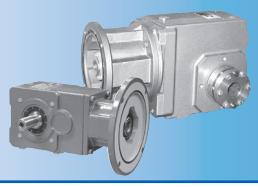
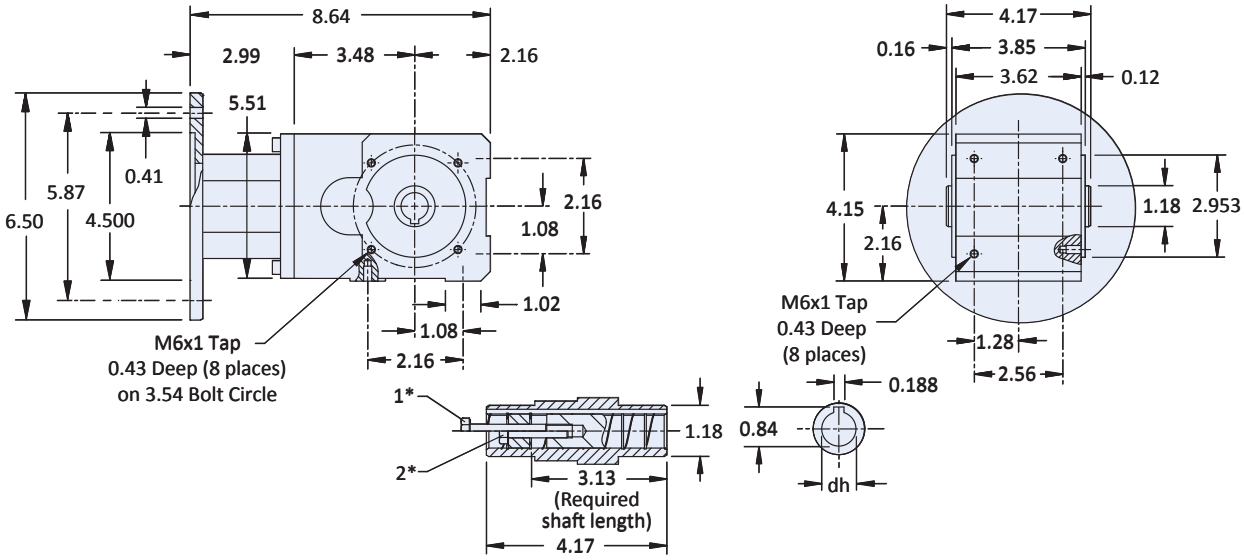


Dimensional Data

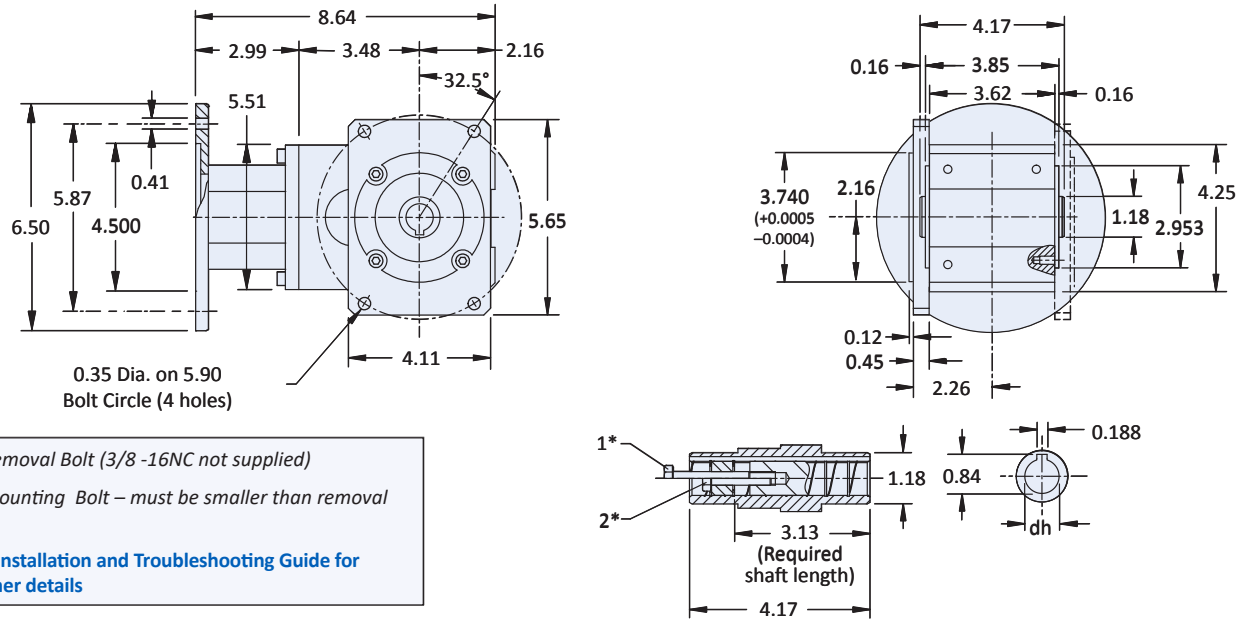
KL Series with "A" Hollow Output

"G" Pilot Circle Diameter (PCD) Tapped Holes



KL Series with "A" Hollow Output

"F" Output Flange Housing



* *1. Removal Bolt (3/8 -16NC not supplied)*

2. Mounting Bolt – must be smaller than removal bolt

See Installation and Troubleshooting Guide for further details

"A"Hollow Bore Output Options

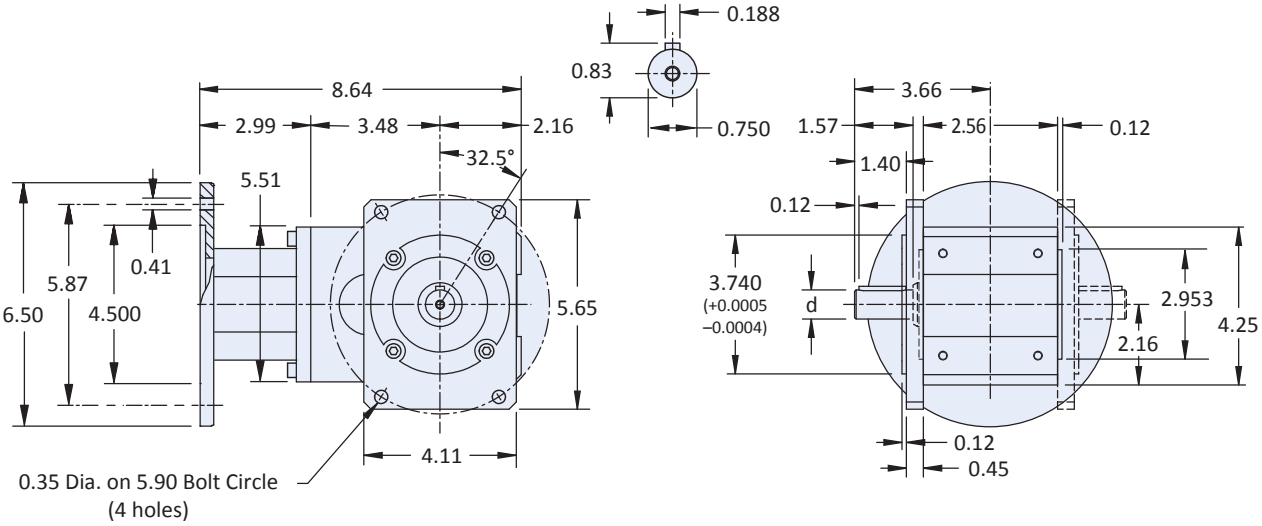
BLUE designates standard hollow output diameters. Black designates optional diameters readily available from inventory.

	Carbon Steel		Stainless Steel*	
	Inches	Metric	Inches	Metric
Dimension "dh"	3/4	**20**	**3/4**	20

** Stainless steel is ideal for food and beverage or harsh washdown environments.*

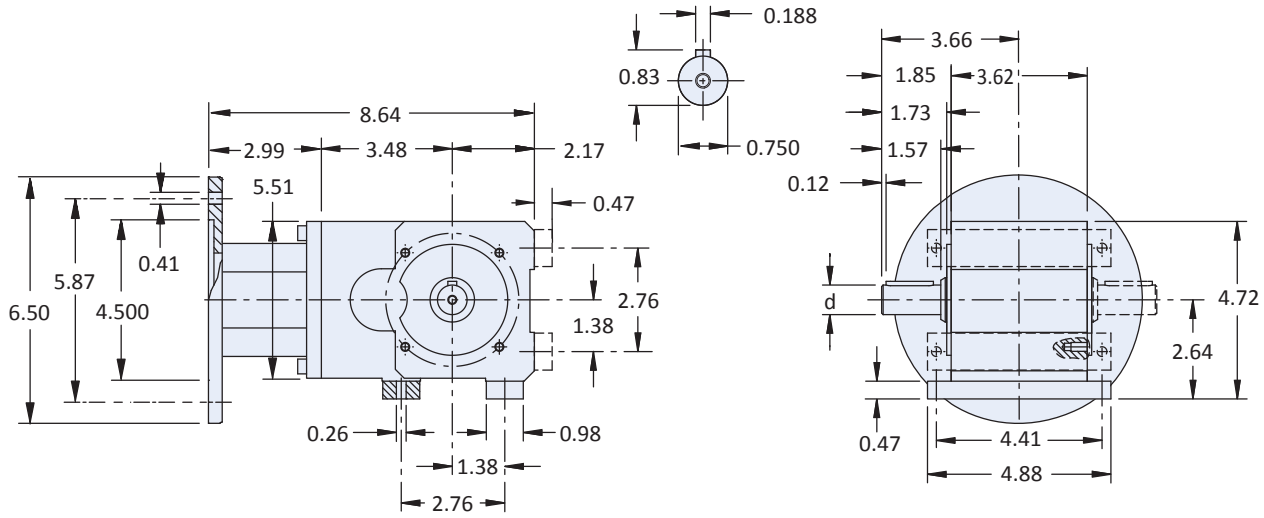
KL Series with "P" Solid Shaft Output

"F" Output Flange Housing



KL Series with "P" Solid Shaft Output

"NG" Foot Mounting Housing



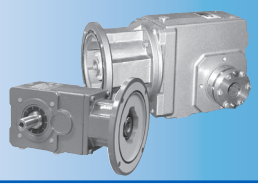
"P" Solid Shaft Output Options

BLUE designates standard shaft diameters. Black designates optional diameters readily available from inventory.

	Carbon Steel		Stainless Steel*	
	Inches	Metric	Inches	Metric
Dimension "d"	**3/4**	20	**3/4**	20

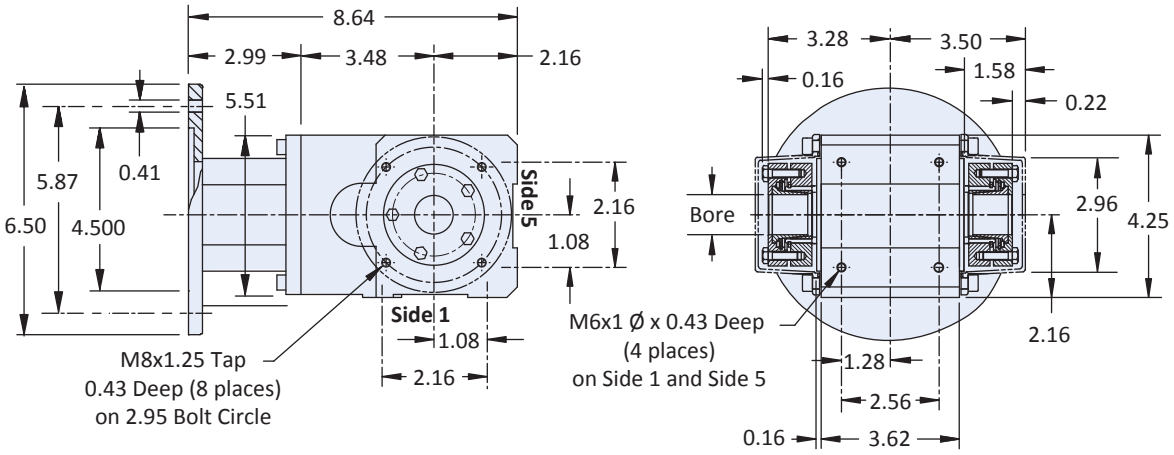
** Stainless steel is ideal for food and beverage or harsh washdown environments.*

Dimensional Data



KL Series (KL202 only) with "W" Wobble Free Bushing Output

"G" Pilot Circle Diameter (PCD) Tapped Holes



Important: *A 1/32" x 45° chamfer minimum is recommended for the shaft end. The bushing will accept a shaft with a tolerance of +0.000/-0.005 inches.*

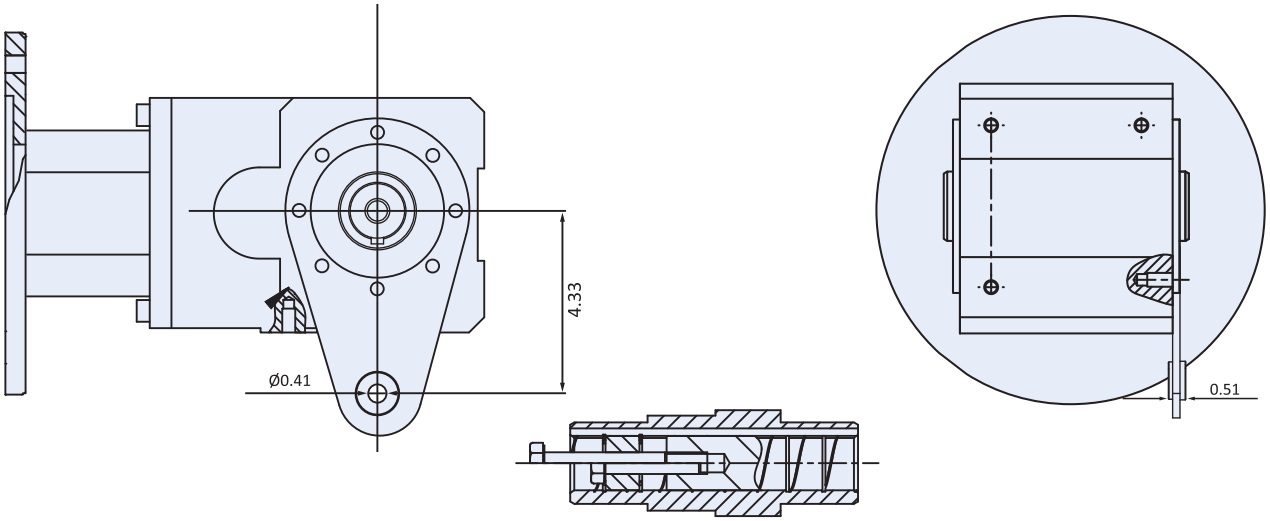
"WFB" Wobble Free Double Bushing Output

BLUE designates standard bore diameter.

