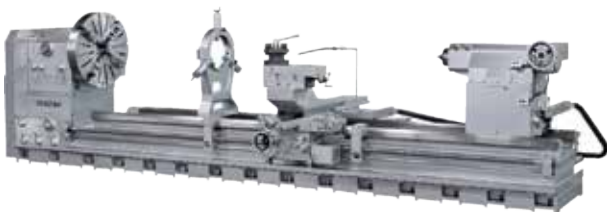


# SHARP

PRECISION MACHINE TOOLS



SHARP Machines Line Card

**Over 45,000 Sharp machines have been sold to various private and public enterprises. A sample of those establishments is listed below.**

Allied Signal, Boeing Aircraft, General Dynamics Gulfstream, Lockheed Martin, Northrop Grumman Morton Thiokol, Raytheon, Rockwell International, Rolls Royce Engine, United Airline, Chevron, Dow Chemical, Exxon Mobile, Monsanto Pennzoil, C&H Sugar, Coors Beer, Pillsbury, T J Lipton, Armstrong Tile, Corning Glass, Crown Cork & Seal, Frigidaire GAF, Kimberly Clark, Kodak, Mattel, Procter & Gamble, Rand McNally, Revlon, Ricoh, Sony Thermador, Walt Disney, Baldor Electrics, Black & Decker, Cutler Hammer, Bosch, Celestron, Emerson Electrics, GE Aircraft Engine, Honeywell, Motorola, Hewlett Packard, Texas Instruments, Westinghouse, Boise Cascade, Georgia Pacific, Weyerhaeuser, Burlington Northern, Caterpillar, Cummings Engines, Detroit Diesel, Gould Pumps, Ingersoll, John Deere,

Parker Hannifin, Todd Shipyard, Newport News Shipbuilding, B F Goodrich, Bridgestone Tire, Goodyear, Daimler Chrysler, Dana Corp, Delphi Automotive, Ford Motor, General Motors, Nissan Motors, Lawrence Livermore Research Lab, Los Alamos Research Lab, NASA, Kennedy Space Center, Puget Sound Naval Shipyard, US Geological survey, US Marine Corps, USDA Commonwealth Edison, Detroit Edison, Iowa Power & Light, Quad Cities Nuclear Power Station, Brigham Young University, Cal Tech, Duke University, Iowa State U, MIT, U of Alaska, UC Berkeley, UCLA, UC Riverside, UCSD, UCSB, U of Iowa, USC, U of Texas, U of Wyoming, Tennessee Technical Center, Black River Technical College, City of Los Angeles, New York City Transit Authority,



**9"x 42" table, 12"x 30" travel**

(Model LMV)

**9"x 50" table, 12"x 37" travel**

(Model LMV-50)

## Vertical Knee Mill

- 3 HP motor, R-8 spindle
- Variable speed spindle
- Hard chromed dovetail ways



**10"x 54" table, 16.3"x 39" travel**

(Model TMV-1)

## Vertical Knee Mill

- 5 HP vari speed head, NST40 spindle
- Box ways on column and saddle
- Hardened and ground table, Turcite coated ways
- Digital Vari Speed (DVS) available



**9"x 49" table, 12"x 36.6" travel**

(Model LMV-49-DVS)

## Vertical Knee Mill

- 3 HP Digital Vari Speed (DVS), R-8 spindle
- Hard Chrome Ways
- Single phase or 3 phase electrics
- Premium package available include: 3 axes digital readout, power table



**12"x 58" table, 16"x 40" travel**

(Model V-1)

## Vertical Knee Mill

- 5 HP Digital Vari Speed (DVS), #40 taper
- Power tabel and saddle
- Box ways on column and knee
- Motorized knee rapid feed



**10"x 54" table, 16.3"x 39" travel**

(Model TMV)

## Vertical Knee Mill

- 10"x 50" table, 16.3"x 35" travel
- 3 HP motor, variable speed, R-8 spindle
  - Hardened and Ground Box Ways
  - Available with Digital Vari Speed
  - Available with TMV-K package, includes 3 axes DRO, power feed table



