



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





FSG-H/B818/C12

FEATURES

HEAVY DUTY CNC CREEPFEED 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 Effieciency

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 CREEPFEED & PROFILE GRINDER

The FSG-C1224CNC grinding machine, with 30HP spindle motor, is a heavy duty, high precision, high efficiency, multipurpose 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.

HIGH EFFICIENCY PRECISION

Crossfeed And Elevating Drive

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

Intergrated 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 Effieciency

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 can be dressed continuously. Thus 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

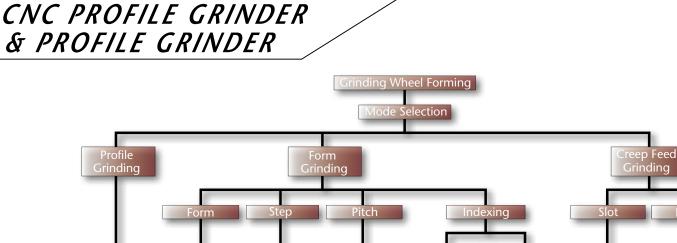
A forced flood coolant, accompanied by a totally enclosed splash guard cools the workpiece efficiently and helps prevent thermal damage and workpiece distortion.

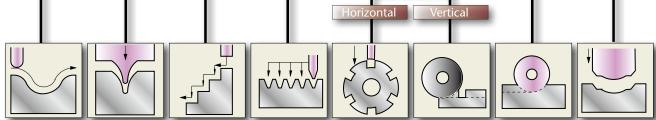
Crossfeed And Elevating Drive

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

24CNC Series

GRINDING MODE





Indexing Grinding

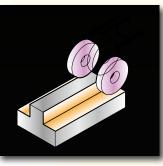
By using horizontal or vertical indexer or applicable holding fixture, machine can grind various indexing shapes and slots.

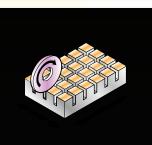
Step Grinding

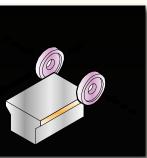
Multi level surface can be ground in one grinding cycle.

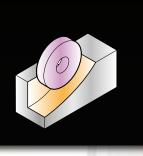
Side Grinding

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.









Heavy Duty Creepfeed Grinding

Creepfeed grinding can enhance efficiency for form and plunge grinding.

Slice Grinding

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

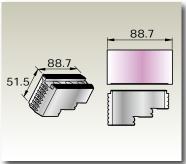
Punch Grinding

Various punch shapes can be creepfeed ground to enhance efficiency.

FSG-H/B818/C1

3 WORK EXAMPLES (C1224CNC)

HEAVY DUTY CNC CREEPFEED

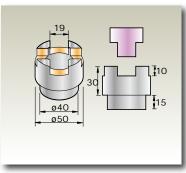


(Mechanical Industry)	
LATHE CHUCK PART	
MODEL:	C1224CNC
Opt. Acce.:	B17-1203, B42-0801
Material:	SCM21
Kind of Wheel:	ELBE(81A500LV26)
Form Accuracy:	±0.01mm (±0.0004")
Cycle time:	3 min 30 sec
Grinding Mode:	Form Grinding



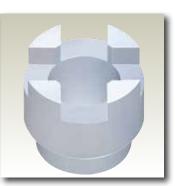


3 min 30 sec

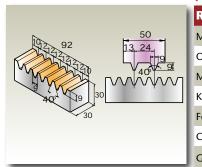


MOTOR JOINT	
MODEL:	C1224CNC
Opt. Acce.:	B17-1203, B42-0801
Material:	SKD11
Kind of Wheel:	CBN
Form Accuracy:	±0.01mm (±0.0007")
Cycle time:	30 sec
Grinding Mode:	Slot Grinding





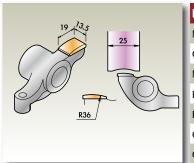
30 sec



(Mechanical Industry)

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

51 sec



(Automoble Industry)

RACKER ARM		
MODEL:	C1224CNC	
Opt. Acce.:	B17-1203, B42-0801	
Material:	\$55C	
Kind of Wheel:	ELBE(81A46-3k12V26)	
Form Accuracy:	±0.006mm (±0.0002")	
Cycle time:	10 sec	
Grinding Mode:	Form Grinding	

