RIGHT ANGLE GEAR REDUCERS - Cast Iron Housing

KFM Hi-Temp seals on shafts

"O" Rings & gaskets under covers

Mounting dimensions interchangeable with most industry standard reducers

- AGMA center distances 1.33" to 3.25"
- NEMA 56C to 210TC Input
- Competitive torque ratings
- Ratios 7.5:1 to 60:1, .25 to 7.5 HP
- Heavy duty cast iron housing
- Permanent synthetic oil
- Easy left / right handing change
- Stainless steel nameplate

NOMENCLATURE EXAMPLE - PART NUMBER = "W2063056BQL"					
TYPE RA WORM	SIZE (CENTRE DISTANCE)	SINGLE REDUCTION RATIO (:1)	INPUT (NEMA FRAME SIZE)	*STYLE	OUTPUT (ASSEMBLY)
W	206	30	56C	BQ	L
AVAILABLE OPTIONS					
W	1.33"	7.5	56C 143 / 145TC 182 / 184TC 213 / 215TC	SEE TABLES BELOW*	L (SINGLE LEFT) R (SINGLE RIGHT)
	1.54"	10			
	1.75"	15			
	2.06"	20			
	2.37"	30			
	2.62"	40			
	3.00"	50			
	3.25"	60			

*STYLE DESCRIPTION	
QUILL (HOLLOW) FLANGED INPUT	
*STYLE	DESCRIPTION
BQ	No base
TQ	Horizontal base, worm over
UQ	Horizontal base, worm under

LIST PRICES - BASIC UNITS / BASE KITS

STYLE/SIZE	133	154	175	206	237	262	300	325
BQ	398	443	484	578	668	822	1019	1191
TQ	424	471	513	608	700	855	1053	1227
HORIZONTAL BASE KIT	26	28	29	30	32	33	34	36
HORIZONTAL BASE KIT IND#	WT-133	WT-154	WT-175	WT-206	WT-237	WT-262	WT-300	WT-325

RIGHT ANGLE GEAR REDUCERS

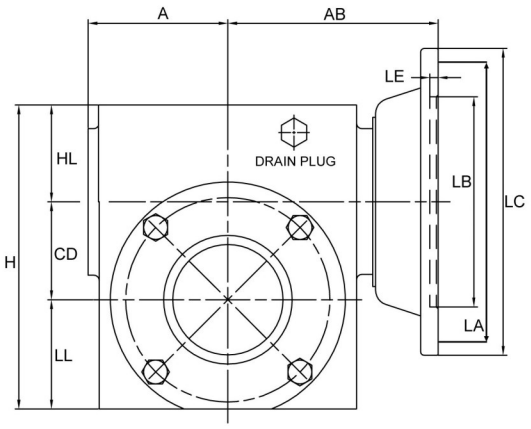
AG-I RIGHT ANGLE "QUICK FIND" SELECTION TABLES - INPUT = 1750 RPM

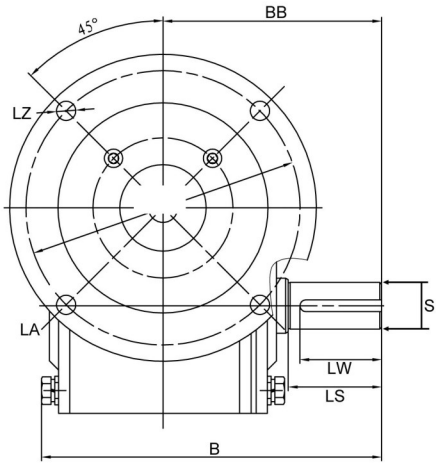
HP*	RATIO (:1)	OUTPUT RPM	SIZE	MAX. OUTPUT TORQUE (IN/LB)	*S.F. @ HP	MAX. INPUT HP	INPUT FLANGE AVAIL.
.25	7.5	233	133	243	4.1	1.0	56C
	10	175		254	3.3	.82	
	15	116		282	2.6	.64	
	20	87		309	2.2	.55	
	25	70		299	1.8	.45	
	30	58		304	1.6	.40	
	40	43		312	1.3	.33	
	50	35		316	1.1	.29	
	60	29		302	1.0	.25	
.33	7.5	233	133	243	3.1	1.0	56C
	10	175		254	2.5	.82	
	15	116		282	1.9	.64	
	20	87		309	1.7	.55	
	25	70		299	1.3	.45	
	30	58		304	1.2	.40	
	40	43	154	499	1.7	.56	
	50	35		474	1.4	.46	
	60	29		445	1.2	.39	
.50	7.5	233	133	243	2.1	1.0	56C
	10	175		254	1.6	.82	
	15	116		282	1.3	.64	
	20	87		309	1.1	.55	
	25	70	154	483	1.5	.75	
	30	58		460	1.3	.63	
	40	43		499	1.1	.56	
	50	35	175	610	1.0	.52	
	60	29	206	902	1.3	.67	
.75	7.5	233	133	243	1.4	1.0	56C
	10	175		254	1.1	.82	
	15	116	154	429	1.3	1.0	
	20	87		497	1.2	.92	
	25	70		483	1.0	.75	
	30	58	175	591	1.0	.74	
	40	43	206	932	1.2	.92	
	50	35		931	1.0	.77	
	60	29	237	1350	1.3	.97	
1.0	7.5	233	133	243	1.0	1.0	56C
	10	175	154	386	1.3	1.3	
	15	116		429	1.0	1.0	
	20	87	175	605	1.0	1.0	
	25	70	206	925	1.3	1.3	
	30	58		946	1.1	1.1	
	40	43	237	1376	1.3	1.3	
	50	35		1375	1.1	1.1	
	60	29	262	1733	1.2	1.2	

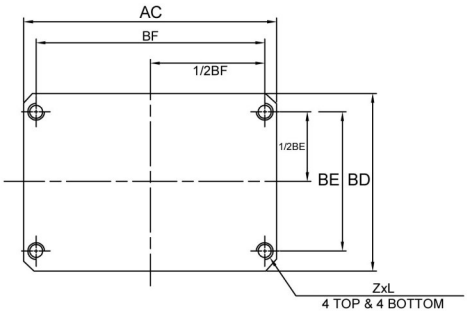
HP*	RATIO (:1)	OUTPUT RPM	SIZE	MAX. OUTPUT TORQUE (IN/LB)	*S.F. @HP	MAX. INPUT HP	INPUT FLANGE AVAIL.
1.5	7.5	233	154	355	1.0	1.5	56C/ 140TC
	10	175	175	509	1.1	1.6	
	15	116	206	861	1.3	1.9	
	20	87		925	1.0	1.6	
	25	70	237	1396	1.3	2.3	
	30	58		1345	1.1	1.7	
	40	43	262	1780	1.1	1.7	
	50	35	300	2390	1.3	1.9	
	60	29		2290	1.1	1.6	
2.0	7.5	233	206	664	1.4	2.8	56C/ 140TC
	10	175		773	1.2	2.5	
	15	116	237	1265	1.4	2.8	
	20	87		1364	1.2	2.3	
	25	70		1396	1.0	2.0	
	30	58	262	1808	1.1	2.1	
	40	43	300	2378	1.1	2.3	
	50	35		2390	1.0	2.0	
	60	29	325	3143	1.0	2.1	
3.0	7.5	233	237	955	1.3	4.0	180TC
	10	175		1125	1.2	3.6	
	15	116	262	1668	1.2	3.6	
	20	87		1763	1.0	3.0	
	25	70	300	2426	1.1	3.4	
	30	58	325	3097	1.2	3.6	
	40	43		3171	1.0	3.0	
	50	35	N/A				
	60	29					
5.0	7.5	233	262	1186	1.0	5.0	180TC
	10	175	300	1956	1.2	6.2	
	15	116		2236	1.0	5.0	
	20	87	325	3136	1.0	5.2	
	25	70	N/A				
	30	58					
	40	43					
	50	35					
	60	29					
7.5	7.5	233	325	2143	1.2	8.9	210TC
	10	175		2592	1.1	8.1	
	15	116	N/A				
	20	87					
	25	70					
	30	58					
	40	43					
	50	35					
	60	29					

