Micro-Finishing & Grinding Solutions

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E-Mail: info@lprglobal.com
Parts Manufacturing Machines

- Superfinishing Machine

Superfinishing Machine

Superfinishing Machine (SLR-650)
- Machining Type: Through-feed full automatic
- Workpiece Mounting: Support rod & feed roll (Ø152 x 650 L)
- Machining Dia. Range: 4.5 – 60
- Machining Length Range: Max. 1000
- Oscillation: Air bearing slide
- Oscillation Stroke: 0.5/1.0/1.5/2.0/2.5
- Oscillation Speed: 700 – 2500fpm
- Stone Guide: Air cylinder pressurizing type 6–8 sets
- Stone Guide Pressure: 1.0 – 4.0kgf/ m²
- Tilting Angle: ±5°
- Swivel Angle: ±2°
- Up-Down Stroke: 90mm
- Oscillation Motor: 0.6kW 4P AC motor
- Oscillation Roll Drive: 3.7kW 4P AC motor

Superfinishing Machine (SSF-80A(B))
- Machining Type: 2-head type stone oscillating
- Workpiece Mounting: Arbor (socket ring) + Pressure roller
- Machining Dia. Range: 25 – 85 (outer race) / 15 – 60 (inner race)
- Machining Width Range: 6 – 40
- Loader: Index type
- Oscillation Unit: LM bearing slide
- Oscillation Stroke: 0 – 18°/ 0 – 8mm
- Oscillation Speed: 50 – 2500fpm
- Spindle RPM: Max. 3000rpm (outer race)
  Max. 2500rpm (inner race)
- Oscillation Drive: 0.37kW 2P AC Motor (R 0.8kW servo)
- Spindle Drive: 2.2kW 2P AC motor
- Oil Pressure: 0.37kW 4P AC motor (brake)
Superfinishing Machine

Superfinishing Machine (DSF-500)

- Workpiece OD (mm): Ø8 – Ø40
- Workpiece Length (mm): 100 – 640
- Workpiece Ra (μm): 0.5
- Stone Guide: Air type
- Coolant Oil: Non-soluble oil
- Oscillation: Motor type
- Oscillation Support: Air bearing
- Oscillation Stroke (mm): 1 (1.5, 2)
- Oscillation Speed: 1100 – 2500fpm
- Roller OD (mm): 90
- Roller Length (mm): 500
- Roller Traversing angle: 1°
- Roller RPM: 100 – 400

Superfinishing Machine (DSF-900)

- Workpiece OD (mm): Ø8 – Ø40
- Workpiece Length (mm): 100 – 640
- Workpiece Ra (μm): 0.5
- Stone Guide: Hydraulic type
- Coolant Oil: Non-soluble oil
- Oscillation: Motor type
- Oscillation Support: Ball Stroke
- Oscillation Stroke (mm): 1 (1.5, 2)
- Oscillation Speed: 450 – 2500fpm
- Roller OD (mm): 125
- Roller Length (mm): 900
- Roller Traversing angle: 2°
- Roller RPM: 100 – 450
Parts Manufacturing Machines

- Superfinishing Machine

Superfinishing Machine

- Work: Input & output shaft
- Machining Detail: Super finishing for bearing seats
- Cycle Time: 35 sec.
- Weight: 4 tons

Superfinishing Machine

- Work: Input shaft for auto transmission
- Machining Detail: Super finishing for bearing seats
- Cycle Time: 38 sec.
- Weight: 4 tons

Superfinishing Machine

- Work: Input shaft
- Machining Detail: Super finishing for bearing seats
- Cycle Time: 35 sec.
- Weight: 4 tons

Superfinishing Machine

- Work: Piston pin
- Machining Detail: Through-feed type
- Weight: 2.5 tons

Equipment Image

Equipment Image

Equipment Image

Equipment Image
**Crank Lapping Machine**

- **Crank Lapping Machine**
  - Work: Crank shaft
  - Machining Detail: Lapping for journals, pins, oil seal and thrust part
  - Cycle Time: 60 sec.
  - Weight: 6 tons

