Stainless Steel

Industrial Gear Drives

Stainless Steel

Industrial Gear Drives For Extreme Washdowns

GROVE GEAR Industrial Gear Drives offer superior corrosion protection. They are rust proof and able to withstand the harshest conditions (See our Chemical Reaction Chart, right).

Our stainless steel housing, cover and external hardware offer an exceptional long life. Plus, each reducer comes with synthetic oil, eliminating the need for oil changes. Take advantage of these benefits and more when you purchase our heavy duty Stainless Steel Reducers!

Class I Service • 1.0 Service Factor

Output		Unit Sizes by Input HP								
Ratio	Speed	1/4	1/2	3/4	1	1-1/2	2	3	5	7-1/2
5:1	350	213	213	213	213	215	224	224	232	232
10:1	175	213	213	215	215	224	224	224	232	
20:1	87.5	213	215	224	224	224	232	232		
30:1	58.3	213	224	224	224	232	232	232		
40:1	43.8	213	224	224	224	232	232			
50:1	35.0	215	224	224	232	232				
60:1	29.2	215	224	232	232	232				
100:1	17.5	215	224	232	232	232				
200:1	8.75	224	232	232	232					
300:1	5.83	224	232	232						
400:1	4.38	232	232							
500:1	3.50	232	232							
1000:1	1.75	232								

Stainless Steel **meets the challenge where Aluminum and Cast Iron Fail.**

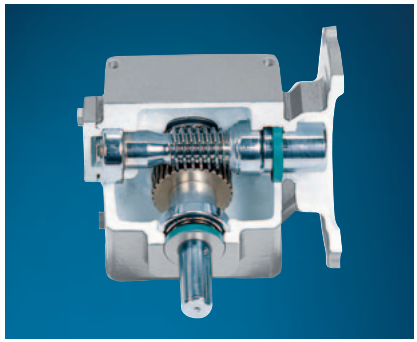
Stainless Steel Chemical Reactions

Reaction Level	None	Minor	Moderate	Severe
Of Material to Chemical	0	1	2	3

Chemical	316 Stainless	Aluminum	Cast Iron
Ammonia Anhydrous	0	1	3
Ammonia, Liquids	0	3	2
Ammonium Carbonate	0	2	2
Arsenic Acid	0	3	3
Barium Sulfate/Sulfide	0	3	2
Beer	0	0	3
Butyl Alcohol	0	1	2
Calcium Carbonate	0	2	3
Catsup	0	3	3
Chlorine (Dry)	0	2	0
Ferrous Sulfate	2	3	3
Formaldehyde	0	0	3
Formic Acid	1	1	3
Fruit Juice	0	1	3
Hydrogen Sulfide (Dry)	0	3	1
Ink	0	2	3
Lead Acetate	0	3	—
Magnesium Chloride	1	3	3
Mayonnaise	0	3	3
Mustard	0	3	3
Nickel Sulfate	0	3	3
Nitric Acid (10%)	0	3	3
Potassium Bromide	0	2	3
Potassium Hydroxide (50%)	1	3	2
Silver Nitrate	1	3	3
Soap Solutions	0	2	1
Sodium Bisulfate	0	3	3
Sodium Carbonate	1	2	2
Sodium Peroxide	0	2	3
Sodium Sulfide	1	2	0
Tannic Acid	0	2	2
Turpentine	0	2	1
Vinegar	0	3	2
Wines & Whiskey	0	3	3
Zinc Hydrosulfate	0	3	2
Zinc Sulfate	0	3	2

GROVE GEAR

Corrosion Protection

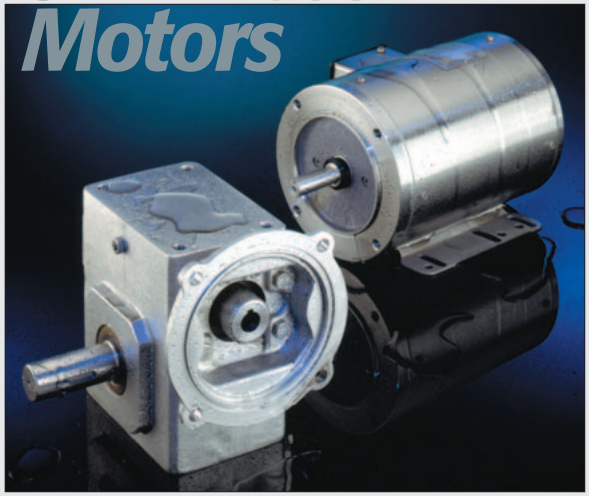


Features & Benefits

- Our 316 cast iron **stainless steel** housing and covers eliminate rusting and paint peeling.
- Internal Pressure Compensation System keeps pressure down, oil in the box, and contaminants out!
- Our drives come lubed for life with synthetic lubrication, eliminating oil changes.
- O-rings on input/output covers provide positive, hassle-free sealing.
- Non-compressible **stainless steel** shims maintain factory settings and gear alignment.
- Double-lip, **stainless steel** case Viton® seals offer superior performance in hot/harsh environments.
- 303 **stainless steel** output shaft for long, rust resistant life.
- **Stainless steel** bolts and plugs eliminate rusting.
- Worms cut, heat-treated, ground and polished to provide efficient, quiet operation.
- **Stainless steel** nameplate is drive screwed to housing.
- All units 100% run and leak tested at the factory to insure you receive the highest quality product.