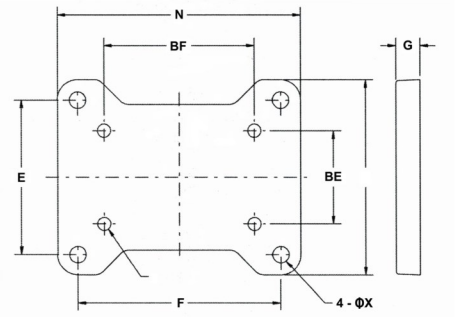
RIGHT ANGLE GEAR REDUCERS

"QUICK REFERENCE" DIMENSIONS









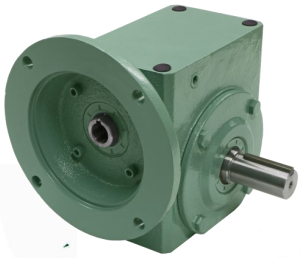
GENERAL DIMENSIONS - 'BQ' Style Reducers*

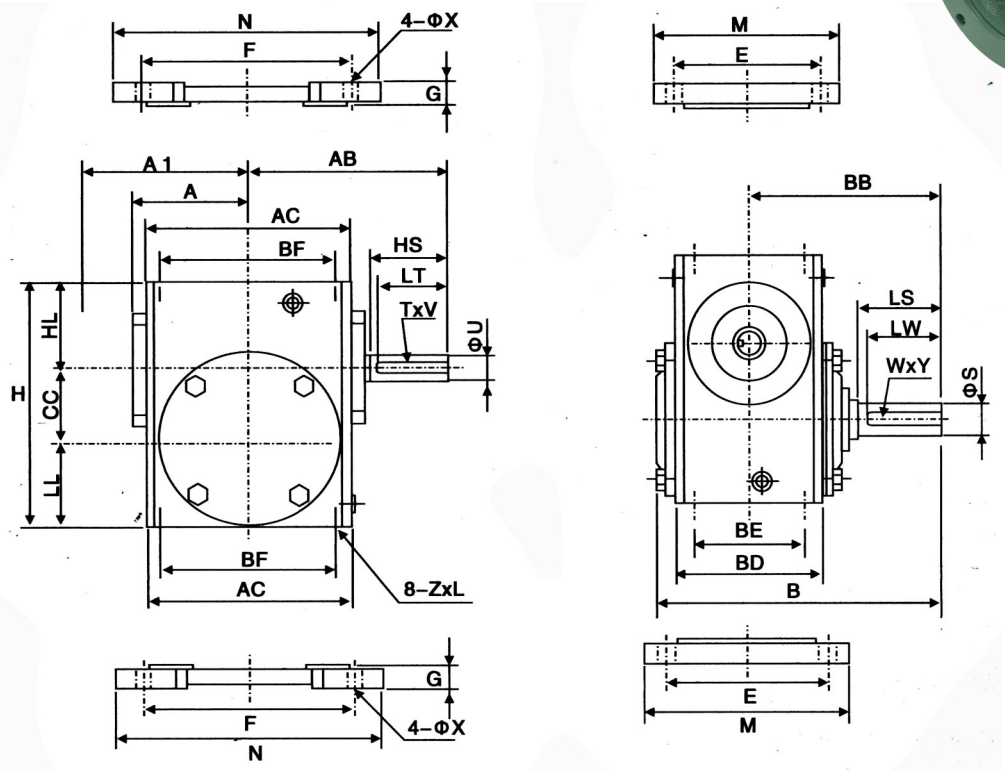
SIZE	A	AC	B	BB	BD	BE	BF	CD	H	HL	LL	Z	L	SOLID OUTPUT SHAFT			
														S	LS	KEYWAY	LW
133	2.12	4.00	6.03	4.00	2.80	2.00	3.25	1.33	4.66	1.60	1.72	5/16-18	0.50	0.625	2.00	3/16 x 3/32	1.311
154	2.75	4.88	6.76	4.31	2.43	2.75	4.19	1.54	5.38	1.93	1.91	5/16-18	0.50	0.750	1.77	3/16 x 3/32	1.25
175	2.76	5.04	6.75	4.31	3.43	2.75	4.19	1.75	5.75	1.94	2.06	5/16-18	0.60	0.875	1.88	3/16 x 3/32	1.378
206	3.00	5.87	7.28	4.69	3.8	2.874	5.00	2.063	6.37	2.03	2.28	3/8-16	0.60	1.000	2.00	1/4 x 1/8	1.75
237	3.50	6.65	7.88	5.079	4.09	2.88	5.00	2.375	6.94	2.07	2.50	3/8-16	0.60	1.125	2.37	1/4 x 1/8	2.00
262	3.69	7.17	8.76	5.63	4.45	3.38	6.38	2.625	8.00	2.44	2.94	3/8-16	0.60	1.125	2.50	1/4 x 1/8	2.00
300	4.50	8.12	10.25	6.75	5.25	4.00	7.00	3.00	8.88	2.63	3.25	7/16-14	0.79	1.250	3.25	1/4 x 1/8	2.25
325	4.50	8.90	10.87	7.06	5.39	4.00	7.50	3.25	9.37	2.63	3.50	7/16-14	0.79	1.375	3.244	5/16 x 5/32	2.874

QUILL / FLANGE INPUT DIMENSIONS*

SIZE	FRAME	AB	LA	LB	LC	LE	LZ	INPUT	
								BORE	KEYWAY
133	56C	3.94	5.875	4.50	6.54	0.20	0.41	0.625	3/16 x 3/32
154	56C	4.50	5.875	4.50	6.50	0.20	0.41	0.625	3/16 x 3/32
175	56C	4.15	5.875	4.50	6.60	0.18	0.41	0.625	3/16 x 3/32
	140TC							0.875	
206	56C	4.51	5.875	4.50	6.60	0.18	0.41	0.625	3/16 x 3/32
	140TC							0.875	
237	56C	5.00	5.875	4.50	6.5	0.20	0.41	0.625	3/16 x 3/32
	140TC							0.875	
	180TC		7.25	8.50	9.02	0.28	0.55	1.125	1/4 x 1/8
262	56C	5.70	5.875	4.50	6.50	0.20	0.41	0.625	3/16 x 3/32
	140TC							0.875	
	180TC		7.25	8.50	9.00	0.28	0.55	1.125	1/4 x 1/8
300	56C	6.54	5.875	4.50	6.50	0.20	0.41	0.625	3/16 x 3/32
	140TC							0.875	
	180TC		7.25	8.50	9.02	0.28	0.55	1.125	1/4 x 1/8
	210TC							1.375	5/16 x 5/32
325	56C	6.57	5.875	4.50	6.50	0.20	0.41	0.625	3/16 x 3/32
	140TC							0.875	
	180TC	7.36	7.25	8.50	9.02	0.28	0.55	1.125	1/4 x 1/8
	210TC							1.375	5/16 x 5/32

