

Chia Lern Multi-Purpose Profile Grinder

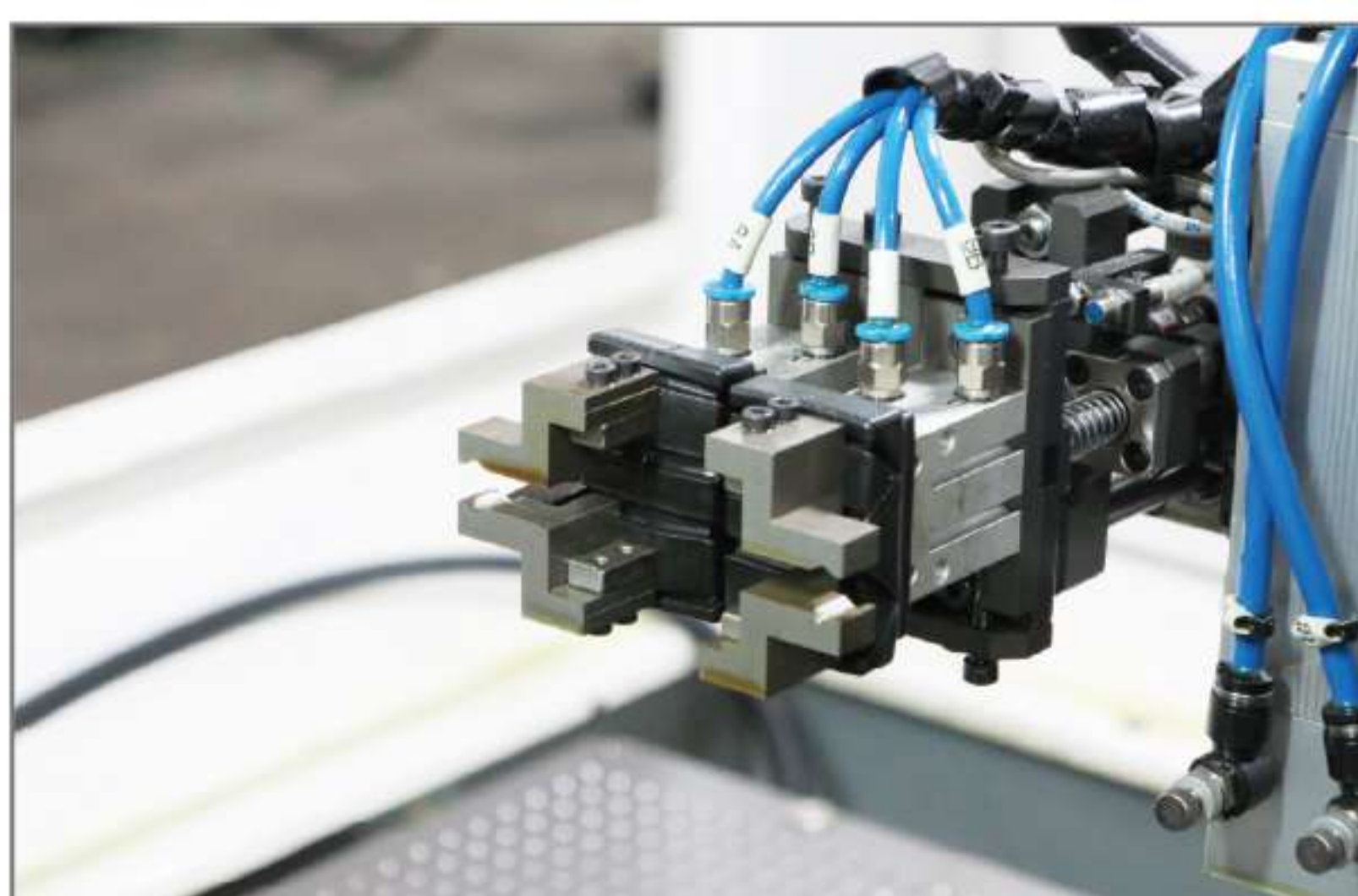
Grinding cylindrical blanks for
cutting tools, punches, pins,
micro drill...etc.



