

GROVE GEAR

Ratio Multipliers



A Regal Brand

REGAL

Driven to be the Best

Ratio Multipliers

Dual purpose design can be used as a stand alone single reduction inline reducer or as a bolt-on to the input of any c-faced gear reducer to multiply overall reduction ratio.

Stainless Steel Ratio Multipliers

Stainless steel ratio multipliers provide superior resistance to corrosion in critical and harsh environments.

Specifications

- Available with ratings to 4.7 HP
- Ratios from 2:1 to 7.5:1

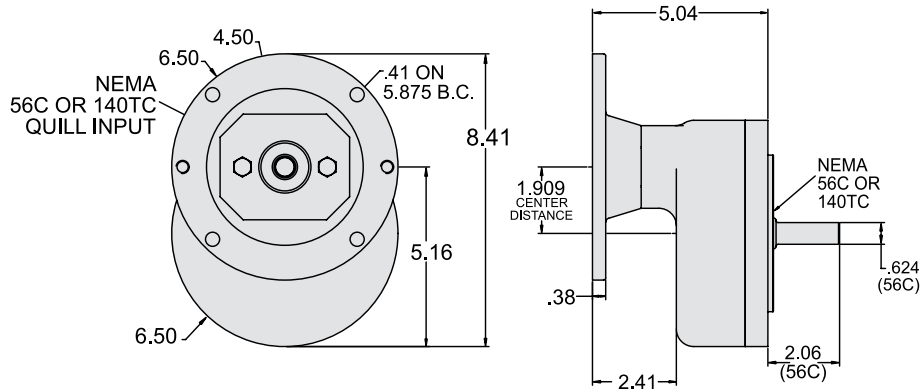
Standard Features

- 316 stainless steel housing
- Factory-filled with premium Mobil Glygoyle 460 polyalkalene glycol lubricant – USDA Class H1 approved
- Viton® double lip seals provide extended life through increased resistance to high temperature, abrasion and chemicals
- C Flange or solid input styles available
- 56C - 140TC input/output
- Helical gearing to optimize system efficiency





Stainless TX – Style TXMQ



Dimensions (inches)

Style	Frame Combinations (Input - Output)	AJ	AK	BD	OD	BE	BE1	BF	Input Bore	Input Keyway**	Weight (lbs)
TXMQ	56C	5.88	4.50	5.88	6.64	0.38	N/A	0.41	0.625	3/16 x 3/32	22
	140TC	5.88	4.50	5.88	6.64	0.38	N/A	0.41	0.875	3/16 x 3/32	22

**keyway width by depth

Available Selections

Exact Ratio	Motor C-Flange	Output C-Flange	Catalog Number
2.929	56C	56C	707702
	56C	140TC	707707
4.000	56C	56C	707703
	56C	140TC	707708
	140TC	56C	707713
5.111	140TC	140TC	707718
	56C	56C	707704
	56C	140TC	707709
	140TC	56C	707714
7.461	140TC	140TC	707719
	56C	56C	707705
	56C	140TC	707710
	140TC	56C	707715
	140TC	140TC	707720

Cast Iron Ratio Multipliers

TX3

Standard Features

- Cast iron housing
- Factory-filled with premium Mobil Glygoyle 460 polyalkalene glycol lubricant – USDA Class H1 approved
- Viton® double lip seals provide extended life through increased resistance to high temperature, abrasion and chemicals
- C Flange or solid input styles available
- 180TC to 210TC input/output
- Helical gearing to optimize system efficiency



Specifications

- Available with ratings to 20 HP
- Ratios from 2:1 to 7.5:1

Aluminum Ratio Multipliers

Aluminum ratio multipliers are lightweight and a paint-free alternative to cast iron options.

TX

Standard Features

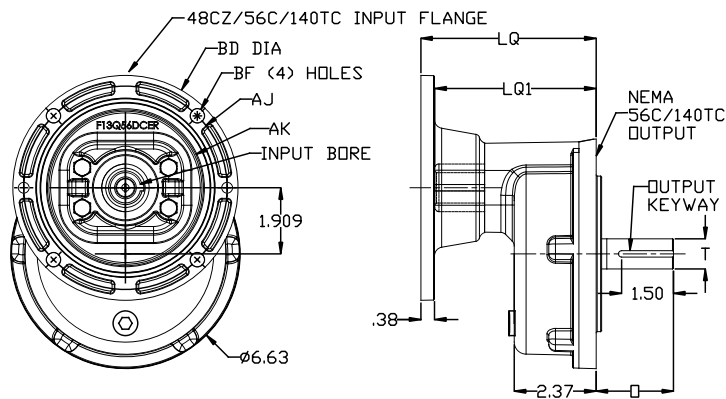
- Aluminum housing
- Factory-filled with premium Mobil Glygoyle 460 polyalkalene glycol lubricant – USDA Class H1 approved
- Viton® double lip seals provide extended life through increased resistance to high temperature, abrasion and chemicals
- C Flange or solid input styles available
- 48C, 56C, 140TC input and 56C/140TC output
- Helical gearing to optimize system efficiency
- EL and GR painted style available