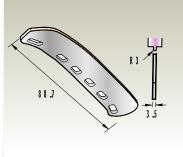




224CNC Series

WORK EXAMPLES (C1224CNC) 4

& PROFILE GRINDER

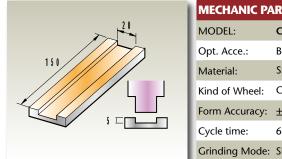


BLADES OF ICE SKATES	
MODEL:	C1224CNC
Opt. Acce.:	B17-1202
Material:	SK5M
Kind of Wheel:	CBN
Form Accuracy:	±0.01mm (±0.0004")
Cycle time:	5 sec
Grinding Mode:	Profile Grinding





5 sec



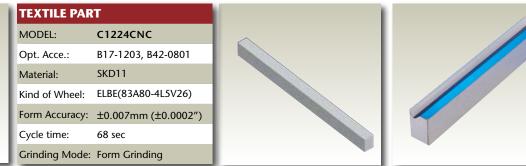
CHANIC PA	RTS WITH SLOT	
DEL:	C1224CNC	
Acce.:	B17-0802, B42-0801	
erial:	SKD11	
of Wheel:	CBN	
Accuracy:	±0.001mm (±0.0003")	
e time:	60 sec	
ding Mode:	Slot Grinding	



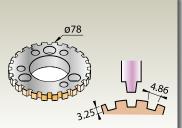


1 min

(Textile Industry)



1 min 8 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

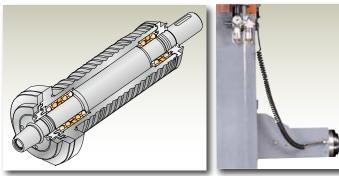




4 min 36 sec

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)



Totally Enclosed Splash Guard

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



Spindle

Coolant Drainage

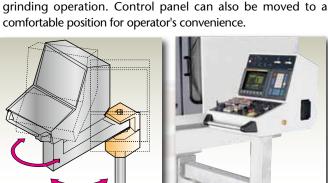
The enlarged and properly sloped drainage through on the upper machine base enables rapid coolant drainage needed to accommodate large volume of coolant flow during creepfeed grinding.





CHEVA





Control panel with 8.4" TFT LCD can display grinding position

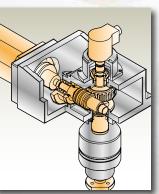
and program execution status, allowing operator to monitor



Elevating Encoder Device

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







Wheelhead travels with adequately pr ballscrew for accur downfeed increment



Lubrication

Forced lubricant au and mechanism th switch interlock pr before lubrication the machine if lubr machines longevity



G-H/B818/C1224CNC Se

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



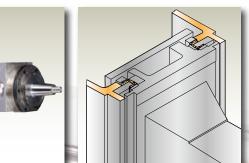
Note:Machine shown with optional accessories



Note:Machine shown with optional access

uide Way (818CNC)

on hardened and ground guide ways, interfacing e-loaded rollers. The wheelhead is driven by precise ate positioning at 0.001mm (0.00005") minimum nt.



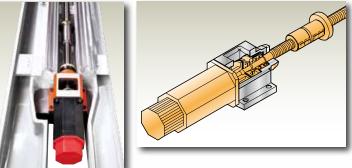
System (818CNC)

tomatically flows to all guideways nat require lubrication. A pressure events the spindle from running pressure is established and stops ication supply fails, enhancing the and accuracy.



Longitudinal Mechanism (B818CNC/C1224CNC)

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



Feed Loop — Return Loop — Grease Lubrication 5 6 5 — Grease Lubrication — Grease Lubrication — Grease Lubrication — Grease Lubrication — Grease Lubrication

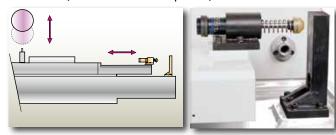
- 1. Column Slideways
- 2. Elevating Ballscrew
- 3. Base Guideways
- 4. Crossfeed ballscrew
- 5. Table Guideways
- 6. Ballscrew Rod
- 7. Lubricator
- 8. Flow Divider
- 9. Grease Gun



MACHINE CONSTRUCTION 7

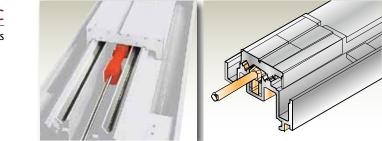
Automatic Dressing Function (H818CNC)

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.

