12
HI5173B	3	1/4-20	0.71	6.10	0.750	0.84	1.57	3/16 x 1.12
HI5272B	2	5/16-18	0.82	6.77	1.000	1.11	1.97	1/4 x 1.62
HI5273B	3	5/16-18	0.82	6.77	1.000	1.11	1.97	1/4 x 1.62
HI5372B	2	5/16-18	0.82	8.33	1.000	1.11	2.24	1/4 x 1.88
HI5373B	3	5/16-18	0.82	8.33	1.000	1.11	2.24	1/4 x 1.88

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BA	BD	BB	BF	GA	XD
HI5172B HI5173B	1	1.41	3.94	3.150	0.87	4.72	0.10	0.28	0.39	N/A
	2	1.41	4.53	3.740	0.87	5.51	0.12	0.35	0.39	N/A
HI5272B HI5273B	1	1.81	3.94	3.150	1.14	4.72	0.10	0.28	0.39	N/A
	2	1.81	4.53	3.740	1.14	5.51	0.12	0.35	0.39	N/A
	3	1.81	5.12	4.331	1.14	6.30	0.14	0.35	0.39	N/A
	4	1.81	6.50	5.118	1.14	7.87	0.14	0.43	0.43	0.40
HI5372B HI5373B	1	2.14	5.12	4.331	0.81	6.30	0.14	0.35	0.39	N/A
	2	2.14	6.50	5.118	0.81	7.87	0.14	0.43	0.51	N/A

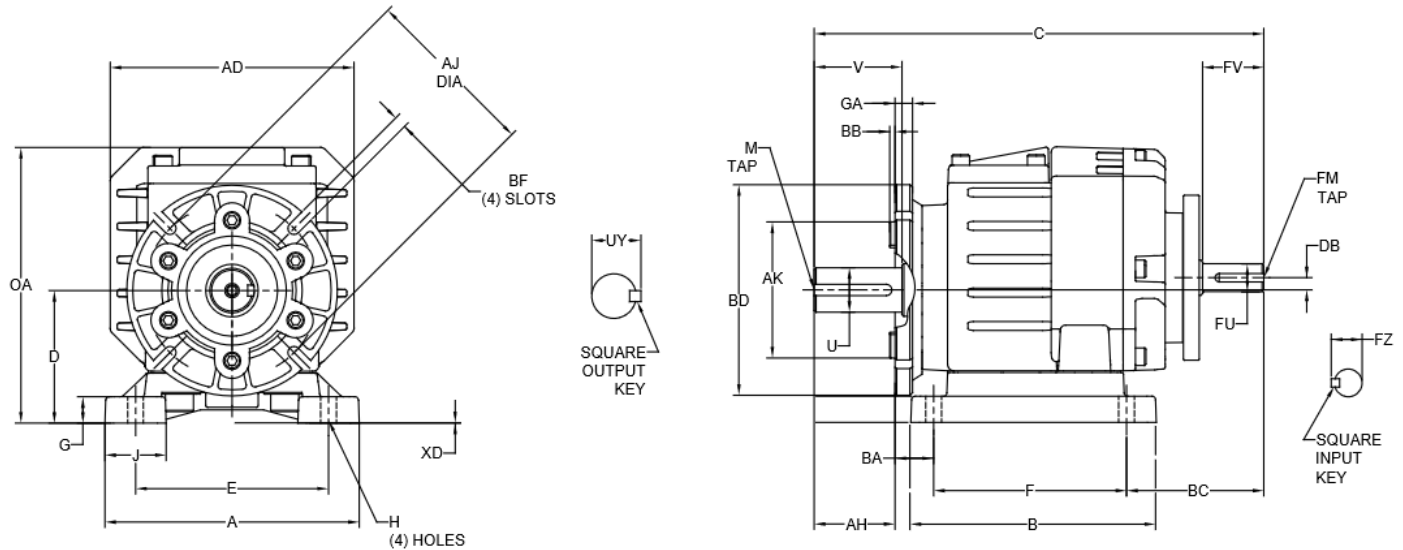
¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