RIGHT ANGLE GEAR REDUCERS
"QUICK REFERENCE" DIMENSIONS





GENERAL DIMENSIONS (for 'B' and 'BQ' Style Reducers)*

SIZE	A	AC	B	BB	BD	BE	BF	CD	H	HL	LL	Z	L	SOLID OUTPUT SHAFT			
														S	LS	YxW	LW
133	2.12	4.00	6.03	4.00	2.80	2.00	3.25	1.33	4.66	1.60	1.72	5/16-18	0.50	0.625	2.00	3/16 x 3/32	1.311
154	2.75	4.88	6.76	4.31	2.43	2.75	4.19	1.54	5.38	1.93	1.91	5/16-18	0.50	0.750	1.77	3/16 x 3/32	1.25
175	2.76	5.04	6.75	4.31	3.43	2.75	4.19	1.75	5.75	1.94	2.06	5/16-18	0.60	0.875	1.88	3/16 x 3/32	1.378
206	3.00	5.87	7.28	4.69	3.8	2.874	5.00	2.063	6.37	2.03	2.28	3/8-16	0.60	1.000	2.00	1/4 x 1/8	1.75
237	3.50	6.65	7.88	5.079	4.09	2.88	5.00	2.375	6.94	2.07	2.50	3/8-16	0.60	1.125	2.37	1/4 x 1/8	2.00
262	3.69	7.17	8.76	5.63	4.45	3.38	6.38	2.625	8.00	2.44	2.94	3/8-16	0.60	1.125	2.50	1/4 x 1/8	2.00
300	4.50	8.12	10.25	6.75	5.25	4.00	7.00	3.00	8.88	2.63	3.25	7/16-14	0.79	1.250	3.25	1/4 x 1/8	2.25
325	4.50	8.90	10.87	7.06	5.39	4.00	7.50	3.25	9.37	2.63	3.50	7/16-14	0.79	1.375	3.244	5/16 x 5/32	2.874

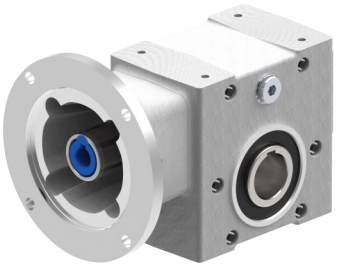
SOLID INPUT DIMENSIONS*

SIZE	AB	INPUT SHAFT			
		U	HS	T x V	LT
133	4.03	0.500	1.81	1/8 x 1/16	1.38
154	4.69	0.625	1.69	3/16 x 3/32	0.94
175	4.69	0.625	1.81	3/16 x 3/32	1.50
206	5.06	0.625	1.81	3/16 x 3/32	1.50
237	5.44	0.750	1.94	3/16 x 3/32	1.31
262	6.23	0.750	2.31	3/16 x 3/32	1.88
300	7.00	0.875	2.26	3/16 x 3/32	1.31
325	7.06	0.875	2.31	3/16 x 3/32	1.65

HORIZONTAL BASE DIMENSIONS*

SIZE	E	F	M	N	G	X
133	3.31	4.38	4.32	5.38	0.53	0.34
154	4.31	5.25	5.44	6.44	0.59	0.41
175	4.50	5.75	5.56	7.00	0.69	0.41
206	4.69	6.38	6.02	7.69	0.72	0.47
237	4.88	7.06	6.19	8.50	0.75	0.49
262	5.25	8.00	6.50	9.25	0.75	0.53
300	5.88	8.44	7.36	10.16	0.75	0.53
325	6.13	9.50	7.74	11.12	0.88	0.53

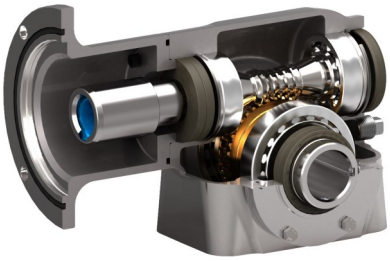
CONE DRIVE SERIES B RIGHT ANGLE REDUCERS



HOLLOW SHAFT MOTORIZED

Cone Drive BY TIMKEN

DOUBLE ENVELOPING WORM GEAR



SERIES "F"STAINLESS

FEATURES: Highly flexible and compact to meet low to medium power range up to 20HP and maximum output torque capacity of 7,500 in/lb.

- **Conex**™ helicoidal gear geometry (see below) provides high capacity and high efficiency
- Dimensionally interchangeable with other major manufacturers
- Series B catalogue contains handy interchange tables with Boston, Grove, Ohio, Baldor, Leeson, Dodge/Tigear and others: https://www.conetools.com/Interchange
- Nine industry standard centre distances and 10 ratios from 5:1 through 60:1 (single reduction) Available with NEMA flanged or standard (no flange) input shaft, hollow, single or double output shaft, horizontal, vertical high or low base, torque arm, output bracket
- Motor-ready units are close coupled with Cone Drive's "Engineered Motor Connection System" - eliminates fretting corrosion which allows motors to be easily removed for less down time and maintenance
- Lubricated for life with high quality synthetic lubricant
- Non-vented and sealed against the environment - offers protection against the ingress of contaminants in the field and eliminates leak path
- Units can be mounted in all positions
- Handy configurator tool at: www.conetools.com
- Double reduction reducers available
- Final assembly from in-stock kits in Canada
- Stainless Steel designs also available (factory order)

CONE DRIVE CENTRE DISTANCE CROSSOVER									
CASE SIZE	B02	B03	B04	B05	B06	B08	B09	B10	B11
CD (Inches)	1.33	1.54	1.75	1.97	2.38	2.62	3.00	3.25	3.54

CONE DRIVE MODEL NUMBER EXAMPLE														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
B	0	5	1	1	1	5	.	W	A	N	T	A	-	-

SERIES B

UNIT SIZE

NO. OF REDUCTIONS

REVISION VERSION

RATIO

MOUNTING TYPE

STANDARD INPUT OR C FACE

SHAFT OPTIONS

MOTOR ADAPTER

MOUNTING POS.