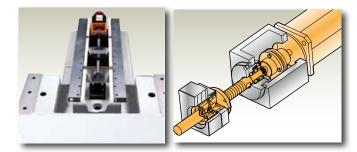


DISPLAY AND CONTROL PANEL



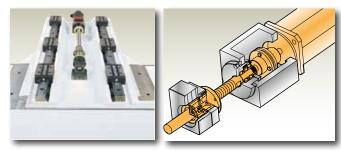
Crossfeed Guideway System (B/H818 CNC)

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.



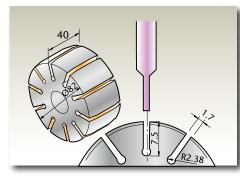
Crossfeed Guideway System (C1224CNC)

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.

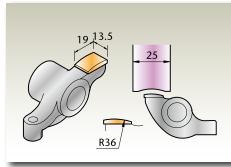


- 1. All executing function are well indicated. Main power, machine zero, end of program, magnetic chuck voltage, dressing, lubrication conditions are all shown by indicating LEDS.
- 2.The 8.4" TFT LCD color monitor position, program and working condition as well as self-displayed on the screen for the 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 deveoped 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.

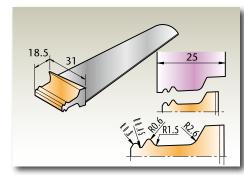
WORK EXAMPLES (H/B818CNC)

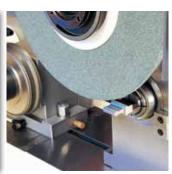


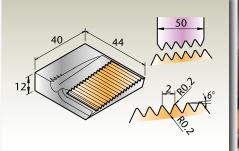


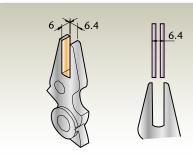




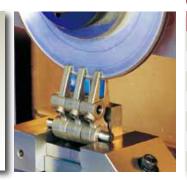












(Various Industry)

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	

(Automoble Industry)

ROCKER ARWMODEL:**B818CNC**Opt. Acce.:B13-0804Material:SCM-21Kind of Wheel:81A46K12VForm Accuracy:±0.006mm (±0.0002")Cycle time:15 secGrinding Mode:Plunge Grinding



86 sec

(Aircraft & Aerospace Industry)

I UKBINE 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

(Coustruction 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:	Greep 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
Material: Kind of Wheel: Form Accuracy: Cycle time:	SCM4 CB120-WBA-100 ±0.01mm (±0.0004") 55 sec



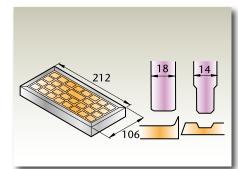




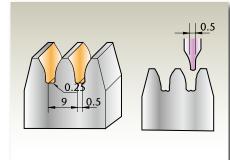


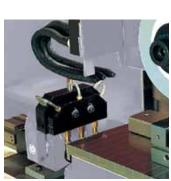
SG-H/B818/C1224CNC Serie

HIGH EFFICIENCY PRECISION CNC PROFILE GRINDER

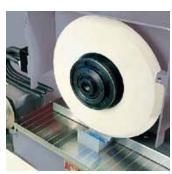


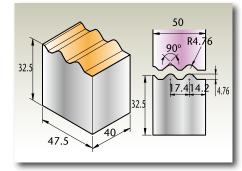


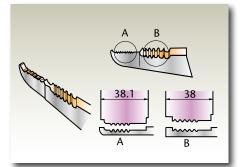




50 90° 50° 90° 50° 116.2 12











(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:	\$45C	
Kind of Wheel:	RA60153V	
Form Accuracy:	±0.005mm (±0.0002")	
Cycle time:	15 sec	
Grinding Mode:	Form Grinding	

15 sec

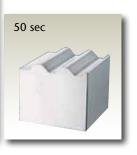
PRESS MOLDMODEL:B818CNCOpt. Acce.:B13-0811Material:S15CKind of Wheel:32A46-I14V

(Metal Working Industry)

Kind of Wheel:	32A46-I14V
Form Accuracy:	±0.01mm (±0.0004")
Cycle time:	50 sec
Grinding Mode:	Plunge Grinding

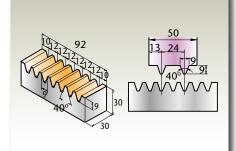
(Mold Industry)

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		
_			

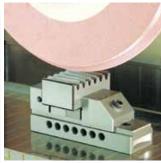




WORK EXAMPLES (H/B818CNC) 10



S



(Mechanical Industry)