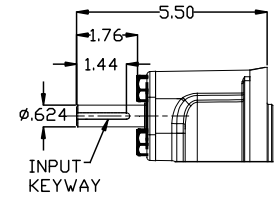
Specifications

- Available with ratings to 6 HP
- Ratios from 2:1 to 7.2:1.

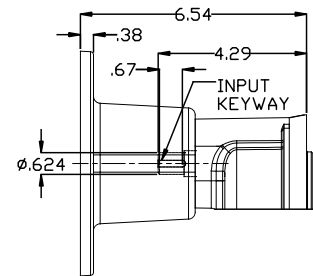
Style TXMQ



Style TX



Style TXM



Dimensions (inches)

Style	Frame Combinations (Input - Output)	AJ	AK	BD	BF	LQ	LQ1	Input Bore Dia.	O	T	Input Keyway	Output Keyway
TXMQ, TXM, TX	48CZ-56C	3.75	3.00	4.21	0.28	4.80	4.41	0.500	2.06	0.625	1/8 x 1/16	3/16 x 3/32
	56C-56C	5.88	4.50	6.64	0.41	5.06	4.67	0.625	2.06	0.625	3/16 x 3/32	3/16 x 3/32
	56C-140TC	5.88	4.50	6.64	0.41	5.06	4.67	0.625	2.13	0.875	3/16 x 3/32	3/16 x 3/32
	140TC-56C	5.88	4.50	6.64	0.41	5.06	4.67	0.875	2.06	0.625	3/16 x 3/32	3/16 x 3/32
	140TC-140TC	5.88	4.50	6.64	0.41	5.06	4.67	0.875	2.13	0.875	3/16 x 3/32	3/16 x 3/32

Available Selections

Exact Ratio	Style	Motor C-Flange	Output C-Flange	Painted* Catalog No.	Unpainted Catalog No.
2.000	TXMQ	48CZ	56C	708200L	EL708200
		56C	56C	708201L	EL708201
		56C	143-5TC	708202L	EL708202
		143-5TC	56C	708203L	EL708203
		143-5TC	143-5TC	708204L	EL708204
	TXM	56C	56C	708205L	EL708205
		56C	143-5TC	708206L	EL708206
		143-5TC	56C	708207L	EL708207
		143-5TC	143-5TC	708208L	EL708208
	TX	-	56C	708209L	EL708209
		-	140TC	708210L	EL708210
2.913	TXMQ	48CZ	56C	708211L	EL708211
		56C	56C	708212L	EL708212
		56C	143-5TC	708213L	EL708213
		143-5TC	56C	708214L	EL708214
		143-5TC	143-5TC	708215L	EL708215
	TXM	56C	56C	708216L	EL708216
		56C	143-5TC	708217L	EL708217
		143-5TC	56C	708218L	EL708218
		143-5TC	143-5TC	708219L	EL708219
	TX	-	56C	708220L	EL708220
		-	140TC	708221L	EL708221
4.000	TXMQ	48CZ	56C	708222L	EL708222
		56C	56C	708223L	EL708223
		56C	143-5TC	708224L	EL708224
		143-5TC	56C	708225L	EL708225
		143-5TC	143-5TC	708226L	EL708226
	TXM	56C	56C	708227L	EL708227
		56C	143-5TC	708228L	EL708228
		143-5TC	56C	708229L	EL708229
		143-5TC	143-5TC	708230L	EL708230
	TX	-	56C	708231L	EL708231
		-	140TC	708232L	EL708232
	TXMQ	48CZ	56C	708233L	EL708233
		56C	56C	708234L	EL708234
		56C	143-5TC	708235L	EL708235
		143-5TC	56C	708236L	EL708236
5.000	TXMQ	143-5TC	143-5TC	708237L	EL708237
	TXM	56C	56C	708238L	EL708238
		56C	143-5TC	708239L	EL708239
		143-5TC	56C	708240L	EL708240
		143-5TC	143-5TC	708241L	EL708241
	TX	-	56C	708242L	EL708242
		-	140TC	708243L	EL708243
7.182	TXMQ	48CZ	56C	708244L	EL708244
		56C	56C	708245L	EL708245
		56C	143-5TC	708246L	EL708246
		143-5TC	56C	708247L	EL708247
		143-5TC	143-5TC	708248L	EL708248
	TXM	56C	56C	708249L	EL708249
		56C	143-5TC	708250L	EL708250
		143-5TC	56C	708251L	EL708251
		143-5TC	143-5TC	708252L	EL708252
	TX	-	56C	708253L	EL708253
		-	140TC	708254L	EL708254