- **Crank Lapping Machine**
  - Work: Crank shaft
  - Machining Detail: Lapping for journals, pins and oil seal
  - Cycle Time: 42 sec.
  - Weight: 15 tons

- **Crank Lapping Machine**
  - Work: Crank shaft
  - Machining Detail: Lapping for journals, pins and oil seal
  - Cycle Time: 52 sec.
  - Weight: 7 tons

- **Crank Lapping Machine**
  - Work: Crank shaft
  - Machining Detail: Lapping for journals, pins and oil seal
  - Cycle Time: 45 sec.
  - Weight: 7 tons

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Crank Lapping Machine

- Crank Lapping Machine

- Work: Crank shaft
- Machining Detail: Lapping for journals, pins and oil seal
- Cycle Time: 50 sec.
- Weight: 6 tons

Equipment Image

- Work: Crank shaft
- Machining Detail: Lapping for journals, pins, oil seal and thrust face
- Cycle Time: 3.4 min.
- Weight: 9 tons

Equipment Image

- Work: Crank shaft
- Machining Detail: Lapping for journals and pins
- Cycle Time: 39 sec.
- Weight: 11 tons

Equipment Image
Cam Lapping Machine

- Work: Cam shaft
- Machining Detail: Lapping for journals and oil seal
- Cycle Time: 60 sec.
- Weight: 8 tons

Equipment Image

- Work: Cam shaft
- Machining Detail: Lapping for journals and cam lobes
- Cycle Time: 40 sec.
- Weight: 11 tons
Lapping Machine / Buffing Machine

**Lapping Machine**

- Work: Output gear
- Machining Detail: Lapping for bearing seat
- Cycle Time: 23 sec.
- Weight: 3 tons

**Buffing Machine**

- Work: Steering rack bar
- Machining Detail: Buffing for outer face
- Cycle Time: 35 sec.
- Weight: 3 tons

**Lapping Machine**

- Work: Steering rack bar
- Machining Detail: Lapping for back side of rack area
- Cycle Time: 28 sec.
- Weight: 5 tons

Parts Manufacturing Machines
Lapping Machine

Lapping Machine (SSF-120A/B)

- Machining Type: Oscillating
- Workpiece Mounting: Two shoe + Pressure roller
- Machining Dia. Range:
  - 15 – 110 (outer race)
  - 15 – 90  (inner race)
- Machining Width Range: 6 – 65
- Loading: Cassette type
- Oscillating Unit: Air bearing slide
- Oscillating Stroke: 0.5/1.0/1.5/2.0/2.5
- Oscillating Speed: 300 – 2000fpm
- Spindle RPM:
  - Max. 3300rpm (outer race)
  - Max. 2200rpm (inner race)
- Oscillation Drive: 0.4kW 4P AC motor
- Spindle Drive: 1.5kW 4P AC motor

Equipment Image
Centerless Grinding Machine

**Centerless Grinder (SGC-200)**
- Grinding Type: Centerless through-feed or in-feed
- Workpiece Mounting: Workrest support
- Machining Dia. Range: 2 – 120
- Machining Length Range: Max. 200mm
- Loading: Through-feed or In-feed
- Dress Type: Traverse type point diamond dresser
- G.W. (mm): 510 (D) x 255 (W) x 304.8 (B)
- R.W. (mm): 305 (D) x 255 (W) x 177.8 (B)
- R.W. Table: AC servo 3.0kW
- G.W. Drive: 1.5kW 4P AC motor
- R.W. Drive: 1.5kW 4P (gear reducer type)

**Centerless Grinder (SGC-300)**
- Grinding Type: Centerless through-feed or in-feed
- Workpiece Mounting: Workrest support
- Machining Dia. Range: 4 – 120
- Machining Length Range: Max. 300mm
- Loading: Through-feed or In-feed
- Dress Type: Traverse type point diamond dresser
- G.W. (mm): 610 (D) x 305 (W) x 304.8 (B)
- R.W. (mm): 330 (D) x 305 (W) x 203.2 (B)
- R.W. Table: AC servo 3.7kW
- G.W. Drive: 22kW 4P AC motor
- R.W. Drive: 2.2kW 4P (gear reducer type)
Centerless Grinding Machine