SHAFT INPUT, FOOT MOUNT W/ FLANGE

MOUNTING TYPE B



(INCHES)

MODEL	STAGES	A ²	AD	B ²	BC	C	D	DB	E	F	G	H	J
HI5472B	2	6.69	7.01	7.76	2.96	13.00	4.53	0.21	5.31	6.50	0.94	0.53	1.65
HI5473B	3	6.69	7.01	7.76	3.26	13.30	4.53	0.59	5.31	6.50	0.94	0.53	1.65
HI5572B	2	6.69	7.95	7.76	3.63	13.95	4.53	0.86	5.31	6.50	0.94	0.53	1.65
HI5573B	3	6.69	7.95	7.76	3.94	14.26	4.53	0.61	5.31	6.50	0.94	0.53	1.65

INPUT SHAFT

MODEL	STAGES	FM		FU ¹	FV	FZ	INPUT KEY
		TAP	DEPTH				
HI5472B	2	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5473B	3	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5572B	2	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5573B	3	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50

OUTPUT SHAFT

MODEL	STAGES	M		OA ²	U ¹	UY	V	OUTPUT KEY
		TAP	DEPTH					
HI5472B	2	5/16-18	0.82	8.52	1.250	1.37	2.36	1/4 x 2.00
HI5473B	3	5/16-18	0.82	8.52	1.250	1.37	2.36	1/4 x 2.00
HI5572B	2	3/8 - 16	0.88	8.58	1.375	1.52	2.64	5/16 x 2.00
HI5573B	3	3/8 - 16	0.88	8.58	1.375	1.52	2.64	5/16 x 2.00

OUTPUT FLANGE

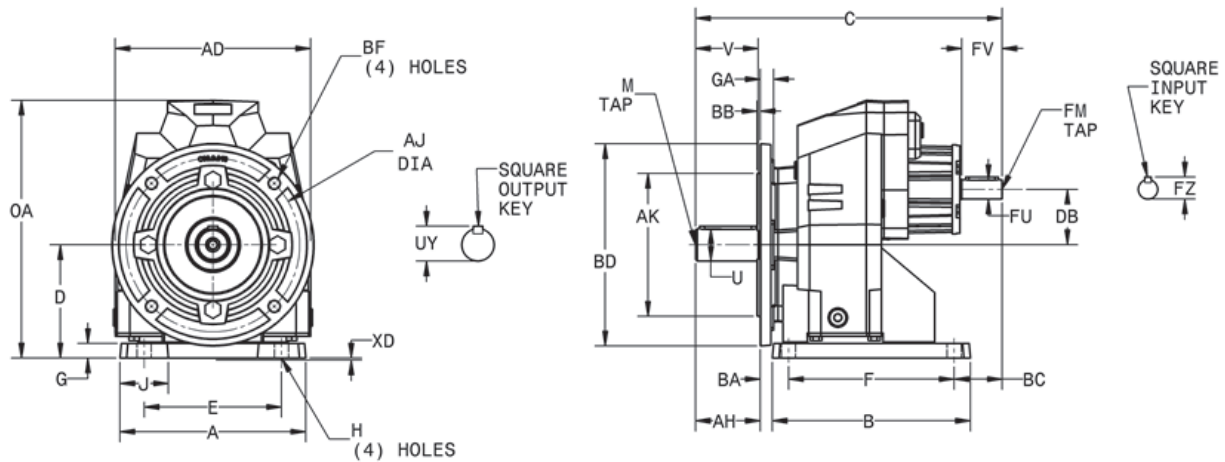
MODEL	FLANGE SIZE	AH	AJ	AK	BA	BD	BB	BF	GA	XD
HI5472B	1	2.26	5.12	4.331	1.28	6.30	0.14	0.35	0.39	N/A
HI5473B	2	2.26	6.50	5.118	1.28	7.87	0.14	0.43	0.51	N/A
HI5572B	1	2.54	5.12	4.331	1.28	6.30	0.14	0.35	0.39	N/A
HI5573B	2	2.54	6.50	5.118	1.28	7.87	0.14	0.43	0.51	N/A