**25"x 11" travel**

(Model LMV/MP2, MP3, FC-2, FC-3)

**32"x 11" travel**

(Model LMV-49-DVS/MP2, MP3, FC-2, FC-3)

**31"x 15.5" travel**

(Model TMV/MP2-MP3, FC-2, FC-3)

## CNC Vertical Knee Mill

- MP2: Acu-rite MP2-G2 2 axes CNC control
- MP3: Acu-rite MP3-G2 3 axes CNC control
- FC: FAGOR 8055I 2 axes, 3 axes CNC control



**12"x 51.2" table, 14.8"x 37.4" travel**

Model UH-3

## Horizontal Knee Mill

- 7.5 HP motor, NST #50 spindle
- 12 speeds, gearhead spindle
- Universal table, swivel 45 degrees left and right
- Double boxways, hardened and ground
- Built-in gearbox power feed table, saddle and knee



**20"x 87" table, 24"x 59" travel (Model KMA-3H)**  
**30"x 106" table, 32"x 79" travel (Model KMA-5H)**

## Vertical / Horizontal Bed-type Mill 2 spindles

- 20 HP, NST #50 vertical spindle
- 7.5 HP, NSP #50 horizontal spindle
- 12 speeds, gearhead spindle
- Horizontal head travels on ballscrew with servo drive, operated by MPG (electronic handwheel)
- Large tabel model (KMA-5H) has extra end supports



**10"x 56" table, 16.5"x 36" travel**

Model VH-25

## Vertical / Horizontal Knee Mill 2 spindles

- 5 HP, NST #40 vertical spindle
- 5 HP, NSP #40 horizontal spindle
- Hardened and ground double box ways
- Built in power feed table
- Motorized kneed rapid traverse for positioning



**5"x 67" table, 15"x 39" travel, 10 HP (Model KMA-1)**  
**18"x 75" table, 18"x 47" travel, 15 HP (Model KMA-2)**  
**20"x 87" table, 24"x 59" travel, 20 HP (Model KMA-3)**  
**30" x 106" table, 32" x 79" travel, 20 HP**

## Vertical Bed-type Mill 50# spindle

- Hardened and ground boxways
- Fixed quill, travelling head



**12"x 51.2" table, 14.8"x 37.4" travel**

Model VH-3

## Vertical / Horizontal Knee Mill 2 spindles

- 5 HP, NST #40 vertical spindle
- 7.5 HP, NSP #50 horizontal spindle
- Hardened and ground double box ways
- Built in gearbox for power feed table, saddle and knee
- Joystick style control for tapping (forward/reverse)
- Two direction quill feed for boring operations
- Climb milling compensator for horizontal milling
- Electro magnetic spindle brake
- Optional swivel table, extended table with end support



**43.3"x 31.5" table, 55"x 47" travel (Model KHM-140)**  
*fixed quill, 10 HP*

**59"x 31.5" table, 70"x 55" travel (Model KHM-180)**  
*fixed quill, 10 HP*

## Horizontal Boring Mill 50# spindle

- Fixed quill
- Ballscrews on X and Y axis
- Hydraulic lock on headstock, table and saddle
- 3 axis digital readout



## 11" swing, 18" between centers

Model 1118H

### High Precision Toolroom Lathe

- High precision spindle, 50 millionth TIR
- Digital variable speed spindle 4,000 rpm
- One piece alloy steel bedway
- TURCITE coated bedway, 5HP motor



## 14" swing, 40" between centers

Model 1440F / 1440F-K package / 144V

### Precision Engine Lathe

- D1-4 camlock, 1.56" bore, 3HP
- 16 speeds, gearhead (1440F)
- Digital vari speed (1440V)
- K package (1440F-K): DRO, steady rest, follow rest, chuck guard, worklight



## 13" swing, 40" between centers

Model 1340VS

### Vari Speed Precision Lathe

- Digital variable speed 40-2,000 rpm
- D1-4 camlock, 1.56" bore, 3 HP
- Chrome-Moly headstock gears
- Carriage movement control at apron



