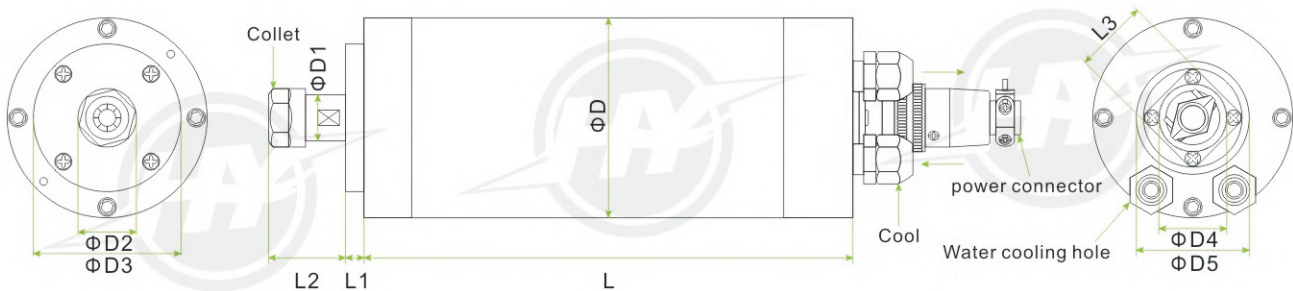




Hyria Electrical Co.,Ltd

Spindle Motor

Model : (GDZ-65-800/220V 800W/220V) (GDZ-65-800B/110V 800W/110V)

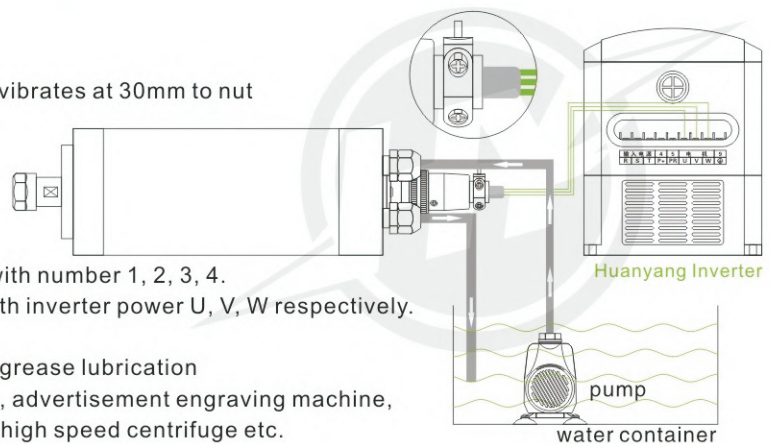


Optional collet ER11(Φ1-Φ7)
factory standard is ER11-Φ6



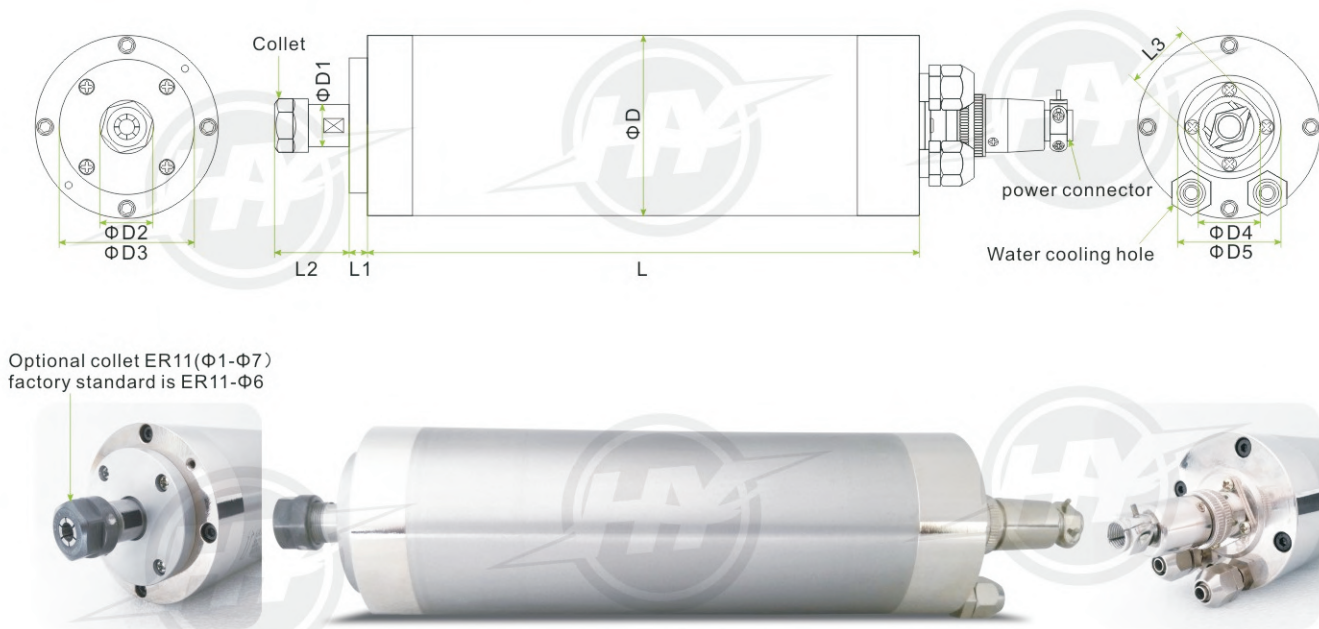
Technical Parameter:

- Material: The cover is made of stainless steel, and the water jacket is high compression casting aluminum tube, red copper coil.
- Bearing: 7002 (1pc) and 7000 (1pc) bearings
- Voltage and rated current: AC 220V, 5A
- Max Rotation Speed: 24,000 RPM
- Radial runout: ≤0.025mm clamping mandrel vibrates at 30mm to nut
- Frequencies: 400Hz
- Size: 65*158 (mm)
- Collet: ER11 collet, 6mm is standard
- Nut model: ER11-A(B)
- Cooling way: water cycling cooling way
- Power interface: GX16 aviation plug marked with number 1, 2, 3, 4.
Number 1, 2 and 3 interfaces are connected with inverter power U, V, W respectively.
Number 4 is connected with earth wire
- Lubrication way: high temperature resistance grease lubrication
- Application: wood carving/engraving machine, advertisement engraving machine, CNC machine, small sized processing center, high speed centrifuge etc.



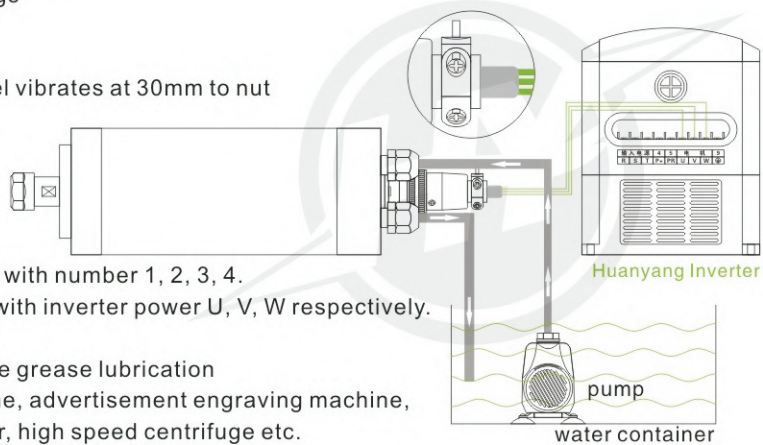
| Model | Specification | | | | | Size(mm) | | | | | | | | | | Collet | Bearings and number |
|-------------|---------------|-----|---------|-------|---------|----------|----|----|----|----|------|-----|----|----|----|-------------|---------------------|
| | Speed r/min | KW | Voltage | HZ | Current | D | D1 | D2 | D3 | D4 | D5 | L | L1 | L2 | L3 | | |
| GDZ-65-800 | 24000 | 0.8 | 220V | 400Hz | 5A | 65 | 15 | 19 | 48 | 24 | 36.7 | 158 | 6 | 25 | 24 | ER11(Φ1-Φ7) | 7002/1 7000/1 |
| GDZ-65-800B | 24000 | 0.8 | 110V | 400Hz | 5A | 65 | 15 | 19 | 48 | 24 | 36.7 | 158 | 6 | 25 | 24 | ER11(Φ1-Φ7) | 7002/1 7000/1 |

Model : (GDZ-65-800A/220V 800W/220V) (GDZ-65-800C/110V 800W/110V)



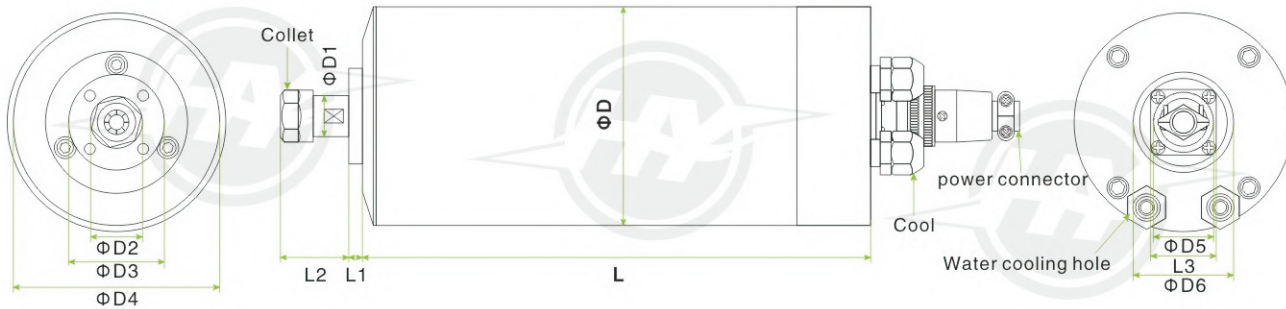
Technical Parameter:

- Material: The cover is made of stainless steel, and the water jacket is high compression casting aluminum tube, red copper coil.
- Bearing: 7002 (2pcs) and 7000 (2pcs) bearings
- Voltage and rated current: AC 220V, 5A
- Max Rotation Speed: 24,000 RPM
- Radial runout: $\leq 0.025\text{mm}$ clamping mandrel vibrates at 30mm to nut
- Frequencies: 400Hz
- Size: 65*196 (mm)
- Collet: ER11 collet, 6mm is standard
- Nut model: ER11-A(B)
- Cooling way: water cycling cooling way
- Power interface: GX16 aviation plug marked with number 1, 2, 3, 4.
Number 1, 2 and 3 interfaces are connected with inverter power U, V, W respectively.
Number 4 is connected with earth wire
- Lubrication way: high temperature resistance grease lubrication
- Application: wood carving/engraving machine, advertisement engraving machine, CNC machine, small sized processing center, high speed centrifuge etc.



| Model | Specification | | | | | Size(mm) | | | | | | | | | | Collet | Bearings and number |
|-------------|---------------|-----|---------|-------|---------|----------|----|----|----|----|------|-----|-----|------|----|-------------|---------------------|
| | Speed r/min | KW | Voltage | HZ | Current | D | D1 | D2 | D3 | D4 | D5 | L | L1 | L2 | L3 | | |
| GDZ-65-800A | 24000 | 0.8 | 220V | 400Hz | 5A | 65 | 15 | 19 | 48 | 22 | 36.7 | 196 | 6.5 | 26.5 | 24 | ER11(Φ1-Φ7) | 7002/2 7000/2 |
| GDZ-65-800C | 24000 | 0.8 | 110V | 400Hz | 5A | 65 | 15 | 19 | 48 | 22 | 36.7 | 196 | 6.5 | 26.5 | 24 | ER11(Φ1-Φ7) | 7002/2 7000/2 |


Model : (GDZ-80-1.5/220V) (GDZ-80-1.5B/110V)

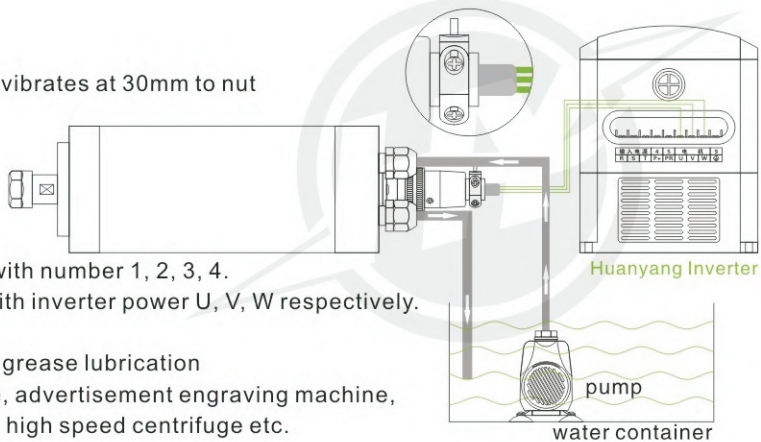


Optional collet ER11($\Phi 1-\Phi 7$)
factory standard is ER11- $\Phi 6$

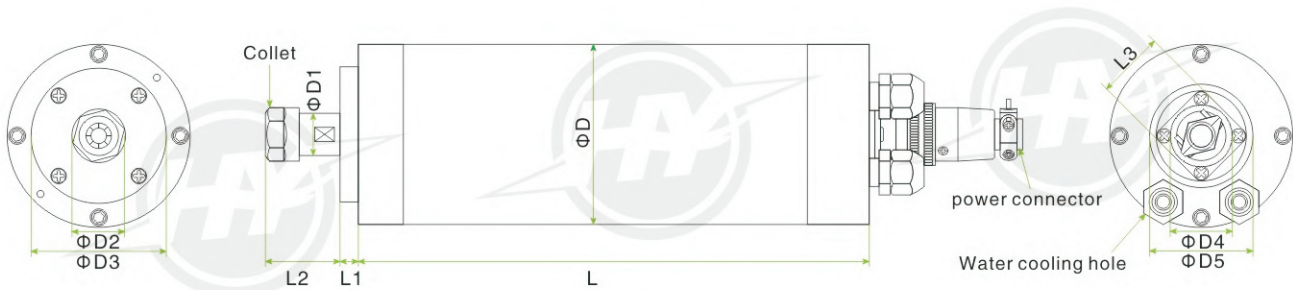


Technical Parameter:

- Material: The cover is made of stainless steel, and the water jacket is high compression casting aluminum tube, red copper coil.
 - Bearing: 6002 bearing (3pcs)
 - Voltage and rated current: AC 220V, 5A
 - Max Rotation Speed: 24,000 RPM
 - Radial runout: $\leq 0.025\text{mm}$ clamping mandrel vibrates at 30mm to nut
 - Frequencies: 400Hz
 - Size: 80*188 (mm)
 - Collet: ER11 collet, 6mm is standard
 - Nut model: ER11-A(B)
 - Cooling way: water cycling cooling way
 - Power interface: GX16 aviation plug marked with number 1, 2, 3, 4.
Number 1, 2 and 3 interfaces are connected with inverter power U, V, W respectively.
Number 4 is connected with earth wire
 - Lubrication way: high temperature resistance grease lubrication
 - Application: wood carving/engraving machine, advertisement engraving machine, CNC machine, small sized processing center, high speed centrifuge etc.
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[illegible]


Model : (GDZ-65-1.5/220V Φ65)

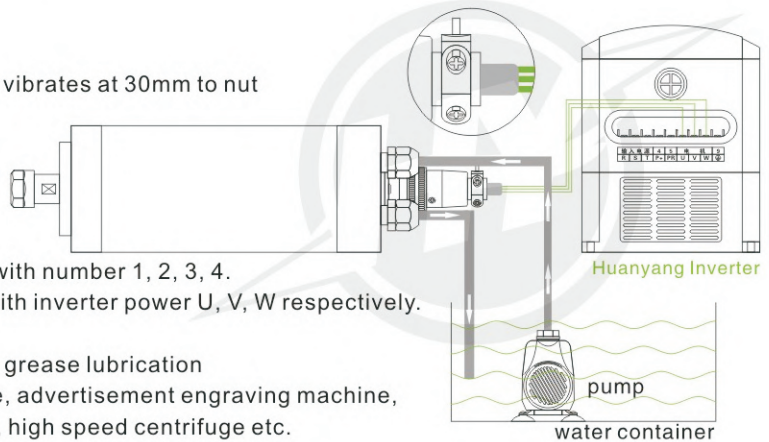


Optional collet ER11($\Phi 1-\Phi 7$)
factory standard is ER11- $\Phi 6$

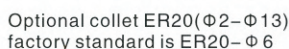


Technical Parameter:

- Material: The cover is made of stainless steel, and the water jacket is high compression casting aluminum tube, red copper coil.
 - Bearing: 6002 bearing (3pcs)
 - Voltage and rated current: AC 220V, 5A
 - Max Rotation Speed: 24,000 RPM
 - Radial runout: $\leq 0.025\text{mm}$ clamping mandrel vibrates at 30mm to nut
 - Frequencies: 400Hz
 - Size: 65*188 (mm)
 - Collet: ER11 collet, 6mm is standard
 - Nut model: ER11-A(B)
 - Cooling way: water cycling cooling way
 - Power interface: GX16 aviation plug marked with number 1, 2, 3, 4.
Number 1, 2 and 3 interfaces are connected with inverter power U, V, W respectively.
Number 4 is connected with earth wire
 - Lubrication way: high temperature resistance grease lubrication
 - Application: wood carving/engraving machine, advertisement engraving machine, CNC machine, small sized processing center, high speed centrifuge etc.
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[illegible]

Model :GDZ-80-2.2B/220V 2.2KW/220V 3 bearings
GDZ-80-2.2A/220V 2.2KW/220V 4 bearings



- [illegible]

[illegible]

Maintenance:

1. The frequency of MF (medium frequency) Power supply for spindle motor should be the same with parameter of spindle. The rotation speed of spindle can be changed by adjusting inverter frequency, and the voltage will also vary directly.
 2. Collision should be avoided between spindle end and workpiece.
 3. Remove cooling liquid by high-pressure air when the spindle is not in use so as to avoid congestion. Keep spindle in a dry place and add a protector to its end.
 4. Try to reduce idle rotation. And check the flow of cooling liquid before starting up.
 5. Bearing should be replaced by professionals without removing stator coil, and be thoroughly cleaned.
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