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

SHAFT INPUT, FOOT MOUNT W/ FLANGE MOUNTING TYPE B



(INCHES)

MODEL	STAGES	A ²	AD	B ²	BC	C	D	DB	E	F	G	H	J
HI5672B	2	8.27	7.87	9.25	2.59	14.21	5.12	1.97	5.91	7.68	0.98	0.55	N/A
HI5673B	3	8.27	7.87	9.25	2.99	14.61	5.12	0.47	5.91	7.68	0.98	0.55	N/A
HI5772B	2	9.06	9.69	9.65	2.34	14.94	5.51	2.7	6.69	8.07	0.71	0.69	N/A
HI5773B	3	9.06	9.69	9.65	2.68	15.28	5.51	1.2	6.69	8.07	0.71	0.69	N/A
HI5873B	3	11.42	11.08	12.19	3.37	19.12	7.09	4.55	8.47	10.24	1.18	0.71	N/A

INPUT SHAFT

MODEL	STAGES	FM		FU ¹	FV	FZ	INPUT KEY
		TAP	DEPTH				
HI5672B	2	1/4-20	0.71	0.875	1.97	0.96	3/16 x 1.50
HI5673B	3	1/4-20	0.71	0.750	1.97	0.83	3/16 x 1.50
HI5772B	2	1/4-20	0.71	0.875	1.97	0.96	3/16 x 1.50
HI5773B	3	1/4-20	0.71	0.750	1.97	0.83	3/16 x 1.50
HI5873B	3	1/4-20	0.71	0.875	1.97	0.96	3/16 x 1.50

OUTPUT SHAFT

MODEL	STAGES	M		OA ²	U ¹	UY	V	OUTPUT KEY
		TAP	DEPTH					
HI5672B	2	1/2-13	1.26	11.42	1.375	1.51	2.76	5/16 x 2.13
HI5673B	3	1/2-13	1.26	11.42	1.375	1.51	2.76	5/16 x 2.13
HI5772B	2	5/8-11	1.38	12.54	1.625	1.79	3.15	3/8 x 2.25
HI5773B	3	5/8-11	1.38	12.54	1.625	1.79	3.15	3/8 x 2.25
HI5873B	3	3/4-10	1.42	16.02	2.125	2.35	3.94	1/2 x 2.81

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BA	BD	BB	BF	GA	XD
HI5672B HI5673B	1	2.76	6.5	5.118	1.18	7.87	0.14	0.43	0.43	N/A
HI5772B HI5773B	1	3.15	8.47	7.087	1.38	9.84	0.16	0.55	0.51	N/A
HI5873B	1	3.94	10.43	9.055	1.57	11.81	0.16	0.55	0.83	N/A

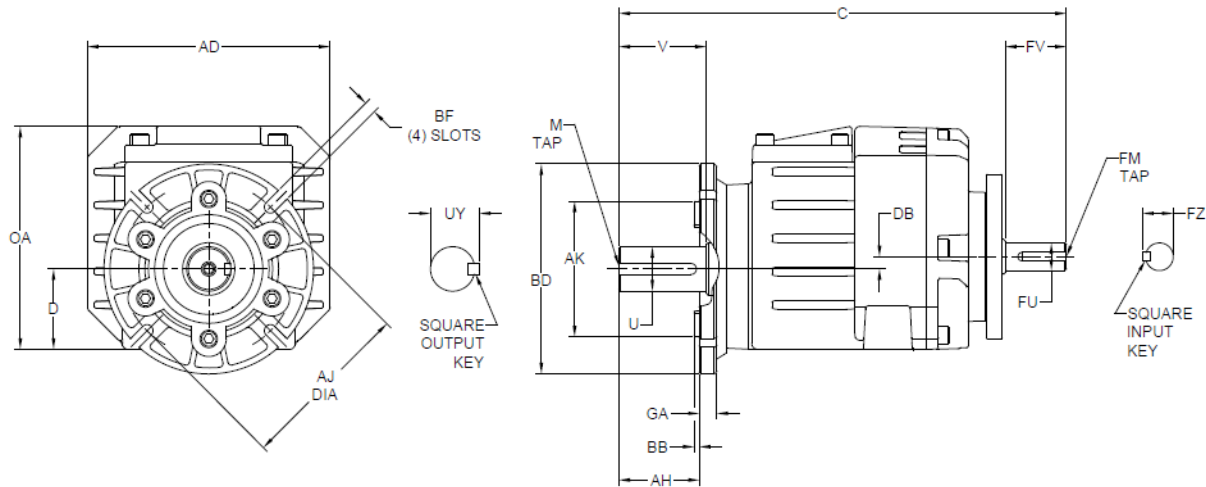
¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

