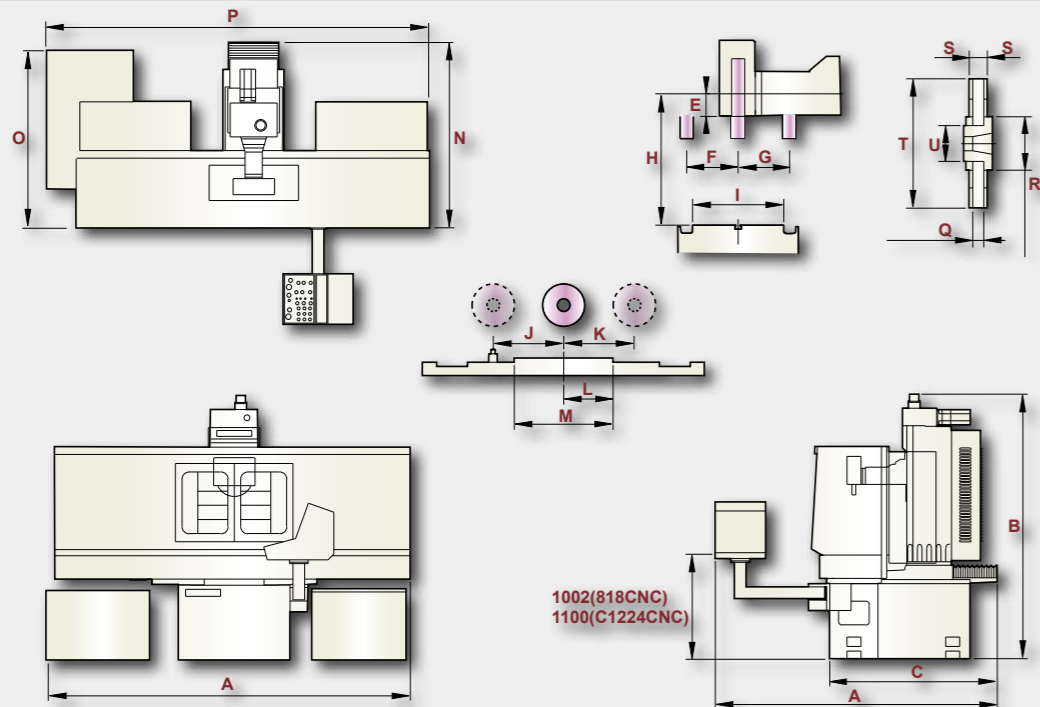


DIMENSION DRAWING



ITEM	FSG-H818CNC	FSG-B818CNC	FSG-C1224CNC
A	3000mm(118")	3000mm(118")	4000mm (157 1/2")
B	2290mm(90")	2290mm(90")	2660mm (104 3/4")
C	1700mm(67")	1700mm(67")	2020mm(79 1/2")
D	2800mm(110 1/4")	2800mm(110 1/4")	3065mm(120 5/8")
E	65mm(2 9/16")	65mm(2 9/16")	86mm(3 3/8")
F	140mm(5 1/2")	140mm(5 1/2")	203mm(8")
G	140mm(5 1/2")	140mm(5 1/2")	203mm(8")
H	480mm(19")	480mm(19")	610mm(24")
I	203mm(8")	203mm(8")	305mm(12")
J	355mm(14")	355mm(14")	406mm(16")
K	295mm(11 5/8")	295mm(11 5/8")	406mm(16")
L	228.5mm(9")	228.5mm(9")	305mm(12")
M	457mm(18")	457mm(18")	610mm(24")
N	2100mm(82 5/8")	2100mm(82 5/8")	2255mm(88 3/4")
O	2300mm(90 1/2")	2300mm(90 1/2")	2300mm(90 1/2")
P	3600mm(141 3/4")	3325mm(131")	3600mm(141 3/4")
Q	20~50mm(0.8"~2")	20~50mm(0.8"~2")	20~100mm(0.8"~4")
S	50mm(2")	50mm(2")	101.6mm(4")
T	305mm(12")	305mm(12")	355.6mm(14")
U	76.2mm(3")	76.2mm(3")	77mm(3.03")

1103 Ver1.0 P1

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CAT: 0816-0000SC00 / 201103 / 1000 P1

CHEVALIER®

Grinding / Turning / Milling

FSG-H818CNC/B818CNC /C1224CNC

HIGH EFFICIENCY PRECISION CNC PROFILE GRINDER HEAVY DUTY CNC CREEPFEE & PROFILE GRINDER



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FSG-H/B818/C1224CNC Series

HIGH EFFICIENCY PRECISION CNC PROFILE GRINDER HEAVY DUTY CNC CREEPFEEED & PROFILE GRINDER

FSG-H818CNC • B818CNC

HIGH EFFICIENCY PRECISION CNC PROFILE GRINDER

The FSG-H818CNC & FSG-B818CNC grinding machines are high precision, high efficiency multi purpose CNC profile grinders. These machines are designed to meet current and future grinding requirements such as intricate profiles, mold components and are well suited for parts of aircraft, automobile, electronic, medical, machine tool, and defense industries.

High Precision

Column and wheelhead traverse on precision roller bearings and hardened and ground guideways that are pre-loaded and driven by a precision ballscrew, to provide excellent rigidity and precise positioning.

High Efficiency

FANUC 0M controller provides full automation through programming in order to grind multi-shaped workpieces and complete the entire grinding processes from rapid approaching, rough grinding, wheel dressing with auto compensation, and fine grinding in one fully automatic cycle.

Multi Purpose

Grinding types such as, surface, plunge, pitch, side, profile, form, index, and creepfeed grinding significantly enhance the machine versatility.

FSG-C1224CNC

HEAVY DUTY CNC CREEPFEEED & PROFILE GRINDER

The FSG-C1224CNC grinding machine, with 30HP spindle motor, is a heavy duty, high precision, high efficiency, multi-purpose CNC creepfeed and profile grinder. This machine is designed to meet current and future grinding requirements such as intricate profiles and mold components and is well suited for aircraft, automobile, electronic, medical, machine tool and defense industry parts..

High Precision

Wheelhead traverse on Turcite-B laminated guideways, which are driven by a precision ballscrew, provide excellent rigidity and precise positioning. Coulmn travels on linear guideway system which provide precise positioning, high rigidity and smooth movement of the machine. Integrated machine structure with well designed ribs, the machine is suitable for heavy duty creepfeed grinding.

Multi Purpose

Advanced grinding cycles such as surface, plunge, pitch, side, profile, form, index, and creepfeed grinding significantly enhance the machine versatility.

Totally Enclosed Splash Guard

A forced flood coolant, accompanied by a totally enclosed splash guard cools the workpiece efficiently and helps prevent thermal damage and workpiece distortion.

Crossfeed And Elevating Drive

Crossfeed and Elevating axes are positioned by precision ballscrews and an AC servo motor for providing superior accuracy and excellent longevity.

Steady And Smooth Table Drive (FSG-H818CNC)

The two mode air cooled hydraulic table drive can be set to low speed for creepfeed grinding or high speed for conventional grinding, to add to the machine versatility.

Steady And Precise Table Drive (FSG-H818CNC)

Table is driven by a precision ballscrew and an AC servo moter, to provide precise positioning and achieve optimun speeds needed for creepfeed grinding.

