

# MAXIMUM RATING TABLES

SIZE 830 • GR & EL SERIES

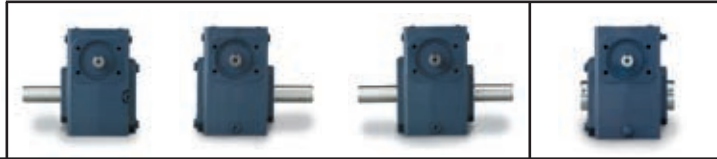
**CAST IRON**  
**GR SERIES**

**ALUMINUM**  
**EL SERIES**

For NH series reducers refer to pages 36-37.

Style B

Style H



## Size 830









| Ratio      | Input RPM | Output RPM | Input HP | Output HP | Output Torque (lb-in) | Left Hand Catalog No. | Right Hand Catalog No. | Double Extension Catalog No. | Hollow Output Catalog No.* |
|------------|-----------|------------|----------|-----------|-----------------------|-----------------------|------------------------|------------------------------|----------------------------|
| <b>5</b>   | 2500      | 500        | 10.661   | 10.091    | 1272                  | __8300001             | __8300013              | __8300025                    | __8300501.XX               |
|            | 1750      | 350        | 9.093    | 8.573     | 1544                  |                       |                        |                              |                            |
|            | 1170      | 234        | 7.434    | 6.966     | 1876                  |                       |                        |                              |                            |
| <b>7.5</b> | 100       | 20         | 1.177    | 0.928     | 2925                  | __8300002             | __8300014              | __8300026                    | __8300502.XX               |
|            | 2500      | 333        | 8.178    | 7.669     | 1450                  |                       |                        |                              |                            |
|            | 1750      | 233        | 6.879    | 6.421     | 1734                  |                       |                        |                              |                            |
| <b>10</b>  | 1170      | 156        | 5.668    | 5.251     | 2122                  | __8300003             | __8300015              | __8300027                    | __8300503.XX               |
|            | 100       | 13         | 0.898    | 0.683     | 3228                  |                       |                        |                              |                            |
|            | 2500      | 250        | 7.293    | 6.745     | 1701                  |                       |                        |                              |                            |
| <b>15</b>  | 1750      | 175        | 6.151    | 5.655     | 2037                  | __8300004             | __8300016              | __8300028                    | __8300504.XX               |
|            | 1170      | 117        | 4.989    | 4.541     | 2446                  |                       |                        |                              |                            |
|            | 100       | 10         | 0.799    | 0.567     | 3573                  |                       |                        |                              |                            |
| <b>20</b>  | 2500      | 166        | 5.734    | 5.149     | 1947                  | __8300005             | __8300017              | __8300029                    | __8300505.XX               |
|            | 1750      | 116        | 4.843    | 4.311     | 2329                  |                       |                        |                              |                            |
|            | 1170      | 78         | 3.903    | 3.426     | 2768                  |                       |                        |                              |                            |
| <b>25</b>  | 100       | 6.7        | 0.663    | 0.418     | 3949                  | __8300006             | __8300018              | __8300030                    | __8300506.XX               |
|            | 2500      | 125        | 4.662    | 4.067     | 2051                  |                       |                        |                              |                            |
|            | 1750      | 87         | 3.947    | 3.407     | 2454                  |                       |                        |                              |                            |
| <b>30</b>  | 1170      | 58         | 3.198    | 2.713     | 2923                  | __8300007             | __8300019              | __8300031                    | __8300507.XX               |
|            | 100       | 5.0        | 0.579    | 0.332     | 4189                  |                       |                        |                              |                            |
|            | 2500      | 100        | 3.957    | 3.355     | 2114                  |                       |                        |                              |                            |
| <b>40</b>  | 1750      | 70         | 3.355    | 2.807     | 2527                  | __8300008             | __8300020              | __8300032                    | __8300508.XX               |