	Carbon Steel		Stainless Steel*	
	Inches	Metric	Inches	Metric
Bore	—	—	3/4	—
Part Number	—	—	WFBKL2-012	—

** Stainless steel is ideal for food and beverage or harsh washdown environments.*

"A" Hollow Bore Output with "GD" Torque Arm Bracket

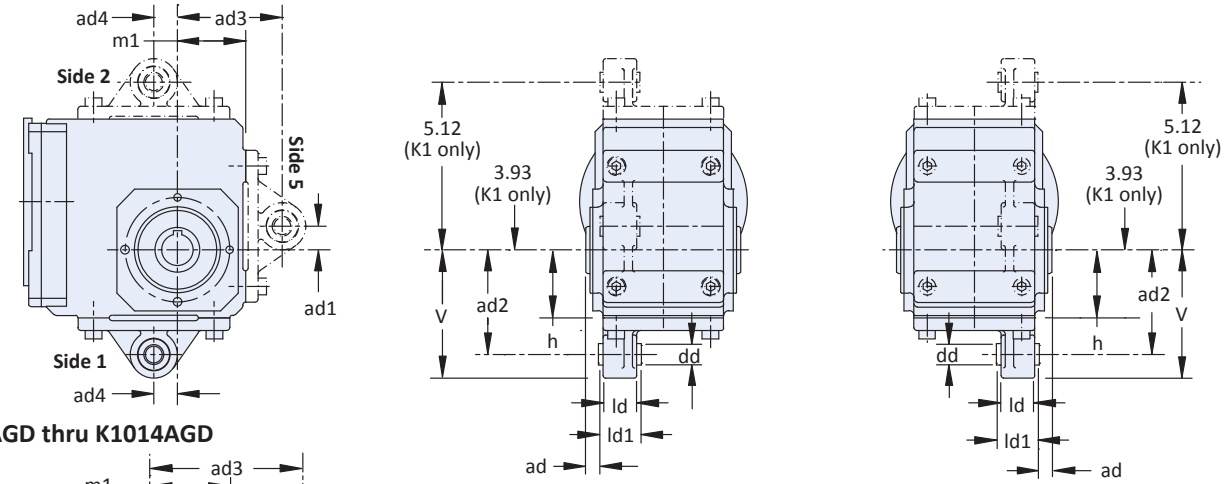


K Series with "A" Hollow Output

"GD" Torque Arm Bracket Housing (Torque arm supplied by others)

K102AGD thru K403AGD

Important:
On K102 thru K1014, brackets can be mounted on Side 1 (shown) or Side 5 (opposite input side).
On K102 ONLY, the bracket can also be mounted on Side 2 (top).



K513AGD thru K1014AGD

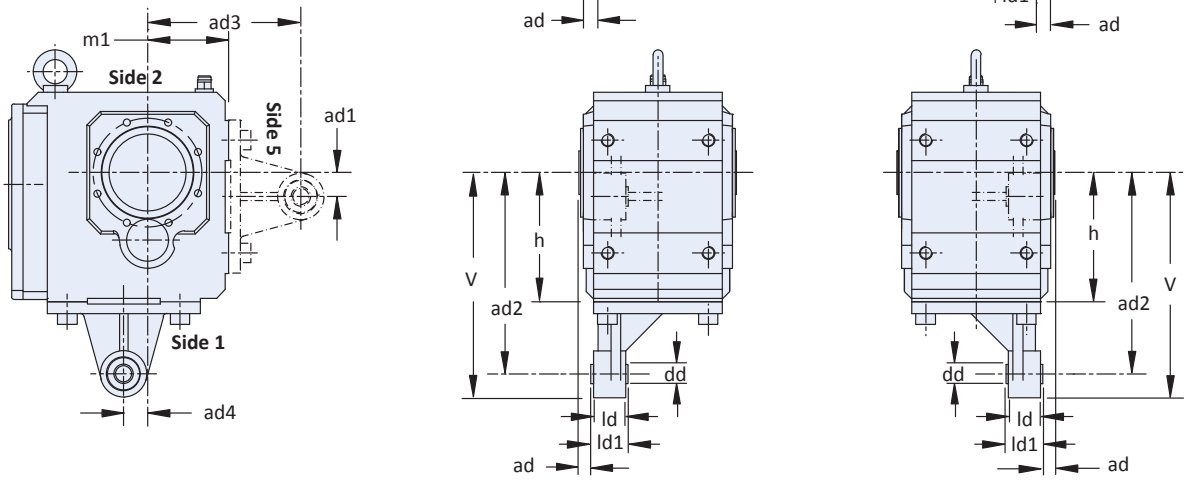
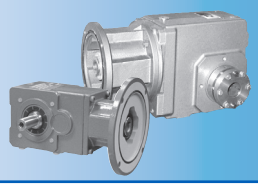


Table 1 "K" Series Dimensions (Inches) — "GD" Torque Arm Bracket

Base Module	ad	ad1	ad2	ad3	ad4	dd	H9	h	ld	ld1	m1	V
K1	0.51	0.59	3.54	3.54	0.59	0.47	+0.017/-0.000	2.36	0.94	1.10	2.36	4.39
K2	0.53	0.89	3.93	3.93	0.89	0.63	+0.017/-0.000	2.56	1.26	1.50	2.56	4.82
K3	0.47	0.98	4.72	4.72	0.98	0.63	+0.017/-0.000	2.95	1.26	1.50	2.95	5.61
K4	0.67	1.08	5.91	5.91	1.08	0.79	+0.020/-0.000	3.54	1.57	1.81	3.54	7.00
K5	0.67	1.18	9.84	7.48	1.18	0.79	+0.020/-0.000	6.30	1.57	1.81	3.93	10.98
K6	0.81	1.18	9.84	7.09	1.18	0.79	+0.020/-0.000	7.48	1.57	1.81	4.72	10.98
K7	0.91	1.38	11.81	8.39	1.38	0.79	+0.020/-0.000	8.35	2.52	2.76	4.92	13.15
K8	1.02	1.77	13.78	9.06	1.77	0.94	+0.020/-0.000	10.43	4.02	4.53	5.71	15.20
K9	1.02	1.77	17.72	12.40	1.77	0.94	+0.020/-0.000	12.40	4.02	4.53	7.09	19.20
K10	0.24	2.17	21.65	15.75	2.36	1.57	+0.024/-0.000	14.76	4.65	4.88	8.86	24.01



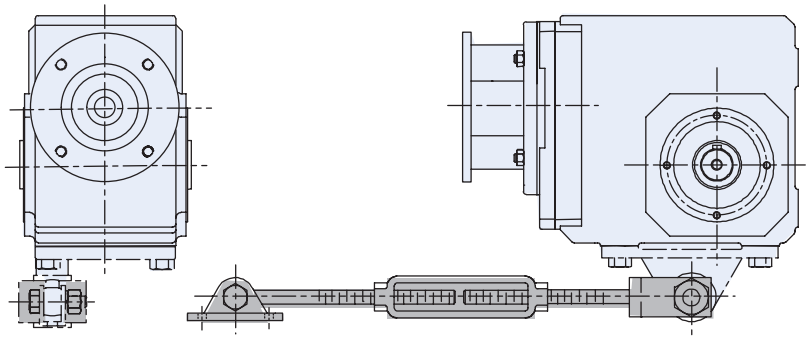
Torque Arm Mounting Methods

(STOBER can supply the torque arm bracket. The user has to supply the torque arm for Example 1 and 2)

The following mounting methods are recommended for stabilizing the reducer without compromising reducer life.

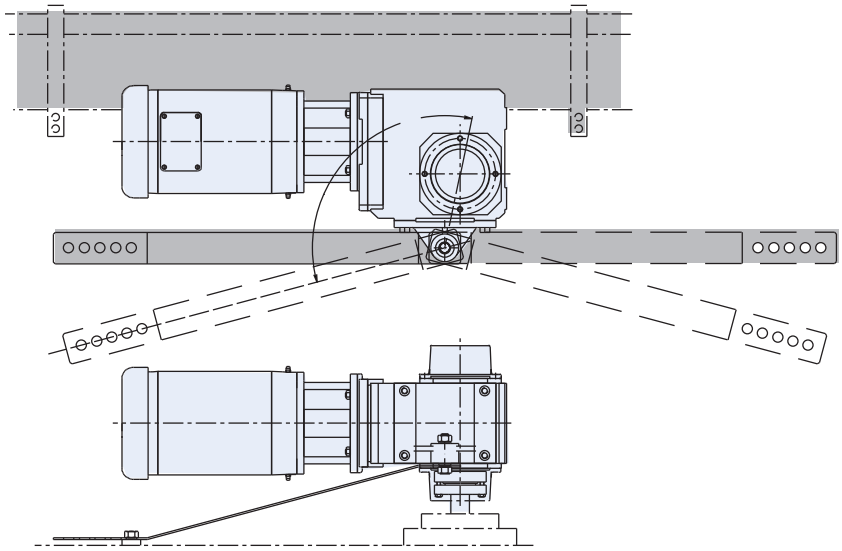
Example 1: Torque Arm Bracket with Turnbuckle Torque Arm

This method uses a turnbuckle assembly that pivots from the torque arm bracket to mount to an acceptable location.



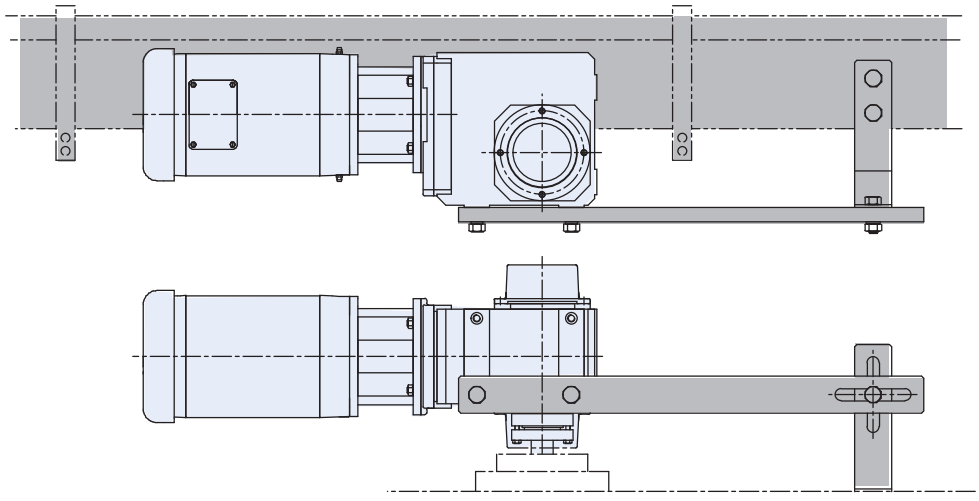
Example 2: Torque Arm Bracket with Fabricated Steel Torque Arm

The torque arm bracket can be ordered with the right angle reducer and the torque arm fabricated from thin steel by the customer to mount in an acceptable location.



Example 3: Fabricated Torque Arm

Using the mounting holes in the reducer housing, a torque arm can be fabricated to mount directly to the machinery. Notice that the fabrication must be 2 pieces with a slot in each piece to allow the connecting bolt to move in all directions.

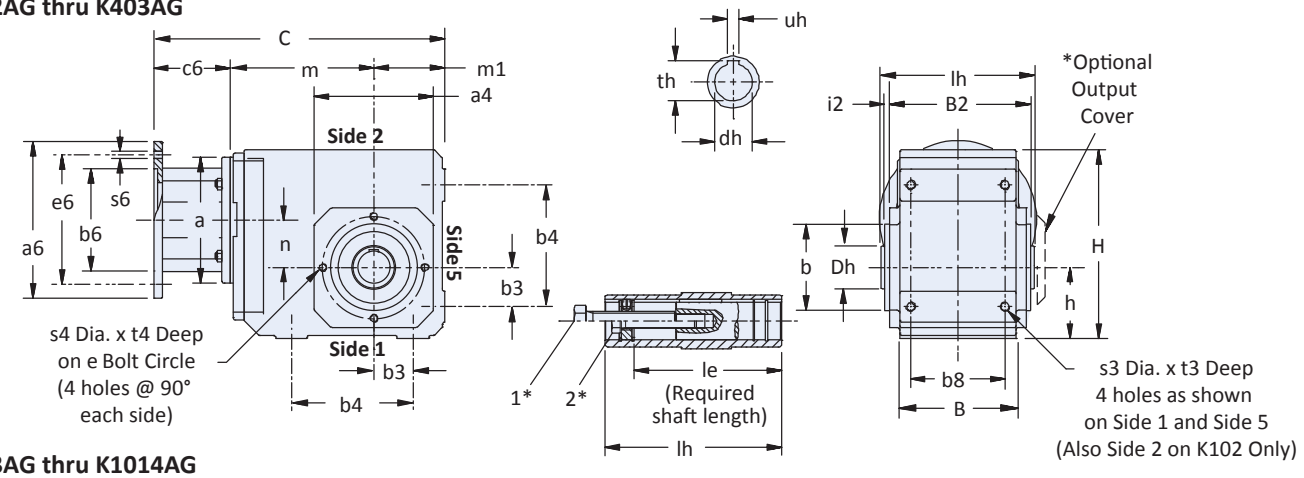


K Series with "A" Hollow Output

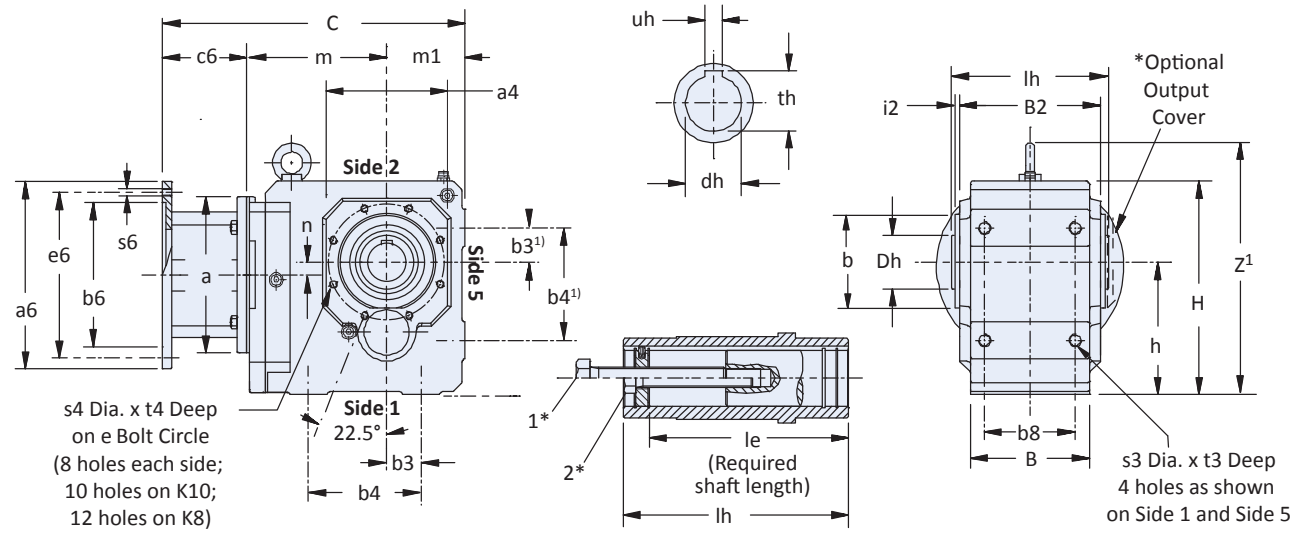
"G" Pilot Circle Diameter (PCD) Tapped Holes

** Optional output cover is not a standard part of the A-G configuration and must be ordered separately.*

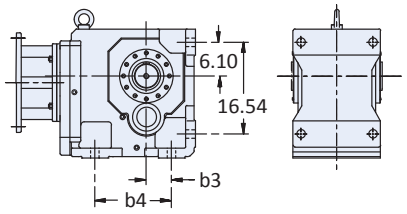
K102AG thru K403AG



K513AG thru K1014AG



Size K10 Mounting Feet (Dimensions b3 and b4)



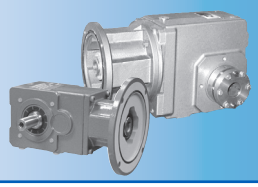
[2] Mounting feet are integral on the K10 housing. Note that b3= 6.10 and b4 = 16.54 on Side 5 of the K10. Hole locations are as shown above.

