



OHIO GEAR™

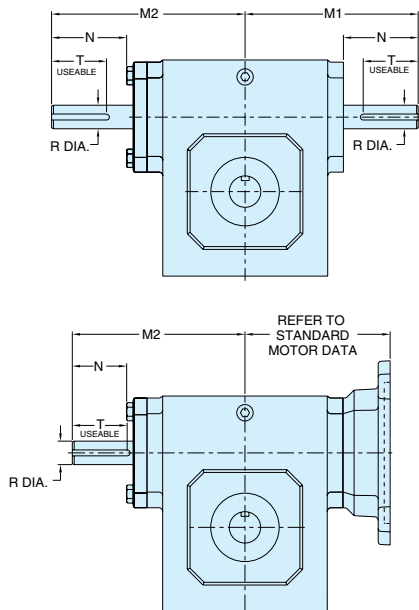
ADDITIONAL CAPABILITIES



In addition to the thousands of stock/standard IRONMAN BY OHIO GEAR™ products available from LEESON, there are also many special reducer configurations possible. Some of the special features available are listed below.

Contact LEESON with engineering requirements.

- Special Paint
- Custom Mounting Brackets/Bases
- Longer/Shorter Shaft Extensions
- Special Shaft Extension Diameters
- Cross-drilled Holes on Shafts
- Custom Ratios
- Stainless-Steel Hollow Output Shafts
- Reduced Backlash Designs
- Dual Input Shaft Extensions (Detailed Below)



TYPICAL DUAL INPUT EXTENSION DIMENSIONS AVAILABLE FROM LEESON

Unit	M1	M2	N	R	T**
813	3.82	4.37	1.76	.500	1/8 x 1.44
815	4.35	4.90	1.76	.625	3/16 x 1.50
818	4.45	5.00	1.76	.625	3/16 x 1.50
821	4.82	5.37	1.76	.625	3/16 x 1.50
824	5.51	6.15	2.38	.750	3/16 x 1.50
826	6.07	6.72	2.38	.750	3/16 x 1.50
830	6.57	7.22	2.38	.875	3/16 x 1.50
832	6.76	7.40	2.38	.875	3/16 x 1.50
842	9.57	9.57	3.47	1.250	1/4 x 2.88
852	10.88	10.88	3.38	1.250	1/4 x 3.00
860	11.78	14.55	3.41	1.500	3/8 x 3.00

**Keyway width by length

PRODUCT LITERATURE

In addition to the information in this catalog, your LEESON distributor or local District Sales Office can provide additional literature, product support or application assistance.



Bravo® Aluminum Worm Gear Reducers (Bulletin 5050)

Compact, high-performance gear reducers designed as cost-effective drive solutions for OEM's. Variety of output drive mountings available. Bravo® reducers team easily with LEESON motors.



LeCENTRIC™ Aluminum Inline Gear Reducers (Bulletin 7050)

Light weight, industrial-duty gear reducers, designed for high performance applications. Variety of base and flange mountings available.



Sub-FHP Gearmotors (Bulletin 1830)

Range of sub-fractional HP AC and DC Gearmotors is reviewed. Both right-angle and parallel shaft models, 5 through 1112 in-lbs torque.

Ratio Multipliers



MODIFIED STOCK GEAR REDUCERS



OHIO GEAR™

Quick shipment is standard on all LEESON IRONMAN BY OHIO GEAR™ stock and modified stock gear reducers. A wide range of mounting styles are offered and are listed on the accompanying chart. Start with one of the stock reducer styles shown—add an accessory—and create a new mounting style.

STYLE T OR U HORIZONTAL BASE



STYLE J VERTICAL INPUT SHAFT BASE



STYLE VL OR VH VERTICAL OUTPUT SHAFT BASE



MOTORIZED C FLANGE QUILL INPUT



(Style BMQ Shown)

MOTORIZED C FLANGE FLEXIBLE COUPLING INPUT



(Style BM Shown)

NON-FLANGED



(Style B Shown)

Ratio Multipliers

Type	Stock Reducer Style	T Base Worm Over	U Base Worm Over	J Base	VL Low Base	VH High Base
Single Reduction Solid Shaft	BMQ	TMQ	UMQ *	JMQ	VLMQ	VHMQ
Single Reduction Hollow Shaft	HMQ	—	—	JHMQ	VLHMQ	VHHMQ
Double Reduction Solid Shaft	DMQ	DTMQ	DUMQ *	DJMQ	DVLMQ	DVHMQ
Double Reduction Hollow Shaft	DHMQ	—	—	DJHMQ	DVLHMQ	DVHHMQ
Single Reduction Solid Shaft	BM	TM	UM *	JM	VLM	VHM
Single Reduction Hollow Shaft	HM	—	—	JHM	VLHM	VHHM
Double Reduction Solid Shaft	DM	DTM	DUM *	DJM	DVLM	DVHM
Double Reduction Hollow Shaft	DHM	—	—	DJHM	DVLHM	DVHHM
Single Reduction Solid Shaft	B	T	U *	J	VL	VH
Single Reduction Hollow Shaft	H	—	—	JH	VLH	VHH
Double Reduction Solid Shaft	D	DT	DU *	DJ	DVL	DVH
Double Reduction Hollow Shaft	DH	—	—	DJH	DVLH	DVHH

* Not a recommended mounting style. Consult LEESON for selection assistance.

