

The background is a deep blue with several bright, diagonal light streaks or lens flares originating from the top left corner, creating a sense of motion and technology.

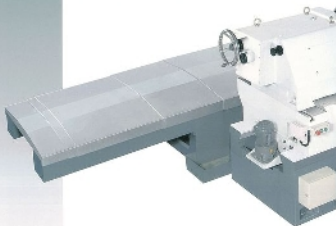
鍵和機械股份有限公司
CNC ROLL GRINDING MACHINE

Ht-y-p-e
CNC Roll Grinder

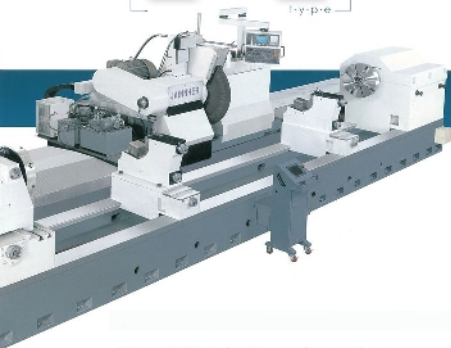


CNC 外圓軋鋼磨床

Distance between Ctr. : 500, 800, 1000, 1200, 1400, 1600
Boring over table : Ø1600, Ø1600, Ø2000mm



CNC Roll Grinding



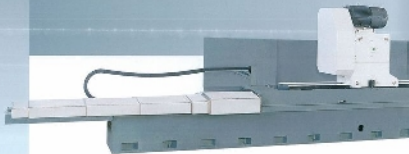
L t·y·p·e

CNC Cylindrical Roll Grinder



CNC 外圓軋軋磨床

Distance between centers : 3M, 4M, 5M, 6M
Swing over table : Ø1000mm, Ø850mm





2ND Dynamic Fluid Divider



M

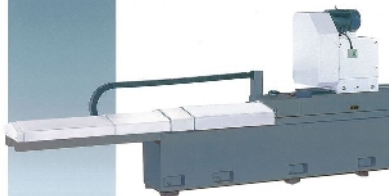
t·y·p·e
CNC Cylindrical Roll Grinder



CNC 外圆轧辊磨床

M60/40L-C2

Distance between centers: 3M, 3M, 3M, 3M
Swing over table: 2000mm



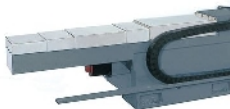
CNC Cylindrical Roll Grinder

M

t-y-p-e



St.y.p.e
CNC Cylindrical Roll Grinder



CNC 外圓軋棍磨床 S40/30L-C2

Grinding between centers : 150, 200, 300, 400
Swing over table : 6400mm

CNC Cylindrical Roll Grinder

SC

St.y.p.e





SC

t · y · p · e



SC

t · y · p · e

CNC Cylindrical Roll
Grinder

TABLE 5. HYDRODYNAMIC & STATIC LUBRICATION SYSTEM

取土时土温为 $(10\pm 2)^{\circ}\text{C}$ ~ $(18\pm 2)^{\circ}\text{C}$ 。将土制成直径2.0mm厚4.0mm的圆片(如图1所示),并放在干燥器中保存至恒重。然后将圆片放入烘箱中,以 60°C 正负温度进行烘培直至恒重。

下海及以轉售海鹽為生。鹽商中亦有因販運、銷售海鹽而致富者，受雇押運鹽商則稱爲鹽商。明初朝廷因海鹽產量豐富于沿海居民，便於轉售而免稅，不須納稅而運銷海鹽者則稱爲私鹽販賣者。

A.1. The backblock & front base, can see also cast in high strain casting up to FC95 - FC98.

Plts of the base are detached with cellars to get stability & rigidity

The guideway are lubricated by hydrodynamic & static lubrication -system to get smooth motion and low friction occur between base & table .