** 1. Removal Bolt: not supplied. See Installation Guide for details.*
2. Mounting Bolt: must be smaller than removal bolt.

See hollow output installation instructions for further details

Table 4 Motor Adapter Dimensions (Inches)

Motor Adapter	NEMA C-Flange	a	a6	b6	c6	e6	s6	Wt. lbs
MR140/050	56C	5.51	6.50	4.500	3.31	5.87	0.41	9
MR160/050	56C	6.30	6.50	4.500	3.86	5.87	0.41	16
MR160/140	143/145TC							
MR200/180	182/184TC	7.87	9.00	8.500	4.80	7.25	0.55	23
MR250/180	182/184TC	9.84	9.00	8.500	5.31	7.25	0.55	36
MR250/210	213/215TC							
MR300/180	182/184TC	11.81	9.00	8.500	6.50	7.25	0.57	75
MR300/210	213/215TC		9.00	8.500		7.25		
MR300/250	254/256TC		9.00	8.500		7.25		
MR300/280	284/286TC		11.13	10.500		9.00		
MR350/320	324/326TC	13.78	13.37	12.500	7.09	11.00	0.70	133
MR350/360	364/365TC							



Dimensional Data

Table 1 K Series Unit Dimensions (Inches) — "G" Pilot Circle Diameter (PCD) Tapped Holes

Base Module	a4	b	j6	B2	b3	b4	b8	e	H	h	lh	s3	s4	t3	t4
K1	4.13	2.953	+.0005/-.0003	4.17	1.18	3.54	2.76	3.54	6.30	2.36	4.72	M8x1.25	M8x1.25	0.51	0.51
K2	4.57	3.228	+.0005/-.0004	5.28	1.38	4.53	3.54	3.94	7.48	2.56	5.83	M10x1.5	M8x1.25	0.63	0.51
K3	5.20	3.740	+.0005/-.0004	5.75	1.57	5.12	4.13	4.53	8.39	2.95	6.30	M10x1.5	M8x1.25	0.63	0.55
K4	5.98	4.331	+.0005/-.0004	6.81	1.97	6.10	4.72	5.12	9.45	3.54	7.40	M12x1.75	M10x1.5	0.75	0.63
K5	5.71	4.331	+.0005/-.0004	7.28	1.57	5.51	4.92	5.12	10.24	6.30	7.87	M16x2.0	M10x1.5	1.02	0.63
K6	7.09	5.512	+.0006/-.0004	7.87	1.97	6.30	5.12	6.50	12.20	7.48	8.46	M16x2.0	M10x1.5	1.02	0.63
K7	7.68	6.102	+.0006/-.0004	8.90	2.17	7.09	5.71	7.28	13.46	8.35	9.53	M20x2.5	M12x1.75	1.30	0.75
K8	8.90	7.283	+.0006/-.0005	11.10	2.95	9.45	7.28	8.46	16.14	10.43	11.81	M24x3.0	M12x1.75	1.50	0.75
K9	11.02	9.055	+.0006/-.0005	12.99	3.74	11.02	8.86	10.43	19.49	12.40	13.78	M30x3.5	M16x2.0	1.89	1.02
K10	13.38	9.843	+.0006/-.0005	15.60	4.53[1)]	13.78[1)]	12.99	11.81	23.27	14.76	16.14	1.54[2)]	M20x2.5	1.77	1.30

[1)] Mounting feet are integral on the K10 housing as shown in inset drawing, facing page. Note b3 = 6.10 and b4 = 16.54 on **Side 5** *of the K10.*

[2)] For size K10, "J" are thru holes, not tapped. See side 5 view on Size K10 Mounting Feet drawing, facing page.

Table 2 K Series Unit Dimensions (Inches) — "G" Pilot Circle Diameter (PCD) Tapped Holes

Base Module	B	Dh	i2	le	m1	z1	Removal Bolt 1
K1	3.54	1.57	0.12	3.86	2.36	—	1/2 – 13
K2	4.53	1.77	0.12	4.78	2.56	—	1/2 – 13
K3	5.12	1.97	0.12	4.92	2.95	—	5/8 – 11
K4	5.83	2.17	0.14	6.18	3.54	—	3/4 – 10
K5	6.30	2.56	0.14	6.46	3.94	12.28	3/4 – 10
K6	6.61	2.76	0.14	7.05	4.72	14.25	3/4 – 10
K7	7.48	3.35	0.14	8.43	4.92	15.87	1 – 8
K8	9.25	3.94	0.16	10.35	5.71	18.54	1 – 8
K9	11.22	4.33	0.20	11.89	7.09	22.24	1 – 8
K10	15.59	5.12	0.28	14.25	8.86	26.77	1-1/4 – 7

Table 3 K Series Unit Dimensions (Inches) — Standard "A" Hollow Bore Output

(see page 36 for all other optional outputs)

Base Module	Stainless Steel			Carbon Steel		
	dh	th	uh	dh	th	uh
K1	1	1.11	1/4	1	1.11	1/4
K2	1-1/4	1.36	1/4	1-3/16	1.31	1/4
K3	1-3/8	1.52	5/16	1-3/8	1.52	5/16
K4	1-1/2	1.67	3/8	1-1/2	1.67	3/8
K5	2	2.13	1/2	2	2.13	1/2
K6	2	2.23	1/2	2	2.23	1/2
K7	—	—	—	2-3/8	2.66	5/8
K8	—	—	—	2-3/4	3.03	5/8
K9	—	—	—	3-1/4	3.59	3/4
K10	—	—	—	4	4.25	1

Table 5 K Series Unit Dimensions (inches) — "MR" Motor Adapter

Base Module	MR140/050			MR160/050 MR160/140			MR200/180			MR250/180 MR250/210			MR300/180 MR300/210 MR300/250 MR300/280			MR350/320 MR350/360			Wt. lbs*
	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	
K102	10.55	4.88	1.42	11.26	5.04	1.42	—	—	—	—	—	—	—	—	—	—	—	—	31
K202	11.50	5.63	1.81	12.21	5.79	1.81	13.23	5.87	1.81	—	—	—	—	—	—	—	—	—	40
K203	12.96	7.09	1.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53
K302	12.68	6.42	2.07	13.38	6.57	2.07	14.40	6.65	2.07	—	—	—	—	—	—	—	—	—	67
K303	14.13	7.87	2.07	15.08	8.27	0.63	—	—	—	—	—	—	—	—	—	—	—	—	73
K402	—	—	—	14.76	7.36	2.36	15.74	7.44	2.36	16.41	7.56	2.36	—	—	—	—	—	—	93
K403	15.51	8.66	2.36	16.46	9.06	0.91	—	—	—	—	—	—	—	—	—	—	—	—	100
K513	—	—	—	14.57	6.77	0.59	15.59	6.85	0.59	16.22	6.97	0.59	—	—	—	—	—	—	106
K514	—	—	—	16.26	8.46	0.59	—	—	—	—	—	—	—	—	—	—	—	—	109
K613	—	—	—	16.10	7.52	0.71	17.12	7.60	0.71	17.75	7.72	0.71	19.49	8.27	0.71	—	—	—	170
K614	—	—	—	17.79	9.21	0.71	—	—	—	—	—	—	—	—	—	—	—	—	177
K713	—	—	—	—	—	—	18.42	8.70	0.79	19.05	8.82	0.79	20.75	9.33	0.79	—	—	—	221
K714	—	—	—	19.13	10.35	0.79	20.86	11.14	0.79	—	—	—	—	—	—	—	—	—	234
K813	—	—	—	—	—	—	20.23	9.72	0.94	20.82	9.80	0.94	22.52	10.31	0.94	—	—	—	309
K814	—	—	—	—	—	—	22.64	12.13	0.94	23.62	12.60	0.20	—	—	—	—	—	—	331
K913	—	—	—	—	—	—	—	—	—	23.97	11.57	0.98	25.68	12.09	0.98	27.17	12.99	0.98	508
K914	—	—	—	—	—	—	25.79	13.90	0.98	26.77	14.37	0.98	—	—	—	—	—	—	530
K1013	—	—	—	—	—	—	—	—	—	—	—	—	30.79	15.43	1.10	32.29	16.34	1.10	913
K1014	—	—	—	—	—	—	—	—	—	31.89	17.72	1.10	—	—	—	—	—	—	993

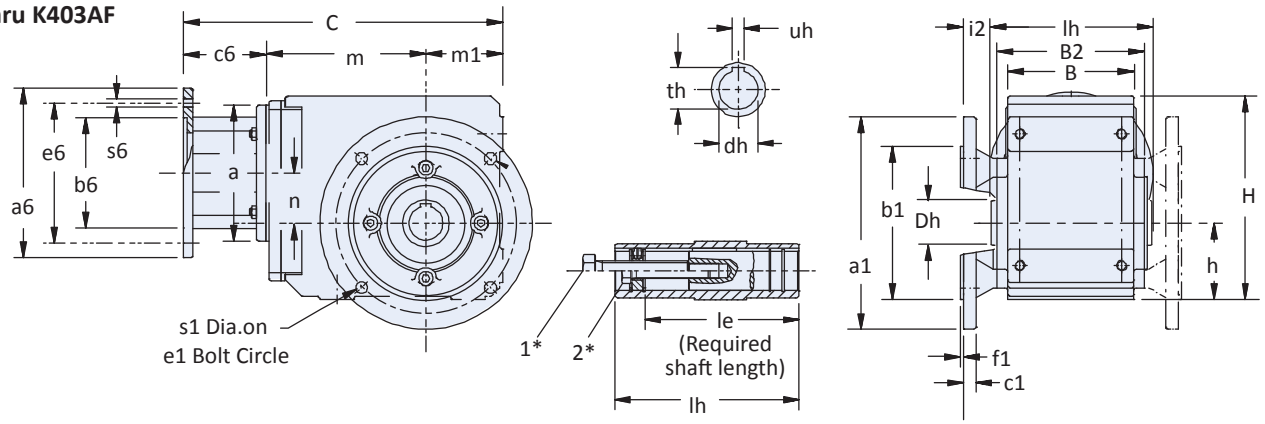
** Weight is base unit only. MR weight must be added separately.*

K Series with "A" Hollow Output

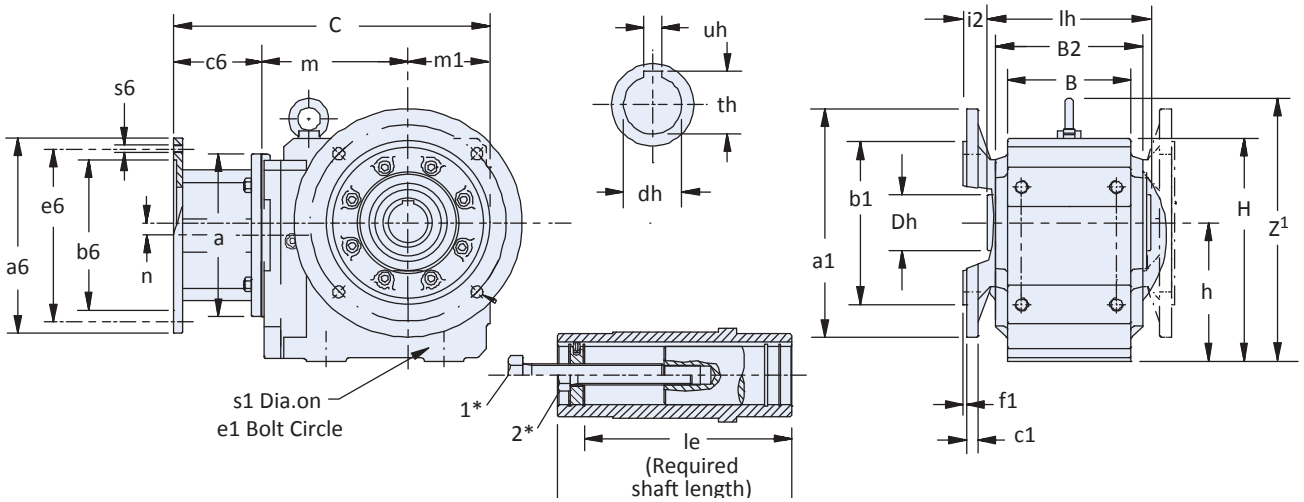
Other flange sizes available, see page 86 for details.

"F" Round Flange Housing

K102AF thru K403AF



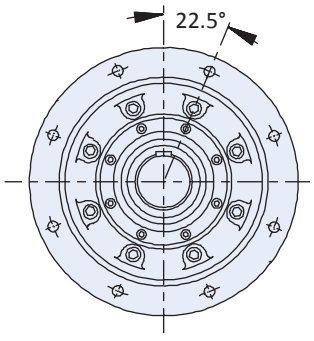
K513AF thru K1014AF



* *1. Removal Bolt: not supplied. See Installation Guide for details.*
2. Mounting Bolt: must be smaller than removal bolt.

See hollow output installation instructions for further details

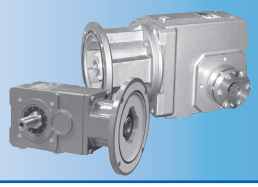
Size K9 and K10 Flange



K913 thru K1014 has 8 mounting holes in the output flange located as shown.