## 16" swing, 40" between centers

Model 1640L, 1640LV

### Precision Engine Lathe

- D1-8 camlock, 3.07" bore, 7.5 HP
- 12 speeds, gearhead (1640L)
- Digital vari speed (1640LV)
- K package (1640F-K): DRO, steady rest, follow rest, chuck guard, worklight



## 13" swing, 40" between centers

Model 1340VS-K

### Vari Speed Precision Lathe K Package

- Same spec/features as 1340VS
- 3 jaw direct mount chuck
- Chuck guard with limit switches
- 2 axes digital readout
- Steady rest, follow rest
- Worklight



## Electrical and Safety Standards

Most products can be upgraded to meet certain standards such as UL, NFPA79, CSA (Canada), and CE (Europe). These items are offered as optional accessories. These items need to be purchased at the same time with the machines.



# LATHES

(Heavy Duty Lathe, Big Bore Lathe)

## B series Engine Lathe

**22", 26", 30" swing**  
**40", 60", 80", 100", 120", 160" between centers**

Model 2240B, 2260B, 2280B, 22120B, 22160B,  
Model 2640B, 2680B, 26100B, 26120B, 26160B,  
Model 3080b, 30100B, 3012B, 30160B

- D1-11 camlock, 4.5" bore  
15 HP, 12 speeds
- Double chucks available



## V series Engine Lathe

**24", 30" swing**  
**80", 120", 160" between centers**

Model 2480V, 24120V, 24160V  
Model 3080V, 30120V, 30160V

- D1-11 camlock, 4.1" bore  
15 HP, 18 speeds
- Headstock with clutch,  
multiple thread leads
- 18 speeds (10-1,200 rpm),  
wide thread range

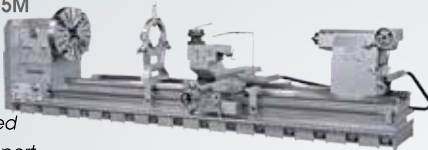


## M series Big Bore Lathe

**34", 44", 50", 60", 70", 80" swing**  
**40", 60", 80", 120", 160" to 630" between centers**

Model 3440M, 3460M, 3480M, 34120M, 34160M,  
to 60630M, to 80315M

- A2-11 spindle,  
4-420 rpm (16),  
15-50 HP
- 24" or 32" wide bed  
extra bedway support
- Electro Magnetic brake, TURCITE ways, 2 stage start, 6 way  
carriage control, double chucks available



# OD GRINDERS

**8.6" / 10.2" OD , 20" length**

**With manual wheel head infeed** (Models OD 820HE, 1020HE)

**With NC wheel head infeed** (Models OD 820SE, 1020SE)

Cylindrical Grinder, OD/ID

- NC infeed use ballscrew with  
servo drive, touch screen,  
conversational type input
- Hydraulic table
- 3HP, 5 HP motor
- Swing down ID wheel head (opt)



Model OD-820SE NC in-feed

**12.6" / 15" OD, 24", 40", 60", 80" length**

**With manual wheel head infeed**

Models : OD1324HE, OD1340HE, OD1360 HE, OD1380HE,  
OD1524HE, OD1532HE, OD1540HE, OD1560HE, OD1580HE

**With NC wheel head infeed**

Models : OD1324SE, OD1340SE, OD1360 SE,  
OD1380SE, OD1524SE, OD 1532SE, OD1540SE,  
OD1560SE, OD1580SE

- NC infeed use ballscrew with  
servo drive, touch screen,  
conversational type input
- Hydraulic table, 7.5 HP motor
- Swing down ID wheel head (opt)



# CENTERLESS GRINDERS

**10.04" – 3.15" diameter, 1.18"-6" dia. With SP workrest**

**Manual wheel base travel**

Models: CG-1260S, 1808S, 1810S, 1812S, 2008S  
2010S, 2012S, 2410S, 2412S

**NC wheel base travel**

Models: CG-1206NC, 1808NC,  
1810NC, 1812NC, 2008NC, 2010NC,  
2012NC, 2410NC, 2412NC

- NC models has servo control of  
lower slide accurate travelling of  
regulating wheel