HELICAL IN-LINE GEAR REDUCERS

SHAFT INPUT, FLANGE MOUNT

MOUNTING TYPE C³



(INCHES)

MODEL	STAGES	AD ²	C	D	DB	FM		FU ¹	FV	FZ	INPUT KEY
						TAP	DEPTH				
HI5172C	2	5.47	9.88	1.79	0.27	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5173C	3	5.47	10.05	1.79	0.13	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5272C	2	5.47	10.28	1.79	0.27	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5273C	3	5.47	10.45	1.79	0.13	1/4-20	0.62	0.625	1.57	0.71	3/16 x 1.12
HI5372C	2	7.01	12.88	2.74	0.21	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5373C	3	7.01	13.18	2.74	0.59	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BD	BB	BF	GA
HI5172C HI5173C	1	1.41	3.94	3.150	4.72	0.10	0.28	0.39
	2	1.41	4.53	3.740	5.51	0.12	0.35	0.39
	3	1.41	5.12	4.331	6.30	0.14	0.35	0.39
	4	1.41	6.50	5.118	7.87	0.14	0.43	0.43
HI5272C HI5273C	1	1.81	3.94	3.150	4.72	0.10	0.28	0.39
	2	1.81	4.53	3.740	5.51	0.12	0.35	0.39
	3	1.81	5.12	4.331	6.30	0.14	0.35	0.39
	4	1.81	6.50	5.118	7.87	0.14	0.43	0.43
HI5372C HI5373C	1	2.14	5.12	4.331	6.30	0.14	0.35	0.39
	2	2.14	6.50	5.118	7.87	0.14	0.43	0.51
	3	2.14	8.46	7.087	9.84	0.16	0.55	0.61

OUTPUT SHAFT

MODEL	STAGES	M		OA ²	U ¹	UY	V	OUTPUT KEY
		TAP	DEPTH					
HI5172C	2	1/4-20	0.71	5.00	0.750	0.84	1.57	3/16 x 1.12
HI5173C	3	1/4-20	0.71	5.00	0.750	0.84	1.57	3/16 x 1.12
HI5272C	2	5/16-18	0.82	5.00	1.000	1.11	1.97	1/4 x 1.62
HI5273C	3	5/16-18	0.82	5.00	1.000	1.11	1.97	1/4 x 1.62
HI5372C	2	5/16-18	0.82	6.73	1.000	1.11	2.24	1/4 x 1.88
HI5373C	3	5/16-18	0.82	6.73	1.000	1.11	2.24	1/4 x 1.88

