

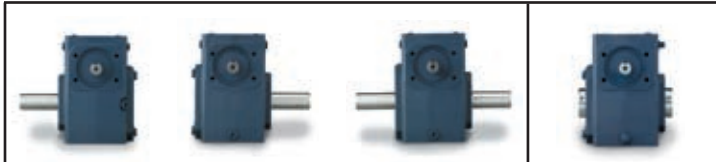
# MAXIMUM RATING TABLES

SIZE 842 • GR, NH & EL SERIES



Style B

Style H



**Size 842**

| 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        | 20.79    | 19.87     | 2589                  | __8420001             | __8420013              | __8420025                    | __8420501.XX               |
|            | 1750      | 350        | 18.08    | 17.25     | 3209                  |                       |                        |                              |                            |
|            | 1170      | 234        | 15.18    | 14.43     | 4016                  |                       |                        |                              |                            |
|            | 100       | 20         | 2.751    | 2.376     | 7738                  |                       |                        |                              |                            |
| <b>7.5</b> | 2500      | 333        | 18.84    | 17.83     | 3372                  | __8420002             | __8420014              | __8420026                    | __8420502.XX               |
|            | 1750      | 233        | 16.27    | 15.36     | 4148                  |                       |                        |                              |                            |
|            | 1170      | 156        | 13.42    | 12.61     | 5094                  |                       |                        |                              |                            |
|            | 100       | 13         | 2.342    | 1.931     | 9126                  |                       |                        |                              |                            |
| <b>10</b>  | 2500      | 250        | 17.39    | 16.37     | 4127                  | __8420003             | __8420015              | __8420027                    | __8420503.XX               |
|            | 1750      | 175        | 14.93    | 14.00     | 5042                  |                       |                        |                              |                            |
|            | 1170      | 117        | 12.31    | 11.47     | 6180                  |                       |                        |                              |                            |
|            | 100       | 10         | 2.051    | 1.629     | 10629                 |                       |                        |                              |                            |
| <b>15</b>  | 2500      | 166        | 12.94    | 11.92     | 4507                  | __8420004             | __8420016              | __8420028                    | __8420504.XX               |
|            | 1750      | 116        | 11.13    | 10.20     | 5508                  |                       |                        |                              |                            |
|            | 1170      | 78         | 9.193    | 8.357     | 6752                  |                       |                        |                              |                            |
|            | 100       | 6.7        | 1.608    | 1.190     | 11245                 |                       |                        |                              |                            |
| <b>20</b>  | 2500      | 125        | 11.02    | 9.91      | 4999                  | __8420005             | __8420017              | __8420029                    | __8420505.XX               |
|            | 1750      | 87         | 9.462    | 8.458     | 6092                  |                       |                        |                              |                            |
|            | 1170      | 58         | 7.816    | 6.913     | 7447                  |                       |                        |                              |                            |
|            | 100       | 5.0        | 1.407    | 0.956     | 12056                 |                       |                        |                              |                            |
| <b>25</b>  | 2500      | 100        | 9.256    | 8.164     | 5145                  | __8420006             | __8420018              | __8420030                    | __8420506.XX               |
|            | 1750      | 70         | 7.940    | 6.946     | 6254                  |                       |                        |                              |                            |
|            | 1170      | 46         | 6.551    | 5.658     | 7619                  |                       |                        |                              |                            |
|            | 100       | 4.0        | 1.210    | 0.764     | 12038                 |                       |                        |                              |                            |
