

Maximum Rating Tables

Size 813 • GR, NH, EL Series



Single Reduction
Worm Gear Reducers

Double Reduction
Worm - Worm Gear Reducers

Double Reduction
Helical - Worm Gear Reducers

WASHGUARD® Reducers
and GEAR+MOTOR™

Ratio Multipliers

Accessories and
Additional Capabilities

Style B

Style H



Size 813

| 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. |
|-------|-----------|------------|----------|-----------|-----------------------|-----------------------|------------------------|------------------------------|---------------------------|
| 5 | 2500 | 500 | 1.528 | 1.429 | 180 | _8130001 | _8130013 | _8130025 | _8130501.10 |
| | 1750 | 350 | 1.248 | 1.158 | 209 | | | | |
| | 1170 | 234 | 0.952 | 0.872 | 235 | | | | |
| | 100 | 20 | 0.140 | 0.095 | 298 | | | | |
| 7.5 | 2500 | 333 | 1.281 | 1.178 | 223 | _8130002 | _8130014 | _8130026 | _8130502.10 |
| | 1750 | 233 | 1.025 | 0.933 | 252 | | | | |
| | 1170 | 156 | 0.770 | 0.689 | 278 | | | | |
| | 100 | 13 | 0.118 | 0.072 | 339 | | | | |
| 10 | 2500 | 250 | 1.016 | 0.912 | 230 | _8130003 | _8130015 | _8130027 | _8130503.10 |
| | 1750 | 175 | 0.823 | 0.729 | 263 | | | | |
| | 1170 | 117 | 0.626 | 0.543 | 293 | | | | |
| | 100 | 10 | 0.103 | 0.058 | 363 | | | | |
| 15 | 2500 | 166 | 0.790 | 0.678 | 257 | _8130004 | _8130016 | _8130028 | _8130504.10 |
| | 1750 | 116 | 0.642 | 0.541 | 292 | | | | |
| | 1170 | 78 | 0.491 | 0.402 | 325 | | | | |
| | 100 | 6.7 | 0.090 | 0.042 | 401 | | | | |
| 20 | 2500 | 125 | 0.681 | 0.562 | 283 | _8130005 | _8130017 | _8130029 | _8130505.10 |
| | 1750 | 87 | 0.551 | 0.445 | 320 | | | | |
| | 1170 | 58 | 0.422 | 0.328 | 354 | | | | |
| | 100 | 5.0 | 0.084 | 0.034 | 431 | | | | |
| 25 | 2500 | 100 | 0.544 | 0.431 | 272 | _8130006 | _8130018 | _8130030 | _8130506.10 |
| | 1750 | 70 | 0.445 | 0.344 | 309 | | | | |
| | 1170 | 46 | 0.344 | 0.255 | 344 | | | | |
| | 100 | 4.0 | 0.074 | 0.027 | 423 | | | | |
| 30 | 2500 | 83 | 0.481 | 0.364 | 276 | _8130007 | _8130019 | _8130031 | _8130507.10 |
| | 1750 | 58 | 0.395 | 0.290 | 314 | | | | |
| | 1170 | 39 | 0.308 | 0.215 | 348 | | | | |
| | 100 | 3.3 | 0.071 | 0.023 | 429 | | | | |
| 40 | 2500 | 62 | 0.400 | 0.283 | 285 | _8130008 | _8130020 | _8130032 | _8130508.10 |
| | 1750 | 43 | 0.329 | 0.223 | 322 | | | | |
| | 1170 | 29 | 0.258 | 0.165 | 355 | | | | |
| | 100 | 2.5 | 0.066 | 0.017 | 432 | | | | |
| 50 | 2500 | 50 | 0.346 | 0.232 | 292 | _8130009 | _8130021 | _8130033 | _8130509.10 |
| | 1750 | 35 | 0.285 | 0.182 | 327 | | | | |
| | 1170 | 23 | 0.224 | 0.133 | 359 | | | | |
| | 100 | 2.0 | 0.061 | 0.014 | 431 | | | | |
| 60 | 2500 | 41 | 0.297 | 0.184 | 279 | _8130010 | _8130022 | _8130034 | _8130510.10 |
| | 1750 | 29 | 0.246 | 0.145 | 313 | | | | |
| | 1170 | 19 | 0.195 | 0.107 | 345 | | | | |
| | 100 | 1.7 | 0.058 | 0.011 | 415 | | | | |
| 80 | 2500 | 31 | 0.144 | 0.081 | 163 | _8130011 | _8130023 | _8130035 | _8130511.10 |
| | 1750 | 21 | 0.121 | 0.064 | 183 | | | | |
| | 1170 | 14 | 0.096 | 0.047 | 201 | | | | |
| | 100 | 1.3 | 0.014 | 0.005 | 237 | | | | |
| 100 | 2500 | 25 | 0.100 | 0.051 | 128 | _8130012 | _8130024 | _8130036 | _8130512.10 |
| | 1750 | 17 | 0.084 | 0.040 | 143 | | | | |
| | 1170 | 11 | 0.067 | 0.029 | 156 | | | | |
| | 100 | 1.0 | 0.010 | 0.003 | 184 | | | | |