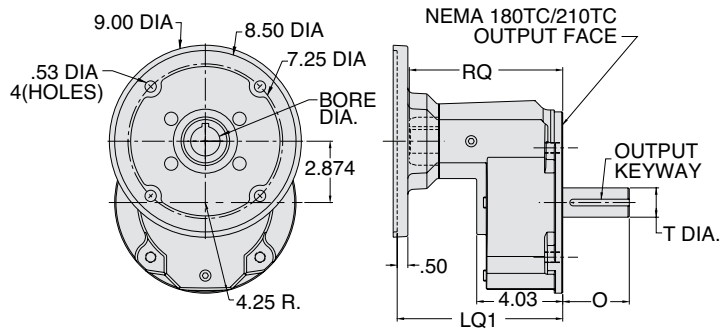
* Standard Grove Gear blue paint

Dimensions

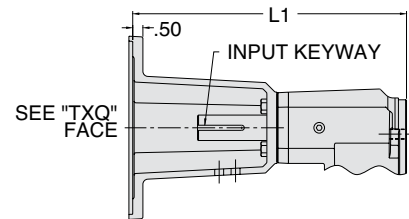


Cast Iron Size 3 – Style TX3

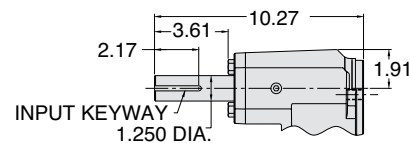
Style TXMQ



Style TXM



Style TX



Dimensions (inches)

Style	Frame Combinations (Input - Output)	Input Bore	L1	LQ1	O	RQ	T +0.000 -0.0015	Input Keyway*	Output Keyway*	Weight (lbs.)
TXMQ, TXM, TX	180TC - 180TC	1.125	13.45	7.76	2.62	7.25	1.125	.250 x .125	.250 x .125 x 1.80	45
	210TC - 180TC	1.375	13.45	7.76	2.62	7.25	1.125	.312 x .156**	.250 x .125 x 1.80	45
	250TC - 180TC	1.625	14.01	8.32	2.62	7.65	1.125	.375 x .188**	.250 x .125 x 1.80	45
	180TC - 210TC	1.125	13.45	7.76	3.12	7.25	1.375	.250 x .125	.312 x .156 x 2.63	45
	210TC - 210TC	1.375	13.45	7.76	3.12	7.25	1.375	.312 x .156**	.312 x .156 x 2.63	45
	250TC - 210TC	1.625	14.01	8.32	3.12	7.65	1.375	.375 x .188**	.312 x .156 x 2.63	45

* Keyway width by depth

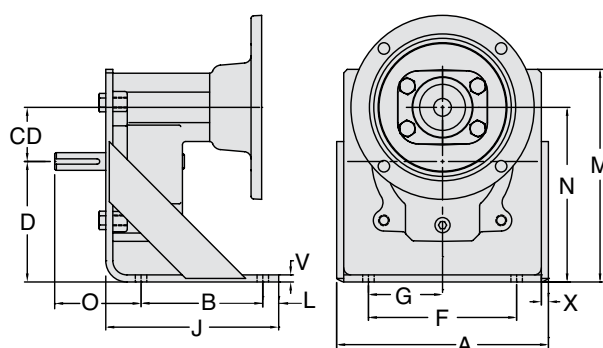
** Input keyway for styles TXM & TX is .250 x .125