| <b>30</b>  | 2500      | 83         | 7.517    | 6.455     | 4882                  | __8420007             | __8420019              | __8420031                    | __8420507.XX               |
|            | 1750      | 58         | 6.481    | 5.517     | 5960                  |                       |                        |                              |                            |
|            | 1170      | 39         | 5.384    | 4.518     | 7300                  |                       |                        |                              |                            |
|            | 100       | 3.3        | 1.066    | 0.636     | 12026                 |                       |                        |                              |                            |
| <b>40</b>  | 2500      | 62         | 6.101    | 5.013     | 5055                  | __8420008             | __8420020              | __8420032                    | __8420508.XX               |
|            | 1750      | 43         | 5.262    | 4.274     | 6156                  |                       |                        |                              |                            |
|            | 1170      | 29         | 4.379    | 3.490     | 7520                  |                       |                        |                              |                            |
|            | 100       | 2.5        | 0.920    | 0.480     | 12090                 |                       |                        |                              |                            |
| <b>50</b>  | 2500      | 50         | 5.088    | 4.029     | 5078                  | __8420009             | __8420021              | __8420033                    | __8420509.XX               |
|            | 1750      | 35         | 4.389    | 3.426     | 6170                  |                       |                        |                              |                            |
|            | 1170      | 23         | 3.655    | 2.788     | 7510                  |                       |                        |                              |                            |
|            | 100       | 2.0        | 0.804    | 0.375     | 11809                 |                       |                        |                              |                            |
| <b>60</b>  | 2500      | 41         | 4.333    | 3.317     | 5017                  | __8420010             | __8420022              | __8420034                    | __8420510.XX               |
|            | 1750      | 29         | 3.681    | 2.772     | 5989                  |                       |                        |                              |                            |
|            | 1170      | 19         | 3.116    | 2.285     | 7386                  |                       |                        |                              |                            |
|            | 100       | 1.7        | 0.715    | 0.302     | 11439                 |                       |                        |                              |                            |
| <b>80</b>  | 2500      | 31         | 2.019    | 1.486     | 2995                  | __8420011             | __8420023              | __8420035                    | __8420511.XX               |
|            | 1750      | 21         | 1.760    | 1.257     | 3620                  |                       |                        |                              |                            |
|            | 1170      | 14         | 1.585    | 1.049     | 4519                  |                       |                        |                              |                            |
|            | 100       | 1.3        | 0.290    | 0.135     | 6804                  |                       |                        |                              |                            |
| <b>100</b> | 2500      | 25         | 1.341    | 0.933     | 2351                  | __8420012             | __8420024              | __8420036                    | __8420512.XX               |
|            | 1750      | 17         | 1.201    | 0.792     | 2852                  |                       |                        |                              |                            |
|            | 1170      | 11         | 1.062    | 0.655     | 3527                  |                       |                        |                              |                            |
|            | 100       | 1.0        | 0.197    | 0.083     | 5219                  |                       |                        |                              |                            |