Intergated Structure

Intergated machine structure is well suited for heavy duty grinding. Creepfeed grinding can be utilized to grind deep slots with a single pass through high hardness materials.

Steady And Precise Table Drive

Precision ballscrew and an AC servo motor provide precise table positioning to achieve optimun speeds for creepfeed grinding.

High Efficiency

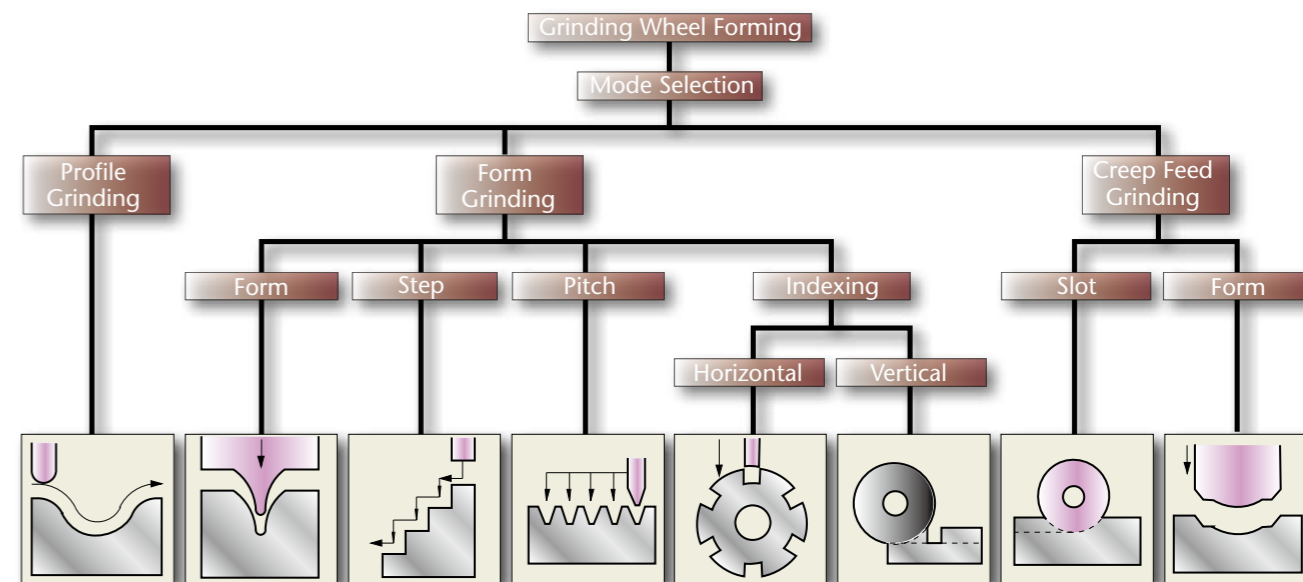
A FANUC 0M controller provides full automation through programming for grinding multi-shaped workpieces and complete the entire grinding processes. This includes rapid approaching, rough grinding, wheel dressing with auto compensation and fine grinding in one fully automatic cycle. With wheelhead mounted automatic rotary diamond dresser (opt. B13-0818 or B13-1201), the grinding wheel will be at best condition always for grinding application, and the wheel dressing time can be reduced to minimum. So the machine grinding efficiency can be increased a lot.

Totally Enclosed Splash Guard

A forced flood coolant, accompanied by a totally enclosed splash guard cools the workpiece efficiently and helps prevent thermal damage and workpiece distortion.

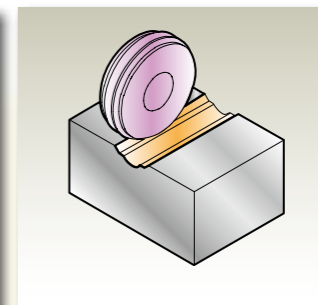
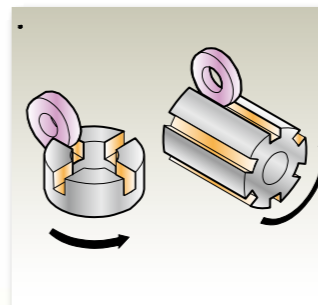
Crossfeed And Elevating Drive

Crossfeed and Elevating axes are positioned by precision ballscrews and an AC servo motor for providing superior accuracy and excellent longevity.



Indexing Grinding

By using horizontal or vertical indexer or applicable holding fixture, machine can grind various indexing shapes and slots.

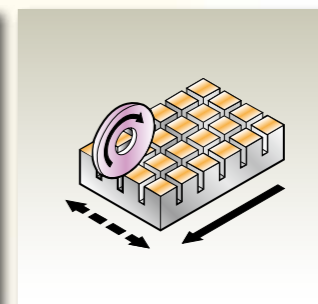
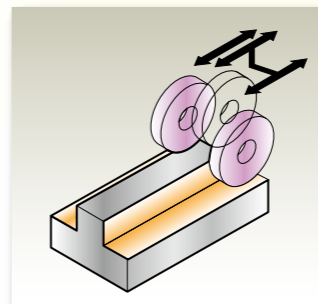


Heavy Duty Creepfeed Grinding

Creepfeed grinding can enhance efficiency for form and plunge grinding.

Step Grinding

Multi level surface can be ground in one grinding cycle.

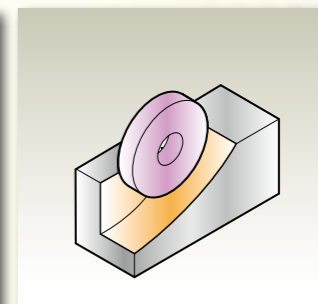
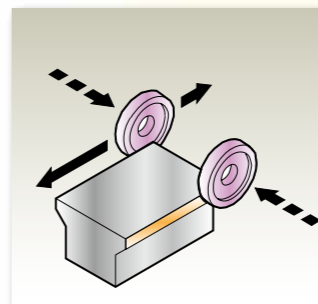


Slice Grinding

Thin slices can be creepfeed ground. Excellent results can be obtained when slicing ceramic materials.

Side Grinding

Both sides of workpiece can be ground in one cycle. Two sides of grinding wheel can be dressed and compensated automatically during the grinding cycle.



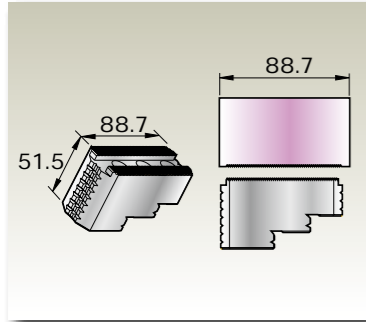
Punch Grinding

Various punch shapes can be creepfeed ground to enhance efficiency.