SPEC. FEATURES

[* See Configurator in Cone Drive Series B catalogue for full explanation of various options]

CONE DRIVE SERIES B RIGHT ANGLE REDUCERS

SERIES B SINGLE REDUCTION SELECTION TABLES - 1750 RPM INPUT

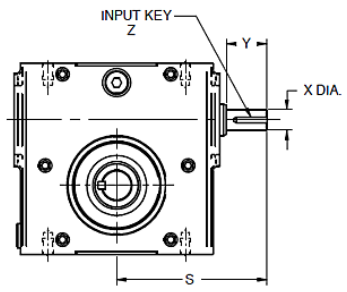
RATIO:1	OUTPUT SPEED RPM	CAPACITY	SIZE OF UNIT								
			B02	B03	B04	B05	B06	B08	B09	B10	B11
5	350	Input Power, HP (mech)	1.76	2.51	3.45	4.62	7.47	9.62	13.6	16.6	20.6
		Input Power, HP (therm)	1.76	2.51	3.45	4.62	7.47	9.62	12.7	16.4	17.6
		Output Torque, lb-in (mech)	275	401	559	757	1240	1610	2280	2800	3500
		Efficiency, %	87	89	90	91	92	93	93	94	94
7.5	233	Input Power, HP (mech)	1.30	1.85	2.54	3.39	5.45	6.97	9.76	11.9	14.7
		Input Power, HP (therm)	1.30	1.85	2.54	3.39	5.45	6.97	9.76	11.9	14.2
		Output Torque, lb-in (mech)	296	433	603	818	1340	1720	2430	2970	3700
		Efficiency, %	84	86	88	89	91	92	92	93	93
10	175	Input Power, HP (mech)	1.05	1.47	1.84	2.63	4.17	4.98	6.99	8.93	11.0
		Input Power, HP (therm)	1.05	1.47	1.84	2.63	4.17	4.98	6.99	8.93	11.0
		Output Torque, lb-in (mech)	308	446	570	830	1340	1620	2290	2950	3660
		Efficiency, %	82	84	86	88	89	90	91	92	92
15	117	Input Power, HP (mech)	0.79	1.11	1.51	2.02	3.26	4.13	5.79	7.18	8.93
		Input Power, HP (therm)	0.79	1.11	1.51	2.02	3.26	4.13	4.79	7.18	8.93
		Output Torque, lb-in (mech)	325	479	674	919	1520	1950	2770	3460	4330
		Efficiency, %	76	80	82	84	87	88	89	89	90
20	88	Input Power, HP (mech)	0.62	0.88	1.20	1.60	2.59	3.34	4.70	5.74	7.15
		Input Power, HP (therm)	0.62	0.88	1.20	1.60	2.59	3.34	4.70	5.74	7.00
		Output Torque, lb-in (mech)	319	476	675	927	1550	2030	2900	3570	4480
		Efficiency, %	71	75	78	80	83	84	86	86	87
25	70	Input Power, HP (mech)	0.56	0.79	1.08	1.44	2.32	2.72	3.81	4.65	5.76
		Input Power, HP (therm)	0.56	0.79	1.08	1.44	2.32	2.72	3.81	4.65	5.71
		Output Torque, lb-in (mech)	340	510	726	1000	1680	1990	2840	3490	4370
		Efficiency, %	67	72	75	77	80	81	83	83	84
30	58	Input Power, HP (mech)	0.49	0.67	0.90	1.20	1.91	2.45	3.43	4.18	5.20
		Input Power, HP (therm)	0.49	0.67	0.90	1.20	1.91	2.45	3.43	4.18	5.20
		Output Torque, lb-in (mech)	332	494	700	961	1610	2100	3010	3700	4640
		Efficiency, %	63	68	72	74	78	79	81	82	83
40	44	Input Power, HP (mech)	0.38	0.51	0.68	0.89	1.41	1.79	2.49	3.03	3.75
		Input Power, HP (therm)	0.38	0.51	0.68	0.89	1.41	1.79	2.49	3.03	3.75
		Output Torque, lb-in (mech)	298	444	630	866	1450	1890	2710	3340	4180
		Efficiency, %	55	60	64	67	72	73	75	76	77
50	35	Input Power, HP (mech)	0.33	0.44	0.58	0.75	1.16	1.46	2.01	2.43	2.99
		Input Power, HP (therm)	0.33	0.44	0.58	0.75	1.16	1.46	2.01	2.43	2.99
		Output Torque, lb-in (mech)	291	434	610	832	1380	1790	2550	3140	3920
		Efficiency, %	49	54	58	62	66	68	70	72	73
60	29	Input Power, HP (mech)	0.29	0.38	0.50	0.64	0.98	1.24	1.70	2.05	2.52
		Input Power, HP (therm)	0.29	0.38	0.50	0.64	0.98	1.24	1.70	2.05	2.52
		Output Torque, lb-in (mech)	272	404	570	782	1300	1700	2430	2990	3740
		Efficiency, %	43	49	53	57	61	64	66	67	69

NOTE: Thermal rating for units driven by fan cooled motor
Ratings assumes units are fitted with standard output shafts

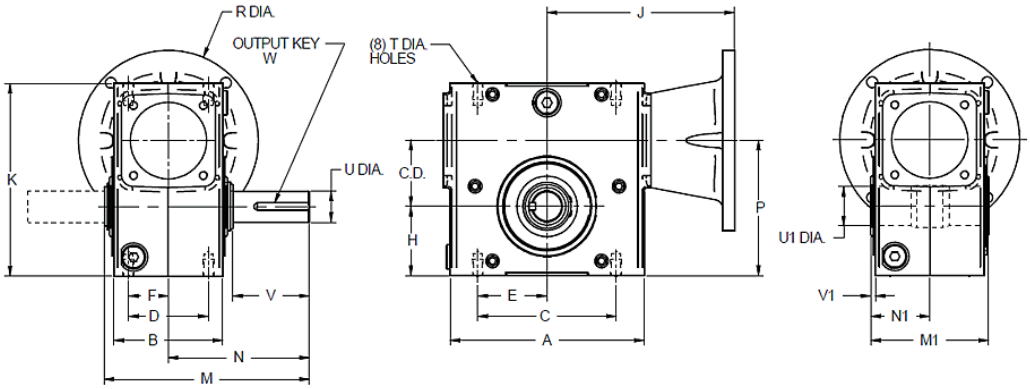
CONE DRIVE SERIES B RIGHT ANGLE REDUCERS

STANDARD UNIT Dimensions

REDUCER



MOTORIZED



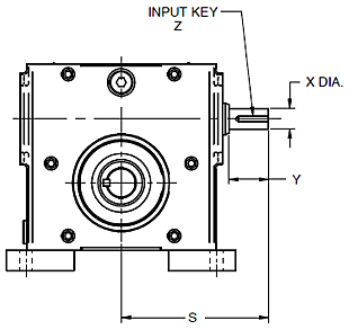
Case Size	C.D.	A	B	C	D	E	F	H	K	M	M1	N	N1	P	T Dia.
B02	1.33	4.33	2.76	3.25	2.00	1.63	1.00	1.72	4.66	6.10	3.85	4.00	1.93	3.05	M8 x 0.47
B03	1.54	5.23	3.94	4.19	2.75	2.10	1.38	1.91	5.35	6.61	4.25	4.31	2.12	3.45	M8 x 0.47
B04	1.75	5.98	3.94	4.19	2.75	2.10	1.38	2.06	5.75	6.65	4.29	4.31	2.15	3.81	M8 x 0.47
B05	1.97	6.00	3.94	5.00	2.88	2.50	1.44	2.28	6.38	7.00	4.21	4.69	2.11	4.25	M10 x 0.59
B06	2.38	7.00	3.94	5.00	2.88	2.50	1.44	2.50	6.93	7.41	4.25	5.09	2.13	4.88	M10 x 0.59
B08	2.62	7.50	5.12	6.38	3.38	3.19	1.69	2.94	7.99	8.58	5.43	5.63	2.72	5.57	M10 x 0.59
B09	3.00	9.00	5.12	7.00	4.00	3.50	2.00	3.25	8.88	9.70	5.43	6.75	2.72	6.25	M12 x 0.71
B10	3.25	9.05	5.67	7.50	4.00	3.75	2.00	3.50	9.38	10.28	5.98	7.06	2.99	6.75	M12 x 0.71
B11	3.54	9.50	5.12	7.50	4.00	3.75	2.00	3.39	9.84	11.34	6.65	7.75	3.33	6.93	M16 x 0.87

