

Parts Manufacturing Machines

- Grinding Machine

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: $\pm 1^\circ$ / -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

Equipment Image



◆ 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: $\pm 1^\circ$ / -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

Equipment Image



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External Grinding Machine

◆ External Grinder (SGE-400)

- ✓ Grinding Type: NC Controlled Plunge
- ✓ Workpiece Mounting
: Two-shoe & Magnet chuck
- ✓ Machining Dia. Range: 10 – 65
- ✓ Machining Width Range: 6 – 50
- ✓ Loading: Single or double arm type
- ✓ Dresser: Forming dresser spindle
- ✓ Spindle Angle Range: -6 to +35°
- ✓ Grinding Spindle
: Hydrostatic or Rolling bearing type
- ✓ Spindle Height: About FL 1150
- ✓ Work Spindle RPM: 150 – 1800rpm
- ✓ Grinding Wheel Spindle: Max. 2500rpm
- ✓ G.W.: 510(450)(D) x 50(W) x 304.8(B)mm
- ✓ G.W. Table: AC Servo 1.5kW
- ✓ Dress Table: AC Servo 1.5kW
- ✓ Spindle Drive: 1.5kW 4P AC motor
- ✓ G.W. (Belt Drive): 7.5kW 2P AC motor

Equipment Image



◆ External Grinder (SGE-500)

- ✓ Grinding Type: NC Controlled Plunge
- ✓ Workpiece Mounting
: Two-shoe & Magnet chuck
- ✓ Machining Dia. Range: 20 – 100
- ✓ Machining Width Range: 10 – 50
- ✓ Loading: Single or double arm type
- ✓ Dresser: Forming dresser spindle
- ✓ Spindle Angle Range: -6 to +35°
- ✓ Grinding Spindle
: Hydrostatic or Rolling bearing type
- ✓ Spindle Height: About FL 1150
- ✓ Work Spindle RPM: 150 – 1800rpm
- ✓ Grinding Wheel Spindle: Max. 2200rpm
- ✓ G.W.: 510(D) x 50(W) x 304.8(B)mm
- ✓ G.W. Table: AC Servo 3.0kW
- ✓ Dress Table: AC Servo 1.5kW
- ✓ Spindle Drive: 1.5kW 4P AC motor
- ✓ G.W. (Belt Drive): 11kW 2P AC motor
- ✓ Roll Dresser: 0.75kW 2P AC motor

Equipment Image



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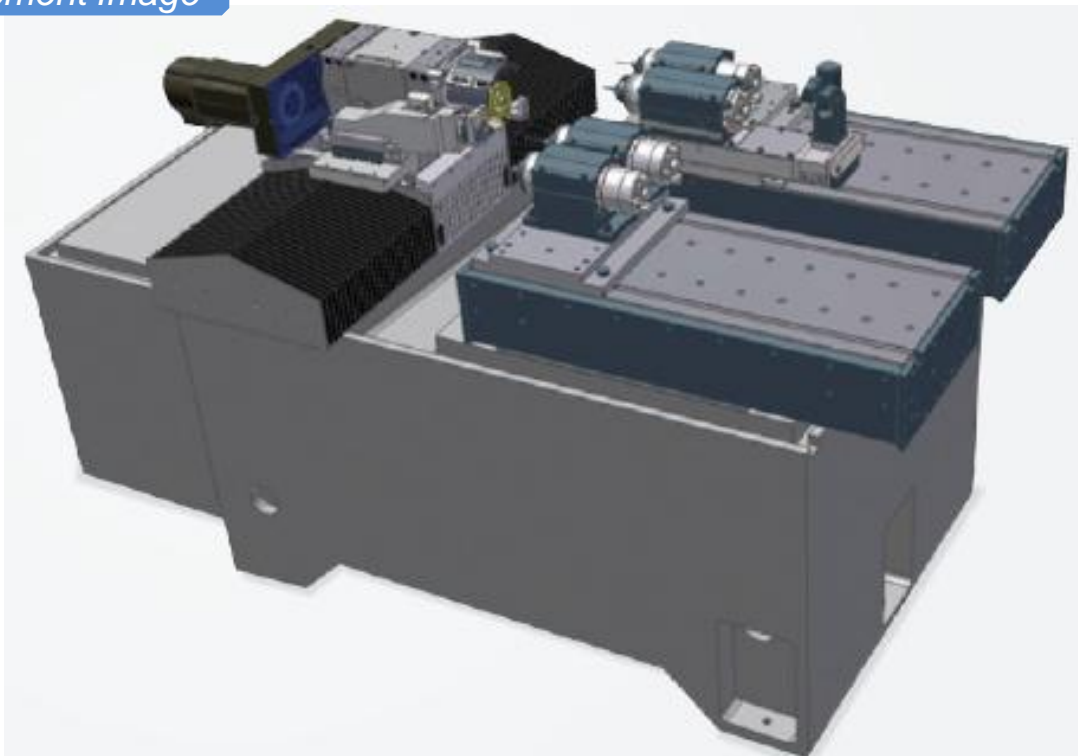
Grinding Machine

◆ 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





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