For information on WASHGUARD® modifications and accessories, see page 153.

**STYLE F
OUTPUT
FLANGE**



**STYLE BF
OUTPUT
FLANGE**



**STYLE R
RISER
BLOCK**



Free Mod-Squad™ Service Or Assemble It Yourself!



Any of the modified stock gear reducers shown are available on a quick-shipment basis, factory assembled by the **LEESON Gear Mod-Squad**—at no charge for the labor! Just pay for the accessory item. To order, specify the stock reducer and the Gear Mod-Squad Service Number (see below).

Or **assemble it yourself** by ordering the appropriate stock reducer and accessory kit (see below).

Before ordering, check the dimensional information available in this catalog.

More LEESON IRONMAN BY OHIO GEAR™ accessories, options and assembly services are available. See next page.

F Output Flange	BF Output Flange	R Output Flange
FMQ	BFMQ	RMQ
FHMQ	BFHMQ	—
DFMQ	DBFMQ	—
DFHMQ	DBFHMQ	—
FM	BFM	RM
FHM	BFHM	—
DFM	DBFM	—
DFHM	DBFHM	—
F	BF	R
FH	BFH	—
DF	DBF	—
DFH	DBFH	—

Reaction Rod Kit for hollow shaft models and additional accessories and options shown on following page.

See page 169 for accessory weights.

Ordering Information

Style T or U Horizontal Base

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number		Weight (lbs)
		Style T	Style U	
813	G185000	T813	U813	3
815	G185120	T815	U815	3
818	G185005	T818	U818	3
821	G185010	T821	U821	3
824	G185015	T824	U824	8
826	G185020	T826	U826	10
830	G185121	T830	U830	16
832	G185025	T832	U832	16
842	G185030	T842	U842	18
852	G185035	T852	U852	22
860	G185040	T860	U860	31

Style J Vertical Input Base

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number Style J	Weight (lbs)
815	G185122	J815	2
818	G185006	J818	2
821	G185011	J821	3
824	G185016	J824	3
826	G185021	J826	4
830	G185123	J830	6
832	G185124	J832	6
842	G185125	J842	11
852	G185126	J852	18

Style VL Vertical Output Shaft Base

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number Style VL	Weight (lbs)
815	G185127	VL815	4
818	G185007	VL818	4
821	G185012	VL821	8
824	G185017	VL824	8
826	G185022	VL826	11
830	G185128	VL830	14
832	G185027	VL832	14
842	G185032	VL842	28
852	G185037	VL852	36
860	G185042	VL860	36

Style VH Vertical Output Shaft Base

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number Style VH	Weight (lbs)
815	G185127	VH815	4
818	G185007	VH818	4
821	G185012	VH821	8
824	G185017	VH824	8
826	G185022	VH826	11
830	G185128	VH830	14
832	G185027	VH832	14
842	G185032	VH842	28
852	G185037	VH852	36
860	G185042	VH860	36

Style F Output Flange - Cast Iron

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number Style F	Weight (lbs)
815	G185131	F815	2
818	G185132	F818	3
821	G185133	F821	4
824▼	G185134	F824	5
826▼	G185135	F826	5
830▼	G185136	F830	16
832▼	G185137	F832	16
842▼	G185138	F842	12
852▼	G185139	F852	28
860▼	G185140	F860	12

Style R Riser Block

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number Style R	Weight (lbs)
818	G185142	R818	7
821	G185143	R821	9
824	G185144	R824	9
826	G185145	R826	17
830	G185146	R830	15
832	G185147	R832	31
842	G185148	R842	24
852	G185149	R852	15

▼ Flanges for sizes 824 - 860 with solid output shafts must be assembled at LEESON.



