MODEL NUMBER SYSTEM

GR • NH • EL SERIES

800 Series Gear Reducer Model Number Nomenclature

All new stock and custom 800 Series Grove Gear and Electra-Gear worm gear reducers are identified by a model number. The model number appears on the nameplate and describes pertinent features of the reducer. An example follows, along with a listing of the various letters and positions used.

NOTE: All reducers also have a catalog number—for example EL8130001 and GR8130001. Reducers and renewal parts should be ordered by catalog number. If a stock reducer has been Factory modified by the addition of an optional base for example, the modification number T818EL is stamped in the blank column of the nameplate. Accessories that are field installed will not be noted on the nameplate.

Catalog numbers 3000 and higher (for example, GR8133000 and NH8133000) are WASHGUARD® reducers for washdown service.

Catalog numbers 5000 and higher (for example, GR8135000 and EL8135000) are custom reducers manufactured for a specific application. The machinery or equipment manufacturer should be contacted for replacement reducers. Renewal parts can be ordered by catalog number.

TYPICAL NAMEPLATE

(Electra-Gear shown)



							C	Output
<u>Seri</u>	<u>es Code</u> <u>Style</u> <u>S</u>	<u>ize</u> R	atio (Output Shaft O	<u>rientation</u>	Motor I	<u> Iange Bo</u>	re Code
	I			1				V
	1		₩				Ho	ollow Shaft
	SOLID OUTPUT SHAFT	See Select	ion Tables	L – Left-hand Ou	•			Only
	BMQ – Motorized, Quill Input	on pages 2		R – Right-hand C	Output Shaft*			ee bottom
	BM – Motorized, Flexible	all availabl	le ratios.	D – Double Outpr	ut Shaft			right hand
	Coupling Input			H - Hollow Outpu	ıt Shaft			pages of ax Ratings
	B – Non-Flanged			* Viewed from drive en	d of reducer.			bles starting
	See pages 10, 11, 14, 15 for other styles HOLLOW OUTPUT SHAFT		_				or	n page 27.
	HMQ – Motorized, Quill Input						,	
	HM – Motorized, Flexible		lack					
	Coupling Input		800 SERIES	3		put	For	
H – Non-Flanged			CENTER DISTANCES		Code		Input Type	
	See pages 12, 13 16, 17 for other styles.			Distance	Single Input	Dual Input		
	WASHGUARD STYLES	Size		iches)	blank	A	non-motorized	
	W prefix; i.e. WBMQ denotes	813		.33	48**	48A	48CZ	NEMA Input
	WASHDOWN Reducer	815*		.54	56 140	56A 140A	56C 143-5TC	— -
	S prefix; i.e. SHMQ denotes	818		1.75	180	180A	182-4TC	≧
	All-Stainless Steel Reducer	821		2.06	210	210A	213-5TC	 ≌
		<u>824</u>		2.38 2.62	250	250A	254-6TC	
		830		3.00	63	200/1	D63D B5	
	T	832		3.25	71	1	D71D B5	—]
	V	842		l.25	80	Contact	D80D B5	Input
GR -	Grove Gear IRONMAN Cast Iron Red			5.25	90	Factory	D90D B5	
NH -	Grove Gear IRONMAN Narrow	860		6.00	110		D100LD/D112MD	<u>) B5</u> 입
	Housing Cast Iron Reducers	870		7.00	132	<u> </u>	D132D	
EL -	Electra-Gear Aluminum Reducers	880		3.00	** Not available in E	L Series		
GHG -	- Grove Gear Flexaline Interchange (Sizes 821, 826, 832)	8100		0.00				
GRL -	- Leeson IRONMAN Interchange	* GR Serie ** Not ava	es only ilable in EL Se	ries				

Sample Model Numbers

Solid Output Shaft - GR Series

(Sizes 821, 826, 832)

Cast iron, single reduction, 2.38" reducer with 56C motorized quill input, left-hand output shaft, 30:1 ratio.

GR	- BMQ	824 -	30	- L -	56
Series	Style	Size	Ratio	Shaft	Input
				Orientation	Type

Hollow Output Shaft - EL Series

Aluminum, single reduction, 1.75" reducer with 56C motorized quill input, 1.00" hollow output bore, 10:1 ratio.

EL -	HMQ	818 -	10	- H	- 56	- 16
Series	Style	Size	Ratio	Shaft	Input	Output Bore
				Orientation	Tvpe	Code