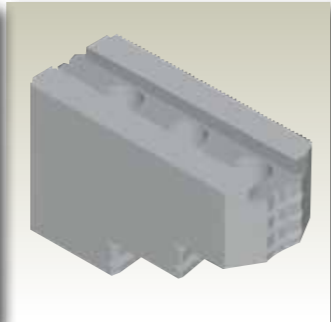
FSG-H/B818/C1224CNC Series

HEAVY DUTY CNC CREEPFEEED & PROFILE GRINDER

(Mechanical Industry)

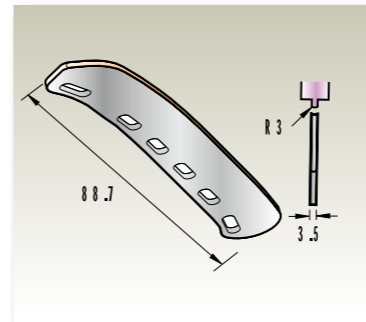


LATHE CHUCK PART	
MODEL:	C1224CNC
Opt. Acce.:	B17-1203, B42-0801
Material:	SCM21
Kind of Wheel:	ELBE(81A500LV26)
Form Accuracy:	±0.01mm (±0.0004")
Cycle time:	3 min 30 sec
Grinding Mode:	Form Grinding

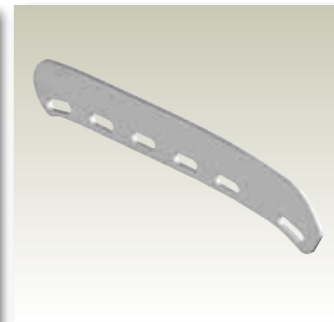
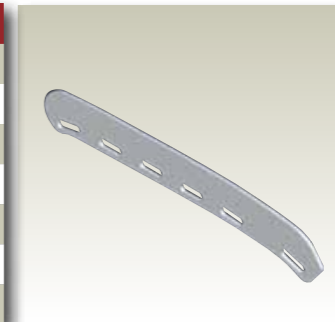


3 min 30 sec

BLADES OF ICE SKATES

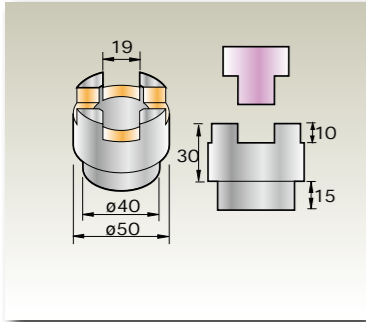


MODEL:	C1224CNC
Opt. Acce.:	B17-1202
Material:	SK5M
Kind of Wheel:	CBN
Form Accuracy:	±0.01mm (±0.0004")
Cycle time:	5 sec
Grinding Mode:	Profile Grinding

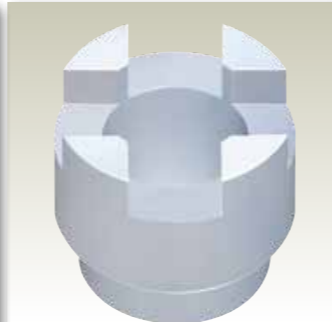
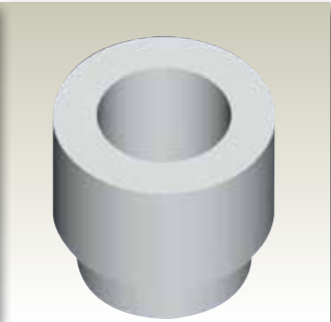


5 sec

MOTOR JOINT

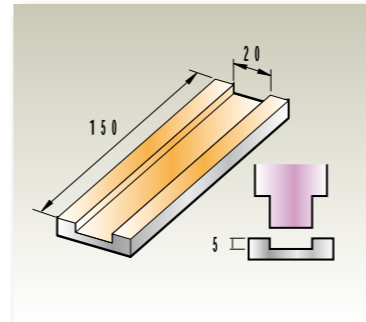


MODEL:	C1224CNC
Opt. Acce.:	B17-1203, B42-0801
Material:	SKD11
Kind of Wheel:	CBN
Form Accuracy:	±0.01mm (±0.0007")
Cycle time:	30 sec
Grinding Mode:	Slot Grinding

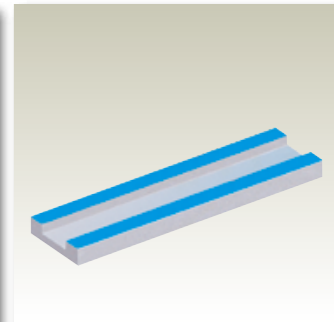
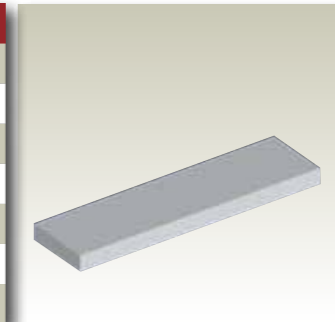


30 sec

MECHANIC PARTS WITH SLOT



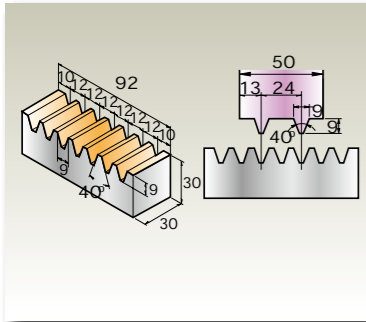
MODEL:	C1224CNC
Opt. Acce.:	B17-0802, B42-0801
Material:	SKD11
Kind of Wheel:	CBN
Form Accuracy:	±0.001mm (±0.0003")
Cycle time:	60 sec
Grinding Mode:	Slot Grinding



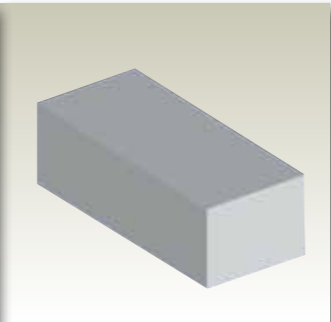
1 min

(Mechanical Industry)

RACK PART



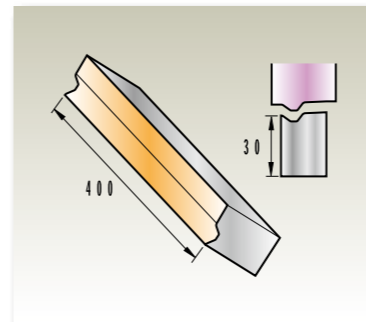
MODEL:	C1224CNC
Opt. Acce.:	B17-1203, B42-0801
Material:	SKD11
Kind of Wheel:	ELBE(81A46-3k12V26)
Form Accuracy:	±0.006mm (±0.0002")
Cycle time:	51 sec
Grinding Mode:	Form Grinding (one tooth)



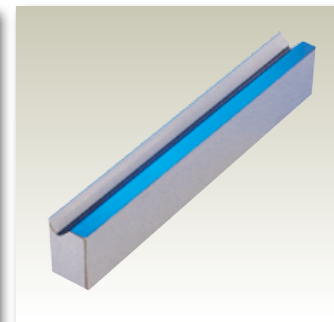
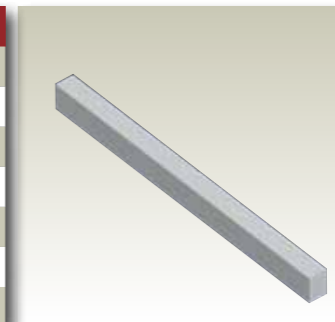
51 sec

(Textile Industry)