Table 3 Motor Adapter Dimensions (Inches)

Motor Adapter	NEMA C-Flange	a	a6	b6	c6	e6	s6	Wt. lbs
MR140/050	56C	5.51	6.50	4.500	3.31	5.87	0.41	9
MR160/050 MR160/140	56C 143/145TC	6.30	6.50	4.500	3.86	5.87	0.41	16
MR200/180	182/184TC	7.87	9.00	8.500	4.80	7.25	0.55	23
MR250/180 MR250/210	182/184TC 213/215TC	9.84	9.00	8.500	5.31	7.25	0.55	36
MR300/180 MR300/210 MR300/250 MR300/280	182/184TC 213/215TC 254/256TC 284/286TC	11.81	9.00 9.00 9.00 11.13	8.500 8.500 8.500 10.500	6.50	7.25 7.25 7.25 9.00	0.57	75
MR350/320 MR350/360	324/326TC 364/365TC	13.78	13.37	12.500	7.09	11.00	0.70	133



Dimensional Data

Table 1 K Series Unit Dimensions (Inches) — "F" Round Flange Housing

Base Module	a1 [1)]	B	b1		B2	c1	Dh	e1	f1	H	h	i2	le	lh	m1	s1	z1	Removal Bolt 1
K1	6.30	3.54	4.331	+0.0005/-0.0004	4.17	0.39	1.57	5.12	0.14	6.30	2.36	1.26	3.86	4.72	2.36	0.35	—	1/2 – 13
K2	7.87	4.53	5.118	+0.0006/-0.0004	5.28	0.47	1.77	6.50	0.14	7.48	2.56	1.26	4.78	5.83	2.56	0.43	—	1/2 – 13
K3	7.87	5.12	5.118	+0.0006/-0.0004	5.75	0.55	1.97	6.50	0.14	8.39	2.95	1.50	4.92	6.30	2.95	0.43	—	5/8 – 11
K4	9.84	5.83	7.087	+0.0006/-0.0004	6.81	0.59	2.17	8.46	0.16	9.45	3.54	1.57	6.18	7.40	3.54	0.55	—	3/4 – 10
K5	9.84	6.30	7.087	+0.0006/-0.0004	7.28	0.59	2.56	8.46	0.16	10.24	6.30	1.56	6.46	7.87	3.94	0.55	12.28	3/4 – 10
K6	11.81	6.61	9.055	+0.0006/-0.0005	7.87	0.67	2.76	10.43	0.16	12.20	7.48	1.42	7.05	8.46	4.72	0.55	14.25	3/4 – 10
K7	13.78	7.48	9.842	+0.000/-0.001	8.90	0.71	3.35	11.81	0.20	13.46	8.35	1.73	8.43	9.53	4.92	0.71	15.87	1 – 8
K8	15.75	9.25	11.811	+0.000/-0.001	11.10	0.79	3.94	13.78	0.20	16.14	10.43	1.77	10.35	11.81	5.71	0.71	18.54	1 – 8
K9	17.72	11.22	13.780	+0.000/-0.001	12.99	0.91	4.33	15.75	0.20	19.49	12.40	1.97	11.89	13.78	7.09	0.71	22.24	1 – 8
K10	21.65	15.75	17.716	+0.000/-0.002	15.60	0.98	5.12	19.69	0.20	23.27	14.76	3.07	14.25	16.14	8.86	0.71	26.77	1-1/4 – 7

1) See page 86 for other flange sizes. Optional flanges are not available for all sizes.

Table 2 K Series Unit Dimensions (Inches) — Standard "A" Hollow Bore Output (see page 36 for all other optional outputs)

	Stainless Steel			Carbon Steel		
Base Module	dh	th	uh	dh	th	uh
K1	1	1.11	1/4	1	1.11	1/4
K2	1-1/4	1.36	1/4	1-3/16	1.31	1/4
K3	1-3/8	1.52	5/16	1-3/8	1.52	5/16
K4	1-1/2	1.67	3/8	1-1/2	1.67	3/8
K5	2	2.13	1/2	2	2.13	1/2
K6	2	2.23	1/2	2	2.23	1/2
K7	—	—	—	2-3/8	2.66	5/8
K8	—	—	—	2-3/4	3.03	5/8
K9	—	—	—	3-1/4	3.59	3/4
K10	—	—	—	4	4.25	1

Table 4 K Series Unit Dimensions (inches) — "MR" Motor Adapter

Base Module	MR140/050			MR160/050 MR160/140			MR200/180			MR250/180 MR250/210			MR300/180 MR300/210 MR300/250 MR300/280			MR350/320 MR350/360			Wt. lbs*
	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	
K102	10.55	4.88	1.42	11.26	5.04	1.42	—	—	—	—	—	—	—	—	—	—	—	—	31
K202	11.50	5.63	1.81	12.21	5.79	1.81	13.23	5.87	1.81	—	—	—	—	—	—	—	—	—	40
K203	12.96	7.09	1.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53
K302	12.68	6.42	2.07	13.38	6.57	2.07	14.40	6.65	2.07	—	—	—	—	—	—	—	—	—	67
K303	14.13	7.87	2.07	15.08	8.27	0.63	—	—	—	—	—	—	—	—	—	—	—	—	73
K402	—	—	—	14.76	7.36	2.36	15.74	7.44	2.36	16.41	7.56	2.36	—	—	—	—	—	—	93
K403	15.51	8.66	2.36	16.46	9.06	0.91	—	—	—	—	—	—	—	—	—	—	—	—	100
K513	—	—	—	14.57	6.77	0.59	15.59	6.85	0.59	16.22	6.97	0.59	—	—	—	—	—	—	106
K514	—	—	—	16.26	8.46	0.59	—	—	—	—	—	—	—	—	—	—	—	—	109
K613	—	—	—	16.10	7.52	0.71	17.12	7.60	0.71	17.75	7.72	0.71	19.49	8.27	0.71	—	—	—	170
K614	—	—	—	17.79	9.21	0.71	—	—	—	—	—	—	—	—	—	—	—	—	177
K713	—	—	—	—	—	—	18.42	8.70	0.79	19.05	8.82	0.79	20.75	9.33	0.79	—	—	—	221
K714	—	—	—	19.13	10.35	0.79	20.86	11.14	0.79	—	—	—	—	—	—	—	—	—	234
K813	—	—	—	—	—	—	20.23	9.72	0.94	20.82	9.80	0.94	22.52	10.31	0.94	—	—	—	309
K814	—	—	—	—	—	—	22.64	12.13	0.94	23.62	12.60	0.20	—	—	—	—	—	—	331
K913	—	—	—	—	—	—	—	—	—	23.97	11.57	0.98	25.68	12.09	0.98	27.17	12.99	0.98	508
K914	—	—	—	—	—	—	25.79	13.90	0.98	26.77	14.37	0.98	—	—	—	—	—	—	530
K1013	—	—	—	—	—	—	—	—	—	—	—	—	30.79	15.43	1.10	32.29	16.34	1.10	913
K1014	—	—	—	—	—	—	—	—	—	31.89	17.72	1.10	—	—	—	—	—	—	993

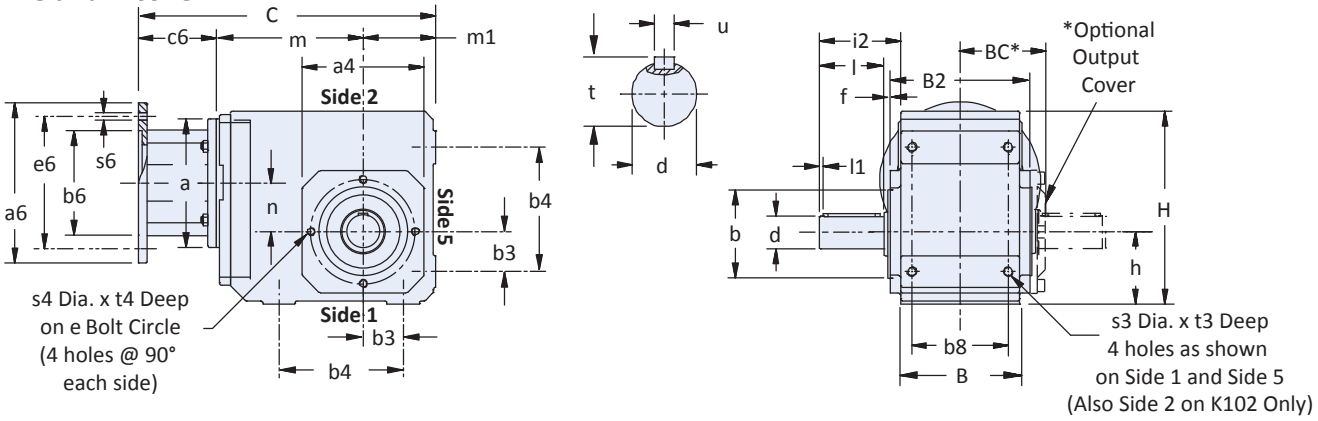
** Weight is base unit only. MR weight must be added separately.*

K Series with "V" Solid Shaft Output

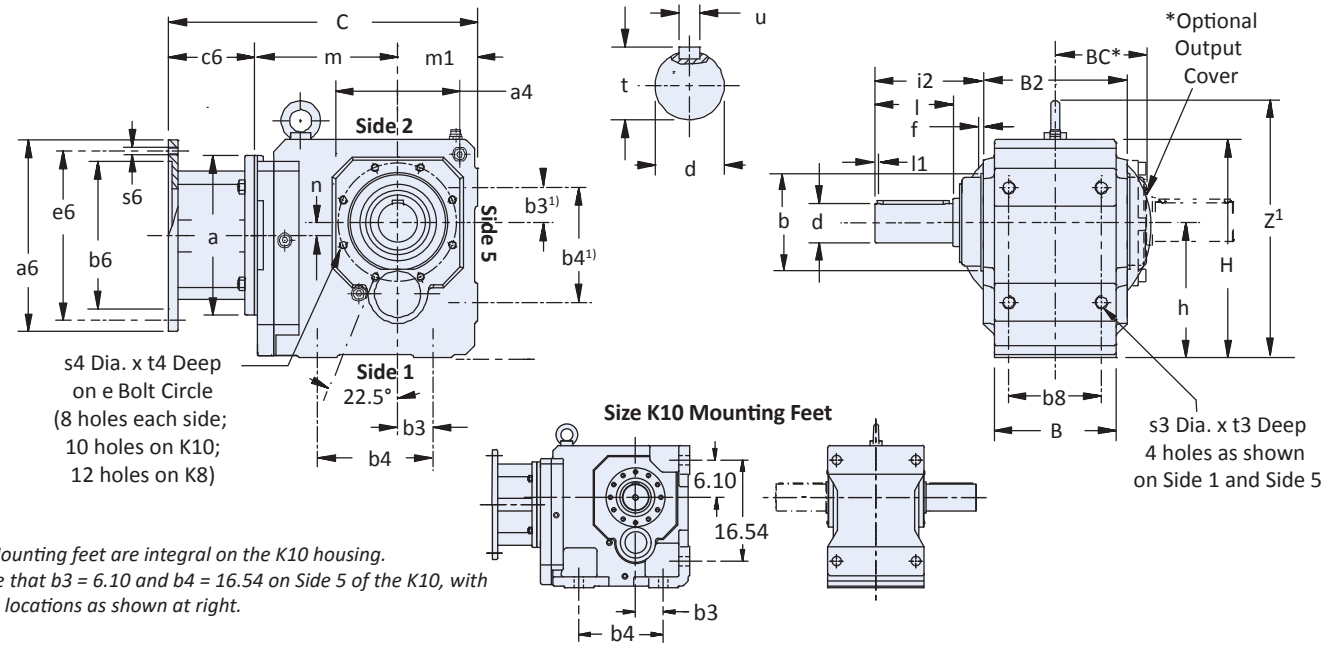
"G" Pilot Circle Diameter (PCD) Tapped Holes

** Optional output cover is not a standard part of the V-G configuration and must be ordered separately. Dimension BC is from Center Side 5 to the outer edge of optional cover.*

K102VG thru K403VG



K513VG thru K1014VG



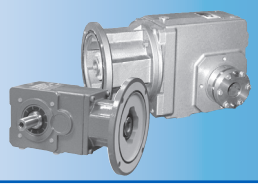
[2)] *Mounting feet are integral on the K10 housing. Note that b3 = 6.10 and b4 = 16.54 on Side 5 of the K10, with hole locations as shown at right.*

Table 3 K Series — "V" Shaft Output (Carbon Steel)
(see page 36 for standard SS, and other optional outputs)

Base Module	Standard Shaft – inches			Optional Shaft – mm		
	d	t	u – Key	d	t	u – Key
K1	1	1.11	1/4x1/4x1-9/16	25k6	28	A8x7x40
K2	1-1/4	1.36	1/4x1/4x1-15/16	30k6	33	A8x7x50
K3	1-1/4	1.36	1/4x1/4x1-15/16	30k6	33	A8x7x50
K4	1-3/8	1.51	5/16x5/16x2-5/16	40k6	43	A12x8x70
K5	1-3/4	1.92	3/8x3/8x3-5/32	45k6	48.5	A14x9x80
K6	1-3/4	1.92	3/8x3/8x3-5/32	50k6	53.5	A14x9x90
K7	2-3/8	2.65	5/8x5/8x3-15/16	60k6	64	A18x11x110
K8	2-7/8	3.21	3/4x3/4x4-5/16	70m6	74.5	A20x12x125
K9	3-5/8	4.01	7/8x7/8x5-1/2	90m6	95	A25x14x140
K10	4-3/8	4.82	1x1x7-1/8	110m6	116	A28x16x180

Table 4 Motor Adapter Dimensions (Inches)

Motor Adapter	NEMA C-Flange	a	a6	b6	c6	e6	s6	Wt. lbs
MR140/050	56C	5.51	6.50	4.500	3.31	5.87	0.41	9
MR160/050	56C	6.30	6.50	4.500	3.86	5.87	0.41	16
MR160/140	143/145TC							
MR200/180	182/184TC	7.87	9.00	8.500	4.80	7.25	0.55	23
MR250/180	182/184TC	9.84	9.00	8.500	5.31	7.25	0.55	36
MR250/210	213/215TC							
MR300/180	182/184TC	11.81	9.00	8.500	6.50	7.25	0.57	75
MR300/210	213/215TC		9.00	8.500		7.25		
MR300/250	254/256TC		9.00	8.500		7.25		
MR300/280	284/286TC		11.13	10.500		9.00		
MR350/320	324/326TC	13.78	13.37	12.500	7.09	11.00	0.70	133
MR350/360	364/365TC							



Dimensional Data

Table 1 K Series Unit Dimensions (Inches) — "G" Pilot Circle Diameter (PCD) Tapped Holes

Base Module	a4	BC	B2	b3	b4	b8	e	H	h	l	t3	t4
K1	4.13	2.64	4.17	1.18	3.54	2.76	3.54	6.30	2.36	1.97	0.51	0.51
K2	4.57	3.23	5.28	1.38	4.53	3.54	3.94	7.48	2.56	2.36	0.63	0.51
K3	5.20	3.46	5.75	1.57	5.12	4.13	4.53	8.39	2.95	2.36	0.63	0.55
K4	5.98	4.08	6.81	1.97	6.10	4.72	5.12	9.45	3.54	2.76	0.75	0.63
K5	5.71	4.31	7.28	1.57	5.51	4.92	5.12	10.24	6.30	3.54	1.02	0.63
K6	7.09	4.61	7.87	1.97	6.30	5.12	6.50	12.20	7.48	3.54	1.02	0.63
K7	7.68	5.08	8.90	2.17	7.09	5.71	7.28	13.46	8.35	4.72	1.30	0.75
K8	8.90	6.26	11.10	2.95	9.45	7.28	8.46	16.14	10.43	5.51	1.50	0.75
K9	11.02	7.48	12.99	3.74	11.02	8.86	10.43	19.49	12.40	6.69	1.89	1.02
K10	13.38	9.59	15.60	4.53[1)]	13.78[1)]	12.99	11.81	23.27	14.76	8.27	1.77	1.30

[1)] Mounting feet are integral on the K10 housing as shown in Size K10 Mounting Feet drawing, facing page. Note b3 = 6.10 and b4 = 16.54 on **Side 5** *of the K10.*

Table 2 K Series Unit Dimensions (Inches) — "G" Pilot Circle Diameter (PCD) Tapped Holes

Base Module	B	b	j6	f	i2	l1	m1	s3	s4	z[1]
K1	3.54	2.953	+0.0005/-0.0003	0.16	2.32	0.16	2.36	M8 x 1.25	M8 x 1.25	—
K2	4.53	3.228	+0.0005/-0.0004	0.16	2.56	0.16	2.56	M10 x 1.5	M8 x 1.25	—
K3	5.12	3.740	+0.0005/-0.0004	0.16	2.60	0.16	2.95	M10 x 1.5	M8 x 1.25	—
K4	5.83	4.331	+0.0005/-0.0004	0.16	3.39	0.16	3.54	M12 x 1.75	M10 x 1.5	—
K5	6.30	4.331	+0.0005/-0.0004	0.16	5.10	0.16	3.94	M16 x 2.0	M10 x 1.5	12.28
K6	6.61	5.512	+0.0006/-0.0004	0.16	5.35	0.16	4.72	M16 x 2.0	M10 x 1.5	14.25
K7	7.48	6.102	+0.0006/-0.0004	0.18	6.46	0.16	4.92	M20 x 2.5	M12 x 1.75	15.87
K8	9.25	7.283	+0.0006/-0.0005	0.20	7.28	0.20	5.71	M24 x 3.0	M12 x 1.75	18.54
K9	11.22	9.055	+0.0006/-0.0005	0.20	8.66	0.31	7.09	M30 x 3.5	M16 x 2.0	22.24
K10	14.02	9.843	+0.0006/-0.0005	0.28	9.45	0.59	8.86	1.54*	M20 x 2.5	26.77

[1)] For size K10, "J" are thru holes, not tapped. See side 5 view on Size K10 Mounting Feet drawing, facing page.