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

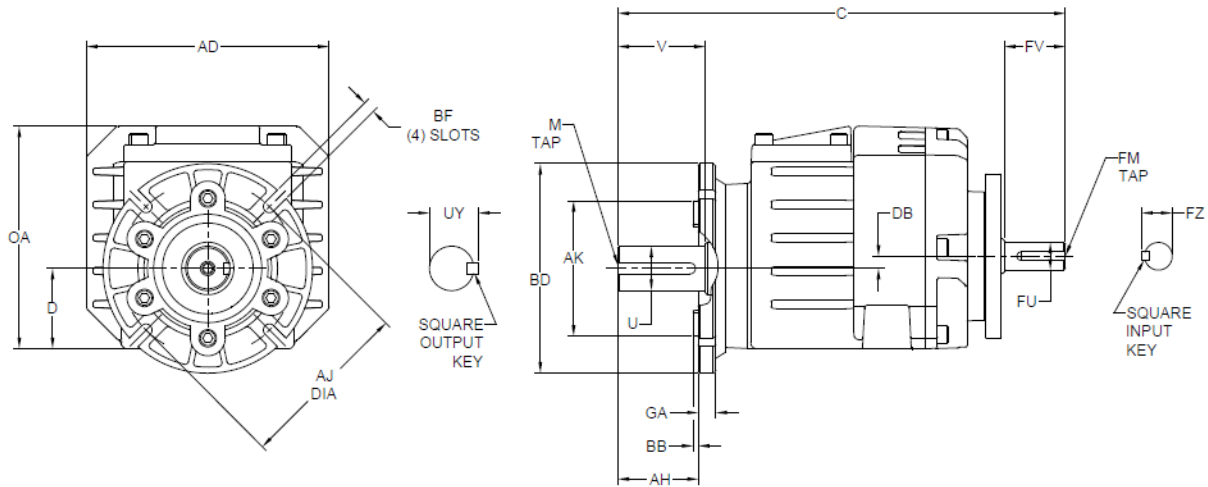
² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

³ FOR SHAFT INPUT WITH FACE MOUNT (MOUNTING TYPE D) REFER TO PAGE 61 FOR SHAFT AND MOUNTING DIMENSIONS

HELICAL IN-LINE GEAR REDUCERS

SHAFT INPUT, FLANGE MOUNT

MOUNTING TYPE C³



(INCHES)

MODEL	STAGES	AD ²	C	D	DB	FM		FU ¹	FV	FZ	INPUT KEY
						TAP	DEPTH				
HI5472C	2	7.01	13.00	2.74	0.21	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5473C	3	7.01	13.30	2.74	0.59	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5572C	2	7.95	13.95	2.74	0.86	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50
HI5573C	3	7.95	14.26	2.74	0.61	5/16-18	0.75	0.750	1.97	0.84	3/16 x 1.50

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BD	BB	BF	GA
HI5472C HI5473C	1	2.26	5.12	4.331	6.30	0.14	0.35	0.39
	2	2.26	6.50	5.118	7.87	0.14	0.43	0.51
	3	2.26	8.46	7.087	9.87	0.16	0.55	0.61
HI5572C HI5573C	1	2.54	5.12	4.331	6.30	0.14	0.35	0.39
	2	2.54	6.50	5.118	7.87	0.14	0.43	0.51
	3	2.54	8.46	7.087	9.87	0.16	0.55	0.61

OUTPUT SHAFT

MODEL	STAGES	M		OA ²	U ¹	UY	V	OUTPUT KEY
		TAP	DEPTH					
HI5472C	2	5/16-18	0.82	6.73	1.250	1.37	2.36	1/4 x 2.00
HI5473C	3	5/16-18	0.82	6.73	1.250	1.37	2.36	1/4 x 2.00
HI5572C	2	3/8 - 16	0.88	6.79	1.375	1.52	2.64	5/16 x 2.00
HI5573C	3	3/8 - 16	0.88	6.79	1.375	1.52	2.64	5/16 x 2.00