		REDUCER					MOTORIZED												
		INPUT SHAFT		Z-KEY			56C/ 143/145TC		182/184TC		213/215TC		OUTPUT SHAFT				W-KEY		
Case Size	C.D.	X Dia.	Y	SQ.	LG	S	J	R Dia.	J	R Dia.	J	R Dia.	U Dia.	U1 Dia.	V	V1	SQ.	LG	WT (LBS)
B02	1.33	0.625	1.31	3/16	1.00	4.22	4.74	6.50	NA	NA	NA	NA	0.750	1.000	1.88	0.12	3/16	1.00	9
B03	1.54	0.750	1.48	3/16	1.13	4.87	5.92	6.50	6.16	9.00	NA	NA	0.750	1.000	1.99	0.12	3/16	1.13	14
B04	1.75	0.750	1.48	3/16	1.13	5.13	6.18	6.50	6.42	9.00	NA	NA	1.000	1.438	1.97	0.08	1/4	1.25	16
B05	1.97	0.750	1.48	3/16	1.13	5.20	6.34	6.50	6.58	9.00	NA	NA	1.125	1.438	2.39	0.08	1/4	1.50	18
B06	2.38	0.750	1.48	3/16	1.13	5.47	6.77	6.50	7.01	9.00	NA	NA	1.125	1.438	2.77	0.08	1/4	1.88	23
B08	2.62	1.188	2.69	1/4	2.25	7.23	7.24	6.50	7.59	9.00	7.59	9.00	1.500	1.938	2.68	0.08	3/8	1.97	40
B09	3.00	1.188	2.69	1/4	2.25	7.63	7.64	6.50	7.98	9.00	7.98	9.00	1.500	2.188	3.80	0.08	3/8	2.00	47
B10	3.25	1.188	2.69	1/4	2.25	7.64	7.72	6.50	8.06	9.00	8.06	9.00	1.500	2.188	3.83	0.08	3/8	2.25	50
B11	3.54	1.188	2.95	1/4	2.62	8.39	8.15	6.50	8.50	9.00	8.50	9.00	1.875	2.938	4.15	0.10	1/2	2.63	70

CONE DRIVE SERIES B RIGHT ANGLE REDUCERS

UNIT WITH HORIZONTAL BASE (Over Driven) Dimensions

REDUCER



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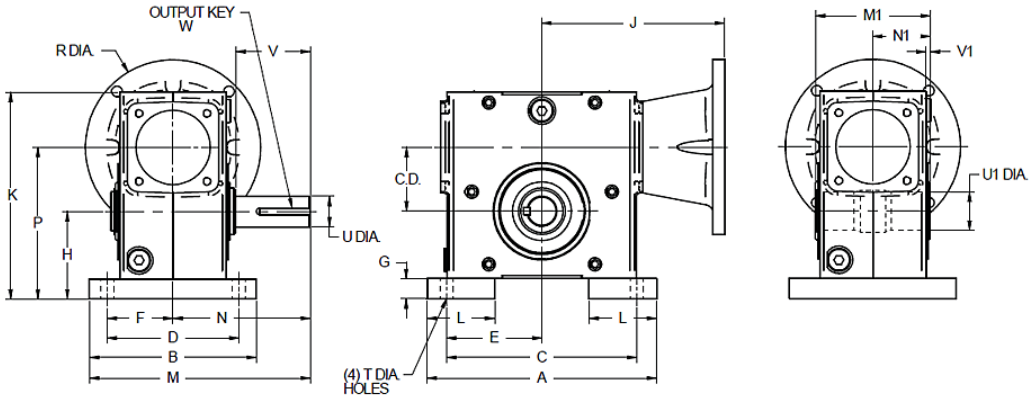
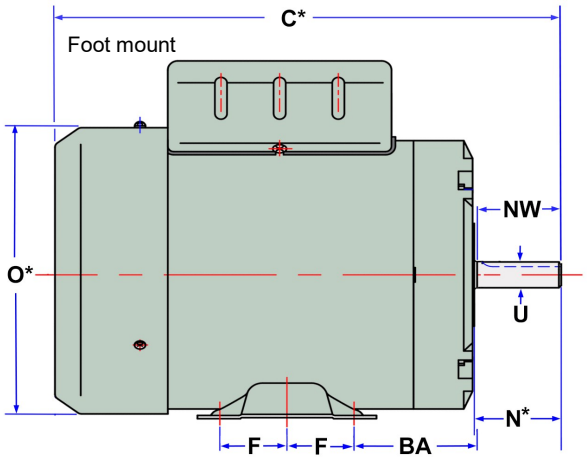
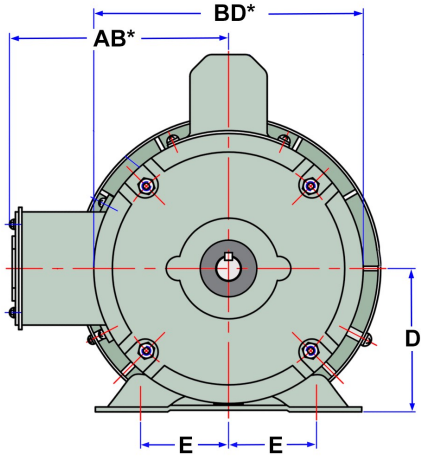