Centerless Grinder (SGC-500)

- Grinding Type: Centerless through-feed or in-feed
- Workpiece Mounting: Workrest support
- Machining Dia. Range: 10 – 150
- Machining Length Range: Max. 500mm
- Loading: Through-feed or In-feed
- Dress Type: Traverse type point diamond dresser
- G.W. (mm): 610 (D) x 510 (W) x 304.8 (B)
- R.W. (mm): 380 (D) x 510 (W) x 254 (B)
- G.W. Table: AC servo 3.7kW
- R.W. Table: AC servo 3.7kW
- G.W. Drive: 45kW(37kW) 4P AC motor
- R.W. Drive: 5.5kW 4P (gear reducer type)
Centerless Grinding Machine

▶ Centerless Grinder (DC-18AT)

Machine Structure & Design

1. Symmetrical base structure
2. Certified rigid structure by FEM Evaluation
3. Excellent vibration absorption & stability
4. Consistent heat conductivity with limited temperature flow
5. Operation optimization with ergonomic design features

High Precision / High Efficiency / High Quality

1. Spindle
   - High rigidity & high precision hydrodynamic bearings
2. Feed Shaft
   - Multiple layer slide structure provides long term precision, and stable and repeatable precision for micron control
3. Dressing Shaft
   - High precision feed control provides stable wheel dressing

Excellent Operator Controls

1. Feed Controls
   - Operative convenience and versatile application (upper / lower slides)
2. Horizontal Tilting Controls
   - Tilts up to ±2°, and eases control of axle and taper angle during operation
3. Operation
   - Reverse control tilts up to ±5°, and allows a wide range of change of passage rate
   - Stepless Variable Speed control

An Innovative Machine with Excellent Features
# Parts Manufacturing Machines

## - Grinding Machine

### DC-18AT

<table>
<thead>
<tr>
<th>WORK SIZE(Ø)</th>
<th>Carbide Blade Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 ~ 2.0mm</td>
<td>T= 1mm</td>
</tr>
<tr>
<td>3.0 ~ 4.0mm</td>
<td>T= 2mm</td>
</tr>
<tr>
<td>4.0 ~ 5.0mm</td>
<td>T= 3mm</td>
</tr>
<tr>
<td>5.0 ~ 7.0mm</td>
<td>T= 4mm</td>
</tr>
<tr>
<td>6.0 ~ 8.0mm</td>
<td>T= 5mm</td>
</tr>
<tr>
<td>8.0 ~ 10mm</td>
<td>T= 6mm</td>
</tr>
<tr>
<td>10 ~ 16mm</td>
<td>T= 7mm</td>
</tr>
<tr>
<td>12 ~ 20mm</td>
<td>T= 10mm</td>
</tr>
<tr>
<td>15 ~ 30mm</td>
<td>T= 12mm</td>
</tr>
<tr>
<td>25mm ~</td>
<td>T= 20mm</td>
</tr>
</tbody>
</table>

### Standard & Special Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grinding wheel(G/W)</td>
<td>Balancing stand &amp; arbor</td>
</tr>
<tr>
<td>Regulating wheel(R/W)</td>
<td>Magnetic separator(80L)</td>
</tr>
<tr>
<td>G/W flange</td>
<td>Auto lubrication unit</td>
</tr>
<tr>
<td>R/W flange</td>
<td>Jib crane(attached body)</td>
</tr>
<tr>
<td>G/W diamond dresser</td>
<td>Coolant cooling system</td>
</tr>
<tr>
<td>R/W diamond dresser</td>
<td>Oil cooling system</td>
</tr>
<tr>
<td>Standard workrest(T/F or I/F)</td>
<td>Paper filter</td>
</tr>
<tr>
<td>Standard blade(T/F or I/F)</td>
<td>Cyclone system(Spiclon filter)</td>
</tr>
<tr>
<td>Liner</td>
<td>Mist collector</td>
</tr>
<tr>
<td>Guide plate</td>
<td>Special workrest &amp; base</td>
</tr>
<tr>
<td>Coolant pump with tank</td>
<td>Special dressing device &amp; base</td>
</tr>
<tr>
<td>Filter element</td>
<td>Auto feeding device for R/W</td>
</tr>
<tr>
<td>Auto lubrication unit</td>
<td>Auto feeding device for G/W</td>
</tr>
<tr>
<td>Maintenance tools</td>
<td>Auto work feeder</td>
</tr>
</tbody>
</table>
Centerless Grinding Machine

