



Grooving Insert Grinder

DCG-G1



- Equipped with CCD camera for product measurement
- Equipped with proprietary program creation support software
- High-precision grinding of PCD and CBN tools with a highly rigid machine configuration

Grooving Insert Grinder

DCG-G1

| STANDARD SPECIFICATIONS | | |
|--|--------------------------|--|
| Workpiece | Objects of grinding | Various grooving tools Dog bone shape, Triangular |
| | Material | Carbide, Cermet, Ceramics, CBN, PCD |
| CCD camera | Lens magnification | 0.5 magnification |
| | Shooting range | Vertical 10mm × Horizontal 12mm |
| | Monitor size | 15 type 19 type (Option) |
| | Monitor magnification | 30 magnification |
| X axis (In-feed) | Maximum travel | -60 ~ 0 mm |
| | Maximum rapid feed rate | 5 m/min |
| | Motor | AC servo motor |
| Y axis (Oscillation) | Maximum travel | -110 ~ +110 mm |
| | Maximum rapid feed rate | 5 m/min |
| | Motor | AC servo motor |
| Spindle unit | Grinding wheel size | Outside diameter ϕ 200 mm |
| | Wheel rotation speed | 400 ~ 3,000 min ⁻¹ |
| | Motor | Induction motor |
| Spindle unit angle varying (Manual handle) | Maximum travel | 0 ~ +30 deg |
| C axis (Swivelling work table) | Maximum travel | -110 ~ +110 deg |
| | Maximum rapid feed rate | 5,000°/min |
| | Motor | AC servo motor |
| Worktable up and down | Maximum travel | 80 mm |
| | Motor | Induction motor with reducer |
| In-process cleaning device | Cleaning wheel size | Outside diameter ϕ 150 mm |
| | Wheel rotation speed | 300 ~ 1,000 min ⁻¹ |
| | Motor | 0.2kW motor |
| | In-feed speed | 0~240mm/min |
| Automatic lubricator | Lubrication method | Automatic |
| | Lubrication point | XY axis linear guide and ball screw |
| | | Wheelhead variable angle sliding surface |
| | | Table up and down: linear guide |
| | | Table front/rear/left/right sliding surface |
| Standard accessories | Wheel replacement wrench | |

| DRIVE SOURCE | | |
|-------------------------|------------------|-----------|
| Electric | AC200V (50/60Hz) | |
| Total Electric Capacity | 8kVA | |
| Compressed Air | Primary Pressure | 0.45MPa以上 |
| | Air Consumption | 250NL/min |

| NC STANDARD SPECIFICATION | | |
|-----------------------------------|--------------------------|--------------------------|
| NC Unit | FANUC Series 0iF PANEL i | |
| Control Axis | Name of all control axis | X axis (In-feed) |
| | | Y axis (Oscillation) |
| | | C axis (Swiveling table) |
| Maximum Simultaneous Control Axis | 3 axes | |

| MACHINE SIZE | |
|----------------|---------------------|
| W×D×H | 1,600x1,800x2,270mm |
| Machine weight | 3,000kg |

| OPTION | | |
|------------------------------|----------------------------|-------------------------------|
| Dressing device | Diameter of dressing wheel | Outside diameter ϕ 100mm |
| | Wheel rotation speed | 800~1,500min ⁻¹ |
| | Motor | 0.2kW motor |
| Grinding fluid supply device | Tank capacity | 100L |
| Grinding fluid outlet | For WAIDA tank | |
| Mist collector | | |
| Splash gun / Air gun | | |
| Automatic indexing device | | |

Note

※This product may be regulated by the Foreign Exchange and Foreign Trade Control Law. Be sure to consult us before exporting the product to a foreign country.

※Specifications in this catalog may be changed without notice due to improvement of the product, etc.

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