

# GDK Series CNC Centre Milling and Engraving Constant Power Electric Spindles

## Product Overview

High Torque for Low Speed and High Precision for High Speed

Low Noise, Low Vibration, Low Temperature Rise,

Good Rigidity and Long Lifetime

For CNC Metal Milling, Engraving Applications

CE Certificate



Constant Power



Water Cooling



Grease Lubrication

## Specifications

| Models                | Motor            |             |              |              |              |                 |            | Dimensions(mm) |      |      |     |     | Joint of Nose   | Lub.   | Cool | Bearings Type            | Weight<br>kg |
|-----------------------|------------------|-------------|--------------|--------------|--------------|-----------------|------------|----------------|------|------|-----|-----|-----------------|--------|------|--------------------------|--------------|
|                       | Speed<br>(r/min) | Power<br>KW | Torque<br>Nm | Voltage<br>V | Current<br>A | Frequency<br>Hz | Polar<br>P | L              | L1   | L2   | ØD  | ØD1 |                 |        |      |                          |              |
| GDK80-12-24Z/1.2-2.4  | 12000-24000      | 1.2         | 0.96-0.48    | 156-220      | 6.4          | 400-800         | 4          | 284            | 26   | 15   | 80  | 78  | ER20-Ø3.175-Ø13 | Grease | Cool | 2X7005C P4<br>2X7002C P4 | 8            |
| GDK85-12-24Z/1.5-3.0  | 12000-24000      | 1.5         | 1.19-0.60    | 156-220      | 8.0          | 400-800         | 4          | 292            | 26   | 14   | 85  | 78  | ER20-Ø3.175-Ø13 | Grease | Cool | 2X7005C P4<br>2X7002C P4 | 10           |
| GDK100-12-24Z/2.2-4.4 | 12000-24000      | 2.2         | 1.75-0.88    | 269-380      | 6.8          | 400-800         | 4          | 295            | 27.5 | 30.5 | 100 | 78  | ER20-Ø3.175-Ø13 | Grease | Cool | 2X7005C P4<br>2X7003C P4 | 12           |
| GDK105-9-21Z/2.2-5.0  | 9000-21000       | 2.2         | 2.33-1.00    | 249-380      | 6.0          | 150-350         | 2          | 344            | 29   | 55   | 105 | 80  | ER20-Ø3.175-Ø13 | Grease | Cool | 2X7006C P4<br>2X7004C P4 | 15.5         |
| GDK110-9-21Z/2.2-5.0  | 9000-21000       | 2.2         | 2.33-1.00    | 249-380      | 6.0          | 150-350         | 2          | 344            | 29   | 55   | 110 | 80  | ER20-Ø3.175-Ø13 | Grease | Cool | 2X7006C P4<br>2X7004C P4 | 16           |
| GDK110-9-18Z/2.2-4.4  | 9000-18000       | 2.2         | 2.33-1.17    | 249-380      | 6.0          | 150-350         | 2          | 352.5          | 30   | 63.5 | 110 | 85  | ER25-Ø3.175-Ø16 | Grease | Cool | 2X7007C P4<br>2X7004C P4 | 16           |
| GDK120-9-18Z/4.0-8.0  | 9000-18000       | 4.0         | 4.24-2.12    | 269-380      | 12.5         | 450-900         | 6          | 365            | 29   | 59.5 | 120 | 94  | ER25-Ø3.175-Ø16 | Grease | Cool | 2X7007C P4<br>2X7005C P4 | 21           |
| GDK120-9-18Z/5.5-11   | 9000-18000       | 5.5         | 5.84-2.92    | 269-380      | 15.5         | 450-900         | 6          | 395            | 29   | 59.5 | 120 | 94  | ER25-Ø3.175-Ø16 | Grease | Cool | 2X7007C P4<br>2X7005C P4 | 24           |
| GDK125-12-24Z/4.0-8.0 | 12000-24000      | 4.0         | 3.18-1.59    | 380-380      | 8.9          | 200-400         | 2          | 365            | 32.5 | 56   | 125 | 100 | ER25-Ø3.175-Ø16 | Grease | Cool | 2X7007C P4<br>2X7005C P4 | 25           |
| GDK125-9-18Z/4.0-8.0  | 9000-18000       | 4.0         | 4.24-2.12    | 269-380      | 12.5         | 450-900         | 6          | 365            | 29   | 59.5 | 125 | 100 | ER25-Ø3.175-Ø16 | Grease | Cool | 2X7007C P4<br>2X7005C P4 | 25           |
| GDK125-9-18Z/5.5-11   | 9000-18000       | 5.5         | 5.84-2.92    | 269-380      | 15.5         | 450-900         | 6          | 395            | 29   | 59.5 | 125 | 100 | ER25-Ø3.175-Ø16 | Grease | Cool | 2X7007C P4<br>2X7005C P4 | 31           |
| GDK125-9-15Z5.5-11    | 9000-15000       | 5.5         | 5.84-3.50    | 294-380      | 14.0         | 450-750         | 6          | 405            | 35   | 63.5 | 125 | 100 | ER32-Ø3.175-Ø20 | Grease | Cool | 2X7009C P4<br>2X7005C P4 | 31           |
| GDK125-12-24Z7.5      | 12000-24000      | 7.5         | 5.96-2.98    | 380-380      | 15.0         | 400-800         | 4          | 404.5          | 36.5 | 44.5 | 125 | 92  | ER32-Ø3.175-Ø20 | Grease | Cool | 2X7008C P4<br>2X7006C P4 | 28           |
| GDK150-6-12Z/5.5-11   | 6000-12000       | 5.5         | 8.75-4.38    | 269-380      | 14.8         | 200-400         | 4          | 426            | 41   | 18   | 150 | 118 | ER32-Ø3.175-Ø20 | Grease | Cool | 2X7009C P4<br>2X7007C P4 | 46           |
| GDK150-6-12Z/5.5-11B  | 6000-12000       | 5.5         | 8.75-4.38    | 269-380      | 14.8         | 200-400         | 4          | 427            | 42   | 18   | 150 | 118 | ER40-Ø3.175-Ø26 | Grease | Cool | 2X7010C P4<br>2X7007C P4 | 46           |

Note: The above electrical spindle motors' input voltage is ±10% of the rated.

## Mechanical Drawings