|            | 1170      | 46         | 2.713    | 2.223     | 2993                  |                       |                        |                              |                            |
|            | 100       | 4.0        | 0.519    | 0.269     | 4238                  |                       |                        |                              |                            |
| <b>50</b>  | 2500      | 83         | 3.389    | 2.787     | 2108                  | __8300009             | __8300021              | __8300033                    | __8300509.XX               |
|            | 1750      | 58         | 2.879    | 2.332     | 2519                  |                       |                        |                              |                            |
|            | 1170      | 39         | 2.335    | 1.845     | 2982                  |                       |                        |                              |                            |
| <b>60</b>  | 100       | 3.3        | 0.472    | 0.223     | 4217                  | __8300010             | __8300022              | __8300034                    | __8300510.XX               |
|            | 2500      | 62         | 2.639    | 2.054     | 2071                  |                       |                        |                              |                            |
|            | 1750      | 43         | 2.251    | 1.720     | 2477                  |                       |                        |                              |                            |
| <b>80</b>  | 1170      | 29         | 1.843    | 1.366     | 2944                  | __8300011             | __8300023              | __8300035                    | __8300511.XX               |
|            | 100       | 2.5        | 0.407    | 0.167     | 4200                  |                       |                        |                              |                            |
|            | 2500      | 50         | 2.238    | 1.654     | 2084                  |                       |                        |                              |                            |
| <b>100</b> | 1750      | 35         | 1.915    | 1.383     | 2490                  | __8300012             | __8300024              | __8300036                    | __8300512.XX               |
|            | 1170      | 23         | 1.569    | 1.094     | 2945                  |                       |                        |                              |                            |
|            | 100       | 2.0        | 0.372    | 0.132     | 4156                  |                       |                        |                              |                            |
|            | 2500      | 41         | 1.907    | 1.336     | 2020                  |                       |                        |                              |                            |
|            | 1750      | 29         | 1.637    | 1.117     | 2413                  |                       |                        |                              |                            |
|            | 1170      | 19         | 1.348    | 0.883     | 2854                  |                       |                        |                              |                            |
|            | 100       | 1.7        | 0.341    | 0.106     | 4026                  |                       |                        |                              |                            |
|            | 2500      | 31         | 0.972    | 0.671     | 1352                  |                       |                        |                              |                            |
|            | 1750      | 21         | 0.895    | 0.585     | 1684                  |                       |                        |                              |                            |
|            | 1170      | 14         | 0.757    | 0.463     | 1996                  |                       |                        |                              |                            |
|            | 100       | 1.3        | 0.126    | 0.054     | 2731                  |                       |                        |                              |                            |
|            | 2500      | 25         | 0.656    | 0.424     | 1069                  |                       |                        |                              |                            |
|            | 1750      | 17         | 0.603    | 0.367     | 1321                  |                       |                        |                              |                            |
|            | 1170      | 11         | 0.511    | 0.289     | 1554                  |                       |                        |                              |                            |
|            | 100       | 1.0        | 0.087    | 0.033     | 2100                  |                       |                        |                              |                            |