INTERCHANGE GUIDE

SINGLE REDUCTION



Style BMQ



Style TMQ



Style JMQ



Style FMQ



Style CMQ



Style FEMQ



Style HMQ



Style JHMQ



Style VLHMQ

	CAST IRON CAST IRON NH SERIES REducer Style	Replaces Original GROVE GEAR OE Series Reducer Style	Replaces Original ELECTRA-GEAR Reducer Style			
	В	U	M			
	BM & BMQ	UFC & UF	MC & MSC			
	B★	N/A	ML			
	BM & BMQ★	N/A	MLC & MLSC			
-	T & U	Z & UB	A			
	TM & TMQ	ZFC & ZF	AC & ASC			
	T★	N/A	AL			
	TM & TMQ★	N/A	ALC & ALSC			
	UM & UMQ	UBFC & UBF	NEW			
-	J	J	JB			
	JM & JMQ	JFC & JF	JBC & JBSC			
-	VL & VH	SL & SH	В			
	VLM & VLMQ	SLFC & SLF	BC & BSC			
	VHM	SHFC	N/A			
	VHMQ	SHF	N/A			
-	F	K & V	N/A			
-	FM & FMQ	KFC & KF / VFC & VF	N/A			
-	C	P	N/A			
-	CM & CMQ	PFC & PF	N/A			
-	FE	E	N/A			
-	FEM & FEMQ	EFC & EF	N/A			
-	Н	Y	MH_ & H_			
	HM & HMQ	YFC & YF	MH_C/ MH_SC & H_C/H_SC			
-	JH	N/A	JBH_			
	JHM & JHMQ	N/A	JBH_C & JBH_SC			
-	VLHM & VLHMQ	SHFC & SHF	BH_C & BH_SC			
-	FH	M	RH_			
	FHM & FHMQ	MFC & MF	RH_C & H_C/H_SC & RH_SC			
-	FR	N/A	NEW			
-	FRM & FRMQ	N/A	New			
) -	FL	N/A	RL			
	FLM & FLMQ	N/A	RLC & RLSC			
-	BL (Torque Limiter Reducer)	UL	N/A			
	BLM & BLMQ (Torque Limiter Reducer)	ULFC & ULF	N/A			
-	ABC	N/A	ABC (contact factory)			
-	Accessory					
	Horizontal Base Kit (T & U)	Horizontal Base Kit (Z & UB)	Horizontal Base Kit (AK Kit #'s)			
	Vert. Output Shaft Base Kit (VL & VH)	Vert. Output Shaft Base Kit (SL & SH)	Vert. Output Shaft Base Kit (BK Kit #'s)			
	Vertical Input Shaft Base Kit (J)	Vert. Input Shaft Base Kit (J)	Vert. Input Shaft Base Kit (JBK Kit #'s)			
	Cast Iron Output Flange (F)	Cast Iron Output Flange (K & V)	Cast Iron Output Flange (Square)			
-	ABC Base Kit	N/A	ABC			
	Cast Iron Output Flange for Solid Output Shaft Styles (FR)	N/A	Cast Iron Output Flange (Round)			
	Coupling Input "C" Flange Kit – Single Red.+	C-Flange Mounting Kit	N/A			
	Coupling Input "C" Flange Kit – Double Red.+	C-Flange Mounting Kit	N/A			
-	, J					

- ★ Confirm required output shaft length
- ◆ Convert Style B to BM using coupling input kit

SEE PAGE 111 FOR DOUBLE REDUCTION

Hollow Shaft Tie Rod Kit

Hollow Shaft Torque Arm Bracket

Hollow Shaft Tie Rod Kit

Hollow Shaft Torque Arm Bracket

Hollow Shaft Tie Rod Kit
Hollow Shaft Torque Arm Bracket

(TAK Kit #'s)

ELECTRA-GEAR

Aluminum Gear Reducers Built For Industrial Use

Cast aluminum NEMA C-input with machined fits for precision alignment of motors and bearings. (EL Series)

Cast iron NEMA C-input flange with machined fits for precision alignment of motors and bearings. (GR & NH Series)

Push-off holes drilled and tapped into flange for quick motor removal on quill input styles (56 & 140TC frames).

Premium Grade 5 zinc-plated bolts used throughout.

Seal Guard** on quil-input styles protects input seal from damage during motor installation.

- Sizes 813 through 852 only

EL Series One piece 356T cast aluminum housing to provide strength and rigidity. Polished finish also available.

GR and NH Series IRONMAN finegrained, one piece cast iron housing for rigidity and alignment. Machined for precision alignment of worm, worm gear, bearings and mounting surfaces. Superior resistance to environmental contaminants with high heat dissipation and noise reduction. BISSC certified reducer available for food service applications. Precision mounting surfaces and extra threaded bolt holes on top and bottom for flexibility and to accept a wide range of stock mounting accessories.

O-rings on input and output covers eliminate gaskets, sealants and leaks.

Single input and angle a ground enhance reduction of the control o

DIN1705 (CuSn45Ni4) bronze alloy provides maximum strength, lubricity and superior life.

Tapered roller bearings on output shaft for high overhung and thrust load capacities. EL Series Mounting dimensions same as the original Electra-Gear product with an option to match the industry standard dimensions of Grove Gear.

GR and NH Series Mounting dimensions are interchangeable with Baldor 900 series, Boston Gear, Browning Raider, Falk, Morse Invader and other "industry standard" reducers. Single-piece, alloy steel input worm shaft. High lead angle worm is case-hardened, ground and polished for enhanced efficiency and noise reduction.

Oversized positively-retained high speed input shaft bearing for higher shock load capacity, shaft alignment and seal life. Ideal for frequent starting and reversing applications.

> High capacity oil reservoir reduces noise, aids heat dissipation and lubricates for life. Multiple venting options for multi-position mounting. Factory filled with premium synthetic Mobil Glygoyle 460 polyalkalene glycol (PAG) lubricant.

> > Viton" premium quality, double lip seals provide extended life and resistance to high temperature, abrasion and chemicals. Only non-rusting rubber O.D. seals used in all exposed locations.

Robust output shaft of high strength steel alloy for superior torque and overhung load capacities.

Single output cover design provides precise centering of gear for lower noise levels and higher overall gear efficiencies. Output shaft comes out noncover side as standard.