

# J5222 Planetary Gear Reducer

- 2.25 Inch NEMA 23
- Continuous Torques up to 60 lb-in
- Peak Torques up to 90 lb-in
- Ratios 5, 10, 15, 25, 50 & 100 Standard
- "Clamp On" Pinion
- Low Cost Powder Metal Gearing Assembly
- 75 Lb Radial and Axial Load Capacity
- "Bolt On" to NEMA 23 Motors



| Catalog Number | Ratio n : 1 | Torque               |                     | Speed Output Max. rpm | Speed Input Max. rpm | Stage No. | Efficiency % | Gearbox Max. Length L mm / in | Weight kg / lb |
|----------------|-------------|----------------------|---------------------|-----------------------|----------------------|-----------|--------------|-------------------------------|----------------|
|                |             | Cont. Tcs Nm / lb-in | Peak Tps Nm / lb-in |                       |                      |           |              |                               |                |
| J5227          | 5           | 6.78 / 60            | 10.2 / 90           | 600                   | 3000                 | 1         | 90%          | 75.4 / 2.97                   | 0.4 / 0.9      |
| J5232          | 10          | 6.78 / 60            | 10.2 / 90           | 300                   | 3000                 | 2         | 80%          | 90.2 / 3.55                   | 0.6 / 1.3      |
| J5237          | 15          | 6.78 / 60            | 10.2 / 90           | 200                   | 3000                 | 2         | 80%          | 98.3 / 3.87                   | 0.8 / 1.8      |
| J5247          | 25          | 6.78 / 60            | 10.2 / 90           | 120.0                 | 3000                 | 2         | 80%          | 98.3 / 3.87                   | 0.8 / 1.8      |
| J5272          | 50          | 6.78 / 60            | 10.2 / 90           | 60.0                  | 3000                 | 3         | 70%          | 113 / 4.45                    | 1 / 2.2        |
| J5322          | 100         | 6.78 / 60            | 10.2 / 90           | 30.0                  | 3000                 | 4         | 60%          | 128.3 / 5.05                  | 1.2 / 2.6      |

Notes: 1) Backlash accuracy will be typically less than 3 Deg., 2) Add gear length to motor length

| Typical Combinations                    |         | Ke v/krpm | Motor Length mm / in | Perform | Units      | Gear Ratios |           |           |          |          |          |
|---|---------|-----------|----------------------|---------|------------|-------------|-----------|-----------|----------|----------|----------|
| Gear #                                  | Motor # |           |                      |         |            | 5           | 10        | 15        | 25       | 50       | 100      |
| <b>DC Gearmotor Combinations</b>        |         |           |                      |         |            |             |           |           |          |          |          |
| J5xxx -                                 | LG45222 | 5.8       | 102.1 / 4.02         | Speed   | rpm        | 600         | 300       | 200       | 120.0    | 60.0     | 30.0     |
|   |         |           |                      | Tc      | Nm / lb-in | 0.95 / 8.4  | 1.69 / 15 | 2.54 / 23 | 4.2 / 38 | 6.8 / 60 | 6.8 / 60 |
|   |         |           |                      | lc      | amps       | 2.9         | 2.9       | 2.9       | 2.9      | 2.7      | 1.57     |
| J5xxx -                                 | LG45226 | 11        | 127 / 5              | Speed   | rpm        | 600         | 300       | 200       | 120.0    | 60.0     | 30.0     |
|   |         |           |                      | Tc      | Nm / lb-in | 1.59 / 14.1 | 2.82 / 25 | 4.24 / 38 | 6.8 / 60 | 6.8 / 60 | 6.8 / 60 |
|   |         |           |                      | lc      | amps       | 4.9         | 4.9       | 4.9       | 4.7      | 2.7      | 1.57     |
| <b>Brushless Gearmotor Combinations</b> |         |           |                      |         |            |             |           |           |          |          |          |
| J5xxx -                                 | LG45032 | 8.2       | 65.3 / 2.57          | Speed   | rpm        | 600         | 300       | 200       | 120.0    | 60.0     | 30.0     |
|   |         |           |                      | Tc      | Nm / lb-in | 0.65 / 5.8  | 1.15 / 10 | 1.73 / 15 | 2.9 / 26 | 5.1 / 45 | 6.8 / 60 |
|   |         |           |                      | lc      | amps       | 2.0         | 2.0       | 2.0       | 2.0      | 2.0      | 1.57     |
| J5xxx -                                 | LG45052 | 8.4       | 105.2 / 4.14         | Speed   | rpm        | 600         | 300       | 200       | 120.0    | 60.0     | 30.0     |
|   |         |           |                      | Tc      | Nm / lb-in | 1.79 / 15.8 | 3.18 / 28 | 4.76 / 42 | 6.8 / 60 | 6.8 / 60 | 6.8 / 60 |
|   |         |           |                      | lc      | amps       | 5.5         | 5.5       | 5.5       | 4.7      | 2.7      | 1.57     |

Notes 1) Many other gearmotor combinations exist - consult factory, 2) Add Gear & Motor length 3) Add ratio value to J5 Model number as in chart above