Table 5 K Series Unit Dimensions (inches) — "MR" Motor Adapter

Base Module	MR140/050			MR160/050 MR160/140			MR200/180			MR250/180 MR250/210			MR300/180 MR300/210 MR300/250 MR300/280			MR350/320 MR350/360			Wt. lbs*
	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	
K102	10.55	4.88	1.42	11.26	5.04	1.42	—	—	—	—	—	—	—	—	—	—	—	—	31
K202	11.50	5.63	1.81	12.21	5.79	1.81	13.23	5.87	1.81	—	—	—	—	—	—	—	—	—	40
K203	12.96	7.09	1.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53
K302	12.68	6.42	2.07	13.38	6.57	2.07	14.40	6.65	2.07	—	—	—	—	—	—	—	—	—	67
K303	14.13	7.87	2.07	15.08	8.27	0.63	—	—	—	—	—	—	—	—	—	—	—	—	73
K402	—	—	—	14.76	7.36	2.36	15.74	7.44	2.36	16.41	7.56	2.36	—	—	—	—	—	—	93
K403	15.51	8.66	2.36	16.46	9.06	0.91	—	—	—	—	—	—	—	—	—	—	—	—	100
K513	—	—	—	14.57	6.77	0.59	15.59	6.85	0.59	16.22	6.97	0.59	—	—	—	—	—	—	106
K514	—	—	—	16.26	8.46	0.59	—	—	—	—	—	—	—	—	—	—	—	—	109
K613	—	—	—	16.10	7.52	0.71	17.12	7.60	0.71	17.75	7.72	0.71	19.49	8.27	0.71	—	—	—	170
K614	—	—	—	17.79	9.21	0.71	—	—	—	—	—	—	—	—	—	—	—	—	177
K713	—	—	—	—	—	—	18.42	8.70	0.79	19.05	8.82	0.79	20.75	9.33	0.79	—	—	—	221
K714	—	—	—	19.13	10.35	0.79	20.86	11.14	0.79	—	—	—	—	—	—	—	—	—	234
K813	—	—	—	—	—	—	20.23	9.72	0.94	20.82	9.80	0.94	22.52	10.31	0.94	—	—	—	309
K814	—	—	—	—	—	—	22.64	12.13	0.94	23.62	12.60	0.20	—	—	—	—	—	—	331
K913	—	—	—	—	—	—	—	—	—	23.97	11.57	0.98	25.68	12.09	0.98	27.17	12.99	0.98	508
K914	—	—	—	—	—	—	25.79	13.90	0.98	26.77	14.37	0.98	—	—	—	—	—	—	530
K1013	—	—	—	—	—	—	—	—	—	—	—	—	30.79	15.43	1.10	32.29	16.34	1.10	913
K1014	—	—	—	—	—	—	—	—	—	31.89	17.72	1.10	—	—	—	—	—	—	993

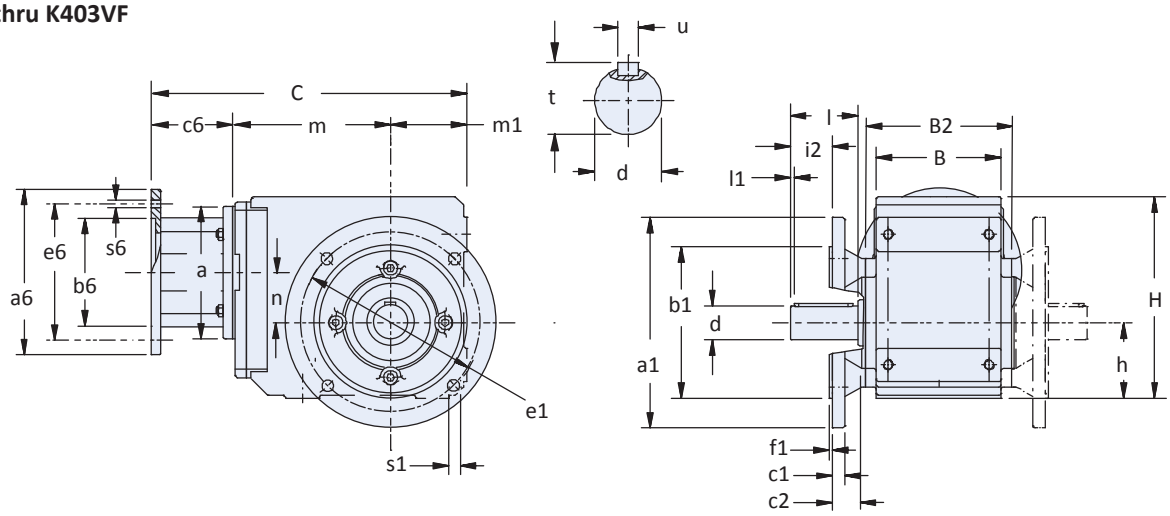
** Weight is base unit only. MR weight must be added separately.*

K Series with "V" Solid Shaft Output

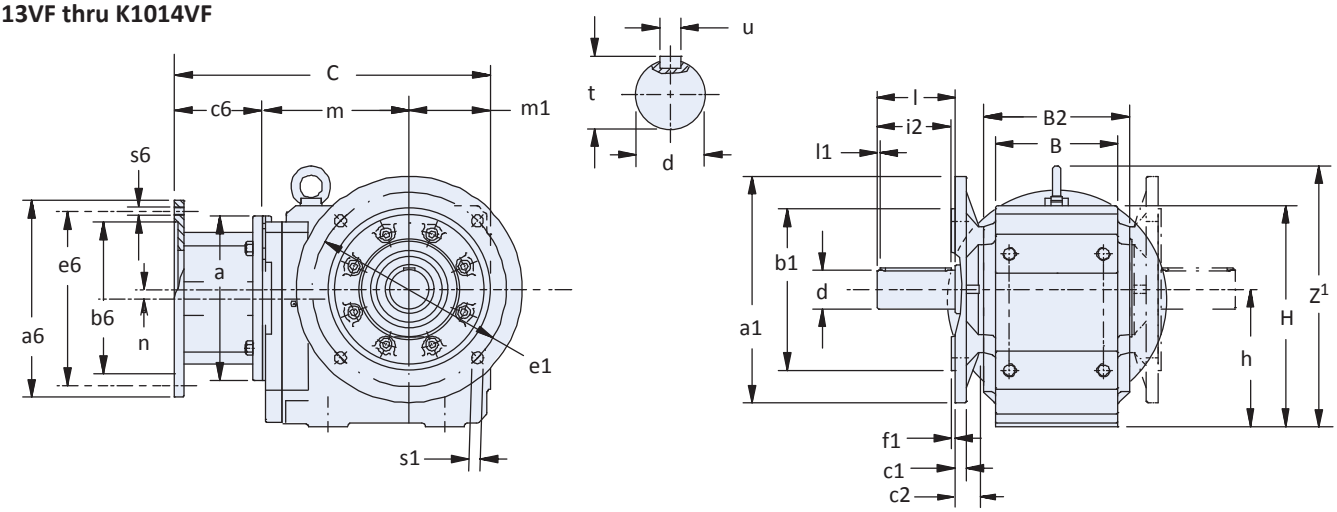
Other flange sizes available, see page 86 for details.

"F" Round Flange Housing

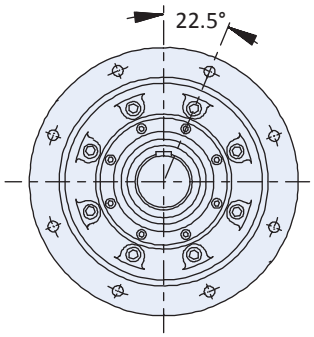
K102VF thru K403VF



K513VF thru K1014VF



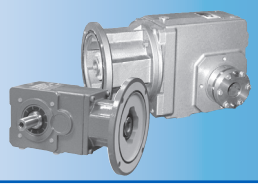
Size K9 and K10 Flange



K913 thru K1014 has 8 mounting holes in the output flange located as shown.

Table 3 Motor Adapter Dimensions (Inches)

Motor Adapter	NEMA C-Flange	a	a6	b6	c6	e6	s6	Wt. lbs
MR140/050	56C	5.51	6.50	4.500	3.31	5.87	0.41	9
MR160/050 MR160/140	56C 143/145TC	6.30	6.50	4.500	3.86	5.87	0.41	16
MR200/180	182/184TC	7.87	9.00	8.500	4.80	7.25	0.55	23
MR250/180 MR250/210	182/184TC 213/215TC	9.84	9.00	8.500	5.31	7.25	0.55	36
MR300/180 MR300/210 MR300/250 MR300/280	182/184TC 213/215TC 254/256TC 284/286TC	11.81	9.00 9.00 9.00 11.13	8.500 8.500 8.500 10.500	6.50	7.25 7.25 7.25 9.00	0.57	75
MR350/320 MR350/360	324/326TC 364/365TC	13.78	13.37	12.500	7.09	11.00	0.70	133



Dimensional Data

Table 1 K Series Unit Dimensions (Inches) — "F" Round Flange Housing

Base Module	a1 [1)]	B	b1		B2	c1	c2	e1	f1	H	h	i2	l	l1	m1	s1	z1
K1	6.30	3.54	4.331	+0.0005/-0.0004	4.17	0.39	1.26	5.12	0.14	6.30	2.36	1.18	1.97	0.16	2.36	0.35	—
K2	7.87	4.53	5.118	+0.0006/-0.0004	5.28	0.47	1.26	6.50	0.14	7.48	2.56	1.42	2.36	0.16	2.56	0.43	—
K3	7.87	5.12	5.118	+0.0006/-0.0004	5.75	0.55	1.50	6.50	0.14	8.39	2.95	1.22	2.36	0.16	2.95	0.43	—
K4	9.84	5.83	7.087	+0.0006/-0.0005	6.81	0.59	1.57	8.46	0.16	9.45	3.54	1.95	3.14	0.16	3.54	0.55	—
K5	9.84	6.30	7.087	+0.0006/-0.0005	7.28	0.59	1.56	8.46	0.16	10.24	6.30	3.54	3.54	0.16	3.54	0.55	12.28
K6	11.81	6.61	9.055	+0.0006/-0.0005	7.87	0.67	1.42	10.43	0.16	12.20	7.48	3.94	3.94	0.16	4.72	0.55	14.25
K7	13.78	7.48	9.842	+0.000/-0.001	8.90	0.71	1.73	11.81	0.20	13.46	8.35	4.72	4.72	0.16	4.92	0.71	15.87
K8	15.75	9.25	11.811	+0.000/-0.001	11.10	0.79	1.77	13.78	0.20	16.14	10.43	5.51	5.51	0.20	5.71	0.71	18.54
K9	17.72	11.22	13.780	+0.000/-0.001	12.99	0.91	1.97	15.75	0.20	19.49	12.40	6.69	6.69	0.31	7.09	0.71	22.24
K10	21.65	15.75	17.716	+0.000/-0.002	14.02	0.98	3.07	19.69	0.20	23.27	14.76	8.27	8.27	0.59	8.86	0.71	26.77

1) See page 86 for other flange sizes. Optional flanges are not available for all sizes.

Table 2 K Series Unit Dimensions — "V" Shaft Output (Carbon Steel)

(see page 36 for standard SS, and other optional outputs)

Base Module	Standard Shaft – inches			Optional Shaft – mm		
	d	t	u – Key	d	t	u – Key
K1	1	1.11	1/4 x 1/4 x 1-9/16	25k6	28	A8 x 7 x 40
K2	1-1/4	1.36	1/4 x 1/4 x 1-15/16	30k6	33	A8 x 7 x 50
K3	1-1/4	1.36	1/4 x 1/4 x 1-15/16	30k6	33	A8 x 7 x 50
K4	1-3/8	1.51	5/16 x 5/16 x 2-5/16	40k6	43	A12 x 8 x 70
K5	1-3/4	1.92	3/8 x 3/8 x 3-5/32	45k6	48.5	A14 x 9 x 80
K6	1-3/4	1.92	3/8 x 3/8 x 3-5/32	50k6	53.5	A14 x 9 x 90
K7	2-3/8	2.65	5/8 x 5/8 x 3-15/16	60k6	64	A18 x 11 x 110
K8	2-7/8	3.21	3/4 x 3/4 x 4-5/16	70m6	74.5	A20 x 12 x 125
K9	3-5/8	4.01	7/8 x 7/8 x 5-1/2	90m6	95	A25 x 14 x 140
K10	4-3/8	4.82	1 x 1 x 7-1/8	110m6	116	A28 x 16 x 180