- Centerless Grinder (DC-24BG)

DC-24BG Machine Features

1. Great rigid structure
2. Hard turning centerless grinder; dual support on spindle shaft enables high precision and high efficiency.
3. Specially designed spindle bearing (taper roller & angular ball bearing) with optimal pre-load, configuration and forced blast lubrication allow maximum precision and longer lifespan.
4. Precision ball screw used; high precision feeding guaranteed with optimal high quality assurance even during hard turning.

<table>
<thead>
<tr>
<th>STANDARD ACCESSORIES</th>
<th>SPECIAL ACCESSORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grinding wheel with flange</td>
<td>1. Programed auto balancer</td>
</tr>
<tr>
<td>Regulating wheel with flange</td>
<td>2. Carbide blades of different size</td>
</tr>
<tr>
<td>Coolant pump with tank</td>
<td>3. Equipment for long bar grinding</td>
</tr>
<tr>
<td>Standard thrufeed workrest with carbide blade 5/6”(8mm)</td>
<td>4. Profile dressing device</td>
</tr>
<tr>
<td>Liner</td>
<td>5. Automatic truing device for grinding wheel</td>
</tr>
<tr>
<td>Filter element</td>
<td>6. Work ejector</td>
</tr>
<tr>
<td>Maintenance tools</td>
<td>(Hydraulic pneumatic electromagnetic system)</td>
</tr>
<tr>
<td></td>
<td>7. Electro-hydraulic automatic infeed attachment</td>
</tr>
<tr>
<td></td>
<td>8. Automatic work feeder for infeed or thrufeed grinding attachment</td>
</tr>
<tr>
<td></td>
<td>9. Magnetic coolant separator</td>
</tr>
<tr>
<td></td>
<td>10. Jib crane</td>
</tr>
<tr>
<td></td>
<td>11. Spiclon filter</td>
</tr>
</tbody>
</table>
# Additional Centerless Grinding Machine

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>DC-18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grinding capacity</td>
<td>1mm<del>40mm(25mm</del>100mm)</td>
</tr>
<tr>
<td>Grinding wheel (Diameter × Width × Bore)</td>
<td>Ø455×205×Ø228.6mm</td>
</tr>
<tr>
<td>Regulating wheel (Diameter × Width × Bore)</td>
<td>Ø255×205×Ø111.2mm</td>
</tr>
<tr>
<td>R.P.M of grinding wheel</td>
<td>1,500 R.P.M. (2,000 m/min)</td>
</tr>
<tr>
<td>R.P.M of regulating wheel</td>
<td>10~308 R.P.M. (Stepless)</td>
</tr>
<tr>
<td>Motor for grinding wheel spindle</td>
<td>Standard 11kw(15HP)×4P, Special 15kw(20HP)×4P</td>
</tr>
<tr>
<td>Motor for regulating wheel spindle</td>
<td>1.5kw(20HP)×4P</td>
</tr>
<tr>
<td>Tilting angle of regulating wheel</td>
<td>±5°</td>
</tr>
<tr>
<td>Swiveling angle of regulating wheel</td>
<td>±2°</td>
</tr>
<tr>
<td>Floor space</td>
<td>2,000mm×1,200mm</td>
</tr>
<tr>
<td>Net weight</td>
<td>3,000kg</td>
</tr>
<tr>
<td>Resolution of table</td>
<td>0.1 μm</td>
</tr>
<tr>
<td>Dressing device</td>
<td>Y-axis(manual), Z-axis(hydraulic)</td>
</tr>
<tr>
<td>Coolant device</td>
<td>Pump capacity - 150liter/min, Tank capacity - 80liter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Etc. specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant device</td>
<td>Supported by 3 sets of hydrodynamic bearings</td>
</tr>
<tr>
<td>Hydraulic motor</td>
<td>0.75kw</td>
</tr>
<tr>
<td>Coolant motor</td>
<td>0.18kw</td>
</tr>
</tbody>
</table>
# Parts Manufacturing Machines

