



## DOUBLE REDUCTION • WORM / WORM MODEL NUMBER SYSTEM



Double Reduction  
Worm/Worm Gear Reducers

### LEESON 800 Series Gear Reducer Model Number Nomenclature

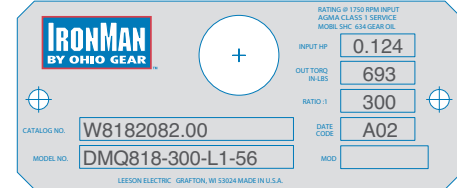
All stock and custom 800 series reducers are identified by a model number. The model number appears on the nameplate and describes pertinent features of the reducer. An example follows, along with a listing of the various letters and positions used.

NOTE: All reducers also have a catalog number—for example W8130001. 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 T818, for example, 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, W8133000) are WASHGUARD® reducers for washdown service.

Catalog numbers 5000 (for example, W8135000) and higher are custom reducers manufactured for a specific application. The machinery or equipment manufacturer should be contacted for replacement reducers. Renewal parts can be ordered from LEESON by catalog number.

### TYPICAL NAMEPLATE



**Style**

**SOLID OUTPUT SHAFT**  
**DMQ** – Motorized, Quill Input  
**DM** – Motorized, Flexible Coupling Input  
**D** – Non-Flanged  
 See pages 78 & 79 for other styles.

**W** prefix; i.e. WDMQ denotes WASHDOWN Reducer

**HOLLOW OUTPUT SHAFT**  
**DHMQ** – Motorized, Quill Input  
**DHM** – Motorized, Flexible Coupling Input  
**DH** – Non-Flanged  
 See pages 80 & 81 for other styles.

**Series**

**Ratio**

See Selection Tables on pages 84-86, for all available ratios.

#### CAST IRON 800 SERIES CENTER DISTANCES

Series	Center Distance (Inches)
813	1.33
815	1.50
818	1.75
821	2.06
824	2.38
826	2.62
830	3.00
832	3.25
842	4.25
852	5.25
860	6.00

**Output Shaft Orientation**

**Mounting Assembly**

Assembly numbers 1-6 are available. Refer to dimension layouts.

**Motor Flange**

**Output Bore Code**

Hollow Shaft Only  
See page 107.

**L** – Left-hand Output Shaft\*  
**R** – Right-hand Output Shaft\*  
**D** – Double Output Shaft  
**H** – Hollow Output Shaft  
 \* Viewed from drive end of reducer.

NEMA Input Flange Code	For NEMA Frame
48	48CZ
56	56C
140	143-5TC
180	182-4TC
210	213-5TC

## Sample Model Number

### Solid Shaft

Motorized Quill Input, Double Reduction Reducer, 1.75" Center Distance, 300:1 Ratio, Left Hand Output Shaft, Parallel Input & Output Shafts and 5/8" Input Bore with NEMA 56C Flange.

**DMQ**   **818**   **300**   **L**   **1**   **56**  
 Style   Series   Ratio   Output Shaft   Mounting Assembly   Motor Input Flange

### Hollow Shaft

Motorized Quill Input, Double Reduction Reducer, 1.75" Center Distance, 300:1 Ratio, 1.00" Hollow Output Shaft, Parallel Input & Output Shafts and 5/8" Input Bore with NEMA 56C Flange.

**DHMQ**   **818**   **300**   **H**   **1**   **56**   **16**  
 Style   Series   Ratio   Output Shaft   Mounting Assembly   Motor Input Flange   Output Bore Code