Table 4 K Series Unit Dimensions (inches) — "MR" Motor Adapter

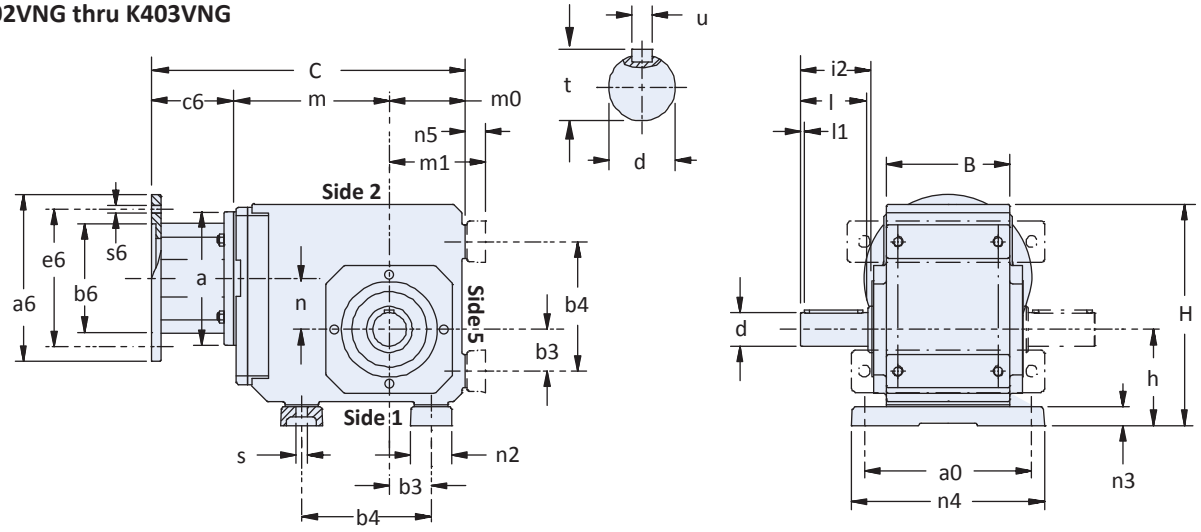
Base Module	MR140/050			MR160/050 MR160/140			MR200/180			MR250/180 MR250/210			MR300/180 MR300/210 MR300/250 MR300/280			MR350/320 MR350/360			Wt. lbs*
	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	
K102	10.55	4.88	1.42	11.26	5.04	1.42	—	—	—	—	—	—	—	—	—	—	—	—	31
K202	11.50	5.63	1.81	12.21	5.79	1.81	13.23	5.87	1.81	—	—	—	—	—	—	—	—	—	40
K203	12.96	7.09	1.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53
K302	12.68	6.42	2.07	13.38	6.57	2.07	14.40	6.65	2.07	—	—	—	—	—	—	—	—	—	67
K303	14.13	7.87	2.07	15.08	8.27	0.63	—	—	—	—	—	—	—	—	—	—	—	—	73
K402	—	—	—	14.76	7.36	2.36	15.74	7.44	2.36	16.41	7.56	2.36	—	—	—	—	—	—	93
K403	15.51	8.66	2.36	16.46	9.06	0.91	—	—	—	—	—	—	—	—	—	—	—	—	100
K513	—	—	—	14.57	6.77	0.59	15.59	6.85	0.59	16.22	6.97	0.59	—	—	—	—	—	—	106
K514	—	—	—	16.26	8.46	0.59	—	—	—	—	—	—	—	—	—	—	—	—	109
K613	—	—	—	16.10	7.52	0.71	17.12	7.60	0.71	17.75	7.72	0.71	19.49	8.27	0.71	—	—	—	170
K614	—	—	—	17.79	9.21	0.71	—	—	—	—	—	—	—	—	—	—	—	—	177
K713	—	—	—	—	—	—	18.42	8.70	0.79	19.05	8.82	0.79	20.75	9.33	0.79	—	—	—	221
K714	—	—	—	19.13	10.35	0.79	20.86	11.14	0.79	—	—	—	—	—	—	—	—	—	234
K813	—	—	—	—	—	—	20.23	9.72	0.94	20.82	9.80	0.94	22.52	10.31	0.94	—	—	—	309
K814	—	—	—	—	—	—	22.64	12.13	0.94	23.62	12.60	0.20	—	—	—	—	—	—	331
K913	—	—	—	—	—	—	—	—	—	23.97	11.57	0.98	25.68	12.09	0.98	27.17	12.99	0.98	508
K914	—	—	—	—	—	—	25.79	13.90	0.98	26.77	14.37	0.98	—	—	—	—	—	—	530
K1013	—	—	—	—	—	—	—	—	—	—	—	—	30.79	15.43	1.10	32.29	16.34	1.10	913
K1014	—	—	—	—	—	—	—	—	—	31.89	17.72	1.10	—	—	—	—	—	—	993

** Weight is base unit only. MR weight must be added separately.*

K Series with "V" Solid Shaft Output

"NG" Foot Mounting Housing

K102VNG thru K403VNG



K513VNG thru K1014VNG

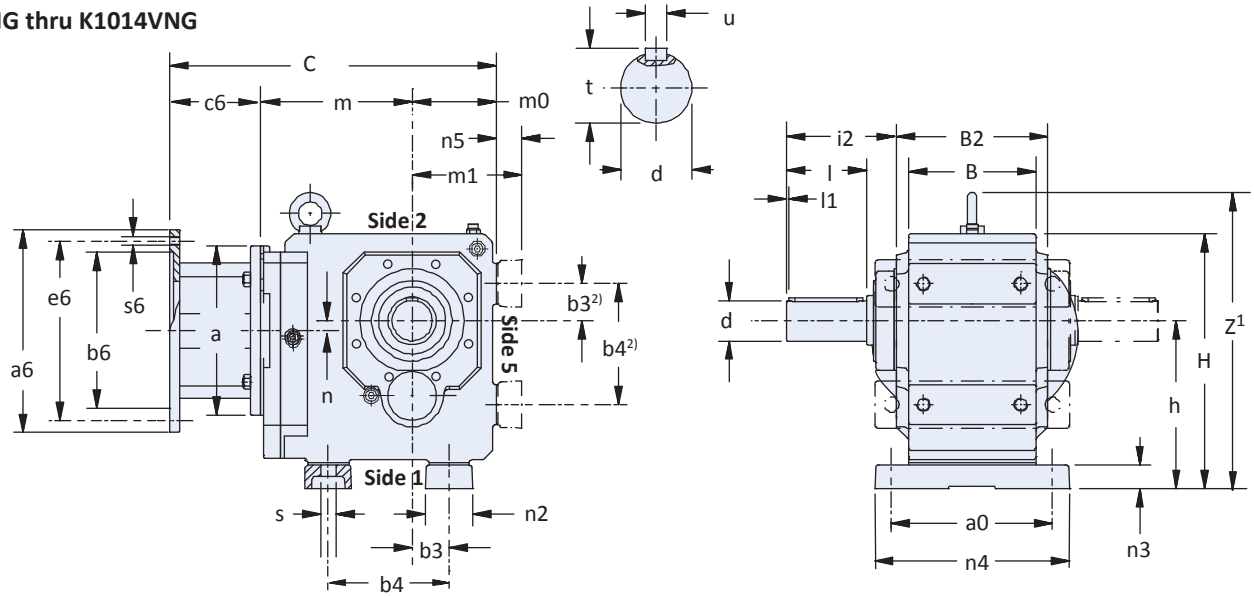
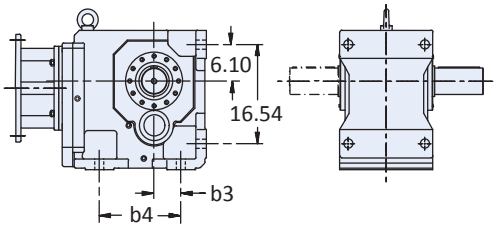


Table 3 Motor Adapter Dimensions (Inches)

Motor Adapter	NEMA C-Flange	a	a6	b6	c6	e6	s6	Wt. lbs
MR140/050	56C	5.51	6.50	4.500	3.31	5.87	0.41	9
MR160/050	56C	6.30	6.50	4.500	3.86	5.87	0.41	16
MR160/140	143/145TC							
MR200/180	182/184TC	7.87	9.00	8.500	4.80	7.25	0.55	23
MR250/180	182/184TC	9.84	9.00	8.500	5.31	7.25	0.55	36
MR250/210	213/215TC							
MR300/180	182/184TC	11.81	9.00	8.500	6.50	7.25	0.57	75
MR300/210	213/215TC		9.00	8.500		7.25		
MR300/250	254/256TC		9.00	8.500		7.25		
MR300/280	284/286TC		11.13	10.500		9.00		
MR350/320	324/326TC	13.78	13.37	12.500	7.09	11.00	0.70	133
MR350/360	364/365TC							

Size K10 Mounting Feet (Dimensions F and FA)



2) Mounting feet are integral on the K10 housing. Note that b3 = 6.10 and b4= 16.54 on Side 5 of the K10. Hole locations are as shown above.

Dimensional Data

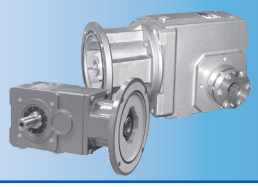


Table 1 K Series Unit Dimensions (inches) — "NG" Foot Mounting Housing

Base Module	a0	B	B2	b3	b4	H	h	i2	l	l1	m0	m1	n2	n3	n4	n5	s	z[1]
K1	4.53	3.54	—	1.18	3.54[1)]	6.81	2.95	2.32	1.97	0.16	2.36	2.95	1.18	0.51	5.51	0.59	0.35	—
K2	6.10	4.53	—	1.38	4.53	8.39	3.46	2.56	2.36	0.16	2.56	3.46	1.57	0.79	7.28	0.91	0.43	—
K3	6.69	5.12	—	1.57	5.12	9.29	3.86	2.60	2.36	0.16	2.95	3.86	1.77	0.79	7.87	0.91	0.43	—
K4	7.87	5.83	—	1.97	6.10	10.43	4.53	3.39	2.76	0.16	3.54	4.53	1.97	0.87	9.06	0.98	0.55	—
K5	7.87	6.30	7.28	1.57	5.51	11.42	7.48	5.10	3.54	0.16	3.54	5.12	2.36	1.06	9.45	1.18	0.71	13.46
K6	8.27	6.61	7.87	1.97	6.30	13.39	8.66	5.35	3.54	0.16	4.72	5.91	2.56	1.06	9.84	1.18	0.71	15.43
K7	9.45[2)]	7.48	8.90	2.17	7.09	14.96	9.84	6.46	4.72	0.16	4.92	6.42	2.76	1.38	11.42	1.50	0.87	17.36
K8	11.81	9.25	11.10	2.95	9.45	17.91	12.20	7.28	5.51	0.20	5.71	7.48	3.35	1.61	14.17	1.77	1.02	20.31
K9	14.17	11.22	12.99	3.74	11.02	21.46	14.37	8.66	6.69	0.31	7.09	9.06	3.74	1.81	16.93	1.97	1.30	24.21
K10	12.99	15.75	14.02	4.53[3)]	13.78[3)]	23.27	14.76	9.45	8.27	0.59	—	8.86	4.72	1.77	15.75	1.77	1.54	26.77

[1)] *Mounting holes are also located on Side 2 of the K1 unit ONLY.*
[2)] *For a0 with mounting on side 1 only; a0 when mounting on optional side 5 is 9.49".*
[3)] *Mounting feet are integral on the K10 housing as shown on inset drawing, facing page. Note b3 = 6.10 and b4 = 16.54 on* **Side 5** *of the K10.*

Table 2 K Series Unit Dimensions — "V" Shaft Output (Carbon Steel)
(see page 36 for standard SS, and other optional outputs)

Base Module	Standard Shaft – inches			Optional Shaft – mm		
	d	t	u – Key	d	t	u – Key
K1	1	1.11	1/4 x 1/4 x 1-9/16	25k6	28	A8 x 7 x 40
K2	1-1/4	1.36	1/4 x 1/4 x 1-15/16	30k6	33	A8 x 7 x 50
K3	1-1/4	1.36	1/4 x 1/4 x 1-15/16	30k6	33	A8 x 7 x 50
K4	1-3/8	1.51	5/16 x 5/16 x 2-5/16	40k6	43	A12 x 8 x 70
K5	1-3/4	1.92	3/8 x 3/8 x 3-5/32	45k6	48.5	A14 x 9 x 80
K6	1-3/4	1.92	3/8 x 3/8 x 3-5/32	50k6	53.5	A14 x 9 x 90
K7	2-3/8	2.65	5/8 x 5/8 x 3-15/16	60k6	64	A18 x 11 x 110
K8	2-7/8	3.21	3/4 x 3/4 x 4-5/16	70m6	74.5	A20 x 12 x 125
K9	3-5/8	4.01	7/8 x 7/8 x 5-1/2	90m6	95	A25 x 14 x 140
K10	4-3/8	4.82	1 x 1 x 7-1/8	110m6	116	A28 x 16 x 180

Table 4 K Series Unit Dimensions (inches) — "MR" Motor Adapter

Base Module	MR140/050			MR160/050 MR160/140			MR200/180			MR250/180 MR250/210			MR300/180 MR300/210 MR300/250 MR300/280			MR350/320 MR350/360			Wt. lbs*
	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	
K102	10.55	4.88	1.42	11.26	5.04	1.42	—	—	—	—	—	—	—	—	—	—	—	—	31
K202	11.50	5.63	1.81	12.21	5.79	1.81	13.23	5.87	1.81	—	—	—	—	—	—	—	—	—	40
K203	12.96	7.09	1.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53
K302	12.68	6.42	2.07	13.38	6.57	2.07	14.40	6.65	2.07	—	—	—	—	—	—	—	—	—	67
K303	14.13	7.87	2.07	15.08	8.27	0.63	—	—	—	—	—	—	—	—	—	—	—	—	73
K402	—	—	—	14.76	7.36	2.36	15.74	7.44	2.36	16.41	7.56	2.36	—	—	—	—	—	—	93
K403	15.51	8.66	2.36	16.46	9.06	0.91	—	—	—	—	—	—	—	—	—	—	—	—	100
K513	—	—	—	14.57	6.77	0.59	15.59	6.85	0.59	16.22	6.97	0.59	—	—	—	—	—	—	106
K514	—	—	—	16.26	8.46	0.59	—	—	—	—	—	—	—	—	—	—	—	—	109
K613	—	—	—	16.10	7.52	0.71	17.12	7.60	0.71	17.75	7.72	0.71	19.49	8.27	0.71	—	—	—	170
K614	—	—	—	17.79	9.21	0.71	—	—	—	—	—	—	—	—	—	—	—	—	177
K713	—	—	—	—	—	—	18.42	8.70	0.79	19.05	8.82	0.79	20.75	9.33	0.79	—	—	—	221
K714	—	—	—	19.13	10.35	0.79	20.86	11.14	0.79	—	—	—	—	—	—	—	—	—	234
K813	—	—	—	—	—	—	20.23	9.72	0.94	20.82	9.80	0.94	22.52	10.31	0.94	—	—	—	309
K814	—	—	—	—	—	—	22.64	12.13	0.94	23.62	12.60	0.20	—	—	—	—	—	—	331
K913	—	—	—	—	—	—	—	—	—	23.97	11.57	0.98	25.68	12.09	0.98	27.17	12.99	0.98	508
K914	—	—	—	—	—	—	25.79	13.90	0.98	26.77	14.37	0.98	—	—	—	—	—	—	530
K1013	—	—	—	—	—	—	—	—	—	—	—	—	30.79	15.43	1.10	32.29	16.34	1.10	913
K1014	—	—	—	—	—	—	—	—	—	31.89	17.72	1.10	—	—	—	—	—	—	993