## - Grinding Machine

### Additional Centerless Grinding Machine

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>DC-24HS(25)</th>
<th>DC-24BG(40)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grinding capacity</td>
<td>Ø2~Ø100mm</td>
<td>Ø2~Ø160mm</td>
</tr>
<tr>
<td>Grinding wheel (Diameter × Width × Bore)</td>
<td>Ø610×205(255)×Ø304.8mm</td>
<td>Ø610×305(255)×Ø304.8mm</td>
</tr>
<tr>
<td>Regulating wheel (Diameter × Width × Bore)</td>
<td>Ø355×205(255)×Ø177.8mm</td>
<td>Ø355×305(405)×Ø203.2mm</td>
</tr>
<tr>
<td>R.P.M of grinding wheel</td>
<td>1,400 R.P.M. (2,700 m/min)</td>
<td>1,250 R.P.M. (2,400 m/min)</td>
</tr>
<tr>
<td>R.P.M of regulating wheel</td>
<td>Stepless 10~190 R.P.M</td>
<td>Stepless 10~190 R.P.M</td>
</tr>
<tr>
<td>Motor for grinding wheel spindle</td>
<td>1.5kw(20HP)×Special 22kw(30HP)</td>
<td>22kw(30HP), 37kw(50HP)</td>
</tr>
<tr>
<td>Motor for regulating wheel spindle</td>
<td>1.5kw(2HP)×Special 2.25kw(3HP)</td>
<td>1.5kw(2HP)×Special 2.25kw(3HP)</td>
</tr>
<tr>
<td>Tilting angle of regulating wheel</td>
<td>±5°</td>
<td>±5°</td>
</tr>
<tr>
<td>Swiveling angle of regulating wheel</td>
<td>±3°</td>
<td>±3°</td>
</tr>
<tr>
<td>Floor space (Approx.)</td>
<td>2,700mm×2,600mm</td>
<td>2,900mm×2,600mm</td>
</tr>
<tr>
<td>Net weight (Approx.)</td>
<td>4,500kg (5,000kg)</td>
<td>6,500kg (7,500kg)</td>
</tr>
<tr>
<td>Resolution of table</td>
<td>0.1 µm</td>
<td>0.1 µm</td>
</tr>
<tr>
<td>Coolant device</td>
<td>Pump &amp; Tank capacity – 200liter/min 120(240)liter</td>
<td>Pump &amp; Tank capacity - 200liter/min 240liter</td>
</tr>
<tr>
<td>Etc. specifications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grinding &amp; regulating spindle</td>
<td>Support by 3 sets of hydrodynamic bearings</td>
<td>Dual support bearings</td>
</tr>
<tr>
<td>Inverter stepless - LS</td>
<td>Inverter stepless - LS</td>
<td></td>
</tr>
<tr>
<td>Hydraulic motor</td>
<td>1.5kw</td>
<td>0.75kw</td>
</tr>
<tr>
<td>Coolant motor</td>
<td>0.25kw</td>
<td>0.4kw</td>
</tr>
</tbody>
</table>

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Internal Grinding Machine

**Internal Grinder (SGI-120)**

- **Grinding Type**: NC Oscillation or Plunge
- **Workpiece Mounting**: Two-shoe & Magnet chuck (2rolls&1shoe)
- **Machining Dia. Range**: 20 – 120
- **Machining Width Range**: 5 – 40
- **Machining Bore Range**: 12 – 100
- **Loading**: Flow type or Cassette type
- **Dress Type**: Up-down type with point (rotary) diamond dresser
- **Spindle Rotating Angle**: ±1°/-2 to +30°
- **Spindle Height**: About FL 1050
- **Work Spindle RPM**: 220 – 800rpm / 500 – 2000rpm
- **Cross Spindle Stroke**: 125
- **Cross Slide**: AC Servo 1.5kW
- **G.W. Table**: AC Servo 1.5kW
- **Work Spindle**: 1.5kW 4P motor
- **G.W. (Belt Drive)**: 7.5kW 2P AC motor