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

B818CNC

B13-0811

38A120D25VCF2

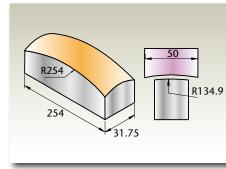
S45C

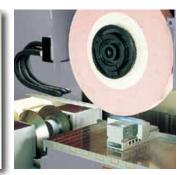
Form Accuracy: ±0.009mm (±0.0004")

6 min

4 min

6 min





Cycle time: Grinding Mode: Creepfeed Grinding

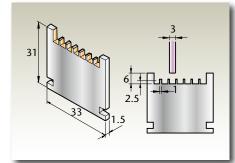
(Defense Industry) TANK PARTS

MODEL:

Opt. Acce.:

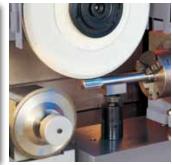
Kind of Wheel:

Material:





75R 19. R1.5 28



(Electrical Industry) IC PUNCHING MOULD

MODEL:	B818CNC	
Opt. Acce.:	B13-0801	
Material:	\$45C	
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		



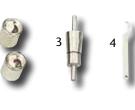
% FANUC 18iMB Contral is an Option.

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/deceler	ation	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	FANUC PMC-SA1	
7. Spindle feedrate override 5	0%-120% (10%per band)	30.NC automatic coodinate system setting	ng	
8. Rapid positioning		31.Inch/metric conversion		
9. Linear interploation		32.EIA/ISO automatic recognition		
10.Circular interpolation		33.Custom macro		
11.Manual reference point return		34.Part program storage length	640m	
12.2nd reference point return		35.Registered programs	400 pieces	
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-232Cinterface		38.Mechanical lubrication alarm		
16.Dwell		39.Pitch errior 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		

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







STANDARD ACCESSORIES Note:The items marked "•" with are stored in the tool box.

- 11.Levelling screws & nuts
- 12.Adjustable wrench

9. Screw driver

10.Leveling pads

- 13.Fuses
- 14.Plugs
 - 15.Machine Lamp(C1224CNC)







FSG-H/B818

Note: Items marked with". "are recommended to be factory installed



12

SPINDLE MOTOR • B31-0801(7.5HP) (818CNC) (To order B48-0801 or B48-0803 Frequency converter is required) • B31-0803(10HP) (818CNC) (To orderB48-0805 B48-0806 Frequency converter is required) • B31-1202(50HP) (1224CNC) Include Frequency converter.

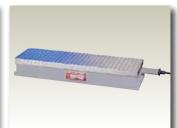


PRECISION VISE B11-0101 50X76mm (2"x3") B11-0102 63x100mm (2 1/2"x4") B11-0103 76x100mm (3"x4") B11-0104 89x127mm (3 1/2"x5") B11-0105 100x127mm (4"x5")



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 LECTROMAGNETIC CHUCK(With standard pole pitch) B09-09011 (B818CNC) 200x300mm (7 7/8"x11 3/4") ** To order B23-0701 chuck control is required.



TABLE-MOUNTED DOUBLEDIAMOND DISC. DRESSER(Diamond disc is not included)B13-0811(818CNC)Motor:1/4HPSpeed: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. DRESSERTABLE-MOUNTED DOUBLE
DIAMOND DISC. DRESSER(Diamond disc is not included)DIAMOND DISC. DRESSER(Diamond disc is not included)B13-0811(818CNC)

Motor:1/4HPRoller Dia: Min.9Speed:1750rpm(60HZ)/Clamping width:1450rpm(50HZ)Dia of shaft: 45mRoller Dia: Max.140mm (5 1/2")B13-1203Roller Dia: Min.90mm (3 1/2")Motor:1kw AC SClamping width:Max. 50mm (2 1/8")Speed:2000rpmDia of shaft: 35mm (1 3/8")Roller Dia: Max.1



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")

/ C 1 2 2 4 C N C

OPTIONAL ACCESSORIES



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



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°0'20"



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



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



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



AUTOMATIC DOOR SYSTEM FOR SPLASH GUARD

- B19-0802(818CNC)
- **B19-1201**(1224CNC)
- *(To order B43-0801 low noise air compressor is required)



13

GRINDING WHEEL DYNAMIC BALANCING SYSTEM

- B44-0801(818CNC)
- B44-1201(1224CNC)



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)

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: 45 mm (1 4/5")