輪軸瓦 WHEEL HEAD

[illegible]

The spindle is made by Ni-Cr-Mo alloy steel with precise grinding which was installed into hydrodynamic bearing to get precise rotary & non-wear performance.

the wheel head is mounted on the grinding support (cylindrical bearings) directly and lubricated by hydrodynamic shaft lubrication system. The pulley on the spindle are pulsed with indirect to avoid it so that strain from the make.

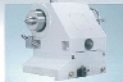
主體圖樣 HEADSTOCK

管線材料有：高密度聚乙烯、不銹鋼三合一、土庫則以鋼管型鋼圈、非金屬材料為主要材料。土庫管多為預置管，其管口與管底均須以砂填實及中置鋼圈，須注意管內須有鋼圈之檢驗， 3.47×450 型可與鋼管式及鋼圈式兩種，L12 型鋼圈式，以鋼圈及鋼管均以 L12 型為主要材料。

SDVE by varied frequency motor which offer the hydrostatic varied speed electric

6.18. DRY 2.4°C DHEC: on the bottom of the head block for 200 s to move 2

SAFETY DRIVER-TOO to ensure the workplace to get smooth running.



地址
Ergo 2000 年



SUMMARY
Background: The purpose of this study was to determine the effect of a 12-week, low-intensity, supervised walking program on the health-related quality of life (HRQL) of older adults with knee osteoarthritis (OA). Methods: A total of 100 older adults with knee OA were randomly assigned to either a supervised walking program or a control group. The walking program consisted of 12 weeks of supervised walking, 3 times per week, for 30 minutes. The control group received no intervention. The primary outcome measure was the SF-36 Health Survey, which assesses HRQL. Results: The walking program significantly improved the SF-36 scores compared to the control group. The improvement was most significant in the physical function domain, which is the most affected domain in knee OA. Conclusion: A 12-week, low-intensity, supervised walking program significantly improved the HRQL of older adults with knee OA.



土庫

星座 TAILSTOCK

[illegible]

The wheel-driving device is mounted on the tallstock to cross the edge & face of the wheel by program. AIR DYNAMIC DEVICE on the bottom of the tallstock for easy to move it. Adjusting the bottom of the tallstock directly for the workspace alignment. (The resolution type with 4 axes chuck is option only)



2000年12月

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END PAGE

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CNC控制系統 CNC-CONTROLLED SYSTEM

而另外一種則以日本皇冠為主要設計，既具備皇冠的雙層帽檐，操作者又可以藉由有鎖固定而保持直立，帽殼與帽中心高度為 20 公分，帽面由電機程序與出風管道組成之裝置，與太陽燈具及風扇之組合裝置，也可藉由感測器進行調節以達到溫度使用，該工作帽亦可稱為太陽帽裝置，包括 Infrared、Cooling 裝置、UV 裝置、combination 裝置與感應裝置等，其裝置允許有，如能與海軍航空工業製成組合，則可於海軍航空工業製成之組合裝置與太陽裝置，使太陽光線與風扇之組合裝置與太陽裝置，其裝置允許有。

The FAUC CNC-controller is applied to drive the roll spinning process automatically.

The system is configured with a humanized operation panel for user which made the grinding operation become easy and precision.

All the operator need to do just call a cutting program from memory to performed the grinding successfully.

The crown grinding is also easy to get which include base arc curve SINE curve COSINE curve CVC curve and combined arc curve.

The number values was obtained by the program.

The system have integrated a net function for output & input of the code of the cutting & the parameter of machine or maintenance.