# SURFACE GRINDERS

# SURFACE GRINDERS

## 7" x 19" travel

Model SG-618

### Manual Surface Grinder

- Wire rope table, Turcite
- Hardened and ground leadscrew
- 1.5 HP



## 7" x 21.6" travel

Model SG-618-2A

### Automatic Surface Grinder

- 2 axis auto (X, Y)
- 1.5 HP



Other Models:

Model SG-820-2A

- Auto 2 way, table and saddle feed

## 7" x 19" travel, 1.5 HP

Model SG-618-2AN

### Automatic Surface Grinder with NC Downfeed

- NC spindle down feed, MPG
- Turcite Way
- 1.5HP motor



Other sizes:

Model SG-820-2AN

## 9" x 20", 12" x 24", 16" x 32", 16" x 40" travel

Model SH-920, SH-1224, Model SH-1632, SH-1640

### 2 Way auto Surface Grinder

- hydraulic auto longitudinal travel
- auto cross travel  
(intermittent and continuous)
- 3 HP (SH-920, SH-1224)
- 5 HP (SH-1632, SH-1640)
- double V ways, long., and cross



## 9" x 20", 12" x 24", 16" x 32", 16" x 40" travel

Model SH-920, SH-1224, Model SH-1632, SH-1640

### 2 Way auto Surface Grinder With Optional NC Down feed

- optional NC downfeed, servo drive ball screw, touch screen control
- hydraulic longitudinal travel
- auto cross travel  
(intermittent and continuous)
- 3 HP (SH-920, SH-1224)
- 5 HP (SH-1632, SH-1640)
- double V ways, long., and cross



## 21" x 53", 24" x 47", 24" x 60", 24" x 87" travel

Model SH2047, 2060, 2447, 2460, 2487

### Traveling Column Surface Grinder

- Auto feed on longitudinal and cross
- Column moves on cross travel
- Optional NC downfeed system



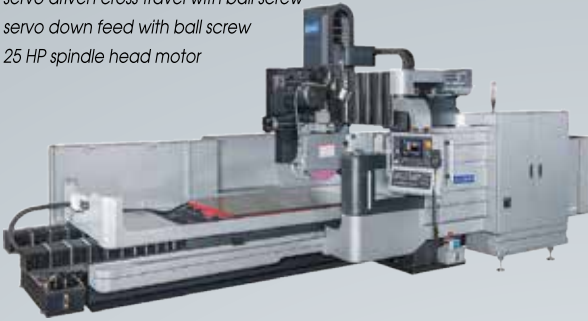
# DOUBLE COLUMN SURFACE GRINDERS HORIZONTAL BAND SAW

**table width : 39", 47", 59"**  
**table length : 77", 118", 163", 203", 238"**

Model SHDC – 4080, 40120, 40160, 40200  
 4780, 47120, 47160, 47200, 47240  
 6080, 60120, 60160, 60200, 60240

## Double Column Surface Grinder

- hydraulic table movement
- servo driven cross travel with ball screw
- servo down feed with ball screw
- 25 HP spindle head motor



**8", 10", 12", 18", 22" capacity (round)**

## Horizontal Band Saw

Manual Band Saw / Automatic Band Saw  
 Miter Band Saw / NC Band Saw

- 1HP, 2HP, 3 HP, 5HP, 7.5 HP motor
- variable speed
- coolant system
- hydraulic vise, adjustable clamping
- power roller table
- hydraulic chip conveyor
- hydraulic nesting fixture



# (EDM) RAM, DRILL HOLE RADIAL ARM DRILL

## Ram Type EDM

X, Y axis travel from 11.8" x 7.8" to 39.3" x 19.6"  
 Ram servo travel from 7.8" to 19.6"  
 Work head travel (manual / motor) 7.8" to 11.8"

Models: SED301, SED401, SED501, SED601, SED1051

## Small Hole Drill EDM

X, Y travel 13" x 7.9",  
 13.75" x 9.8"