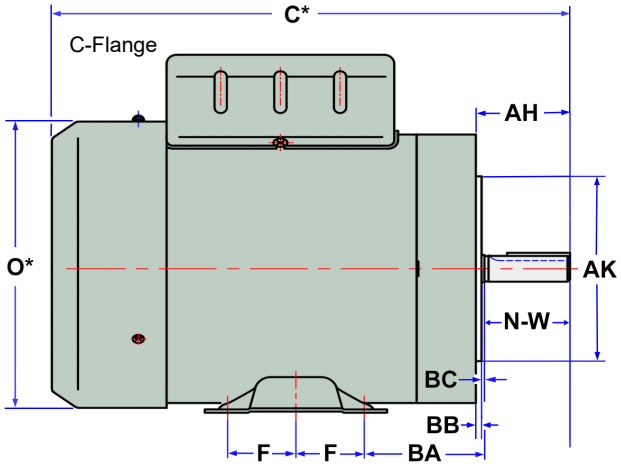
Case Size	C.D.	A	B	C	D	E	F	H	K	L	M	M1	N	N1	P	T Dia.
B02	1.33	5.38	4.19	4.380	3.310	2.190	1.655	2.25	5.19	1.50	6.09	3.85	4.00	1.93	3.58	11/32
B03	1.54	6.44	5.44	5.250	4.312	2.625	2.156	2.50	5.94	1.50	7.03	4.25	4.31	2.12	4.04	13/32
B04	1.75	7.00	5.69	5.750	4.500	2.875	2.250	2.75	6.44	2.00	7.16	4.29	4.31	2.15	4.50	13/32
B05	1.97	7.75	5.94	6.380	4.690	3.190	2.345	3.00	7.10	2.00	7.66	4.21	4.69	2.11	4.97	15/32
B06	2.38	8.50	6.19	7.063	4.875	3.532	2.438	3.25	7.68	2.50	8.19	4.25	5.09	2.13	5.63	15/32
B08	2.62	9.63	6.66	8.000	5.250	4.000	2.625	3.69	8.74	2.50	8.96	5.43	5.63	2.72	6.31	17/32
B09	3.00	10.00	7.50	8.440	5.880	4.220	2.940	4.00	9.63	2.00	10.50	5.43	6.75	2.72	7.00	17/32
B10	3.25	11.19	7.66	9.500	6.125	4.750	3.063	4.38	10.25	2.50	10.89	5.98	7.06	2.99	7.63	17/32
B11	3.54	11.08	7.71	9.500	6.120	4.750	3.060	5.00	11.45	2.50	11.61	6.65	7.75	3.33	8.54	9/16

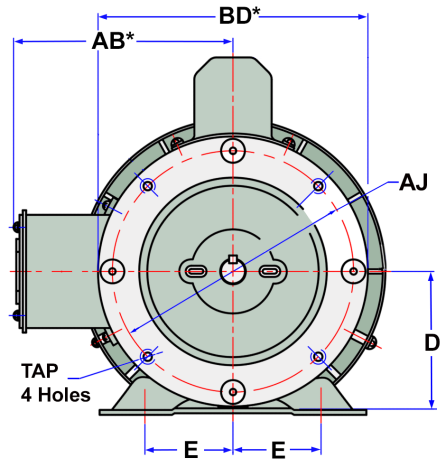
		REDUCER					MOTORIZED												
		INPUT SHAFT		Z-KEY			56C/ 143/145TC		182/184TC		213/215TC		OUTPUT SHAFT				W-KEY		
Case Size	C.D.	X Dia.	Y	SQ.	LG	S	J	R Dia.	J	R Dia.	J	R Dia.	U Dia.	U1 Dia.	V	V1	SQ.	LG	WT (LBS)
B02	1.33	0.625	1.31	3/16	1.00	4.22	4.74	6.50	NA	NA	NA	NA	0.750	1.000	1.88	0.12	3/16	1.00	10
B03	1.54	0.750	1.48	3/16	1.13	4.87	5.92	6.50	6.16	9.00	NA	NA	0.750	1.000	1.99	0.12	3/16	1.13	15
B04	1.75	0.750	1.48	3/16	1.13	5.13	6.18	6.50	6.42	9.00	NA	NA	1.000	1.438	1.97	0.08	1/4	1.25	18
B05	1.97	0.750	1.48	3/16	1.13	5.20	6.34	6.50	6.58	9.00	NA	NA	1.125	1.438	2.39	0.08	1/4	1.50	20
B06	2.38	0.750	1.48	3/16	1.13	5.47	6.77	6.50	7.01	9.00	NA	NA	1.125	1.438	2.77	0.08	1/4	1.88	25
B08	2.62	1.188	2.69	1/4	2.25	7.23	7.24	6.50	7.59	9.00	7.59	9.00	1.500	1.938	2.68	0.08	3/8	1.97	43
B09	3.00	1.188	2.69	1/4	2.25	7.63	7.64	6.50	7.98	9.00	7.98	9.00	1.500	2.188	3.80	0.08	3/8	2.00	50
B10	3.25	1.188	2.69	1/4	2.25	7.64	7.72	6.50	8.06	9.00	8.06	9.00	1.500	2.188	3.83	0.08	3/8	2.25	54
B11	3.54	1.188	2.95	1/4	2.62	8.39	8.15	6.50	8.50	9.00	8.50	9.00	1.875	2.938	4.15	0.10	1/2	2.63	75

NEMA STANDARD MOTOR DIMENSIONS









D = Shaft height measured at the centerline

E = Distance from the centerline to the side mounting holes

F = Distance between the mounting holes

BA = Distance from the center of the nearest mounting hole to the beginning of the usable shaft

U = Shaft diameter

N-W = shaft length

For **AG-I** specific model dimensions, visit our website:
ag-industrie.com

email,
info@agimotortec.com

or directly contact your **AG-I representative.**
(see back page)

* Dimensions marked with * are not specified by NEMA, and vary by manufacturer.

FRAME	D	E	F	BA	U	NW	AH	AJ	AK	BB	KEY	TAP
42	2-5/8	1-3/4	27/32	2-1/16	3/8	1-1/8	1-5/16	3-3/4	3	1/8	3/64 Flat	1/4-20
48	3	2-1/8	1-3/8	2-1/2	1/2	1-1/2	1-11/16	3-3/4	3	1/8	3/64 Flat	1/4-20
56 56H	3-1/2	2-7/16	1-1/2 2.5	2-3/4	5/8	1-7/8	2-1/16	5-7/8	4-1/2	1/8	3/16 square	3/8-16
143T 145T	3-1/2	2-3/4	2 2.5	2-1/4	7/8	2-1/4	2-1/8	5-7/8	4-1/2	1/8	3/16 square	3/8-16
182T 184T	4-1/2	3-3/4	2-1/4 2-3/4	2-3/4	1-1/8 1-1/8	2-3/4 2-3/4	2-5/8 2-5/8	7-1/4	8-1/2	1/4 1/4	5/16 square	1/2-13 1/2-13
213T 215T	5-1/4	4-1/4	2-3/4 3-1/2	3-1/2	1-3/8 1-3/8	3-3/8 3-3/8	3-1/8 3-1/8	7-1/4	8-1/2	1/4	5/16 square	1/2-13
254T 256T	6-1/4	5	4-1/8 5	4-1/4	1-5/8 1-5/8	4.0 4,0	3-3/4 3-3/4	7-1/4	8-1/2	1/4	3/8 square	1/2-13
284T 286T	7	5-1/2	4-3/4 5-1/2	4-3/4	1-7/8 1-7/8	4-5/8 4-5/8	4-3/8 4-3/8	9.0	10-1/2	1/4	1/2 square	1/2-13

AG-I MotorTec Inc.

RETURN POLICY

Any return of product is subject to prior approval from AG-I MotorTec Inc. ("AG-I") and must be returned freight prepaid, in resalable condition, in original packaging. The return goods authorization (RGA) number should accompany the return. The goods must be returned within 30 days of authorization, or may be declined.

Restocking charge is 15% but the charge may be higher by previous agreement with AG-I, and/or depending on the condition of the product and packaging on arrival.