TEXTILE PART



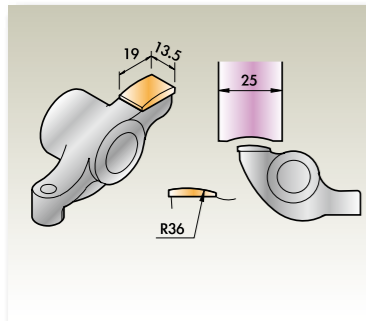
MODEL:	C1224CNC
Opt. Acce.:	B17-1203, B42-0801
Material:	SKD11
Kind of Wheel:	ELBE(83A80-4L5V26)
Form Accuracy:	±0.007mm (±0.0002")
Cycle time:	68 sec
Grinding Mode:	Form Grinding



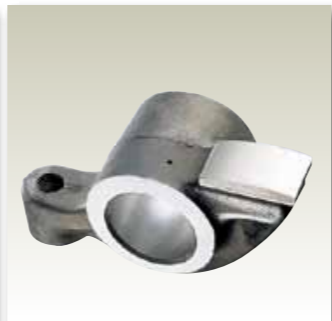
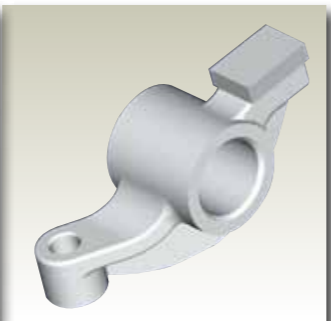
1 min 8 sec

(Automobile Industry)

RACKER ARM



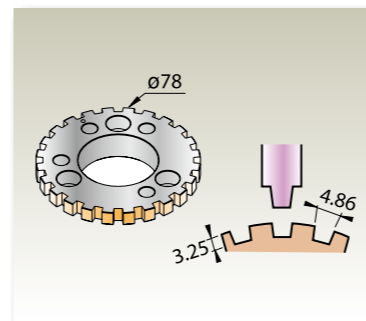
MODEL:	C1224CNC
Opt. Acce.:	B17-1203, B42-0801
Material:	S55C
Kind of Wheel:	ELBE(81A46-3k12V26)
Form Accuracy:	±0.006mm (±0.0002")
Cycle time:	10 sec
Grinding Mode:	Form Grinding



10 sec

(Mechanical Industry)

RACK PART



MODEL:	C1224CNC
Opt. Acce.:	B17-1203, B42-0801
Material:	SKS3
Kind of Wheel:	ELBE(81A46-3K12V26)
Form Accuracy:	±0.007mm (±10")
Cycle time:	4 min 36 sec
Grinding Mode:	Form Grinding



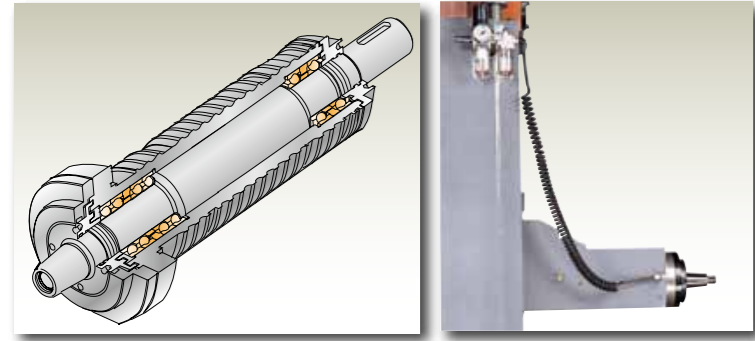
4 min 36 sec

FSG-H/B818/C1224CNC Series

HIGH EFFICIENCY PRECISION CNC PROFILE GRINDER HEAVY DUTY CNC CREEPFEE & PROFILE GRINDER

Spindle (including heat emission device)

Supported by six super precision angular contact bearings, spindle can perform heavy duty grinding loads. Spindle is air-cooled to minimize temperature increase and ensure spindle accuracy. (Air compressor is optional)



Coolant Drainage

The enlarged and properly sloped drainage through on the upper machine base enables rapid coolant drainage needed to accommodate large volume of coolant flow during creepfeed grinding.



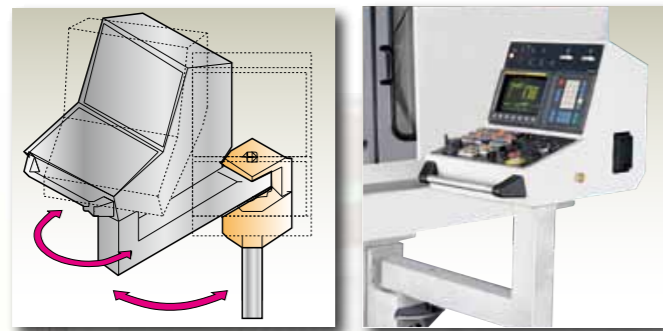
Totally Enclosed Splash Guard

The unique totally enclosed watertight splash guard accommodates heavy volume coolant flow for optimum grinding capability and provides safer environment for the operator.



Spindle

Control panel with 8.4" TFT LCD can display grinding position and program execution status, allowing operator to monitor grinding operation. Control panel can also be moved to a comfortable position for operator's convenience.



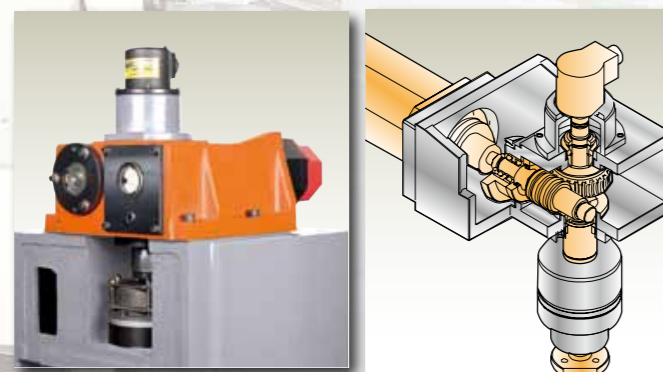
Single Piece Base Casting

Specially designed single piece base casting offers superior rigidity and extends longevity.



Elevating Encoder Device

Elevating encoder, mounted on the top of elevating ballscrew, acting with clutch can directly encode the downfeed amount, thus eliminating error, increasing accuracy, and extending longevity.