Ram servo travel 13.6"  
 Hole drilling  
 0.3mm to 3.0 mm

Models: HS813, HS1014



**Column Diameter: 8.2" -21.6"**

**Arm length: 33.5" - 98.4"**

**Elevation: 25.5" - 39.3"**

Model RD-820, RD-1280, RD-1600, RD-2000, RD-2500

## Radial Arm Drill

- Motor: 3 HP – 10 HP
- Drill, Tap and Bore functions
- Double tube column construction
- Power clamp on arm and head
- Auto tool ejector
- Coolant, box table standard





# Box Way Vertical Machining Centers

# Vertical Machining Centers

## 24" x 14" x 18" travel

Model SV-2414S-F

- FANUC Oi-MF, 10.4" color LCD
- Hardened and ground box ways
- CAT 40 dual contact, 8,000 rpm
- 16T ATC carousel, 15 HP
- 4th axis prepped std.
- 5,500 lbs



## 43" x 27.5" x 24" travel (Model SV-4328SX-F)

51" x 27.5" x 24" travel (Model SV-5128ST-F)

- FANUC Oi-MF, 10.4" color LCD
- Hardened and ground box ways
- CAT 40 dual contact, 24T ATC, 25 HP
- 12,000 rpm (4328SE-F), 10,000 rpm (5128ST-F)
- CTS prepped std.
- 16,000 lbs, 17,500 lbs



## 25" x 17" x 18" travel (S-F, SE-F)

25" x 17" x 23.6" travel (SZ-F)

Model: SV-2517S-F, SV-2517SE-F, SV-2517SZ-F

- FANUC Oi-MF, 8.4" color LCD
- Hardened and ground box ways
- CAT 40 dual contact, 8,000 rpm spindle
- 16T (S-F), 24T(SE-F,SZ-F) ATC, 15 HP
- 8,200 lbs



## Geared Head Box Way Vertical Machining Center

63" x 35.4" x 27.6" travel (Model SVG-6336A)

86.6" x 43" x 35.4" travel (Model SVG-8744A)

98.4" x 43" x 35.4" travel (Model SVG-9944A)

- FANUC Oi-MF control, 10.4" LCD
- CAT 50 dual contact, 6,000 rpm spindle
- 40 T ATC, 35 HP, 4 box ways, 6 box ways
- CTS prepped, 4th axis prepped
- Wt. 37,500, 57,000, 63,000 lbs



## 43" x 24" x 24" travel

Model SV-4324S-F

- FANUC Oi-MF, 10.4" color LCD
- Hardened and ground box ways (4 ways)
- CAT 40 dual contact, 8,000 rpm spindle
- 30T ATC side mount, 20 HP
- 4th axis prepped std., chip conveyor std.
- 16,500 lbs



## Double Column Roller Way Vertical Machining Center

86.6" x 39" x 81" travel,

CAT 40, 25 HP (Model SDC-8045-F)

CAT 50, 35 HP (Model SDC-8045A-F)

- FANUC Oi-MF control, 10.4" LCD
- Linear Roller Pack Ways
- 10,000 rpm, 30T ATC (SDC-8045-F)
- 10,000 rpm, 32T ATC (SDC-8045A-F)
- Chip conveyor, double chip auger std.



# Linear Roller Pack Ways VMC

# 5 Axes Vertical Machining Centers

**25" x 17" x 18" travel** (Model SVL-2517SX-F)  
**25" x 17" x 23.6" travel** (Model SVL-2517SZ-F)

- FANUC Oi-MF, 8.4" color LCD
- Linear Roller Pack Ways
- CAT 40 dual contact, 12,000 rpm spindle
- 24T ATC side mount, 15 HP
- 8,200 lbs



**31" x 23.6" x 19.7" travel**  
(Model SVX-500-F)

- Fanuc 31i-B5
- 5 axes simultaneous contouring
- Trunnion diameter 19.7"
- Trunnion tilt -110° ~ 20°
- Double ballscrews cross travel
- Roller Cam Trunnion design
- #40, 15,000 rpm, 25 HP
- Linear Roller Pack Ways
- Wt. 28,000 lbs



**41" x 23.6" x 22" travel** (Model SVL-4024)

- Fanuc Oi-MF, 10.4" color LCD
- Linear Roller Pack Ways
- CAT 40 dual contact, 10,000 rpm
- 30 tools ATC, 20 HP
- Chip conveyor, 4th axis prepped std
- Wt. 13,000 lbs