CNC 複合式自動外圓&刀具段差研磨機 Chia Lern Multi-Purpose Profile Grinder CH-CM0301



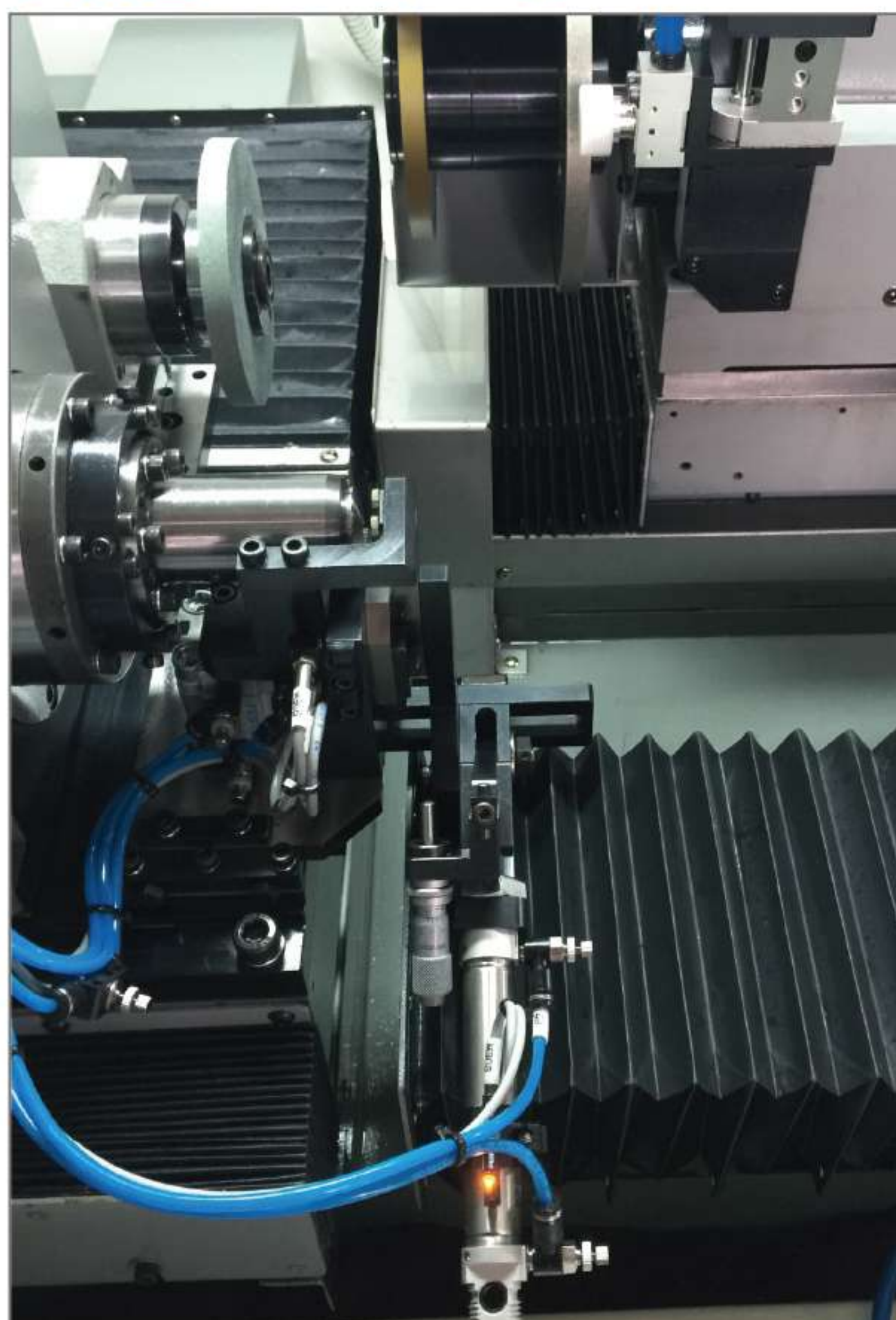
◎ 機械手臂與夾爪 Arm & Gripper



◎ 工作穩定裝置 WP steady structure



◎ 支持缸 Tools support Cylinder



◎ 修砂軸 Dressing axis



◎ 翻轉機構 Reversing structure



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CNC 複合式自動外圓&刀具段差研磨機

Chia Lern Multi-Purpose Profile Grinder

碳化鎢刀具、精密陶瓷、高速鋼等高硬度材料 全自動精密複合外圓製程研磨加工



Master of Grind



- 全自動化進出料系統
- 最多一次可使用三個砂輪加工
- 精密 V Block 或滾輪定心機構 確保同心度
- 可以執行有效長度加工
- 內建程式，G-M Code 以及各種 Cam 軟體皆可使用
- 精密砂輪主軸與高剛性工件主軸
- 可以執行段差與輪廓研磨加工

Grinding cylindrical blanks for cutting tools, punches, pins, micro drill...etc.

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版權所有，仿冒必究

CNC Multi-Purpose Punch Grinder

Grinding cylindrical blanks for
cutting tools, punches, pins,
micro drill...etc.



CNC 多功能沖棒研磨機
CNC Multi-Purpose Punch Grinder
CH-CM0305-MAB



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CNC 多功能沖棒研磨機 CNC Multi-Purpose Punch Grinder CH-CM0303