FSG-H818CNC

Note: Machine shown with optional accessories

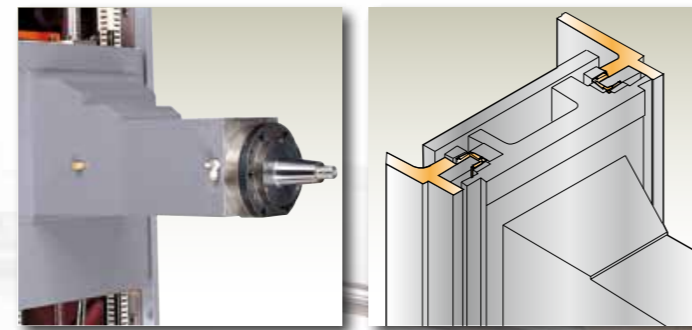


FSG-C1224CNC

Note: Machine shown with optional accessories

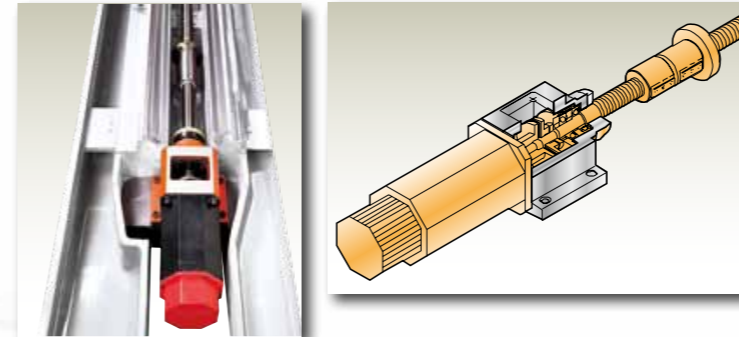
Elevating Guide Way (818CNC)

Wheelhead travels on hardened and ground guide ways, interfacing with adequately pre-loaded rollers. The wheelhead is driven by precise ballscrew for accurate positioning at 0.001mm (0.00005") minimum downfeed increment.



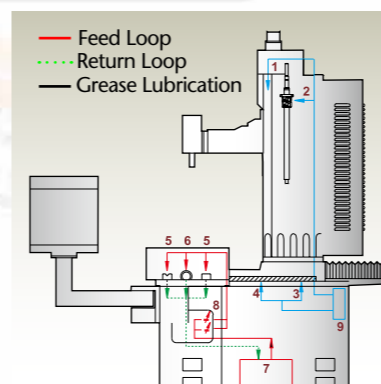
Longitudinal Mechanism (B818CNC/C1224CNC)

Table travels on double-Vee guide ways coated with Turcite-B anti-friction material offering low friction and enhancing longevity. Driven by precise ballscrew, this mechanism ensures positioning accuracy for creepfeed and heavy duty grinding.



Lubrication System (818CNC)

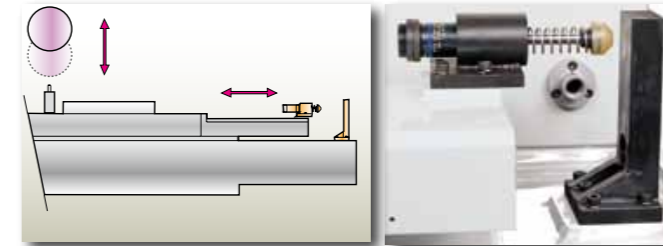
Forced lubricant automatically flows to all guideways and mechanism that require lubrication. A pressure switch interlock prevents the spindle from running before lubrication pressure is established and stops the machine if lubrication supply fails, enhancing the machines longevity and accuracy.



1. Column Slideways
2. Elevating Ballscrew
3. Base Guideways
4. Crossfeed ballscrew
5. Table Guideways
6. Ballscrew Rod
7. Lubricator
8. Flow Divider
9. Grease Gun

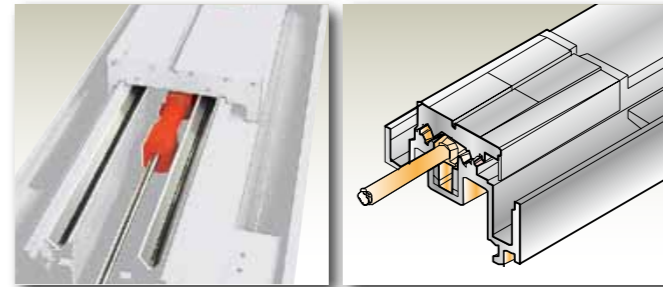
Automatic Dressing Function (H818CNC)

To reach the dressing position, a hydraulic buffer is used to ensure the positive stop of the table at the exact position. Automatic wheel dressing with compensation is also included. (Diamond dresser is optional)



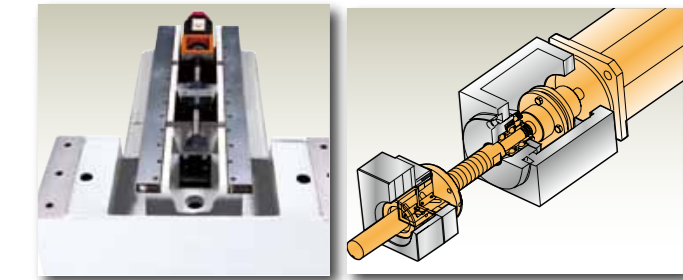
Longitudinal Mechanism (H818CNC)

Table travels on double-Vee guide ways coated with Turcite-B anti-friction material providing low friction and excellent longevity. Table is driven by hydraulic system, capable of reaching speeds as low as 20 mm/min, to facilitate creepfeed grinding.



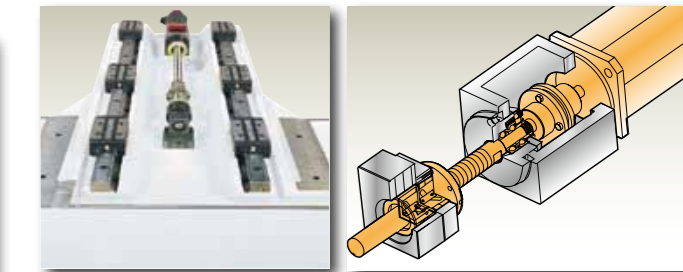
Crossfeed Guideway System (B/H818 CNC)

Column moves on hardened and ground guide ways, interfacing with adequately pre-loaded rollers. Column driven by precision ballscrew and FANUC AC Servo Control system, providing precise in/out movement.



Crossfeed Guideway System (C1224CNC)

The guideway system is composed of linear guideway system, and hardened high precision ballscrew interfaced with AC Servo motor. It can effectively arrest shaking and backlash to provide precise in/out movement.



DISPLAY AND CONTROL PANEL



1. All executing function are well indicated. Main power, machine zero, end of program, magnetic chuck voltage, dressing, lubrication conditions are all shown by indicating LEDs.
2. The 8.4" TFT LCD color monitor position, program and working condition as well as self-displayed on the screen for the operator's convenience.
3. One piece soft-key keyboard not only dustproof and waterproof but also offers maintenance free features.
4. Easy to operate switch coped with indicating lights, to assure positive operations.
5. For the operator's convenience, not only the magnetic force can be adjusted but also the demagnetizing time. (operation)
6. Well developed testing functions can verify NC program thoroughly to ensure accident-free operation.
7. With MPG, feedrate override switches and JOG buttons, manual operation becomes easy and convenient.