No Rust • Heavy Washdown Duty • Lubed For Life

Stainless Motors



Stainless Steel Industrial Motors Also Available

For more information, contact us at:

GROVE GEAR

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www.grovegear.com • sales@grovegear.com

2058G/2500/07-01/UL/JS/JL

Dimensions

Style BM
213 • 215

Style BMQ
213 • 215 • 224 • 232

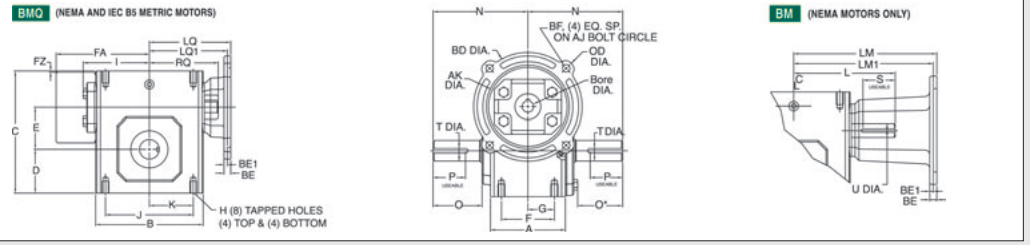
Style HMQ
224 • 232

Style DM
224 • 232

Style DMQ
224 • 232

Style DHMQ
224 • 232

Styles BM • BMQ



UNIT	A	B	C	D	E	F	FA	FZ	G	H	(Depth)	I	J	K	L	M	N	O	O*	P**	S**	T Dia.
213	2.82	3.80	4.66	1.72	1.333	2.00	N/A	N/A	1.00	5/16-18	(.50)	2.61	3.25	1.63	3.82	1.76	4.00	2.16	1.94	3/16 x 1.50	1/8 x 1.44	.625
215	3.44	4.88	5.38	1.91	1.540	2.75	N/A	N/A	1.38	5/16-18	(.63)	3.14	4.19	2.09	3.82	1.76	4.31	2.11	1.90	3/16 x 1.50	1/8 x 1.44	.750
224	4.06	6.12	6.94	2.50	2.375	2.88	N/A	N/A	1.44	3/8-16	(.69)	3.77	5.00	2.50	3.82	1.76	5.14	2.66	2.44	1/4 x 1.75	1/8 x 1.44	1.125
232	5.75	8.50	9.38	3.50	3.250	4.00	N/A	N/A	2.00	7/16-14	(.88)	5.02	7.50	3.75	4.35	1.76	7.06	3.66	3.42	3/8 X 2.62	3/16 x 1.50	1.500

NEMA
Motor Data

NEMA Motor Mounting Dimensions

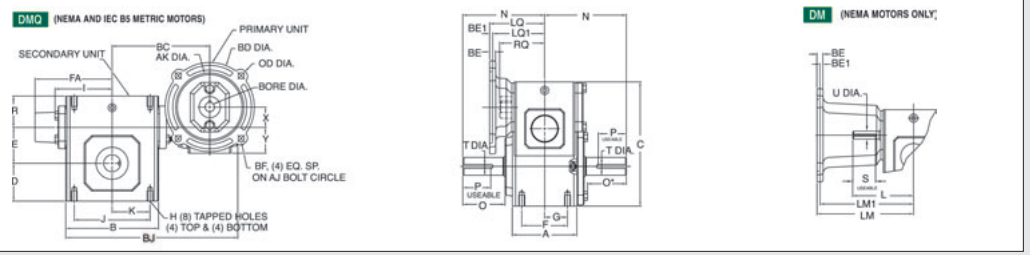
Frame	AJ	AK	BD	OD	BE	BE1	Bore	KWY.**	BF
56C	5.88	4.50	5.88	6.64	.38	N/A	.625	3/16 x 3/32	.41
140TC	5.88	4.50	5.88	6.64	.38	N/A	.875	3/16 x 3/32	.41
180TC	7.25	8.50	9.00	N/A	N/A	.50	1.125	1/4 x 1/8	.53
210TC	7.25	8.50	9.00	N/A	N/A	.50	1.375	5/16 x 5/32	.53

***keyway width by depth*

NEMA Motor Flange Face Locations

	56C/140TC			180TC		210TC	
Unit	LM	RQ	LQ	RQ	LQ1	RQ	LQ1
213	6.07	3.09	3.46				
215	6.60	3.62	3.99				
224		4.09	4.63	4.56	5.06		
232		5.51	5.88	5.81	6.31	16.25	6.75

Styles DM • DMQ



UNIT	A	B	BC	BJ	C	D	E	F	FA	G	H	(Depth)	I	J	K	N	O	O*	P**	R	S**	T Dia.
224	4.06	6.12	6.44	11.35	7.81	2.50	2.375	2.88	N/A	1.44	3/8-16	(.56)	3.77	5.00	2.50	5.14	2.66	2.44	1/4 x 1.75	2.06	1/8 x 1.44	1.125
232	5.75	8.50	8.05	14.50	10.22	3.50	3.250	4.00	N/A	2.00	7/16-14	(.88)	5.02	7.50	3.75	7.06	3.66	3.42	3/8 x 2.62	2.63	3/16 x 1.50	1.500

UNIT	X	Y	Z
224	1.333	1.72	4.66
232	1.540	1.19	5.38

NEMA
Motor Data

NEMA Motor Mounting Dimensions

Frame	AJ	AK	BD	OD	BE	BE1	Bore	KWY.**	BF
56C	5.88	4.50	5.88	6.64	.38	N/A	.625	3/16 x 3/32	.41
140TC	5.88	4.50	5.88	6.64	.38	N/A	.875	3/16 x 3/32	.41

***keyway width by depth*

NEMA Motor Flange Face Locations

	56C/140TC		
Unit	LM	RQ	LQ
224	6.07	3.09	3.46
232	6.60	3.62	3.99