CNC Optical Profile Grinders

These grinders are CNC profile grinders with high accuracy accounting for top share in the world, designed for grinding precise molds and dies for various lead frames, connectors, and electronics, etc., used for press molds and dies. We are also proud of our optical grinders which are made to be capable of doing mirror grinding of carbide punches and dies, and/or ceramic punches, which play an important role in the press molds and dies, for the first time in the grinder manufacturing circles, preventing carbide workpiece surfaces from being changed in quality by heat, and mirror finish can greatly contribute to the longevity of molds and dies.

High Speed type

PGX-2500N *(Specifically developed NC system)*  
PGX-2500SP *(Fanuc NC system)*  
CNC optical profile grinder  
(Principle features)  
1) Grinding for parts for precise molds and dies, formed tools, and rollers.  
2) High-speed grinding  
3) High accuracy and Mirror grinding  
(Machine specification)  
1) Worktable Travel(U-axis) : 250mm  
2) Worktable Travel(W-axis) : 150mm  
3) Strokes(inverter speed change) : 0min⁻¹ to 400min⁻¹  
4) Stroke amount : 5mm to 110mm  
5) Grinding wheel spindle Travel(X-axis) : 200mm  
6) Grinding wheel spindle Travel(Y-axis) : 150mm

Fully automatic type

SPG-7 *(Specifically developed NC system)*  
Fully automatic CNC Profile grinder  
(Principle features)  
1) Unmanned grinding for extended operation time is possible  
2) High-speed grinding  
3) High accuracy and Mirror grinding  
4) Automatic wheel dresser and Automatic wheel measuring unit  
(Machine specification)  
1) Work table rotation range(C-axis) : 360deg.  
2) Strokes(inverter speed change) : 100min⁻¹ to 500min⁻¹  
3) Stroke amount : 30mm
Multi type

PGX-2000SP (Fanuc NC system)
CNC optical profile grinder
(Principle features)
1) Grinding for parts for precise molds and dies, formed tools, and rollers.
2) High accuracy
(Machine specification)
1) Worktable Travel(U-axis) : 250mm
2) Worktable Travel(W-axis) : 150mm
3) Strokes(inverter speed change) : 0min⁻¹ to 100min⁻¹
4) Stroke amount : 0mm to 160mm
5) Grinding wheel spindle Travel(X-axis) : 200mm
6) Grinding wheel spindle Travel(Y-axis) : 150mm

For optical profile grinder

NSP-55 High Precision NC Plotter
(Principle features)
1) NC Plotter specially made for Optical Profile Grinder
2) Simultaneous 3 axis control + Scribing cutter vertical axis control
3) Positioning accuracy within +0.02mm or less to -0.02mm less
4) Easy operation by WAIDA original CAD + PC with Windows 2000
(Machine specification)
1) Scribing range : 500mm*500mm
2) Reading function for DXF
We are proud of our JG grinders with their Z axes successfully controlled by NC for the first time in the world in 1980, and of top share in domestic market, because of their splendid functions, effective operation, and good cost performance. This machine can be widely used not only for grinding plate holes for press molds and dies, and precise parts for IC molds and dies, but also for doing complicated profile shapes by dint of C axis normal direction control, bottom grinding with high accuracy by Z axis control, screws and/or machining in three dimensions by simultaneous control of four axes of X, Y, Z, and C.

WAIDA MFG. CO., LTD.
JG-15CPX *(Fanuc NC system)*
CNC jig grinder

**(Principle features)**
1) Simultaneous control axes of X, Y, Z, and C
2) The minimum setting unit: 0.0001mm, 0.0001 deg.
3) NC control of Z-axis allows grinding of bottom contours
4) A fine wheel of dia. 0.1mm is used to enable ultra-fine grinding that has conventionally been unfeasible

**(Machine specification)**
1) Working area: 300mm*200mm
2) Table crosswise travel (X-axis): 250mm
3) Table longitudinal travel (Y-axis): 200mm
4) Quill vertical (Z-axis): 70mm

UJG-35 *(Fanuc NC system)*
CNC jig grinder

**(Principle features)**
1) Simultaneous control axes of X, Y, Z, and C
2) The minimum setting unit: 0.0001mm, 0.0001 deg.
3) NC control of Z-axis allows grinding of bottom contours
4) A fine wheel of dia. 0.1mm is used to enable ultra-fine grinding that has conventionally been unfeasible
5) New wheel out-feed axis

**(Machine specification)**
1) Working area: 700mm x 320mm
2) Table crosswise travel (X-axis): 600mm
3) Table longitudinal travel (Y-axis): 300mm
4) Quill vertical (Z-axis): 120mm
**UJG-45 (Fanuc NC system)**
CNC jig grinder

**(Principle features)**
1) Simultaneous control axes of X, Y, Z, and C
2) The minimum setting unit : 0.0001mm, 0.0001 deg.
3) NC control of Z-axis allows grinding of bottom contours
4) A fine wheel of dia. 0.1mm is used to enable ultra-fine grinding that has conventionally been unfeasible
5) New wheel out-feed axis

**(Machine specification)**
1) Working area : 700mm x 450mm
2) Table crosswise travel (X-axis) : 600mm
3) Table longitudinal travel (Y-axis) : 400mm
4) Quill vertical (Z-axis) : 120mm

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**JG-70UMX (Fanuc NC system)**
CNC jig grinder

**(Principle features)**
1) Designed for grinding large plates
2) Simultaneous control axes of X, Y, Z, and C
3) The minimum setting unit : 0.0001mm 0.0001 deg.
4) With a built-in high accuracy measurement system
5) NC control of Z-axis allows grinding of bottom contours

**(Machine specification)**
1) Working area : 1,300mm*650mm
2) Table crosswise travel(X-axis) 1,300mm
3) Table longitudinal travel(Y-axis) 650mm
4) Quill vertical (Z-axis) 120mm