**30" x 23.6" x 19.7" travel**  
Model SVX-300-F

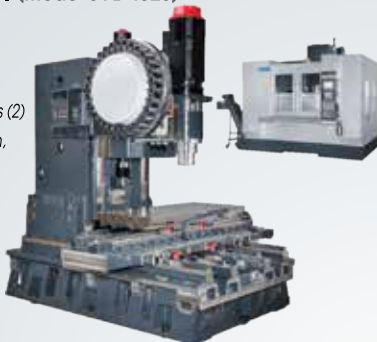
- Fanuc 31i-B5
- 5 axes simultaneous contouring
- Trunnion diameter 11.8"
- Trunnion tilt +30° ~ 120°
- Roller Cam Trunnion design
- #40, 12,000 rpm, 15 HP
- Linear Roller Pack Ways
- Wt. 16,500 lbs



## Die Mold Machine

**45" x 25" x 20" travel** (Model SVL-4525)  
**45" x 28" x 20" travel** (Model SVL-4528)

- FANUC Oi-MF, 10.4" color LCD
- Linear Roller Pack Ways (2)
- Hardened and ground Box Ways (2)
- CAT 40 dual contact, 15,000 rpm,
- Direct drive spindle
- Air cooled ballscrew
- 30 tools ATC, 25 HP
- chip conveyor, 4th axis prepped std
- Wt. 18,000 lbs



**25" x 17" x 19.7" travel**  
(Model SVX-160-F)

- Fanuc 31i-B5
- 5 axes simultaneous contouring
- Trunnion diameter 12.2"
- Trunnion tilt +20° ~ 120°
- Roller Cam Trunnion design
- #40, 12,000 rpm, 15 HP
- Linear Roller Pack Ways
- Wt. 10,300 lbs



# CNC PRECISION FLAT BED LATHE

# BIG BORE CNC FLAT BED LATHES

## 18" swing X 40" between centers

D1-6 camlock, 2.3" bore, 43-2,500 rpm (2 steps), 10 HP

Model 1840TCF

### CNC PRECISION FLAT BED LATHE

- 4 way toolpost (electric)
- Programmable spindle speed
- FANUC Oi-TF control



## 20" swing X 60" between centers

D1-8 camlock, 3.4" bore, 40-2,000 rpm, 15 HP

Model 2060TCF

### CNC PRECISION FLAT BED LATHE

- 4 way toolpost (electric)
- 2 speed tailstock advance
- Programmable spindle speed
- FANUC Oi-TF control



## 24" swing X 60" between centers

D1-8 camlock, 3.4" bore, 30-1,600 rpm, 25 HP

Model 2460TCF

### CNC PRECISION FLAT BED LATHE

- 3 bearings spindle support
- 4 way toolpost (electric)
- 2 speed tailstock advance
- Programmable spindle speed
- FANUC Oi-TF control

Above models are available with FAGOR control include Teach-in, manual operation functions.



## 30" swing X 60", 80", 120", 160" between centers

Model 3080TC-F, 3080, 30120, 30160

A2-11 spindle, 6.7" bore, 10-1,000 rpm, 20 HP

### CNC PRECISION FLAT BED LATHE

- 8 position hydraulic turret
- Air assist tailstock
- Programmable spindle speed
- FANUC Oi-TC control
- Chip conveyor std
- 16" 3 jaw chuck std



## Swing : 38", 40", 44", 48", 50", 55", 58", 60"

Distance between centers: 60", 80", 120", 160", 200", 240", 280"

Models : STA-3860 to STA-60280

- Spindle bore: 6" std., optional 9", 12", 15"
- 24" wide bed,
- 6-500 rpm (4)
- 30, 40, 50 HP



## Swing : 38", 44", 50", 65", 70"

Distance between centers: 60", 80", 120", 160", 200", 240"

Models : STB-3860 to STB-70280

- Spindle bore: 6" std., optional 9", 12", 15"
- 32" wide bed,
- 6-500 rpm (4)
- 30, 40, 50 HP