FSG-H/B818/C1224CNC Series

HIGH EFFICIENCY PRECISION CNC PROFILE GRINDER

(Various Industry)
PUMP ROTOR
 MODEL: B818CNC
 Opt. Acce.: B45-0802
 Material: SUJ-2
 Kind of Wheel: MC80M7V
 Form Accuracy: ±0.004mm (±0.0002")
 Cycle time: 1 min 10 sec
 Grinding Mode: Indexing Grinding

(Automobile Industry)
ROCKER ARM
 MODEL: B818CNC
 Opt. Acce.: B13-0804
 Material: SCM-21
 Kind of Wheel: 81A46K12V
 Form Accuracy: ±0.006mm (±0.0002")
 Cycle time: 15 sec
 Grinding Mode: Plunge Grinding

(Aircraft & Aerospace Industry)
TURBINE BLADE
 MODEL: B818CNC
 Opt. Acce.: B13-0810
 Material: INCO-NI
 Kind of Wheel: 32A804G13V
 Form Accuracy: ±0.005mm (±0.0003")
 Cycle time: 86 sec
 Grinding Mode: Form Grinding

(Construction Industry)
THREAD ROLLING DIE
 MODEL: B818CNC
 Opt. Acce.: B13-0801
 Material: SHK-51
 Kind of Wheel: 81A80H12V
 Form Accuracy: ±0.01mm (±0.0004")
 Cycle time: 5 min 20 sec
 Grinding Mode: Creep Feed Grinding

(Textile Industry)
TEXTILE MACHINE LINKAGE
 MODEL: B818CNC
 Opt. Acce.: B13-0810
 Material: SCM4
 Kind of Wheel: CB120-WBA-100
 Form Accuracy: ±0.01mm (±0.0004")
 Cycle time: 55 sec
 Grinding Mode: Plunge Grinding

(Construction Industry)
TILE'S MOLD
 MODEL: B818CNC
 Opt. Acce.: B13-0810
 Material: SKD11
 Kind of Wheel: CB150-WBA-100
 Form Accuracy: ±0.012mm (±0.0005")
 Cycle time: 58 min
 Grinding Mode: Form Grinding

(Electrical Industry)
TERMINAL PRESS MOLD
 MODEL: B818CNC
 Opt. Acce.: B13-0811
 Material: SKD11
 Kind of Wheel: GC32AH5VGW1A
 Form Accuracy: ±0.008mm (±0.0003")
 Cycle time: 80 sec
 Grinding Mode: Form Grinding

(Electrical Industry)
TERMINAL PRESS MOLD
 MODEL: B818CNC
 Opt. Acce.: B13-0804
 Material: S45C
 Kind of Wheel: RA60153V
 Form Accuracy: ±0.005mm (±0.0002")
 Cycle time: 15 sec
 Grinding Mode: Form Grinding

(Metal Working Industry)
PRESS MOLD
 MODEL: B818CNC
 Opt. Acce.: B13-0811
 Material: S15C
 Kind of Wheel: 32A46-I14V
 Form Accuracy: ±0.01mm (±0.0004")
 Cycle time: 50 sec
 Grinding Mode: Plunge Grinding

(Mold Industry)
WIRE PILLING PLIER
 MODEL: B818CNC
 Opt. Acce.: B13-0804/1201
 Material: SK2 H.R.C. 50°-60°
 Kind of Wheel: 38A120D25V
 Form Accuracy: ±0.008mm (±0.0004")
 Cycle time: 15 sec
 Grinding Mode: Form Grinding

(Mechanical Industry)
RACK
 MODEL: B818CNC
 Opt. Acce.: B13-0801
 Material: SKH9
 Kind of Wheel: RA46-H14V
 Form Accuracy: ±0.05mm (±0.0002")
 Cycle time: 4 min
 Grinding Mode: Pitch Grinding

(Defense Industry)
TANK PARTS
 MODEL: B818CNC
 Opt. Acce.: B13-0811
 Material: S45C
 Kind of Wheel: 38A120D25VCF2
 Form Accuracy: ±0.009mm (±0.0004")
 Cycle time: 6 min
 Grinding Mode: Creepfeed Grinding

(Electrical Industry)
IC PUNCHING MOULD
 MODEL: B818CNC
 Opt. Acce.: B13-0801
 Material: S45C
 Kind of Wheel: WA180J5V
 Form Accuracy: ±0.005mm (±0.0002")
 Cycle time: 2 min
 Grinding Mode: Creepfeed Grinding

(Metal Working Industry)
R-ANGLE PUNCHING MOULD
 MODEL: B818CNC
 Opt. Acce.: B13-0810
 Material: SKH55
 Kind of Wheel: 38A100-E19V
 Form Accuracy: ±0.01mm (±0.0004")
 Cycle time: 15 min
 Grinding Mode: Form Grinding

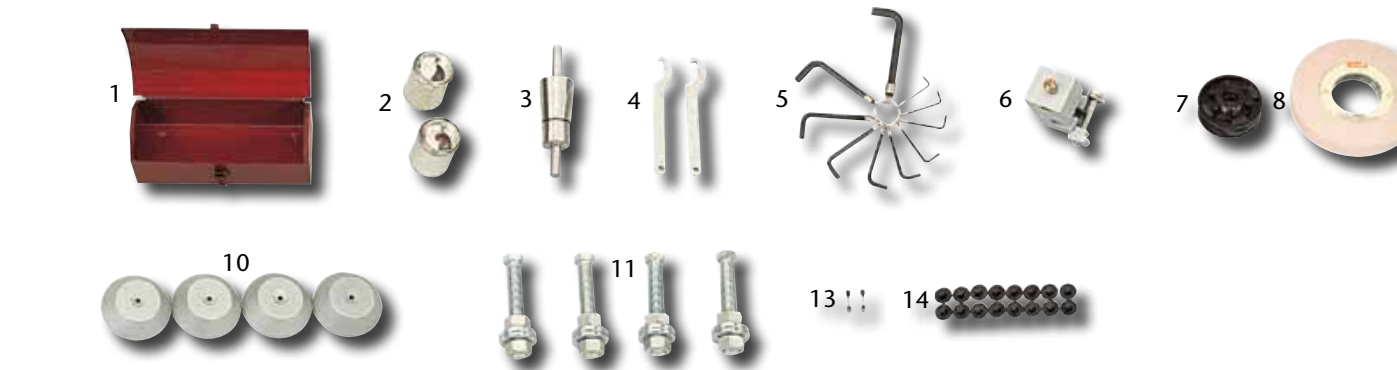
*FANUC 18iMB Control is an Option.

FANUC 0iM CONTROL

1. Controlled axes	X,Y,Z	24. Program protection
2. Simultaneous controllable axes	3 axes	25. Self-diagnosis function
3. Least command increment	0.001mm(0.0001")	26. Emergency stop
4. Automatic acceleration/deceleration		27. Status display
5. Feedrate override	0-150% (10%per band)	28. X,Y,Z,B axes servo motor
6. Manual continuous feed		29. Programmable control
7. Spindle feedrate override	50%-120% (10%per band)	30. NC automatic coordinate system setting
8. Rapid positioning		31. Inch/metric conversion
9. Linear interpolation		32. EIA/ISO automatic recognition
10. Circular interpolation		33. Custom macro
11. Manual reference point return		34. Part program storage length
12. 2nd reference point return		35. Registered programs
13. 8.4" LCD color	High-resolution monochrome	36. Program display protection
14. M.P.G.(Hand-wheel)	1 unit	37. Spindle load current indicator
15. RS-232C interface		38. Mechanical lubrication alarm
16. Dwell		39. Pitch error compensation
17. Machine lock		40. Backlash compensation
18. Skip function		41. Wheel automatic dressing and compensation
19. Battery alarm		42. PMC-L ladder display
20. Servo off		43. Magnetic chuck voltage meter
21. MDI operation		44. Instruction display
22. Dry run		45. Run hour display
23. Single block operation		46. PMC-L ladder search
		47. G codes menu display

STANDARD ACCESSORIES

- 1. Tool Box
- 2. Touch-up paint
- 3. Balancing arbor
- 4. Pin spanner wrench
- 5. Hex. wrenches
- 6. Diamond dresser(03-0401)
- 7. Wheel flange
- 8. Grinding wheel
- 9. Screw driver
- 10. Leveling pads
- 11. Levelling screws & nuts
- 12. Adjustable wrench
- 13. Fuses
- 14. Plugs
- 15. Machine Lamp(C1224CNC)



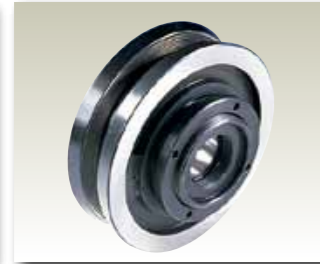
Note: The items marked "*" with are stored in the tool box.