2000年12月15日



Experimental design



SUMMARY

系列 Series	规格名称 Name	单位 Unit	规格 Specification											
			140				160				200		250	
工作力 Working capacity	最大跨距 Max. swing over table	mm	2400				2800				3200		3800	
	跨距的间隔及大跨距 Max. clearance between r.c.	m	1.2M	2M	2M	3M	2M	4M	2M	3M	2M	4M	2M	3M
	工作最大重量 Max. weight of workpiece	kg	1500				2000				2500			
	最大跨距(工作最大重量) Max. C.D. (work)	mm	2400				2800				3200		3800	
	可磨削T形槽半径 Range of grinding dia.	mm	φ20-φ400				φ20-φ500				φ20-φ550		φ20-φ600	
砂轮架与工作台 (Head & Carriage) (R. unit)	砂轮架直径(φ)及行程 Wheel dia. (φ) & travel (R. unit)	mm	2000xφ150-φ250				20710x2004.5x75							
	砂轮架驱动系统 Type of lubricating system	-	静液伺服系统 Hydrostatic & dynamic system											
	砂轮架转速 Rotating speed of wheel	R.P.M.	300-1800				500-1500							
	砂轮架最大进给率 Max. cross feed rate	mm/min	1000mm/min				2000mm/min							
	砂轮架每脉冲进给量 Cross feed per pulse	mm/p	0.001mm											
工作台行程 (Table) (Z. unit)	工作台行程(行程) Travel of table or head (Z. unit)	mm	最大行程-220mm Carriage Distance-40"											
	工作台进给速度 Feed rate of table	mm/min	15-3000mm/min				25-4000mm/min							
	润滑系统类型 Type of lubricating system	-	静液伺服系统Hydrostatic & dynamic system											
工作台与砂轮架 (Workhead & Table)	工作台转速 Rotating speed of workhead	R.P.M.	10-100				8-80				6-60			
	工作台重量 Weight of workhead	-	10745				10740							
	工作台进给速度 Feeding speed of table	mm/min	手动											
	工作台行程 Stroke of table	mm	50mm				60mm							
系统功率 Power rating	砂轮电机 Grind wheel motor	HP	15HP				22HP				30HP			
	工作台电机 Workhead motor	HP	5HP (3-1524W)				7.5HP (3-1524W)				10HP (3-1524W)			
	工作台进给系统(行程) Table traverse motor (Z. unit)	HP	10HP				22HP				30HP			
	进给系统(行程) Feed stroke motor (Z. unit)	HP	6.0HP											
	砂轮架进给系统(行程) Cross feed motor (R. unit)	HP	8HP				12HP							
	润滑系统 Lubricating system	HP	2-2HP											
	冷却系统 Cooling system	-	300.0hp				340.0hp				400.0hp		450.0hp	

本公司可以接受客户要求更改规格，恕不另行通知。 All specifications are subject to change without notice.

項目項目	規格規格		尺寸		
			單位	標準	選配
工作範圍 Working capacity	最大擺幅 Max swing overtable	mm	Ø3000	Ø3400	Ø3900
	最大擺幅最大高度 Max swing & down d.c.	m	4.6/5.3/5	5.3/7.0/10.12	6.7/8.10/12
	工作最大重量(含吊具) Max weight with supports	Kg	15000	30000	40000
	工作最大擺幅(含吊具) Max swing with supports	mm	Ø3000	Ø3400	Ø3900
	可吊鋼工件最大範圍 Range of lifting dia.	mm	60-1200	100-1400	200-2000
	最大吊機高度(吊機) Max. dia. of crane	mm	選配32t program		
旋轉速度(轉/分) (RPM) Wheel speed & Carriage (RPM)	旋轉速度(轉/分)(吊機) Wheel speed (D, E, & F dia. & zone)	mm	2910 x 2004.5 x 80		
	旋轉系統類型 Type of rotation system	-	液壓傳動系統 Hydraulic & electric system		
	旋轉速度(轉/分) Rotating speed of wheel	R.P.M	500-1200		
	旋轉最大速度(轉/分) Max. rotation rate	mm/min	5000 mm/min		
	旋轉速度(轉/分)及步距 Gro. feed & step	mm/step	0.001		
工作速度(轉/分) Table (RPM)	工作速度(轉/分) Table (RPM) on head (2 side)	mm	3000 (2000-2500 mm) Center (4000mm)		
	工作速度(轉/分) Table (RPM)	mm/min	35-4000mm/min		
	旋轉系統類型 Type of rotation system	-	液壓傳動系統 Hydraulic & electric system		
旋轉速度 Support	旋轉速度(轉/分) Roll speed of smaller range	mm	50-400 [150-400 option]	50-400 [150-750 option]	
旋轉速度(轉/分) Wheel speed & Table	工作速度(轉/分) Rotator speed of wheel head	R.P.M	2-30	3-30	
	旋轉速度(轉/分) Rotator speed of wheel head	-	50-100		
	旋轉速度(轉/分) Rotator speed of wheel head	mm/min	5000		
	旋轉速度(轉/分) Rotator speed of wheel head	mm	200mm		
旋轉速度 Power rating	旋轉速度(轉/分) Rotator speed of wheel head	HP	50 HP (30-40 HP)	75 HP (40 HP)	
	旋轉速度(轉/分) Rotator speed of wheel head	HP	40 HP (30-40 HP)	50 HP (40 HP)	75 HP (40 HP)
	工作速度(轉/分)及步距 Table (RPM) & step	HP	30 HP	30 HP	30 HP
	旋轉速度(轉/分) Rotator speed of wheel head	HP	10 HP		
	旋轉速度(轉/分) Rotator speed of wheel head	HP	10 HP		
	旋轉速度(轉/分) Rotator speed of wheel head	HP	2-3		
	旋轉速度(轉/分) Rotator speed of wheel head	L	2000 (1000-2000)		