G-Code & CadCam程式整合
Combine with CadCam Program



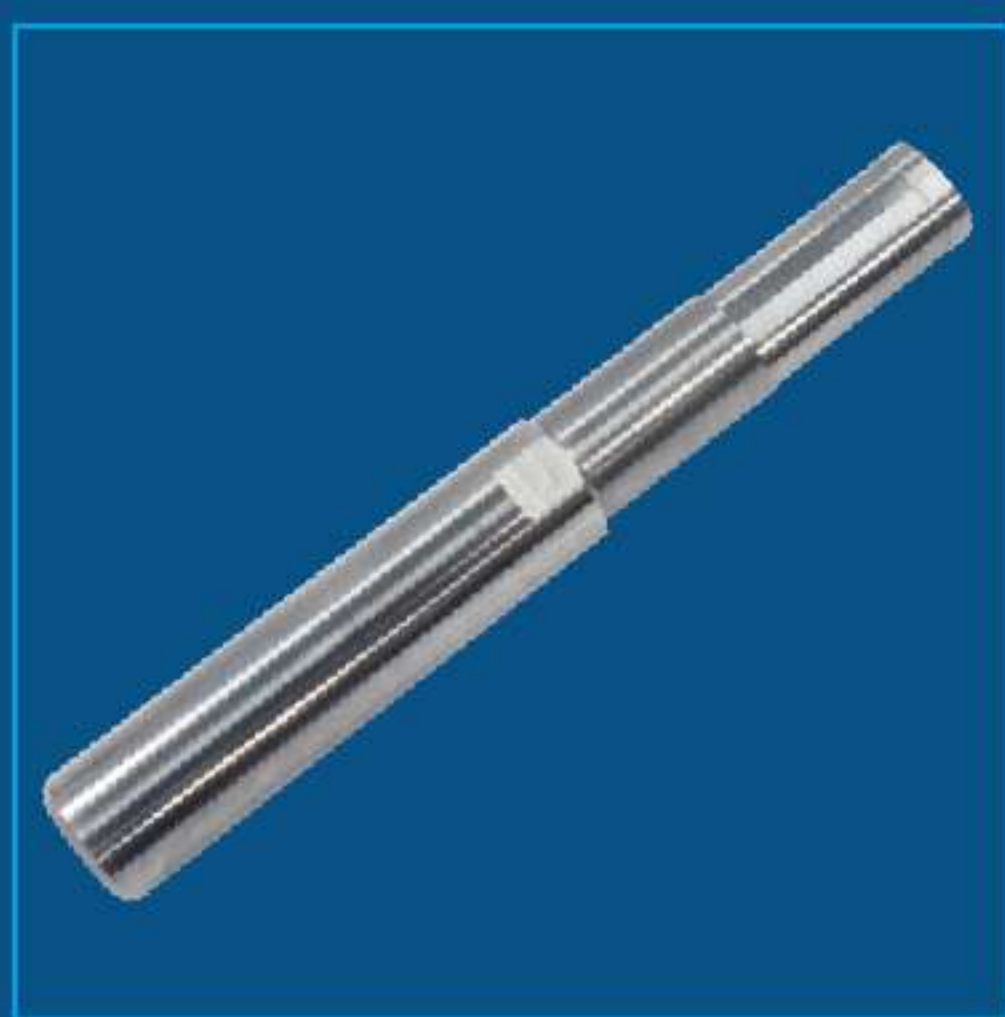