WARRANTY STATEMENT

AG-I MotorTec Inc. ("AG-I") warrants all motors supplied by it to be free from defects in materials and workmanship when operated under normal conditions, and within the motor's name-plated limits.
Warranty period is twelve months from date of installation, but no longer than twenty four months from date of manufacture, without written authorization from AG-I. This warranty is in lieu of any other warranty, written or implied, including any implied warranty of salability or fitness for a particular purpose.
AG-I Motortec Inc., at its option, will replace or repair any motor which has been found to be defective within the warranty period, provided that the motor is delivered, with prior approval, freight prepaid, to an authorized AG-I service centre for inspection. Return shipments are F.O.B. service center.
AG-I MotorTec Inc. is not responsible for removal, installation, or any other expenses incurred in transporting the motor to or from the authorized service centre. Liability under this warranty is limited to repair or replacement of the motor within the warranty period. AG-I shall not be liable for consequent or collateral damage, including but not limited to, personal injury, labour, or material costs. AG-I MotorTec Inc. will not be responsible for expenses incurred on repairs or claims made by anyone other than an authorized AG-I service center, unless such repairs have been previously authorized in writing.

GENERAL INSTALLATION & OPERATING INSTRUCTIONS

Prior to Operation – Before making electrical power connections, check for proper grounding of the motor and application. All electrical contacts and connections must be properly insulated and enclosed. Couplings, belts, chains or other mounted devices must be in proper alignment, balanced and secure to insure safe motor operation.
Electrical Wiring – Prior to connecting to the power line, check nameplate for proper voltage and rotation connection. This motor should be installed in compliance with the National Electrical Code and any other applicable codes. Voltage at motor should not exceed + or -10% of nameplate voltage. Qualified persons should make all electrical connections.
Lubrication – This motor is supplied with lubricated-for-life ball bearings. Do not lubricate.
Mounting & Ventilation – This motor should be securely mounted to the application, and with sufficient ventilation area to insure proper operation.
Service – If failure occurs, have qualified personnel first check for proper electrical connections, fusing, or jamming of mechanical equipment. If unable to correct the problem, contact the motor supplier or representative with details including complete information from the motor nameplate.

Warehouse / Office:
16 Tideman Drive, Unit 7
Orangeville, ON
L9W 4N6
PH. 519-941-6832
FAX 519-941-6834

Corporate Office:
203214 County Rd.109
East Garafraxa, ON
L9W 7L8
PH. 519-941-6832
FAX 519-941-6834

Contact us

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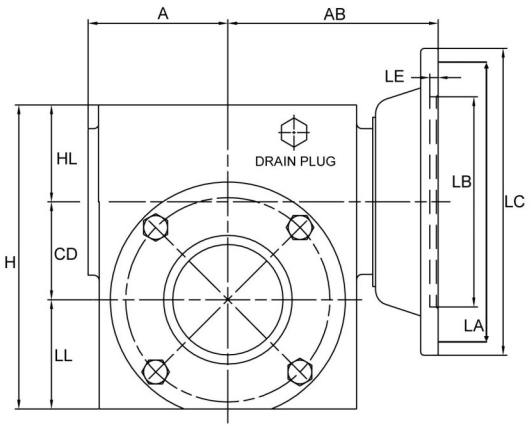
Hugues Belanger
Cell 438-395-1541

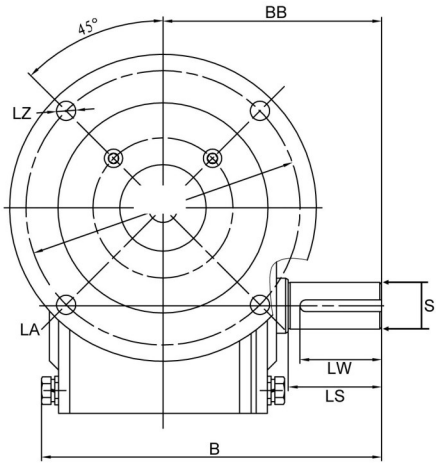
General Manager
Dave Mayle
Cell 519-943-2204

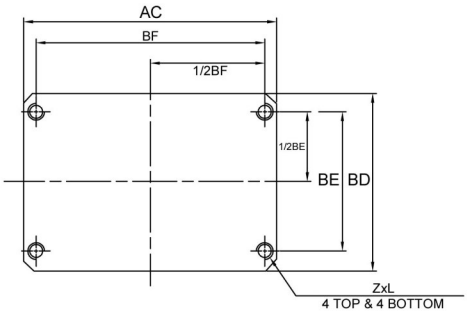
Website
ag-industrie.com

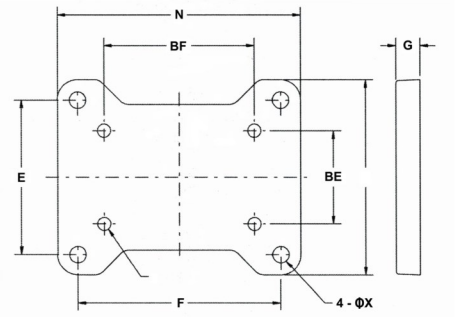
RIGHT ANGLE GEAR REDUCERS

"QUICK REFERENCE" DIMENSIONS









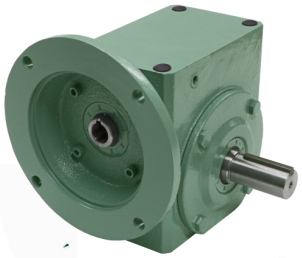
GENERAL DIMENSIONS - 'BQ' Style Reducers*