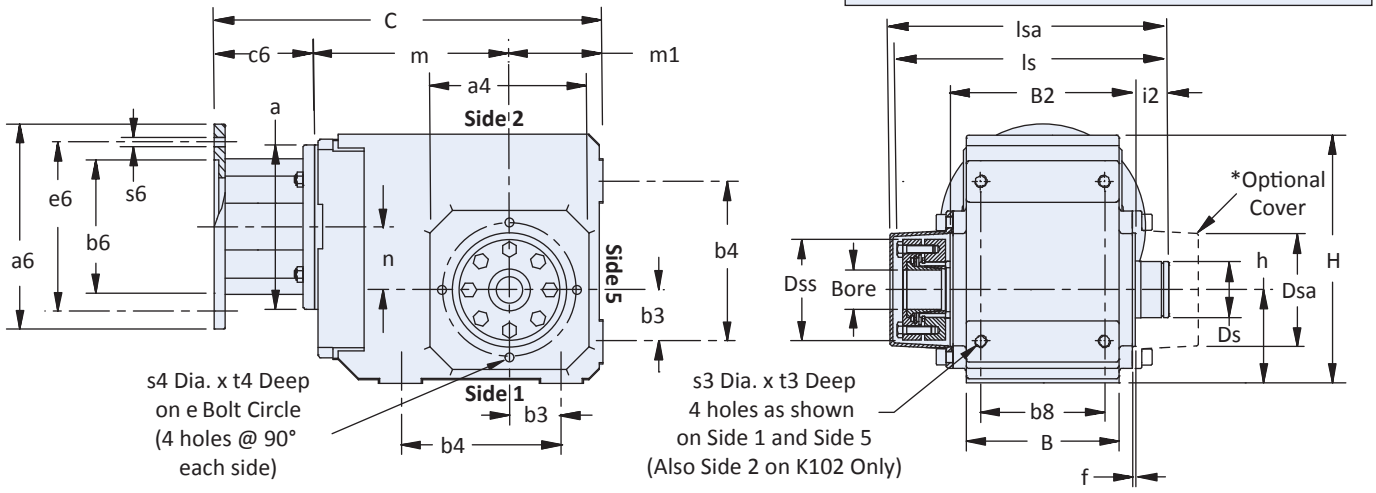
** Weight is base unit only. MR weight must be added separately.*

K Series with SINGLE "W" Wobble Free Bushing Output

"G" Pilot Circle Diameter (PCD) Tapped Holes

K102WG thru K403WG

** Optional output cover is not a standard part of the W-G configuration and must be ordered separately.*



K513WG thru K814WG

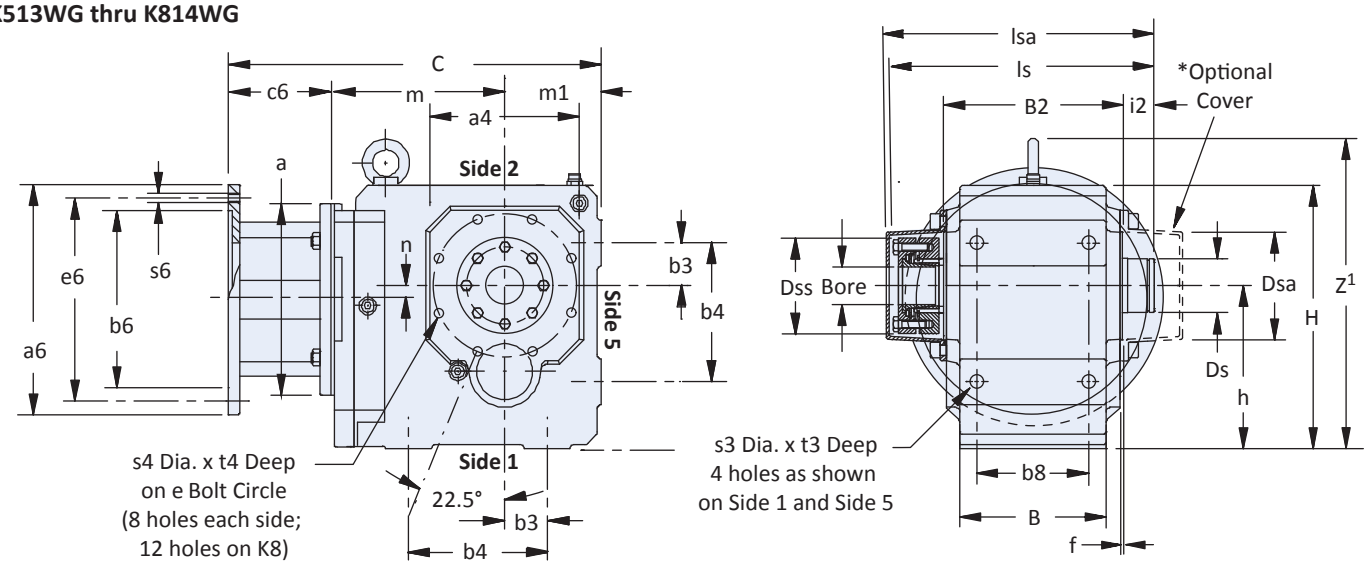


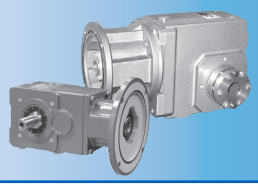
Table 4 Required Output Shaft Length*

Base Module	With Covers	Without Covers
K1	7.97	7.06
K2	9.23	8.32
K3	9.76	8.81
K4	11.42	10.26
K5	11.84	10.80
K6	12.98	11.81
K7	14.82	13.41
K8	17.60	16.20

**** Important:** A 1/32" x 45° chamfer minimum is recommended for the shaft end. The bushing will accept a shaft with a tolerance of +0.000/-0.005 in.*

Table 5 Motor Adapter Dimensions (Inches)

Motor Adapter	NEMA C-Flange	a	a6	b6	c6	e6	s6	Wt. lbs
MR140/050	56C	5.51	6.50	4.500	3.31	5.87	0.41	9
MR160/050 MR160/140	56C 143/145TC	6.30	6.50	4.500	3.86	5.87	0.41	16
MR200/180	182/184TC	7.87	9.00	8.500	4.80	7.25	0.55	23
MR250/180 MR250/210	182/184TC 213/215TC	9.84	9.00	8.500	5.31	7.25	0.55	36
MR300/180 MR300/210 MR300/250 MR300/280	182/184TC 213/215TC 254/256TC 284/286TC	11.81	9.00 9.00 9.00 11.13	8.500 8.500 8.500 10.500	6.50	7.25 7.25 7.25 9.00	0.57	75



Dimensional Data

Table 1 K Series Unit Dimensions (Inches) – "W" Single Side Wobble Free Bushing

Base Module	a4	B	B2	b3	b4	b8	Ds	Dsa	Dss	e	f
K1	4.13	3.54	4.17	1.18	3.54	2.76	1.54	3.07	2.76	3.54	0.12
K2	4.57	4.53	5.28	1.38	4.53	3.54	1.73	3.46	3.07	3.94	0.12
K3	5.20	5.12	5.75	1.57	5.12	4.13	1.93	3.78	3.31	4.53	0.14
K4	5.98	5.83	6.81	1.97	6.10	4.72	2.13	4.33	3.82	5.12	0.14
K5	5.71	6.30	7.28	1.57	5.51	4.92	2.56	4.53	4.13	5.12	0.14
K6	7.09	6.61	7.87	1.97	6.30	5.12	2.91	5.00	4.65	6.50	0.14
K7	7.68	7.48	8.90	2.17	7.09	5.71	3.35	5.75	5.43	7.28	0.14
K8	8.90	9.25	11.10	2.95	9.45	7.28	3.94	6.95	6.22	8.46	0.16

Table 2 K Series Unit Dimensions (Inches) – "W" Single Side Wobble Free Bushing

Base Module	H	h	i2	ls	lsa	m1	s3	s4	t3	t4	z[1]
K1	6.30	2.36	0.95	6.97	7.05	2.36	M8 x 1.25	M8 x 1.25	0.51	0.51	—
K2	7.48	2.57	1.02	8.23	8.46	2.56	M10 x 1.5	M8 x 1.25	0.63	0.51	—
K3	8.39	2.95	1.02	8.72	8.99	2.95	M10 x 1.5	M8 x 1.25	0.63	0.55	—
K4	9.45	3.54	1.14	10.22	10.49	3.54	M12 x 1.75	M10 x 1.5	0.75	0.63	—
K5	10.24	6.30	1.18	10.77	11.00	3.94	M16 x 2.0	M10 x 1.5	1.02	0.63	12.28
K6	12.20	7.48	1.38	11.46	11.73	4.72	M16 x 2.0	M10 x 1.5	1.02	0.63	14.25
K7	13.46	8.35	1.61	14.52	14.07	4.92	M20 x 2.5	M12 x 1.75	1.30	0.75	15.87
K8	16.14	10.43	2.03	16.59	16.92	5.71	M24 x 3.0	M12 x 1.75	1.50	0.75	18.54

Table 3 "WF" Single Side Bushings Stock Bore Sizes — Stainless Steel

NOTE: *Single side bushing kits include 1 each of the pressure and locking ring, tapered cone, support ring, and all hardware to mount the kit into the MGS reducer The WF1 bushing does not use a tapered cone. Covers are optional.*

Base	Imperial – Inches																Metric – mm
Module	1	1-3/16	1-1/4	1-3/8	1-7/16	1-1/2	1-5/8	1-11/16	1-3/4	1-7/8	1-15/16	2	2-3/16	2-3/8	2-7/16	2-3/4	40
K1	WF1-100	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
K2	WFK2-100	WFK2-103	WFK2-104	–	–	–	–	–	–	–	–	–	–	–	–	–	–
K3	WF3-100	WF3-103	WF3-104	WF3-106	WF3-107	WF3-108*	–	–	–	–	–	–	–	–	–	–	–
K4	–	–	WF4-104	–	WF4-107	WF4-108	–	–	–	–	–	–	–	–	–	–	WF4-40
K5	–	–	–	–	WF5-107	WF5-108	–	–	–	–	WF5-115	WF5-200	–	–	–	–	WF5-40
K6	–	–	–	–	WF6-107	WF6-108	–	–	–	–	WF6-115	WF6-200	WF6-203	–	–	–	–
K7	–	–	–	–	–	–	–	–	–	–	WF7-115	WF7-200	–	WF7-206	–	–	–
K8	–	–	–	–	–	–	–	–	–	–	–	–	WF8-203	WF8-206	WF8-207	WF8-212	–

**Base module size K3 is also available with a carbon steel single side 1-1/2" bushing PN SWF3-108*

Table 6 K Series Unit Dimensions (inches) — "MR" Motor Adapter

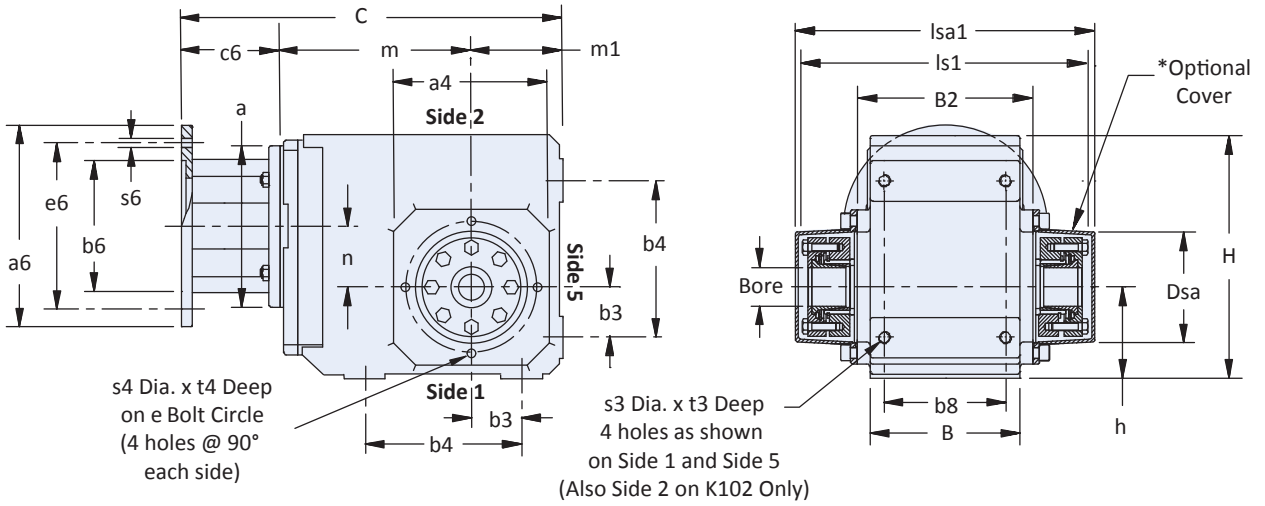
Base	MR140/050			MR160/050 MR160/140			MR200/180			MR250/180 MR250/210			MR300/180 MR300/210 MR300/250 MR300/280			MR350/320 MR350/360			Wt.
Module	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	lbs*
K102	10.55	4.88	1.42	11.26	5.04	1.42	—	—	—	—	—	—	—	—	—	—	—	—	31
K202	11.50	5.63	1.81	12.21	5.79	1.81	13.23	5.87	1.81	—	—	—	—	—	—	—	—	—	40
K203	12.96	7.09	1.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53
K302	12.68	6.42	2.07	13.38	6.57	2.07	14.40	6.65	2.07	—	—	—	—	—	—	—	—	—	67
K303	14.13	7.87	2.07	15.08	8.27	0.63	—	—	—	—	—	—	—	—	—	—	—	—	73
K402	—	—	—	14.76	7.36	2.36	15.74	7.44	2.36	16.41	7.56	2.36	—	—	—	—	—	—	93
K403	15.51	8.66	2.36	16.46	9.06	0.91	—	—	—	—	—	—	—	—	—	—	—	—	100
K513	—	—	—	14.57	6.77	0.59	15.59	6.85	0.59	16.22	6.97	0.59	—	—	—	—	—	—	106
K514	—	—	—	16.26	8.46	0.59	—	—	—	—	—	—	—	—	—	—	—	—	109
K613	—	—	—	16.10	7.52	0.71	17.12	7.60	0.71	17.75	7.72	0.71	19.49	8.27	0.71	—	—	—	170
K614	—	—	—	17.79	9.21	0.71	—	—	—	—	—	—	—	—	—	—	—	—	177
K713	—	—	—	—	—	—	18.42	8.70	0.79	19.05	8.82	0.79	20.75	9.33	0.79	—	—	—	221
K714	—	—	—	19.13	10.35	0.79	20.86	11.14	0.79	—	—	—	—	—	—	—	—	—	234
K813	—	—	—	—	—	—	20.23	9.72	0.94	20.82	9.80	0.94	22.52	10.31	0.94	—	—	—	309
K814	—	—	—	—	—	—	22.64	12.13	0.94	23.62	12.60	0.20	—	—	—	—	—	—	331