### How To Build a Part Number For Size GR830 & EL830

1. Select partial catalog number from the selection table
2. Replace leading “\_\_” with series code (GR, EL)
3. For hollow output, replace “XX” suffix with bore code (see next page for codes)

**Example:**

Grove Gear IRONMAN, style B, 5:1 ratio, left hand output  
 GR-B830-5-L  
 GR8300001

|                       | Style BM  |   |   | Style HM  | Style BMQ   |  |   | Style HMQ   |            |
|-----------------------|---|---|---|---|---|--|---|---|------------|
|                       |  |  |  |  |  |  |  |  |            |
| NEMA C Input Flange ▲ | Left Hand Catalog No.   | Right Hand Catalog No.  | Double Extension Catalog No.  | Hollow Output Catalog No.*  | Left Hand Catalog No.   | Right Hand Catalog No.   | Double Extension Catalog No.  | Hollow Output Catalog No.*  | Ratio      |
| 182-4TC<br>213-5TC    | 8300109<br>8300145  | 8300121<br>8300157  | 8300133<br>8300169  | 8300537.XX<br>8300549.XX  | 8300253<br>8300289  | 8300265<br>8300301   | 8300277<br>8300313  | 8300585.XX<br>8300597.XX  | <b>5</b>   |
| 182-4TC               | 8300110   | 8300122   | 8300134   | 8300538.XX  | 8300254   | 8300266  | 8300278   | 8300586.XX  | <b>7.5</b> |
| 143-5TC<br>182-4TC    | 8300075<br>8300111  | 8300087<br>8300123  | 8300099<br>8300135  | 8300527.XX<br>8300539.XX  | 8300219<br>8300255  | 8300231<br>8300267   | 8300243<br>8300279  | 8300575.XX<br>8300587.XX  | <b>10</b>  |
| 143-5TC<br>182-4TC    | 8300076<br>8300112  | 8300088<br>8300124  | 8300100<br>8300136  | 8300528.XX<br>8300540.XX  | 8300220<br>8300256  | 8300232<br>8300268   | 8300244<br>8300280  | 8300576.XX<br>8300588.XX  | <b>15</b>  |
| 143-5TC<br>182-4TC    | 8300077<br>8300113  | 8300089<br>8300125  | 8300101<br>8300137  | 8300529.XX<br>8300541.XX  | 8300221<br>8300257  | 8300233<br>8300269   | 8300245<br>8300281  | 8300577.XX<br>8300589.XX  | <b>20</b>  |
| 143-5TC<br>182-4TC    | 8300078<br>8300114  | 8300090<br>8300126  | 8300102<br>8300138  | 8300530.XX<br>8300542.XX  | 8300222<br>8300258  | 8300234<br>8300270   | 8300246<br>8300282  | 8300578.XX<br>8300590.XX  | <b>25</b>  |
| 143-5TC<br>182-4TC    | 8300079<br>8300115  | 8300091<br>8300127  | 8300103<br>8300139  | 8300531.XX<br>8300543.XX  | 8300223<br>8300259  | 8300235<br>8300271   | 8300247<br>8300283  | 8300579.XX<br>8300591.XX  | <b>30</b>  |
| 56C<br>143-5TC        | 8300044<br>8300080  | 8300056<br>8300092  | 8300068<br>8300104  | 8300520.XX<br>8300532.XX  | 8300188<br>8300224  | 8300200<br>8300236   | 8300212<br>8300248  | 8300568.XX<br>8300580.XX  | <b>40</b>  |
| 56C<br>143-5TC        | 8300045<br>8300081  | 8300057<br>8300093  | 8300069<br>8300105  | 8300521.XX<br>8300533.XX  | 8300189<br>8300225  | 8300201<br>8300237   | 8300213<br>8300249  | 8300569.XX<br>8300581.XX  | <b>50</b>  |
| 56C<br>143-5TC        | 8300046<br>8300082  | 8300058<br>8300094  | 8300070<br>8300106  | 8300522.XX<br>8300534.XX  | 8300190<br>8300226  | 8300202<br>8300238   | 8300214<br>8300250  | 8300570.XX<br>8300582.XX  | <b>60</b>  |
| 56C<br>143-5TC        | 8300047<br>8300083  | 8300059<br>8300095  | 8300071<br>8300107  | 8300523.XX<br>8300535.XX  | 8300191<br>8300227  | 8300203<br>8300239   | 8300215<br>8300251  | 8300571.XX<br>8300583.XX  | <b>80</b>  |
| 56C<br>143-5TC        | 8300048<br>8300084  | 8300060<br>8300096  | 8300072<br>8300108  | 8300524.XX<br>8300536.XX  | 8300192<br>8300228  | 8300204<br>8300240   | 8300216<br>8300252  | 8300572.XX<br>8300584.XX  | <b>100</b> |

▲ Consult Factory for other motor flanges available.

\* Catalog numbers are for hollow output shaft reducers.

When ordering, substitute the XX suffix with the required output bore code.

**Available bore codes**

|                  |         |        |         |        |        |          |        |        |          |       |         |
|------------------|---------|--------|---------|--------|--------|----------|--------|--------|----------|-------|---------|
| Fraction Size    | 1-3/16" | 1-1/4" | 1-7/16" | 1-1/2" | 1-5/8" | 1-11/16" | 1-3/4" | 1-7/8" | 1-15/16" | 2"    | 2-3/16" |
| Decimal Size     | 1.188   | 1.250  | 1.438   | 1.500  | 1.625  | 1.688    | 1.750  | 1.875  | 1.938    | 2.000 | 2.188   |
| Output Bore Code | 19      | 20     | 23      | 24     | 26     | 27       | 28     | 30     | 31       | 32    | 35      |

**QUICK REFERENCE**

**DIMENSIONS**

GR SERIES ..... Pages 52-73

EL SERIES ..... Pages 94-109

ACCESSORIES ..... Pages 284-295

OVERHUNG LOADS ..... Pages 660-662