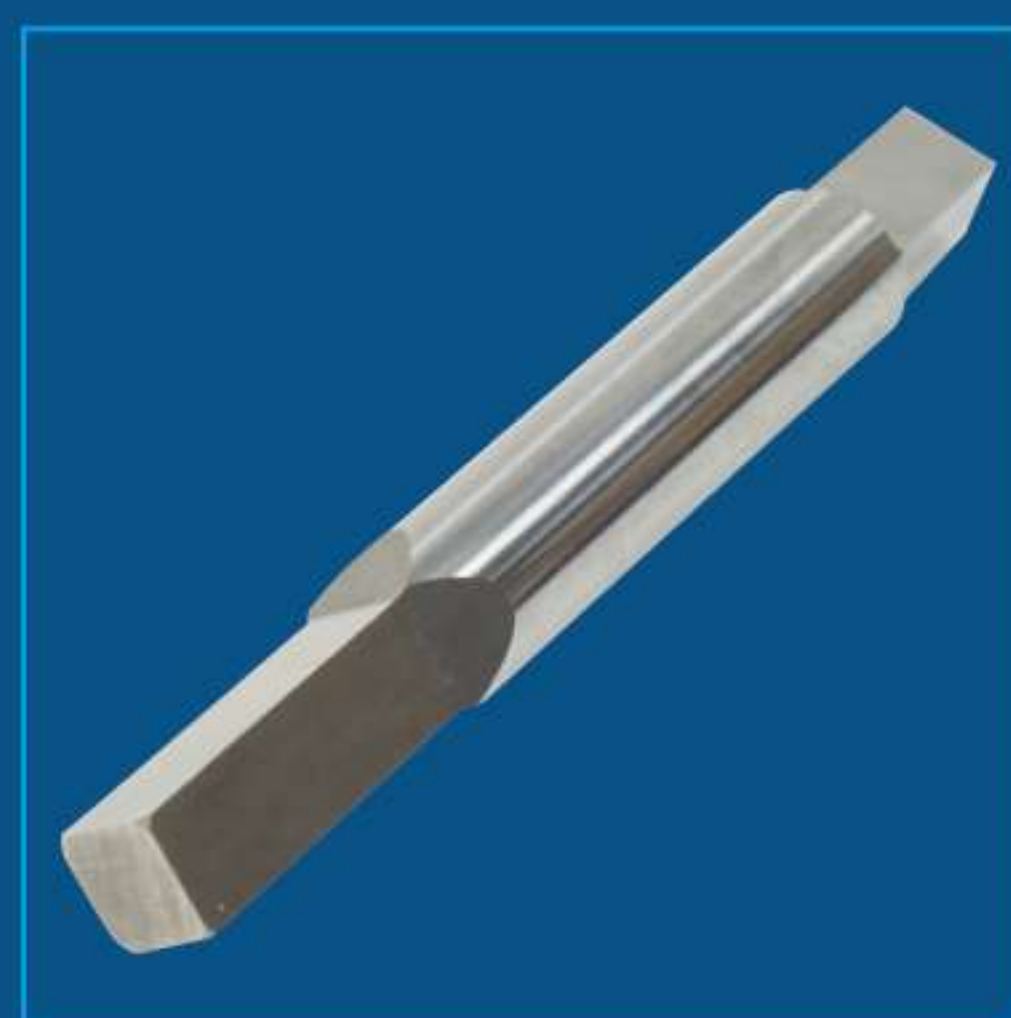
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CNC 多功能沖棒研磨機