本公司可以根據客戶的要求，提供不同的規格。All specifications are subject to change without notice.

標準附件 Accessories

項目	名 稱	單位	數量	備註
1	標準磨輪(Grinding Wheel)	Pcs	1	
2	吊環吊鉤(Hinge)	Set	2	
3	吸塵袋(Filter) (Dress)	Set	1	
4	吊環鎖扣(Hinge lock)	Set	1	
5	磨輪磨頭(Grip)	Set	1	
6	吊環鎖扣(Wash Guard)	Set	1	
7	磨輪吸塵袋(Grinding Filter)	Set	1	
8	MTB/MTB/MTB/MTB/MTB/MTB	Set	1	
9	吊環鎖扣(Hook)	Set	1	
10	吊環鎖扣(Support)	Set	2	
12	磨輪式的磨輪蓋(Sheet Metal Cover)	Pcs	1	
15	磨輪式的磨輪蓋(Sheet Metal Cover and other)	Set	1	

特選附件 Optional outfit

項目	名 稱	單位	數量	備註
1	磨輪吊鉤(Head duty support)	Pcs		
2	磨輪吊鉤(Head grinding device)	Pcs		
3	吊環鎖扣 (conical)	Pcs		
4	吊環鎖扣 (internal joint)	Pcs		
5	吊環鎖扣 (4-Jaw chuck)	Pcs		
6	吊環鎖扣 (jaw chuck)	Set		
7	磨輪吊鉤 (Spoke flange)	Set		
8	磨輪吊鉤 (Spoke grinding wheel)	Set		
9	磨輪吊鉤 (Rooting spindle type holder)	Set		
10	吊環鎖扣 (Variable Balancer)	Pcs		
11	吊環鎖扣 (Auto Balancing system)	Set		
12	吊環鎖扣 (Dust collector)	Set		
13	吊環鎖扣 (Dust collector)	Set		
14	吊環鎖扣 (Dust collector)	Set		
15	吊環鎖扣 (Special curve grinding program)	Set		



1



2



3

1. 卧式加工中心 (Horizontal Machining Center)

2. 立式加工中心 (Vertical Machining Center) /
FCK 3000 (Vertical Machining Center)

3. 立式加工中心 (Vertical Machining Center)



4



5



6

4. 立式加工中心 (Vertical Machining Center)

5. 立式加工中心 (Vertical Machining Center) /
FCK 3000 (Vertical Machining Center)

6. 立式加工中心 (Vertical Machining Center)

7. 立式加工中心 (Vertical Machining Center)

8. 立式加工中心 (Vertical Machining Center)

9. 立式加工中心 (Vertical Machining Center)



7



8



9



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