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

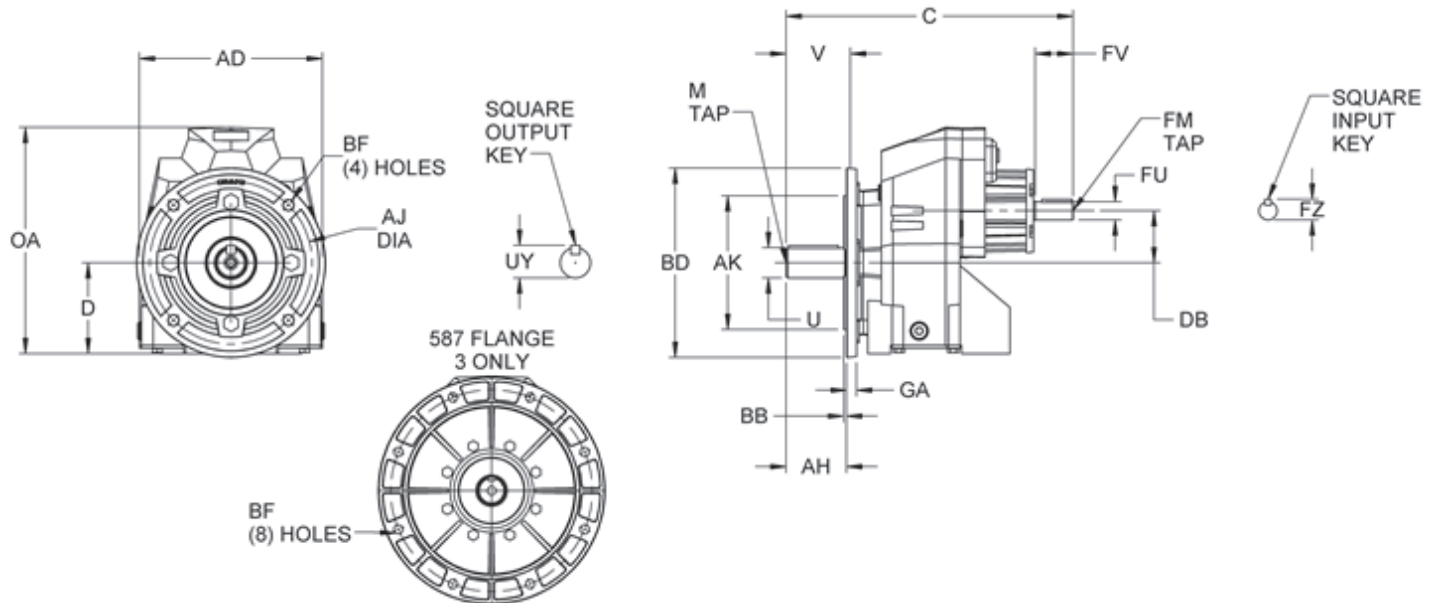
² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

³ FOR SHAFT INPUT WITH FACE MOUNT (MOUNTING TYPE D) REFER TO PAGE 61 FOR SHAFT AND MOUNTING DIMENSIONS

HELICAL IN-LINE GEAR REDUCERS

SHAFT INPUT, FLANGE MOUNT

MOUNTING TYPE C³



(INCHES)

MODEL	STAGES	AD ²	C	D	DB	FM		FU ¹	FV	FZ	INPUT KEY
						TAP	DEPTH				
HI5672C	2	7.87	14.21	3.94	1.97	1/4-20	0.71	0.875	1.97	0.96	3/16 x 1.50
HI5673C	3	7.87	14.61	3.94	0.47	1/4-20	0.71	0.750	1.97	0.83	3/16 x 1.50
HI5772C	2	9.69	14.94	4.72	2.70	1/4-20	0.71	0.875	1.97	0.96	3/16 x 1.50
HI5773C	3	9.69	15.28	4.72	1.20	1/4-20	0.71	0.750	1.97	0.83	3/16 x 1.50
HI5873C	3	11.08	19.12	5.51	4.55	1/4-20	0.71	0.875	1.97	0.96	3/16 x 1.50