Available Selections

Exact Ratio	Style	Motor C-Flange	Output C-Flange	Catalog Number
2.000	TXMQ	182-4TC	182-4TC	707060L
		182-4TC	213-5TC	707061L
		213-5TC	213-5TC	707064L
		254-6TC	213-5TC	707067L
	TXM	182-4TC	182-4TC	707090L
		213-5TC	213-5TC	707094L
		254-6TC	213-5TC	707097L
	TX	--	213-5TC	707121L
2.964	TXMQ	182-4TC	182-4TC	707069L
		182-4TC	213-5TC	707070L
		213-5TC	182-4TC	707072L
		213-5TC	213-5TC	707073L
	TXM	182-4TC	182-4TC	707099L
		182-4TC	213-5TC	707100L
		213-5TC	182-4TC	707102L
		213-5TC	213-5TC	707103L
	TX	--	182-4TC	707123L
		--	213-5TC	707124L

Exact Ratio	Style	Motor C-Flange	Output C-Flange	Catalog Number
4.045	TXMQ	182-4TC	182-4TC	707075L
		182-4TC	213-5TC	707076L
		213-5TC	182-4TC	707078L
		213-5TC	213-5TC	707079L
		182-4TC	182-4TC	707105L
	TXM	182-4TC	213-5TC	707106L
		213-5TC	182-4TC	707108L
		213-5TC	213-5TC	707109L
	TX	--	182-4TC	707126L
		--	213-5TC	707127L
5.167	TXMQ	182-4TC	182-4TC	707081L
		182-4TC	213-5TC	707082L
		213-5TC	182-4TC	707084L
		213-5TC	213-5TC	707085L
	TXM	182-4TC	182-4TC	707111L
		182-4TC	213-5TC	707112L
		213-5TC	182-4TC	707114L
		213-5TC	213-5TC	707115L
	TX	--	182-4TC	707129L
		--	213-5TC	707130L
7.538	TXMQ	182-4TC	182-4TC	707087L
	TXM	182-4TC	182-4TC	707117L
	TX	--	182-4TC	707132L

Ratio Multiplier Foot Kit for Styles TBX, TBXM, TBXMQ



Dimensions (inches)

Size	Output	A	B	CD	D	F	G	H	J	X	L	M	N	O	V	X	Catalog Number	Weight (lbs)
TX	56C	7.50	4.31	1.909	4.250	5.25	2.63	0.41	6.13	0.25	0.56	7.50	6.16	3.06	.25	.25	G185655	2.0
	140TC	7.50	4.31	1.909	4.250	5.25	2.63	0.41	6.13	0.25	0.56	7.50	6.16	3.12	.25	.25		
TX3	180TC	9.50	5.25	2.874	5.000	7.00	3.50	0.53	7.38	0.25	0.63	9.44	7.88	3.88	.25	.25	G185657	3.0
	210TC	9.50	5.25	2.874	5.000	7.00	3.50	0.53	7.38	0.25	0.63	9.44	7.88	4.38	.25	.25		
	250TC	9.50	5.25	2.874	5.000	7.00	3.50	0.53	7.38	0.25	0.63	9.44	7.88	5.00	.25	.25		

NOTE: Foot kit is painted steel construction.

Maximum Rating Tables

Stainless TX

Exact Ratio	Input RPM	Output RPM	Input HP	Output HP	Output TQ. (lb-in.)	Overhung Load (lbs.)
2.056	1750	851	4.69	4.55	347	222
2.929	1750	598	3.64	3.53	384	265
4.000	1750	438	2.91	2.82	419	300
5.111	1750	342	2.33	2.26	428	300
7.462	1750	235	1.56	1.52	419	300

TX

Exact Ratio	Input RPM	Output RPM	Input HP	Output HP	Output TQ. (lb-in.)	Overhung Load 56C Output (lbs.)	Overhung Load 140TC Output (lbs.)
2.000	1750	875	6.00	5.88	424	358	358
2.913	1750	601	4.21	4.13	433	375	434
4.000	1750	438	3.63	3.55	511	375	455
5.000	1750	350	3.00	2.94	529	375	455
7.182	1750	244	2.62	2.57	664	375	455

TX3

Exact Ratio	Input RPM	Output RPM	Input HP	Output HP	Output TQ. (lb-in.)	Overhung Load (lbs.)
2.000	1750	875	20.00	19.6	1412	900
2.964	1750	590	12.98	12.72	1357	900
4.045	1750	433	11.35	11.13	1621	900
5.167	1750	339	10.07	9.87	1836	900
7.538	1750	232	5.80	5.69	1544	900

GROVE GEAR

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