CNC Multi-Purpose Punch Grinder

碳化鎢刀具、精密陶瓷、高速鋼等高硬度材料 全自動精密複合外圓製程研磨加工



- 全自動化進出料系統
- 最多一次可使用三個砂輪加工
- 精密 V Block 或滾輪定心機構確保同心度
- 可以執行有效長度加工
- 內建程式，G-M Code 以及各種 Cam 軟體皆可使用
- 精密砂輪主軸與高剛性工件主軸
- 可以執行段差與輪廓研磨加工

Grinding cylindrical blanks for
cutting tools, punches, pins,
micro drill...etc.



Chia Lern Multi-Purpose Profile Grinder

CNC Multi-Purpose Punch Grinder

Grinding cylindrical blanks for cutting tools, punches, pins, micro drill...etc.

- Fully Automatic loading and unloading system
- 3 grinding wheels can be maximum used in one procedure
- Perfect tool concentricity preserved by accurate V block or Roller
- Program performs for reworking the forming cutter
- The program built in to adapt G-M Code and all cam software
- Precise wheel spindle and high rigidity workpiece spindle
- Program performs plunge or profile grinding

基本規格 Specification

	型號 Model	機器尺寸 Machine size(LxWxH/mm)	機器重量 Machine weight (kg)	電力需求 Power request	控制系統 Control system
CNC 複合式自動外圓及刀具段差研磨機 Chia Lern Multi-Purpose Profile Grinder	CH-CM0301	2160x1640x1850	1700	3Ø 60HZ, 4.4KW	UTC-600V (Micro Trend)
	CH-CM0301-MA	1510x1620x1850	1200	3Ø 60HZ, 4.4KW	UTC-400V+ (Micro Trend)
	CH-CM0302	2160x1840x1850	1800	3Ø 60HZ, 8.8KW	UTC-600V (Micro Trend)
	CH-CM0302-MAB	1510x1750x1850	1300	3Ø 60HZ, 8.8KW	UTC-400V+ (Micro Trend)
CNC 多功能沖棒研磨機 CNC Multi-Purpose Punch Grinder	CH-CM0303	2280 x 1800 x 1850	1800	3Ø 60Hz, 6.3KW	Syntec
	CH-CM0303-MA	1510 x 1800 x 1850	1300	3Ø 60Hz, 5.1KW	Syntec
	CH-CM0305	2280 x 1800 x 1850	1900	3Ø 60Hz, 8.5KW	Syntec
	CH-CM0305-MAB	1510 x 1800 x 1850	1400	3Ø 60Hz, 7.3KW	Syntec

適用規格 Difference Spec.