**Internal Grinder (SGI-200)**

- **Grinding Type**: NC Oscillation or Plunge
- **Workpiece Mounting**: Two-shoe & Magnet chuck (2rolls&1shoe)
- **Machining Dia. Range**: 90 – 220
- **Machining Width Range**: 20 – 80
- **Machining Bore Range**: 60 – 200
- **Loading**: Flow type or Cassette type
- **Dress Type**: Up-down type with point (rotary) diamond dresser
- **Spindle Rotating Angle**: ±1°/-2 to +30°
- **Spindle Height**: About FL 1050
- **Work Spindle RPM**: 220 – 800rpm / 500 – 2000rpm
- **Cross Slide**: AC Servo 1.5kW
- **G.W. Table**: AC Servo 3.0kW
- **Work Spindle**: 1.5kW 4P motor
- **G.W. (Belt Drive)**: 7.5kW 2P AC motor
Parts Manufacturing Machines

- Grinding Machine

External Grinding Machine

جمال التسخين (SGE-400)
- نوع التسخين: NC Controlled Plunge
- مثبت قطعة العمل: جلد منقط وأمرون حبل
- نطاق الإعداد: 10 – 65
- نطاق الإعداد: 6 – 50
- حث: حث واحد أو حثين
- مدرة: مدرة صدر النحت
- زاوية مدرة: -6 إلى +35°
- مدرة التسخين: من النوع قلبي مدرة حفرية أو من النوع مدرة حفرية
- ارتفاع المدرة: حوالي FL 1150
- مدرة العمل: 150 – 1800rpm
- مدرة الدوار: 2500rpm
- حجم الدوار: 510(450)(D) x 50(W) x 304.8(B)mm
- حجم الطاولة: AC Servo 1.5kW
- مدرة الطاولة: AC Servo 1.5kW
- مدرة الدوار: 1.5kW 4P AC motor
- حجم الدوار (محمل): 7.5kW 2P AC motor

جمال التسخين (SGE-500)
- نوع التسخين: NC Controlled Plunge
- مثبت قطعة العمل: جلد منقط وأمرون حبل
- نطاق الإعداد: 20 – 100
- نطاق الإعداد: 10 – 50
- حث: حث واحد أو حثين
- مدرة: مدرة صدر النحت
- زاوية مدرة: -6 إلى +35°
- مدرة التسخين: من النوع قلبي مدرة حفرية أو من النوع مدرة حفرية
- ارتفاع المدرة: حوالي FL 1150
- مدرة العمل: 150 – 1800rpm
- مدرة الدوار: 2200rpm
- حجم الدوار: 510(D) x 50(W) x 304.8(B)mm
- حجم الطاولة: AC Servo 3.0kW
- مدرة الطاولة: AC Servo 1.5kW
- مدرة الدوار: 1.5kW 4P AC motor
- حجم الدوار (محمل): 11kW 2P AC motor
- مدرة صدر النحت: 0.75kW 2P AC motor
Grinding Machine

Rib Grinding Machine (SGTR-200)
- Grinding Type: NC Controlled Plunge
- Workpiece Mounting: Two-shoe & Magnet chuck
- Machining Dia. Range: 30 – 100
- Machining Width Range: 10 – 55
- Loading: Single or double arm type
- Dresser: Point traverse type
- Spindle Angle Range: 0 to +25°
- Grinding Spindle: High frequency spindle or belt spindle
- Spindle Height: About FL 11000
- Work Spindle RPM: 400 – 1200rpm
- Stone Spindle RPM: Max. 9000rpm
- G.W.: 160(OD) x 12(W) x 50.8(B)mm
- G.W. Table: AC Servo 1.5kW
- Dress Table: AC Servo 1.5kW
- Spindle Drive: 1.5kW 4P AC motor