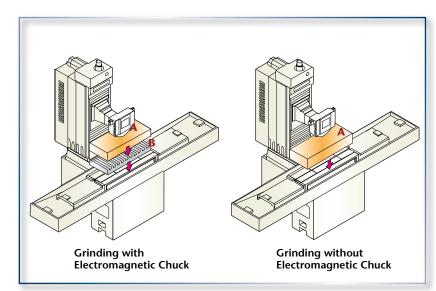


LOW NOISE AIR COMPRESSOR B43-0801

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

			GENERAL SP	ECIFICATION	14
Description		FSG-B818CNC	FSG-H818CNC	FSG-C1224CNC	
Table Size		203x457m	m (8"x18")	305x610mm (12"x24")
Max. Grinding Length	Longitudinal	457mr	n (18")	610mm (24")	
Max. Grinding Width	Crosswise	203m	m (8")	305mm (12")	
Max. Distance from Table urf	ace to Spindle Centerline	480mr	m (19")	610mm (24")	
	Max. table load	200kgs	(440lbs)	420kgs (920lbs)	
Longitudinal Movement	T-Slot Size x Number	12mmx1 ((15/32"x1)	14mmx1 (9/16"x1)	
(X axis)	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	(0.393~390 ipin) 650 mm		810mm (32")	
	Max. Travel	280 mi	m (11")	400mm (16")	
Cross Transverse Travel	Column Feed infinitely variable	0~3000mm/min (0~118 ipm)		0~3000mm/min (0~118 ipm)	
(Z axis)	Least Input Increment	0.001mm (0.0001")		0.001mm (0.0001")	
	Cross Feed, intermittent/stroke	(by NC Data)		(by NC Data)	
	Speed	0.001mm (0.0001")		0.001mm (0.0001")	
Wheelhead Vertical infeed (Y axis)	Wheelhead Feed,Infinitely variable	0~1000mm/min (0-39 ipm)		0~1000mm/min (0~39 ip	om)
(1 4.10)	Auto.infeed	(by NC	C Data)	(by NC Data)	
	Speed	500~35	500rpm	500~3500rpm	
Grinding Spindle Drive	Power Rating(AC SERVO)	11kw(15HP), Opt.15kw (20HP)		22kw(30HP), Opt.37.5kw(50HP)	
	Diameter	305 mm (12")		356mm (14")	
Standard Grinding Wheel	Width	31.75mm (1 1/4")		102mm (4")	
	Bore	76.2mm (3")		127mm (5")	
Rated Power, Approx.		15kw(20HP), Op	ot. 18.7kw(25HP)	42kw(56HP), Opt. 54kw(7	6HP)
Floor Space (LxWxH)		3000x3400x3240m	ım (118"x134"x92")	4000x2940x2660mm (158"x11	6"x105")
Machine Weight, Approx.		3950kgs	(8708lbs)	9000kgs (19800lbs)	

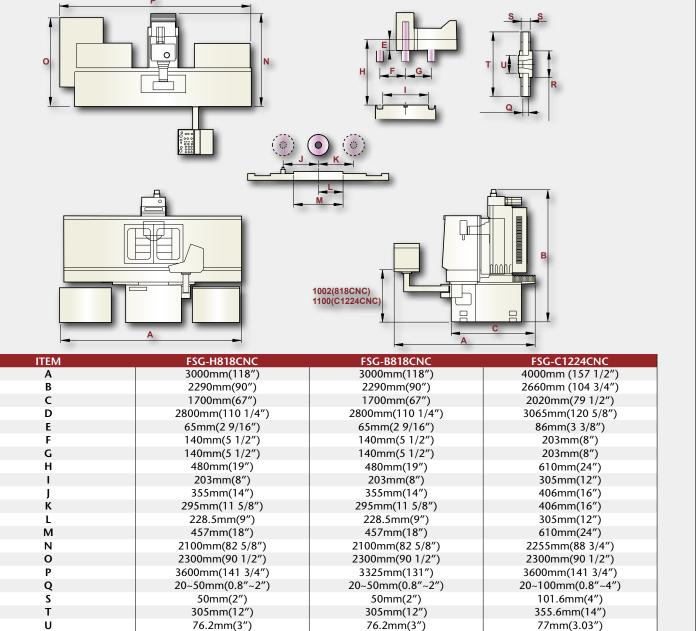
% The design, specifications, mechanisms... etc. are for reference only and may change without notification.



PERMISSIBLE LOADS OF MACHINE

The total suggested maximum loads of working table are shown as follows			
A=Workpiece	B= Magnetic chuck C=A		
MODEL	FSG-H818CNC	FSG-B818CNC	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)

DIMENSION DRAWING





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FAX: (562) 903-3959

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