How To Build a Part Number For Size GR813, NH813, EL813

1. Select partial catalog number from the selection table 2. Replace leading “_” with series code (GR, NH, EL)

Example:

Grove Gear IRONMAN, style B, 5:1 ratio, left hand output
GR-B813-5-L
GR8130001

Single Reduction
Worm Gear Reducers





Double Reduction
Worm - Worm Gear Reducers

Double Reduction
Helical - Worm Gear Reducers

WASHGUARD® Reducers
and GEAR+MOTOR™

Ratio Multipliers

Accessories and
Additional Capabilities

| | 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 |
| 48CZ 56C | __8130109 __8130037 | __8130121 __8130049 | __8130133 __8130061 | __8130537.10 __8130513.10 | __8130181 __8130073 | __8130193 __8130085 | __8130205 __8130097 | __8130561.10 __8130525.10 | 5 |
| 48CZ 56C | __8130110 __8130038 | __8130122 __8130050 | __8130134 __8130062 | __8130538.10 __8130514.10 | __8130182 __8130074 | __8130194 __8130086 | __8130206 __8130098 | __8130562.10 __8130526.10 | 7.5 |
| 48CZ 56C | __8130111 __8130039 | __8130123 __8130051 | __8130135 __8130063 | __8130539.10 __8130515.10 | __8130183 __8130075 | __8130195 __8130087 | __8130207 __8130099 | __8130563.10 __8130527.10 | 10 |
| 48CZ 56C | __8130112 __8130040 | __8130124 __8130052 | __8130136 __8130064 | __8130540.10 __8130516.10 | __8130184 __8130076 | __8130196 __8130088 | __8130208 __8130100 | __8130564.10 __8130528.10 | 15 |
| 48CZ 56C | __8130113 __8130041 | __8130125 __8130053 | __8130137 __8130065 | __8130541.10 __8130517.10 | __8130185 __8130077 | __8130197 __8130089 | __8130209 __8130101 | __8130565.10 __8130529.10 | 20 |
| 48CZ 56C | __8130114 __8130042 | __8130126 __8130054 | __8130138 __8130066 | __8130542.10 __8130518.10 | __8130186 __8130078 | __8130198 __8130090 | __8130210 __8130102 | __8130566.10 __8130530.10 | 25 |
| 48CZ 56C | __8130115 __8130043 | __8130127 __8130055 | __8130139 __8130067 | __8130543.10 __8130519.10 | __8130187 __8130079 | __8130199 __8130091 | __8130211 __8130103 | __8130567.10 __8130531.10 | 30 |
| 48CZ 56C | __8130116 __8130044 | __8130128 __8130056 | __8130140 __8130068 | __8130544.10 __8130520.10 | __8130188 __8130080 | __8130200 __8130092 | __8130212 __8130104 | __8130568.10 __8130532.10 | 40 |
| 48CZ 56C | __8130117 __8130045 | __8130129 __8130057 | __8130141 __8130069 | __8130545.10 __8130521.10 | __8130189 __8130081 | __8130201 __8130093 | __8130213 __8130105 | __8130569.10 __8130533.10 | 50 |
| 48CZ 56C | __8130118 __8130046 | __8130130 __8130058 | __8130142 __8130070 | __8130546.10 __8130522.10 | __8130190 __8130082 | __8130202 __8130094 | __8130214 __8130106 | __8130570.10 __8130534.10 | 60 |
| 48CZ 56C | __8130119 __8130047 | __8130131 __8130059 | __8130143 __8130071 | __8130547.10 __8130523.10 | __8130191 __8130083 | __8130203 __8130095 | __8130215 __8130107 | __8130571.10 __8130535.10 | 80 |
| 48CZ 56C | __8130120 __8130048 | __8130132 __8130060 | __8130144 __8130072 | __8130548.10 __8130524.10 | __8130192 __8130084 | __8130204 __8130096 | __8130216 __8130108 | __8130572.10 __8130536.10 | 100 |

For input/ output shaft overhung load and thrust load ratings, refer to pages 419-422.

▲ Consult Factory for other motor flanges available.