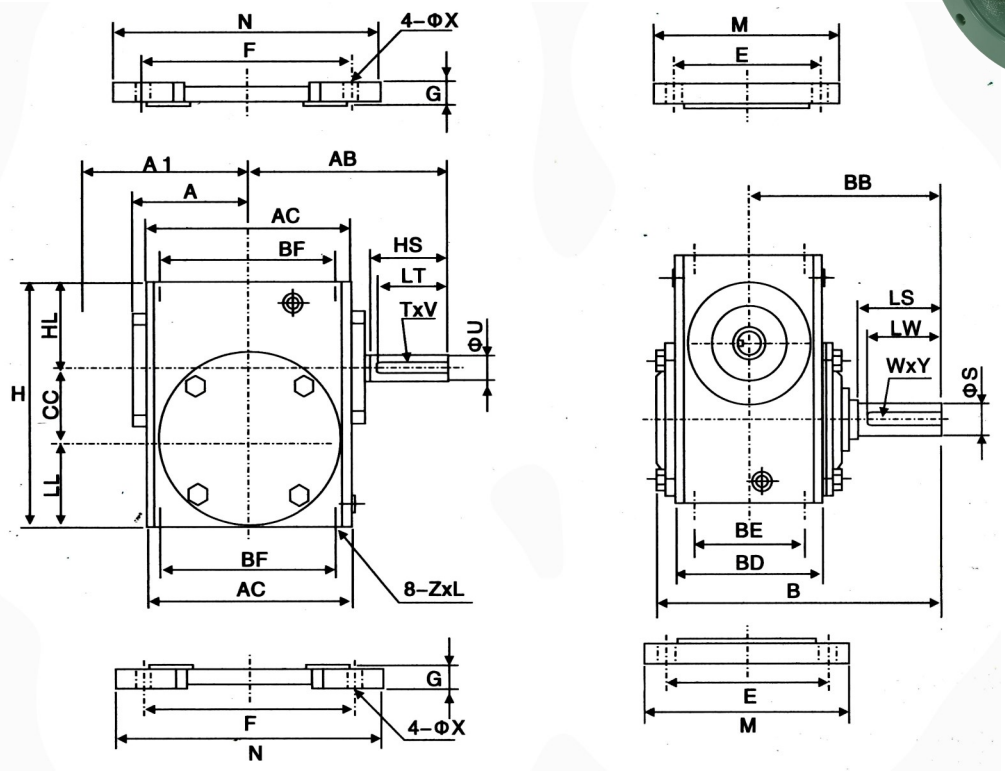
SIZE	A	AC	B	BB	BD	BE	BF	CD	H	HL	LL	Z	L	SOLID OUTPUT SHAFT			
														S	LS	KEYWAY	LW
133	2.12	4.00	6.03	4.00	2.80	2.00	3.25	1.33	4.66	1.60	1.72	5/16-18	0.50	0.625	2.00	3/16 x 3/32	1.311
154	2.75	4.88	6.76	4.31	2.43	2.75	4.19	1.54	5.38	1.93	1.91	5/16-18	0.50	0.750	1.77	3/16 x 3/32	1.25
175	2.76	5.04	6.75	4.31	3.43	2.75	4.19	1.75	5.75	1.94	2.06	5/16-18	0.60	0.875	1.88	3/16 x 3/32	1.378
206	3.00	5.87	7.28	4.69	3.8	2.874	5.00	2.063	6.37	2.03	2.28	3/8-16	0.60	1.000	2.00	1/4 x 1/8	1.75
237	3.50	6.65	7.88	5.079	4.09	2.88	5.00	2.375	6.94	2.07	2.50	3/8-16	0.60	1.125	2.37	1/4 x 1/8	2.00
262	3.69	7.17	8.76	5.63	4.45	3.38	6.38	2.625	8.00	2.44	2.94	3/8-16	0.60	1.125	2.50	1/4 x 1/8	2.00
300	4.50	8.12	10.25	6.75	5.25	4.00	7.00	3.00	8.88	2.63	3.25	7/16-14	0.79	1.250	3.25	1/4 x 1/8	2.25
325	4.50	8.90	10.87	7.06	5.39	4.00	7.50	3.25	9.37	2.63	3.50	7/16-14	0.79	1.375	3.244	5/16 x 5/32	2.874

QUILL / FLANGE INPUT DIMENSIONS*

SIZE	FRAME	AB	LA	LB	LC	LE	LZ	INPUT	
								BORE	KEYWAY
133	56C	3.94	5.875	4.50	6.54	0.20	0.41	0.625	3/16 x 3/32
154	56C	4.50	5.875	4.50	6.50	0.20	0.41	0.625	3/16 x 3/32
175	56C	4.15	5.875	4.50	6.60	0.18	0.41	0.625	3/16 x 3/32
	140TC							0.875	
206	56C	4.51	5.875	4.50	6.60	0.18	0.41	0.625	3/16 x 3/32
	140TC							0.875	
237	56C	5.00	5.875	4.50	6.5	0.20	0.41	0.625	3/16 x 3/32
	140TC							0.875	
	180TC		7.25	8.50	9.02	0.28	0.55	1.125	1/4 x 1/8
262	56C	5.70	5.875	4.50	6.50	0.20	0.41	0.625	3/16 x 3/32
	140TC							0.875	
	180TC		7.25	8.50	9.00	0.28	0.55	1.125	1/4 x 1/8
300	56C	6.54	5.875	4.50	6.50	0.20	0.41	0.625	3/16 x 3/32
	140TC							0.875	
	180TC		7.25	8.50	9.02	0.28	0.55	1.125	1/4 x 1/8
	210TC							1.375	5/16 x 5/32
325	56C	6.57	5.875	4.50	6.50	0.20	0.41	0.625	3/16 x 3/32
	140TC							0.875	
	180TC	7.36	7.25	8.50	9.02	0.28	0.55	1.125	1/4 x 1/8
	210TC							1.375	5/16 x 5/32

RIGHT ANGLE GEAR REDUCERS
"QUICK REFERENCE" DIMENSIONS





GENERAL DIMENSIONS (for 'B' and 'BQ' Style Reducers)*

SIZE	A	AC	B	BB	BD	BE	BF	CD	H	HL	LL	Z	L	SOLID OUTPUT SHAFT			
														S	LS	YxW	LW
133	2.12	4.00	6.03	4.00	2.80	2.00	3.25	1.33	4.66	1.60	1.72	5/16-18	0.50	0.625	2.00	3/16 x 3/32	1.311
154	2.75	4.88	6.76	4.31	2.43	2.75	4.19	1.54	5.38	1.93	1.91	5/16-18	0.50	0.750	1.77	3/16 x 3/32	1.25
175	2.76	5.04	6.75	4.31	3.43	2.75	4.19	1.75	5.75	1.94	2.06	5/16-18	0.60	0.875	1.88	3/16 x 3/32	1.378
206	3.00	5.87	7.28	4.69	3.8	2.874	5.00	2.063	6.37	2.03	2.28	3/8-16	0.60	1.000	2.00	1/4 x 1/8	1.75
237	3.50	6.65	7.88	5.079	4.09	2.88	5.00	2.375	6.94	2.07	2.50	3/8-16	0.60	1.125	2.37	1/4 x 1/8	2.00
262	3.69	7.17	8.76	5.63	4.45	3.38	6.38	2.625	8.00	2.44	2.94	3/8-16	0.60	1.125	2.50	1/4 x 1/8	2.00
300	4.50	8.12	10.25	6.75	5.25	4.00	7.00	3.00	8.88	2.63	3.25	7/16-14	0.79	1.250	3.25	1/4 x 1/8	2.25
325	4.50	8.90	10.87	7.06	5.39	4.00	7.50	3.25	9.37	2.63	3.50	7/16-14	0.79	1.375	3.244	5/16 x 5/32	2.874

SOLID INPUT DIMENSIONS*

SIZE	AB	INPUT SHAFT			
		U	HS	T x V	LT
133	4.03	0.500	1.81	1/8 x 1/16	1.38
154	4.69	0.625	1.69	3/16 x 3/32	0.94
175	4.69	0.625	1.81	3/16 x 3/32	1.50
206	5.06	0.625	1.81	3/16 x 3/32	1.50
237	5.44	0.750	1.94	3/16 x 3/32	1.31
262	6.23	0.750	2.31	3/16 x 3/32	1.88
300	7.00	0.875	2.26	3/16 x 3/32	1.31
325	7.06	0.875	2.31	3/16 x 3/32	1.65

HORIZONTAL BASE DIMENSIONS*

SIZE	E	F	M	N	G	X
133	3.31	4.38	4.32	5.38	0.53	0.34
154	4.31	5.25	5.44	6.44	0.59	0.41
175	4.50	5.75	5.56	7.00	0.69	0.41
206	4.69	6.38	6.02	7.69	0.72	0.47
237	4.88	7.06	6.19	8.50	0.75	0.49
262	5.25	8.00	6.50	9.25	0.75	0.53
300	5.88	8.44	7.36	10.16	0.75	0.53
325	6.13	9.50	7.74	11.12	0.88	0.53