FSG-H/B818/C1224CNC

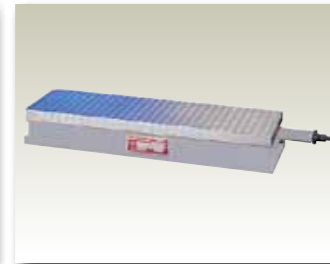
Note: Items marked with * are recommended to be factory installed



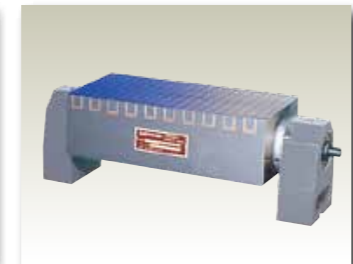
SPINDLE MOTOR
 • B31-0801(7.5HP) (818CNC)
 (To order B48-0801 or B48-0803 Frequency converter is required)
 • B31-0803(10HP) (818CNC)
 (To order B48-0805 B48-0806 Frequency converter is required)
 • B31-1202(50HP) (1224CNC)
 Include Frequency converter.



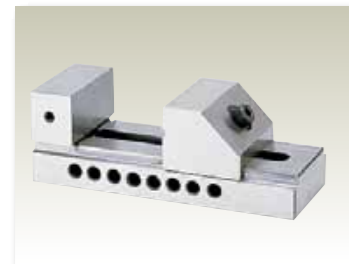
WHEEL FLANGE
 B05-0803
 Suitable for 305x76.2x31.75mm (12"x3"x1 1/4") grinding wheel
 Clamping width:22- 32mm (7/8"-1 1/4")
 B05-1201(1224CNC)
 Suitable for 355.6x127x102mm (14"x5"x4")



ELECTROMAGNETIC CHUCK
 (With standard pole pitch)
 B09-06072
 200x450mm (7 7/8"x17 3/4")
 (Voltage:110VDC)
 B09-04011(1224CNC)
 300x600mm (11 3/4"x23 5/8")
 *To order B23-0701 chuck control is required.



INCLINABLE ELECTROMAGNETIC CHUCK
 (With standard pole pitch)
 B09-09011 (818CNC)
 200x300mm (7 7/8"x11 3/4")
 *To order B23-0701 chuck control is required.



PRECISION VISE
 B11-0101
 50X76mm (2"x3")
 B11-0102
 63x100mm (2 1/2"x4")
 B11-0103
 76x100mm (3"x4")
 B11-0104
 89x127mm (3 1/2"x5")
 B11-0105
 100x127mm (4"x5")



TABLE-MOUNTED DOUBLE DIAMOND DISC DRESSER
 (Diamond disc is not included)
 B13-0811(818CNC)
 Motor:1/4HP
 Speed:1750rpm(60HZ)
 Roller Dia: Max.140mm (5 1/2")
 Roller Dia: Min.90mm (3 1/2")
 Clamping width:Max. 30mm (1 3/16")
 Dia of shaft: 35mm (1 3/8")



TABLE-MOUNTED DOUBLE DIAMOND DISC DRESSER
 (Diamond disc is not included)
 B13-0810(818CNC)
 Motor:1/4HP
 Speed:1750rpm(60HZ)/1450rpm(50HZ)
 Roller Dia: Max.140mm (5 1/2")
 Roller Dia: Min.90mm (3 1/2")
 Clamping width:Max. 50mm (2 1/8")
 Dia of shaft: 35mm (1 3/8")



B13-1202(C1224CNC)
 Motor:1/4HP
 Speed:1750rpm(60HZ)/1450rpm(50HZ)
 Roller Dia: Max.140mm (5 1/2")
 Roller Dia: Min.90mm (3 1/2")
 Clamping width:Max. 127mm (5")
 Dia of shaft: 45mm (1 4/5")
B13-1203
 Motor:1kw AC SERVO
 Speed:2000rpm
 Roller Dia: Max.140mm (5 1/2")
 Roller Dia: Min.90mm (3 1/2")
 Clamping width:Max. 200mm (8")
 Dia of shaft: 45mm (1 4/5")/52mm (2")



MACHINE LAMP
 B01-08011
 (818CNC)24V/50W



BALANCING STAND (ROLLER TYPE)
 B15-0601
 Suitable for 203-355mm(8"-14") wheel



ROLLER BALANCING STAND
 B15-0702(C1224CNC)
 Max. Wheel Dia.:508mm (20")



BALANCING STAND
 B15-0703(C1224CNC)
 Max. Wheel Dia.:406mm (16")



HYDRAULIC TEMPERATURE REGULATOR FOR SPINDLE AND DISC DRESSER
 B42-0801
 Cooling capacity: 700 kcal/hr



TOWER TYPE OF COOLANT SYSTEM
 B17-1201(1224CNC)
 Volume:1250L
 High pressure pump:4.5kg/cm²
 Coolant Capacity: 66L/min



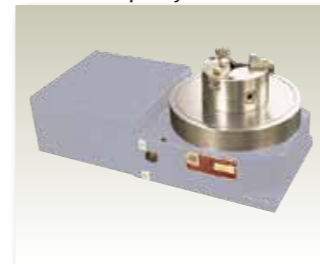
CHUCK CONTROLLER
 B23-0701
 Input Voltage: 140VAC
 Output Voltage: 110VDC
 (With variable holding power, auto demagnetization.)