OUTPUT FLANGE

MODEL	FLANGE SIZE	AH	AJ	AK	BD	BB	BF		GA
							DIA.	#HOLES	
HI5672C	1	2.76	6.50	5.118	7.87	0.14	0.43	4	0.43
HI5673C	2	2.76	8.47	7.087	9.84	0.16	0.55	4	0.51
HI5772C	1	3.15	8.47	7.087	9.84	0.16	0.55	4	0.51
HI5773C	2	3.15	10.43	9.055	11.81	0.16	0.55	4	0.63
HI5873C	1	3.94	10.43	9.055	11.81	0.16	0.55	4	0.83
	2	3.94	11.81	9.843	13.78	0.20	0.71	4	0.83
	3	3.94	15.75	13.78	17.72	0.20	0.71	8	0.87

OUTPUT SHAFT

MODEL	STAGES	M		OA ²	U ¹	UY	V	OUTPUT KEY
		TAP	DEPTH					
HI5672C	2	1/2-13	1.26	10.24	1.375	1.51	2.76	5/16 x 2.13
HI5673C	3	1/2-13	1.26	10.24	1.375	1.51	2.76	5/16 x 2.13
HI5772C	2	5/8-11	1.38	11.75	1.625	1.79	3.15	3/8 x 2.25
HI5773C	3	5/8-11	1.38	11.75	1.625	1.79	3.15	3/8 x 2.25
HI5873C	3	3/4-10	1.42	14.43	2.125	2.35	3.94	1/2 x 2.81

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

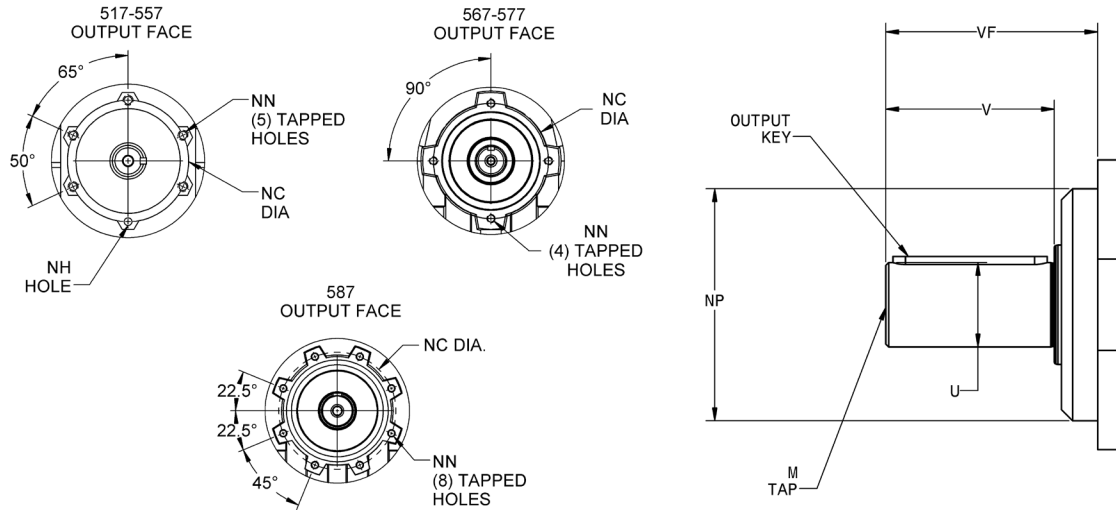
² ALL ROUGH CASTING DIMENSIONS CAN VARY BY .12" FROM VALUE SHOWN

³ FOR SHAFT INPUT WITH FACE MOUNT (MOUNTING TYPE D) REFER TO PAGE 61 FOR SHAFT AND MOUNTING DIMENSIONS

HELICAL IN-LINE GEAR REDUCERS

FACE MOUNT SUPPLEMENT PAGE

MOUNTING TYPE D AND H



(INCHES)