** Weight is base unit only. MR weight must be added separately.*

K Series with DOUBLE "W" Wobble Free Bushing Output

"G" Pilot Circle Diameter (PCD) Tapped Holes

K102WG thru K403WG



K513WG thru K814WG

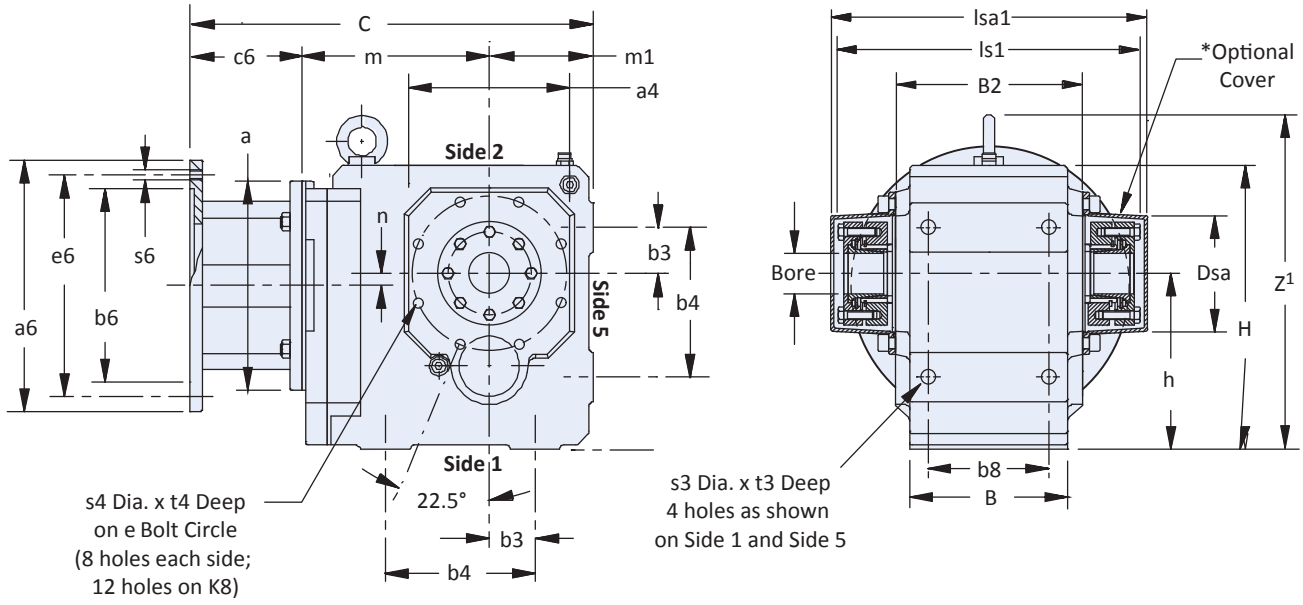


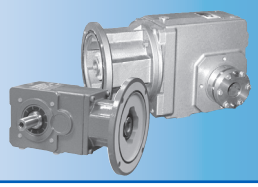
Table 4 Required Output Shaft Length*

Base Module	With Covers	Without Covers
K1	7.97	7.73
K2	9.23	8.99
K3	9.76	9.50
K4	11.42	11.11
K5	11.89	11.61
K6	12.99	12.75
K7	14.83	14.33
K8	17.60	17.29

***Important:** A 1/32" x 45° chamfer minimum is recommended for the shaft end. The bushing will accept a shaft with a tolerance of +0.000/-0.005 in.*

Table 5 Motor Adapter Dimensions (Inches)

Motor Adapter	NEMA C-Flange	a	a6	b6	c6	e6	s6	Wt. lbs
MR140/050	56C	5.51	6.50	4.500	3.31	5.87	0.41	9
MR160/050 MR160/140	56C 143/145TC	6.30	6.50	4.500	3.86	5.87	0.41	16
MR200/180	182/184TC	7.87	9.00	8.500	4.80	7.25	0.55	23
MR250/180 MR250/210	182/184TC 213/215TC	9.84	9.00	8.500	5.31	7.25	0.55	36
MR300/180 MR300/210 MR300/250 MR300/280	182/184TC 213/215TC 254/256TC 284/286TC	11.81	9.00 9.00 9.00 11.13	8.500 8.500 8.500 10.500	6.50	7.25 7.25 7.25 9.00	0.57	75



Dimensional Data

Table 1 K Series Unit Dimensions (Inches) – "W" Double Wobble Free Bushing

Base Module	a4	B	B2	b3	b4	b8	Dsa	e	H	h
K1	4.13	3.54	4.17	1.18	3.54	2.76	3.07	3.54	6.30	2.36
K2	4.57	4.53	5.28	1.38	4.53	3.54	3.46	3.94	7.48	2.56
K3	5.20	5.12	5.75	1.57	5.12	4.13	3.78	4.53	8.39	2.95
K4	5.98	5.83	6.81	1.97	6.10	4.72	4.33	5.12	9.45	3.54
K5	5.71	6.30	7.28	1.57	5.51	4.92	4.54	5.12	10.24	6.30
K6	7.09	6.61	7.87	1.97	6.30	5.12	5.00	6.50	12.20	7.48
K7	7.68	7.48	8.90	2.17	7.09	5.71	5.75	7.28	13.46	8.35
K8	8.90	9.25	11.10	2.95	9.45	7.28	6.95	8.46	16.14	10.43

Table 2 K Series Unit Dimensions (Inches) – "W" Double Wobble Free Bushing

Base Module	ls1	lsa1	L	m1	s3	s4	t3	t4	z[1]
K1	7.64	7.80	3.66	2.36	M8 x 1.25	M8 x 1.25	0.51	0.51	—
K2	8.90	9.36	4.26	2.56	M10 x 1.5	M8 x 1.25	0.63	0.51	—
K3	9.41	9.95	4.54	2.95	M10 x 1.5	M8 x 1.25	0.63	0.55	—
K4	11.06	11.60	5.33	3.54	M12 x 1.75	M10 x 1.5	0.75	0.63	—
K5	11.63	12.09	5.61	3.94	M16 x 2.0	M10 x 1.5	1.02	0.63	12.28
K6	12.68	13.22	6.10	4.72	M16 x 2.0	M10 x 1.5	1.02	0.63	14.25
K7	15.06	15.36	7.29	4.92	M20 x 2.5	M12 x 1.75	1.30	0.75	15.87
K8	18.02	18.68	8.70	5.71	M24 x 3.0	M12 x 1.75	1.50	0.75	18.54

Table 3 "WFB" Double Side Bushings Stock Bore Sizes — Stainless Steel

NOTE: *A double side bushing kit includes 2 each of a pressure ring and clamp ring, flanged and tapered cone, and all hardware to mount the kit into the reducer. The WFB1 does not use a tapered cone. All double bushing kits include covers.*

Base	Imperial – Inches																Metric – mm
Module	1	1-3/16	1-1/4	1-3/8	1-7/16	1-1/2	1-5/8	1-11/16	1-3/4	1-7/8	1-15/16	2	2-3/16	2-3/8	2-7/16	2-3/4	40
K1	WFB1-100	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
K2	WFBK2-100	WFBK2-103	WFBK2-104	–	–	–	–	–	–	–	–	–	–	–	–	–	–
K3	WFB3-100	WFB3-103	WFB3-104	WFB3-106	WFB3-107	WFB3-108*	–	–	–	–	–	–	–	–	–	–	–
K4	–	–	WFB4-104	–	WFB4-107	WFB4-108	–	–	–	–	–	–	–	–	–	–	WFB4-40
K5	–	–	–	–	WFB5-107	WFB5-108	–	–	–	–	WFB5-115	WFB5-200	–	–	–	–	WFB5-40
K6	–	–	–	–	WFB6-107	WFB6-108	–	–	–	–	WFB6-115	WFB6-200	WFB6-203	–	–	–	–
K7	–	–	–	–	–	–	–	–	–	–	WFB7-115	WFB7-200	–	WFB7-206	–	–	–
K8	–	–	–	–	–	–	–	–	–	–	–	–	WFB8-203	WFB8-206	WFB8-207	WFB8-212	–

**Base module size K3 is also available with a carbon steel double side 1-1/2" bushing PN SWF3C-108*

Table 6 K Series Unit Dimensions (inches) — "MR" Motor Adapter

Base	MR140/050			MR160/050 MR160/140			MR200/180			MR250/180 MR250/210			MR300/180 MR300/210 MR300/250 MR300/280			MR350/320 MR350/360			Wt.
Module	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	C	m	n	lbs*
K102	10.55	4.88	1.42	11.26	5.04	1.42	—	—	—	—	—	—	—	—	—	—	—	—	31
K202	11.50	5.63	1.81	12.21	5.79	1.81	13.23	5.87	1.81	—	—	—	—	—	—	—	—	—	40
K203	12.96	7.09	1.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53
K302	12.68	6.42	2.07	13.38	6.57	2.07	14.40	6.65	2.07	—	—	—	—	—	—	—	—	—	67
K303	14.13	7.87	2.07	15.08	8.27	0.63	—	—	—	—	—	—	—	—	—	—	—	—	73
K402	—	—	—	14.76	7.36	2.36	15.74	7.44	2.36	16.41	7.56	2.36	—	—	—	—	—	—	93
K403	15.51	8.66	2.36	16.46	9.06	0.91	—	—	—	—	—	—	—	—	—	—	—	—	100
K513	—	—	—	14.57	6.77	0.59	15.59	6.85	0.59	16.22	6.97	0.59	—	—	—	—	—	—	106
K514	—	—	—	16.26	8.46	0.59	—	—	—	—	—	—	—	—	—	—	—	—	109
K613	—	—	—	16.10	7.52	0.71	17.12	7.60	0.71	17.75	7.72	0.71	19.49	8.27	0.71	—	—	—	170
K614	—	—	—	17.79	9.21	0.71	—	—	—	—	—	—	—	—	—	—	—	—	177
K713	—	—	—	—	—	—	18.42	8.70	0.79	19.05	8.82	0.79	20.75	9.33	0.79	—	—	—	221
K714	—	—	—	19.13	10.35	0.79	20.86	11.14	0.79	—	—	—	—	—	—	—	—	—	234
K813	—	—	—	—	—	—	20.23	9.72	0.94	20.82	9.80	0.94	22.52	10.31	0.94	—	—	—	309
K814	—	—	—	—	—	—	22.64	12.13	0.94	23.62	12.60	0.20	—	—	—	—	—	—	331

** Weight is base unit only. MR weight must be added separately.*

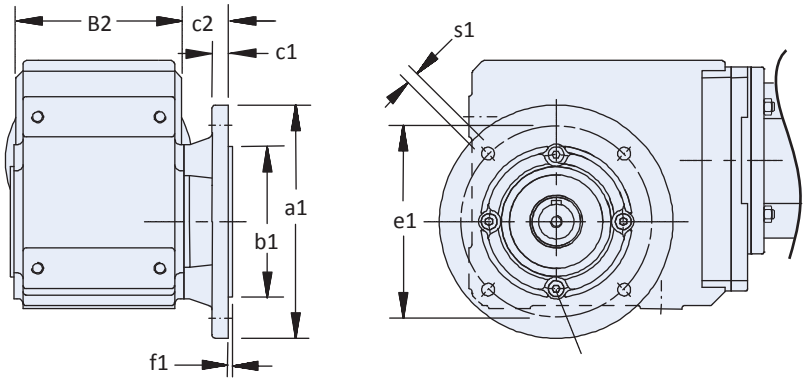
Optional "F" Round Flange Housing

"AF" Hollow Output with Flange Housing
"VF" Shaft Output with Flange Housing

AF units shown.

See page 74 for complete AF dimensions
See page 78 for complete VF dimensions

K102_F thru K403_F



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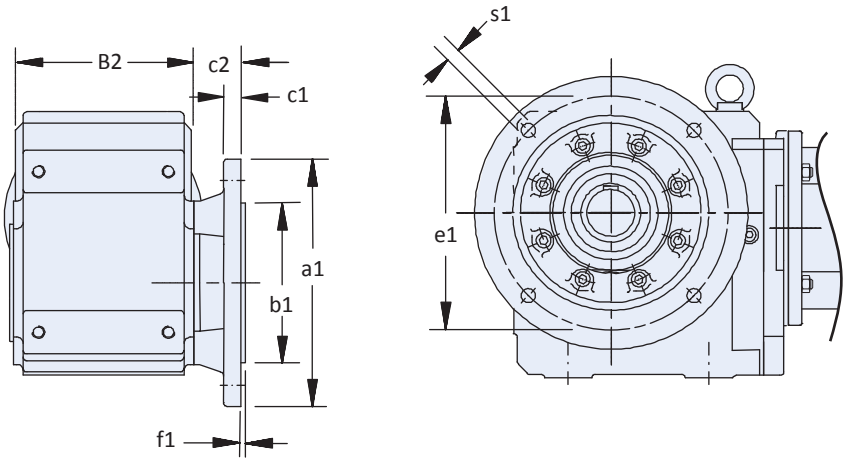

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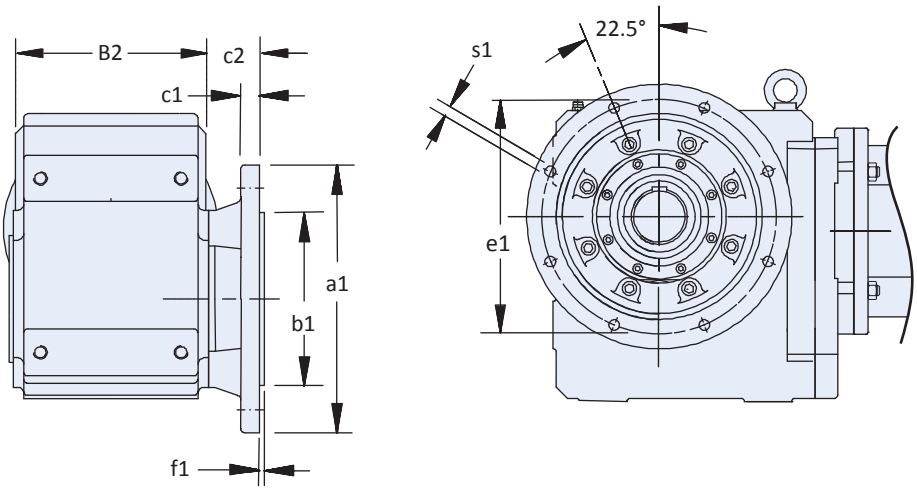

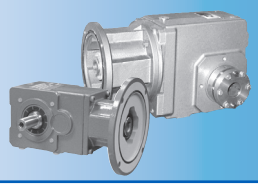

Table 1 Flange Dimensions (Inches) – Standard and Optional

Base Module	Flange Size	a1	b1		B2	c1	c2	e1	f1	s1
K1	140	5.512	3.740	+0.001/-0.0004	4.17	0.39	1.26	4.53	0.12	0.35
	160*	6.300	4.331	+0.001/-0.0004				5.12	0.14	
K2	160	6.300	4.331	+0.001/-0.0004	5.28	0.47	1.26	5.12	0.14	0.35
	200*	7.874	5.118	+0.001/-0.0004				6.50		0.43
K3	160	6.300	4.331	+0.001/-0.0004	5.75	0.55	1.50	5.12	0.14	0.35
	200*	7.874	5.118	+0.001/-0.0004				6.50		0.43
	250	9.843	7.087	+0.001/-0.0004				8.46	0.16	0.55
K4	250*	9.843	7.087	+0.001/-0.0004	6.81	0.59	1.57	8.46	0.16	0.55
K5	250*	9.843	7.087	+0.001/-0.0004	7.28	0.59	1.56	8.46	0.16	0.55
K6	300*	11.811	9.055	+0.001/-0.001	7.87	0.67	1.42	10.43	0.16	0.55
K7	300	11.811	9.055	+0.001/-0.001	8.90	0.71	1.73	10.43	0.20	0.55
	350*	13.780	9.842	+0.000/-0.001				11.81		0.71
K8	350	13.780	9.842	+0.000/-0.001	11.10	0.79	1.77	11.81	0.20	0.71
	400*	15.748	11.811	+0.000/-0.001				13.78		
	450	17.717	13.781	+0.000/-0.001				15.75		
K9	450*	17.717	13.780	+0.000/-0.001	12.99	0.91	1.97	15.75	0.20	0.71
K10	550*	21.654	17.717	+0.000/-0.002	14.02	0.98	3.07	19.69	0.20	0.71

** This is the standard flange and will be shipped unless otherwise specified. Optional flanges are not available for all sizes.*