## Swing : 38", 44", 50", 65", 70"

Distance between centers: 60", 80", 120", 160", 200", 240"

Models : STB-3860 to STB-70280

- Spindle bore: 6" std., optional 9", 12", 15"
- 49" wide bed,
- 6-500 rpm (4)
- 30, 40, 50 HP
- 6 bedways



## Swing : 40", 44", 50", 65"

Distance between centers: 40

STF4040 to STF6040 T Lathe (Facing Lathe)

- Spindle bore: 6" std., optional 9", 12", 15"
- 16"-32" wide bed
- 6-500 rpm (4)
- 30, 40, 50 HP



# CNC CYLINDRICAL GRINDERS

7" diameter X 20" center, to 18" diameter X 80" center

Model OD-820-2X to Model OD-1880-2X

## 2 Axes CNC OD Grinder

- FANUC Oi-TF control
- Linear scale on X axis (wheel plunge)
- Swing down ID attachment (opt)
- Automatic wheel linear speed compensation
- 5 HP, 7.5 HP motor



15" diameter x 80" center, to 15" diameter x 160" center

Model OD15802XM to Model OD151602XM (3 sizes)

## 2 Axes CNC OD Grinder with travelling wheel head

- FANUC Oi-TF control
- Linear scale on X axis (wheel plunge)
- Wheelhead travels along length of bed
- Swing down type ID attachment (optional)
- Automatic wheel linear speed compensation function



Max grinding dia. 14", Max. grinding length 20", 32"

Model OD14243XTR, OD14403XTR

## 3 axes Cylindrical Grinder with turret wheel head

- Turret wheel head can mount 2 OD and 1 ID wheels
- Turret rotates via servo drive with circular inductive scale
- Plunge grind, angular grind, ID grind
- Linear scale on X axis where wheel head travels
- C axis on work head (total 4 axes) allows non circular work grinding



2 ID wheels, 0.24" - 7.8", 0.24" - 15.7", 0.24" - 23.6" (ID grinding range)

Model OD24083XI/I, Model 24163XI/I, Model OD24243XI/I

1 OD, 1 ID wheels, 11.8", 17.7", 31.5" (max OD grinding dia.)

Model OD12083XO/I, Model OD18163XO/I, OD32243XO/I

4 axes model has turret on one of the wheel heads with 1 OD, 2 ID wheel

Model OD32244XO/I/I

3,4 axes Cylindrical Grinder 2 wheel heads moving (X, Z)



# CNC CYLINDRICAL GRINDERS

ID grinding range 0.25" - 6", Grinding depth 5"

Model ID09052X

## 2 axes ID (Internal Diameter) Grinder

- Linear scale is mounted along X axes for precise grinding
- Linear guides are mounted on slideways to improve accuracy
- Low work spindle center allows easy change of work piece and wheels.



Max grinding dia. 10" to 17", center distance 14" to 48"

Model OD10142XA to Model OD18482XA

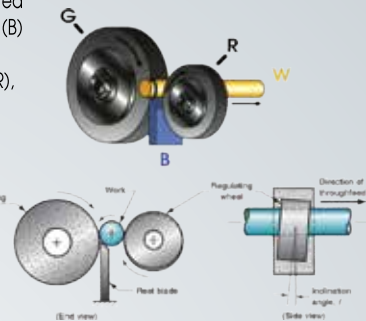
## 2 axes Angular Cylindrical Grinder

- 60 degree wheelhead travel angle
- Table travels on hydrostatic slideways
- Automatic wheel constant surface speed function



## The Centerless Grinding Process

involves the part being supported on a workpiece (W) rest blade (B) that sits between two rotating cylinders: a regulating wheel (R), which controls the rotational speed and feed rate (for the in-feed grinding method) or linear travel (for through-feed grinding) of the part, and a larger abrasive grinding wheel (G). The workpiece is held in place by the pressure of the rotating wheels, with no fixturing required — a factor that simplifies setup and makes for fast turnaround times. **Centerless grinding is typically used in preference to other grinding processes for operations where many parts must be processed in a short time.**





# SHARP

PRECISION MACHINE TOOLS

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