MODEL	STAGES	FM		NC	NH	NN		NP	U ¹	V	VF	OUTPUT KEY
		TAP	DEPTH			TAP	DEPTH					
HI517	2, 3	1/4 - 20	0.71	3.15	0.31	M8	0.67	2.6	0.75	1.57	2.02	3/16 x 1.12
HI527	2, 3	5/16 - 18	0.82	3.15	0.31	M8	0.67	2.6	1	1.97	2.42	1/4 x 1.62
HI537	2, 3	5/16 - 18	0.82	4.84	0.39	M10	0.71	4.17	1	2.24	2.85	1/4 x 1.62
HI547	2, 3	5/16 - 18	0.82	4.84	0.39	M10	0.71	4.17	1.25	2.36	2.97	1/4 x 2.00
HI557	2, 3	3/8 - 16	0.88	4.84	0.39	M10	0.71	4.17	1.375	2.64	3.25	5/16 x 2.00
HI567	2, 3	1/2 - 13	1.26	5.512	N/A	M10	0.75	4.724	1.375	2.756	3.622	5/16 x 2.13
HI577	2, 3	5/8 - 11	1.38	6.299	N/A	M12	0.748	5.512	1.625	3.15	4.016	3/8 x 2.25
HI587	2, 3	3/4 - 10	1.42	7.48	N/A	M12	0.709	6.496	2.125	3.94	5.157	1/2 x 2.81

¹ SHAFT EXTENSION TOLERANCES: +.0000", -.0010" UP TO 2.125" DIAMETER "U". LARGER DIAMETER: "U", +.0000", -.0012"

HELICAL IN-LINE GEAR REDUCERS

SHIPPING WEIGHTS (LBS.)

FOOT MOUNT REDUCERS - WEIGHT IN LBS.

MODEL	TYPE A	TYPE E				
		56C	140TC	180TC	210TC	250TC
5172	13	13	13	-	-	-
5173	14	14	-	-	-	-
5272	14	14	14	-	-	-
5273	15	15	-	-	-	-
5372	26	26	26	28	-	-
5373	27	27	27	-	-	-
5472	27	27	27	29	-	-
5473	28	28	28	-	-	-
5572	33	33	33	35	-	-
5573	32	32	32	-	-	-
5672	74	74	74	76	78	-
5673	74	74	74	-	-	-
5772	96	96	96	98	100	-
5773	96	96	96	-	-	-
5872	-	-	-	236	236	236
5873	208	208	208	210	212	-
5973	-	-	-	246	246	246
51073	-	-	-	364	364	364

FOOT MOUNT W/ FLANGE REDUCERS - WEIGHT IN LBS.

MODEL	TYPE B	TYPE F				
		56C	140TC	180TC	210TC	250TC
5172	14	14	14	-	-	-
5173	15	15	-	-	-	-
5272	15	15	15	-	-	-
5273	16	16	-	-	-	-
5372	29	29	29	31	-	-
5373	30	30	30	-	-	-
5472	30	30	30	32	-	-
5473	31	31	31	-	-	-
5572	36	36	36	38	-	-
5573	35	35	35	-	-	-
5672	79	79	79	81	83	-
5673	79	79	79	-	-	-
5772	102	102	102	114	106	-
5773	102	102	102	-	-	-
5872	-	-	-	246	246	246
5873	218	218	218	220	222	-

FLANGE MOUNT REDUCERS - WEIGHT IN LBS.

MODEL	TYPE A	TYPE G				
		56C	140TC	180TC	210TC	250TC
5172	12	12	12	-	-	-
5173	13	13	-	-	-	-
5272	13	13	13	-	-	-
5273	14	14	-	-	-	-
5372	26	26	26	28	-	-
5373	27	27	27	-	-	-
5472	27	27	27	29	-	-
5473	28	28	28	-	-	-
5572	33	33	33	35	-	-
5573	32	32	32	-	-	-
5672	66	66	66	68	70	-
5673	66	66	66	-	-	-
5772	87	87	87	89	91	-
5773	87	87	87	-	-	-
5872	-	-	-	217	219	221
5873	208	-	208	210	212	-
5973	-	-	-	246	246	246
51073	-	-	-	364	364	364



PRODUCT CATALOG

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