**How To Build a Part Number For Size GR842, NH842, EL842**

1. Select partial catalog number from the selection table
2. Replace leading “\_\_” with series code (GR, NH, 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-B842-5-L  
 GR8420001

|                       | 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               | 8420109               | 8420121                | 8420133                      | 8420537.XX                 | 8420289               | 8420301                | 8420313                      | 8420597.XX                 | <b>5</b>   |
| 213-5TC               | 8420145               | 8420157                | 8420169                      | 8420549.XX                 | 8420325               | 8420337                | 8420349                      | 8420609.XX                 |            |
| 254-6TC               | 8420181               | 8420193                | 8420205                      | 8420561.XX                 | 8420361               | 8420373                | 8420385                      | 8420621.XX                 |            |
| 182-4TC               | 8420110               | 8420122                | 8420134                      | 8420538.XX                 | 8420290               | 8420302                | 8420314                      | 8420598.XX                 | <b>7.5</b> |
| 213-5TC               | 8420146               | 8420158                | 8420170                      | 8420550.XX                 | 8420326               | 8420338                | 8420350                      | 8420610.XX                 |            |
| 254-6TC               | 8420182               | 8420194                | 8420206                      | 8420562.XX                 | 8420362               | 8420374                | 8420386                      | 8420622.XX                 |            |
| 182-4TC               | 8420111               | 8420123                | 8420135                      | 8420539.XX                 | 8420291               | 8420303                | 8420315                      | 8420599.XX                 | <b>10</b>  |
| 213-5TC               | 8420147               | 8420159                | 8420171                      | 8420551.XX                 | 8420327               | 8420339                | 8420351                      | 8420611.XX                 |            |
| 254-6TC               | 8420183               | 8420195                | 8420207                      | 8420563.XX                 | 8420363               | 8420375                | 8420387                      | 8420623.XX                 |            |
| 182-4TC               | 8420112               | 8420124                | 8420136                      | 8420540.XX                 | 8420292               | 8420304                | 8420316                      | 8420600.XX                 | <b>15</b>  |
| 213-5TC               | 8420148               | 8420160                | 8420172                      | 8420552.XX                 | 8420328               | 8420340                | 8420352                      | 8420612.XX                 |            |
| 182-4TC               | 8420113               | 8420125                | 8420137                      | 8420541.XX                 | 8420293               | 8420305                | 8420317                      | 8420601.XX                 | <b>20</b>  |
| 213-5TC               | 8420149               | 8420161                | 8420173                      | 8420553.XX                 | 8420329               | 8420341                | 8420353                      | 8420613.XX                 |            |
| 143-5TC               | 8420078               | 8420090                | 8420102                      | 8420530.XX                 | 8420258               | 8420270                | 8420282                      | 8420590.XX                 | <b>25</b>  |
| 182-4TC               | 8420114               | 8420126                | 8420138                      | 8420542.XX                 | 8420294               | 8420306                | 8420318                      | 8420602.XX                 |            |
| 213-5TC               | 8420150               | 8420162                | 8420174                      | 8420554.XX                 | 8420330               | 8420342                | 8420354                      | 8420614.XX                 |            |
| 143-5TC               | 8420079               | 8420091                | 8420103                      | 8420531.XX                 | 8420259               | 8420271                | 8420283                      | 8420591.XX                 | <b>30</b>  |
| 182-4TC               | 8420115               | 8420127                | 8420139                      | 8420543.XX                 | 8420295               | 8420307                | 8420319                      | 8420603.XX                 |            |
| 143-5TC               | 8420080               | 8420092                | 8420104                      | 8420532.XX                 | 8420260               | 8420272                | 8420284                      | 8420592.XX                 | <b>40</b>  |
| 182-4TC               | 8420116               | 8420128                | 8420140                      | 8420544.XX                 | 8420296               | 8420308                | 8420320                      | 8420604.XX                 |            |
| 143-5TC               | 8420081               | 8420093                | 8420105                      | 8420533.XX                 | 8420261               | 8420273                | 8420285                      | 8420593.XX                 | <b>50</b>  |
| 182-4TC               | 8420117               | 8420129                | 8420141                      | 8420545.XX                 | 8420297               | 8420309                | 8420321                      | 8420605.XX                 |            |
| 56C                   | 8420046               | 8420058                | 8420070                      | 8420522.XX                 | 8420226               | 8420238                | 8420250                      | 8420582.XX                 | <b>60</b>  |
| 143-5TC               | 8420082               | 8420094                | 8420106                      | 8420534.XX                 | 8420262               | 8420274                | 8420286                      | 8420594.XX                 |            |
| 182-4TC               | 8420118               | 8420130                | 8420142                      | 8420546.XX                 | 8420298               | 8420310                | 8420322                      | 8420606.XX                 |            |
| 56C                   | 8420047               | 8420059                | 8420071                      | 8420523.XX                 | 8420227               | 8420239                | 8420251                      | 8420583.XX                 | <b>80</b>  |
| 143-5TC               | 8420083               | 8420095                | 8420107                      | 8420535.XX                 | 8420263               | 8420275                | 8420287                      | 8420595.XX                 |            |
| 56C                   | 8420048               | 8420060                | 8420072                      | 8420524.XX                 | 8420228               | 8420240                | 8420252                      | 8420584.XX                 | <b>100</b> |
| 143-5TC               | 8420084               | 8420096                | 8420108                      | 8420536.XX                 | 8420264               | 8420276                | 8420288                      | 8420596.XX                 |            |

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

**QUICK REFERENCE**

**DIMENSIONS**

**GR SERIES** ..... Pages 52-73

**NH SERIES** ..... Pages 74-93

**EL SERIES** ..... Pages 94-109

**ACCESSORIES** ..... Pages 284-295

**OVERHUNG LOADS** ..... Pages 660-662