GRINDING WHEEL DYNAMIC BALANCING SYSTEM
 • B44-0801(818CNC)
 • B44-1201(1224CNC)



CNC CONTROLLED HORIZONTAL INDEXER
 (This indexer,driven by AC servo motor and cooperated with CNC controller.)
 • B45-0802
 Resolution: 0.001°/STEP
 Max.rpm: 33.3rpm
 The tolerance of positioning is within: 0°0'5"



FIXED ANGLE VERTICAL INDEXER
 • B45-0803(818CNC)
 Resolution: 0.133°/STEP
 Max.rpm:33.3rpm
 The tolerance of positioning is within: 0°0'5"
 Pressure: 5kg/cm²



AUTOMATIC DOOR SYSTEM FOR SPLASH GUARD
 • B19-0802(818CNC)
 • B19-1201(1224CNC)
 * (To order B43-0801 low noise air compressor is required)



AUTO RETRACTING TABLE MOUNT DRESSER
 • B13-0801
 * (To order B43-0801 low noise air compressor is required)



COOLANT SYSTEM WITH AUTO PAPER FEEDING DEVICE&MAGNETIC SEPARATOR
 (With 1 Roll of Paper)
 B17-0802(818CNC)
 Volume: 250L
 Coolant Capacity: 1/4HPx2
 Pump: 80L/min
 Space: 1600x1100mm (63"x43")
 Height: 750mm (29 1/2")
 B17-0806(818CNC)
 Medium pressure pump:2.3kg/cm²
 Coolant Capacity: 66L/min
 B17-0807(818CNC)
 Extra high pressure pump:4.5kg/cm²
 Coolant Capacity: 66L/min
 B17-1203(C1224CNC)
 Volume: 500L
 Extra high pressure pump:4.5kg/cm²
 Coolant Capacity: 66L/min



COOLANT SYSTEM WITH AUTO PAPER FEEDING DEVICE
 (With 1 Roll of Paper)
 B17-0801(818CNC)
 Volume: 250L
 Coolant Capacity: 1/4HPx2
 Pump: 80L/min
 Space: 1600x1100mm (63"x43")
 Height: 750mm (29 1/2")
 B17-0803(818CNC)
 Medium pressure pump:2.3kg/cm²
 Coolant Capacity: 66L/min
 B17-0804(818CNC)
 Extra high pressure pump:4.5kg/cm²
 Coolant Capacity: 66L/min
 B17-1202(C1224CNC)
 Volume: 500L
 Extra high pressure pump:4.5kg/cm²
 Coolant Capacity: 66L/min



WHEELHEAD MOUNTED AUTOMATIC ROTARY DIAMOND DRESSER WITH AUTO WHEEL DRESSING COMPENSATION(Diamond roller is not included)
 • B13-0804(818CNC)
 Motor: 1/4HP
 Speed: 1750rpm(60HZ) 1450rpm(50HZ)
 Roller Dia:Max.100mm (3 7/8")
 Roller Dia:Min.90mm (3 1/8")
 Clamping width: Max.55mm (2 1/8")
 Dia of shaft: 35mm (1 3/8")
 • B13-1204(DIA-3)(C1224CNC)
 Motor: 2HP
 Speed: 1750rpm(60HZ) 1450rpm(50HZ)
 Roller Dia:Max.140mm
 Spindle Speed: 930rpm(60Hz) 775rpm(50Hz)
 Dia of shaft: 45mm (1 4/5")

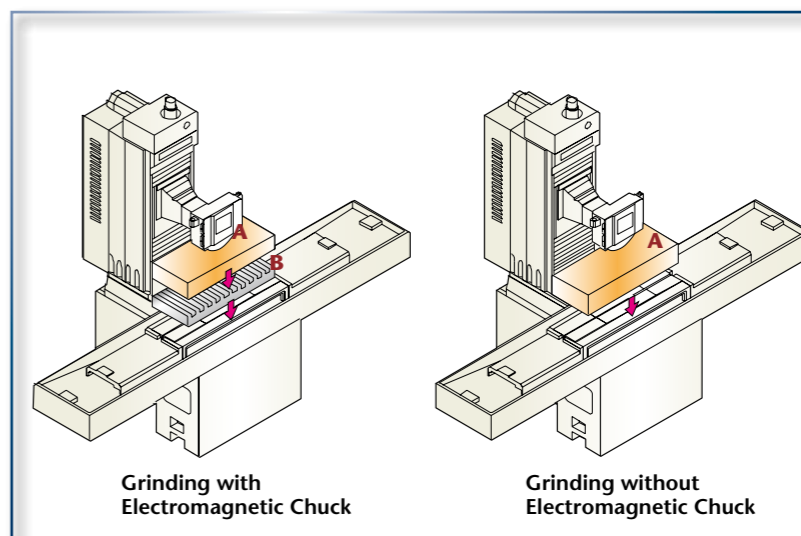


LOW NOISE AIR COMPRESSOR
 B43-0801
 Output: 1HPx2PCS
 Max. Pressure: 8 kg/cm²
 Displacement: 54L/min
 Space: 500x500mm (20"x20")
 Height: 860mm (34")
 B43-1201
 Output: 5HP
 Max. Pressure: 8 kg/cm²
 Space: 855x605mm (33 2/3"x23 4/5")
 Height: 965mm (38")

Description		FSG-B818CNC	FSG-H818CNC	FSG-C1224CNC
Table Size		203x457mm (8"x18")		305x610mm (12"x24")
Max. Grinding Length	Longitudinal	457mm (18")		610mm (24")
Max. Grinding Width	Crosswise	203mm (8")		305mm (12")
Max. Distance from Table urface to Spindle Centerline		480mm (19")		610mm (24")
Longitudinal Movement (X axis)	Max. table load	200kgs (440lbs)		420kgs (920lbs)
	T-Slot Size x Number	12mmx1 (15/32"x1)		14mmx1 (9/16"x1)
	Table Speed infinitely variable	10~15000mm/min (0.393~590 ipm)	20~25000mm/min (0.787~984 ipm)	10~15000mm/min (0.393~590 ipm)
	Max. Travel	650 mm (25 1/2")		810mm (32")
Cross Transverse Travel (Z axis)	Max. Travel	280 mm (11")		400mm (16")
	Column Feed infinitely variable	0~3000mm/min (0~118 ipm)		0~3000mm/min (0~118 ipm)
	Least Input Increment	0.001mm (0.0001")		0.001mm (0.0001")
	Cross Feed,intermittent/stroke	(by NC Data)		(by NC Data)
Wheelhead Vertical infeed (Y axis)	Speed	0.001mm (0.0001")		0.001mm (0.0001")
	Wheelhead Feed,Infinitely variable	0~1000mm/min (0~39 ipm)		0~1000mm/min (0~39 ipm)
	Auto.infeed	(by NC Data)		(by NC Data)
Grinding Spindle Drive	Speed	500~3500rpm		500~3500rpm
	Power Rating(AC SERVO)	11kw(15HP), Opt.15kw (20HP)		22kw(30HP), Opt.37.5kw(50HP)
Standard Grinding Wheel	Diameter	305 mm (12")		356mm (14")
	Width	31.75mm (1 1/4")		102mm (4")
	Bore	76.2mm (3")		127mm (5")
Rated Power, Approx.		15kw(20HP), Opt. 18.7kw(25HP)		42kw(56HP), Opt. 54kw(76HP)
Floor Space (LxWxH)		3000x3400x3240mm (118"x134"x92")		4000x2940x2660mm (158"x116"x105")
Machine Weight, Approx.		3950kgs (8708lbs)		9000kgs (19800lbs)

※The design, specifications, mechanisms... etc. are for reference only and may change without notification.

PERMISSIBLE LOADS OF MACHINE



The total suggested maximum loads of working table are shown as follows

MODEL	A=Workpiece		B=Magnetic chuck		C=A+B
	FSG-H818CNC	FSG-B818CNC	FSG-C1224CNC	FSG-C1224CNC	
A kgs(lbs)	165(363)	165(363)	314(690)		
B kgs(lbs)	35(77)	35(77)	106(233)		
C kgs(lbs)	200(440)	200(440)	420(924)		