MODIFIED STOCK GEAR REDUCERS



OHIO GEAR™

BM STYLE INPUT FLANGE KITS**



Series		48CZ	56C	143-5TC	182-4TC	213-5TC	254-6TC
813	Catalog No.	G185161	G185090	--	--	--	--
	Weight (lbs)	7	7	--	--	--	--
815	Catalog No.	G185162	G185163	G185164	--	--	--
	Weight (lbs)	7	7	7	--	--	--
818	Catalog No.	G185165	G185091	G185092	--	--	--
	Weight (lbs)	7	7	7	--	--	--
821	Catalog No.	G185166	G185093	G185094	--	--	--
	Weight (lbs)	7	7	7	--	--	--
824	Catalog No.	--	G185095	G185096	G185097	--	--
	Weight (lbs)	--	8	8	11	--	--
826	Catalog No.	--	G185098	G185099	G185100	--	--
	Weight (lbs)	--	8	8	11	--	--
830	Catalog No.	--	G185167	G185168	G185169	--	--
	Weight (lbs)	--	11	11	11	--	--
832	Catalog No.	--	G185101	G185102	G185103	G185170	--
	Weight (lbs)	--	11	11	11	11	--
842	Catalog No.	--	G185171	G185104	G185105	G185106	G185172
	Weight (lbs)	--	14	14	16	16	30
852	Catalog No.	--	--	G185173	G185107	G185108	G185109
	Weight (lbs)	--	--	16	18	18	30
860	Catalog No.	--	--	--	G185174	G185110	G185111
	Weight (lbs)	--	--	--	22	22	32

** All kits include flexible coupling.

DOUBLE REDUCTION ADAPTOR KITS



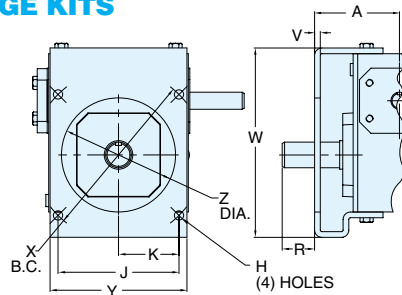
Series	Accessory Kit Only Catalog #	Primary Unit Size	Secondary Unit Quill Size	Weight (lbs.)
813 - 821	G185150	813	56C	3
824	G185151	813	56C	3

REACTION ROD KITS



Series	Accessory Kit Only Catalog #	Weight (lbs.)
813 - 842	G185152	5
852 - 860	G185153	5

BF STYLE OUTPUT FLANGE KITS



Style BF Output Flange - Steel

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number Style BF	Weight (lbs)
813	G185004	BF813	6
818	G185009	BF818	6
821	G185014	BF821	10
824	G185019	BF824	10
826	G185024	BF826	13

Style BF Output Flange Kits

Series	A	H	J	K	R	V	W	X	Y	Z
813	3.00	0.34	3.54	1.77	1.00	0.19	5.55	5.00	4.25	3.62
818	3.50	0.34	4.16	2.08	0.81	0.19	6.66	5.88	4.81	4.06
821	3.75	0.41	4.60	2.30	0.93	0.19	7.47	6.50	5.75	4.50
824	3.72	0.41	5.30	2.65	1.37	0.25	8.30	7.50	6.00	5.00
826	4.06	0.41	5.66	2.83	1.57	0.25	9.25	8.00	7.18	6.00



Ratio Multipliers

WASHGUARD® • STYLE T OR U



Style T or U Horizontal Base

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number		Weight (lbs)
		Style T	Style U	
813	G185045	WT813	WU813	3
815	G185180	WT815	WU815	3
818	G185046	WT818	WU818	3
821	G185047	WT821	WU821	3
824	G185048	WT824	WU824	8
826	G185049	WT826	WU826	10
830	G185181	WT830	WU830	16
832	G185182	WT832	WU832	16

WASHGUARD® • STYLE J



Style J Vertical Input Base

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number		Weight (lbs)
		Style J	Style J	
813	G185054	WJ813	WJ813	1
815	G185183	WJ815	WJ815	2
818	G185055	WJ818	WJ818	2
821	G185056	WJ821	WJ821	3
824	G185057	WJ824	WJ824	3
826	G185058	WJ826	WJ826	4
830	G185184	WJ830	WJ830	6
832	G185185	WJ832	WJ832	6

WASHGUARD® • STYLE VL AND VH



Style VL & VH Vertical Output Base*

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number		Weight (lbs)
		Style VL	Style VH	
813	G185063	WVL813	WVH813	4
815	G185186	WVL815	WVH815	4
818	G185064	WVL818	WVH818	4
821	G185065	WVL821	WVH821	8
824	G185066	WVL824	WVH824	8
826	G185067	WVL826	WVH826	11
830	G185187	WVL830	WVH830	14
832	G185188	WVL832	WVH832	14

* Style VL and VH mountings use the same base with a different assembly position.

WASHGUARD® • STYLE F



Style BF Output Flange - Steel

Series	Accessory Kit Only Catalog No.	Mod-Squad™ Service Number		Weight (lbs)
		Style BF	Style BF	
813	G185081	WBF813	WBF813	6
818	G185082	WBF818	WBF818	6
821	G185083	WBF821	WBF821	10
824	G185084	WBF824	WBF824	10
826	G185085	WBF826	WBF826	13

Accessories