Grinding Machine for T/R (SGRB-350(250))
- Machining Type: Pressing upper ring + Lower ring, Idle carrier
- Machining Dia. Range: 5 – 25 (4 – 15)
- Machining Length Range: 10 – 45 (6 – 30)
- R Range: Max. R350 (R50 – 230)
- Speed Control: Differential drive gear
- Main Spindle: 100 – 400 (165 – 650)rpm
- Carrier Speed: 1.5 – 9rpm
- Pressing Power: Max. 2500kg (Max. 1500kg)
- Main Motor: 11kW 6P (5.5kW 4P) AC motor
- Differential Motor: 0.4kW 4P stepless
Grinding Machine

**Screw Grinding Machine (SGS-1000)**
- Machining Type: Plunge
- Workpiece Mounting: Center (BRG. Housing support)
- Machining Dia. Range: Max. 350
- Machining Length Range: Max. 950 (G/W width: based on 50)
- Pitch Range: 0 – 360
- Loading: Manual
- Dresser: 2-Axis point (rotary) diamond dresser
- G.W. Tilting: ±40°
- G.W. Diameter: O.D. Ø500, I.D. Ø203 (max. 50W)
- Work Spindle Speed: 0.2 – 100rpm
- Dress Feed Slide Stroke: 80mm

**Vertical Double Disc Grinding (SGDV-585)**
- Grinding Type: Rotary Carrier
- Machining Dia. Range: Max. 135
- Machining Width Range: Max. 50
- G.W.: 585(OD) x 75 (W) x 195(B)
- Wheel Speed: 300 – 900rpm
- Carrier Size: O.D. 820
- Carrier Speed: 0 – 10rpm
- Space Between Wheels: 80
- Dresser: Swing arm type point dresser
- G.W. Motor: 22kW 4P
- Carrier Motor: Hydraulic
- G.W. Feed Motor: 2.0kW AC servo
Grinding Machine

**Vertical Double Disc Grinding (SGDV-360)**
- Grinding Type: In-feed
- Machining Dia. Range: Max. 60
- Machining Width Range: Max. 40
- G.W.: 355(305)(OD) x 205 x 50T(CBN: 3T)
- Wheel Speed: Max. 1800rpm (inverter C.W. / C.C.W.)
- Loading: Swing arm (carrier)
- Space Between Wheels: 100
- Dresser: Rotary dresser
- G.W. Motor: 7.5kW 4P x 2 sets
- R/D Rotating: 0.9kW speed variable
- Index Carrier: 1.0kW AC servo
- Work Drive: 0.4kW AC servo x 2 sets
- G.W. Feed: 0.4kW AC servo x 2 sets
- Loading: 0.5kW AC servo

**Horizontal Double Disc Grinding (SGDH-760)**
- Grinding Type: Rotary carrier or Through-feed
- Machining Dia. Range: Max. 180
- Machining Width Range: Max. 70
- G.W.: 760(O.D.) x 80 x 270
- Wheel Speed: Max. 700rpm
- Carrier Size: Max. 1050
- Carrier Speed: 0.5 – 3rpm
- Space Between Wheels: 130
- Dresser: Swing arm type point dresser
- G.W. Motor: 30kW 4P
- Carrier: 0.75kW 4P
- Dresser: 0.1kW 4P (speed control)
- G.W. Feed: 1.0kW AC servo
- G.W. Cover: 0.1kW 4P

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Grinding Machine

Internal/External Complex (SGI-40N)

- Grinding Type: Plunge & I.D. feeding
- Chucking Type: Collet type
- Machining Dia. Range: 3 – 15
- Machining Width Range: Max. 60
- I.D. Spindle: High frequency driven spindle
- I.D. Max. rpm: 105000
- Work Spindle: Rolling bearing or Hydrostatic type
- Work Drive: Built-in motor type (max. 4000rpm)
- Loading: Multi-axis mini robot
- Dresser: Rotary dresser
- ID G.W. Slide: AC servo 1.0kW
- ID Cross Slide AC servo 1.0kW
- Face: AC servo 1.0kW (oscillation & feed)

Equipment Image