	型號 Model	筒夾 Collet (Schaublin)	適用外徑 (筒夾穿孔) Applier O.D (Through Hole)	適用外徑 (限制夾持長度) Applier O.D (Length Clamped Limitation)	研磨外徑 Grinding O.D	自動上料長度 (mm) (AUTO) Length	手動上料長度 (mm) (Manual)Length
CNC 複合式自動外圓及刀具段差研磨機 Chia Lern Multi-Purpose Profile Grinder	CH-CM0301	W20	Ø 3 ~ 14.5 mm	Ø 14.5 ~ 16 mm (L : 28mm)	Ø0.1~12mm	40~100	40~200
	CH-CM0301-MA	W20	Ø 3 ~ 14.5 mm	Ø 14.5 ~ 16 mm (L : 28mm)	Ø0.1~12mm	-	40~200
	CH-CM0302	W25	Ø 3 ~ 19.05 mm	Ø 19.05 ~ 21mm (L : 35mm)	Ø0.1~19mm	40~150	40~200
	CH-CM0302-MAB	W25	Ø 3 ~ 19.05 mm	Ø 19.05 ~ 21mm (L : 35mm)	Ø0.1~19mm	-	40~200
CNC 多功能沖棒研磨機 CNC Multi-Purpose Punch Grinder	CH-CM0303	W20	Ø 3 ~ 14.5 mm	Ø 14.5 ~ 16 mm (L : 24mm)	Ø0.1~12mm	40~100	40~200
	CH-CM0303-MA	W20	Ø 3 ~ 14.5 mm	Ø 14.5 ~ 16 mm (L : 24mm)	Ø0.1~12mm	-	40~200
	CH-CM0305	W25	Ø 3 ~ 19.05 mm	Ø 19.05 ~ 21mm (L : 30mm)	Ø0.1~19mm	40~150	40~200
	CH-CM0305-MAB	W25	Ø 3 ~ 19.05 mm	Ø 19.05 ~ 21mm (L : 30mm)	Ø0.1~19mm	-	40~200

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CNC 複合式自動外圓&刀具段差研磨機

CNC 多功能沖棒研磨機

碳化鎢刀具、精密陶瓷、高速鋼等高硬度材料 全自動精密複合外圓製程研磨加工

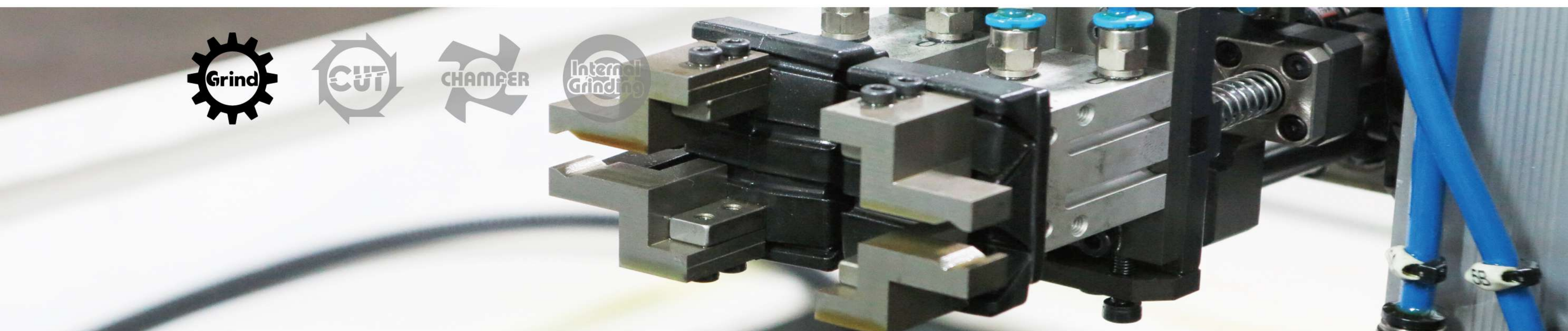
- 全自動化進出料系統
- 最多一次可使用三個砂輪加工
- 精密 V Block 或滾輪定心機構確保同心度
- 可以執行有效長度加工
- 內建程式，G-M Code 以及各種 Cam 軟體皆可使用
- 精密砂輪主軸與高剛性工件主軸
- 可以執行段差與輪廓研磨加工

主軸規格 Spindle Specification

型號 Model		砂輪主軸外徑 GW Spindle OD	砂輪主軸馬達 Grinding Motor	砂輪外徑 Grinding wheel	工件主軸外徑 WP Spindle OD	工件主軸馬達 WP Spindle Motor
CNC 複合式自動外圓 & 刀具段差研磨機 Chia Larn Multi-Purpose Profile Grinder	CH-CM0301	Ø 80 mm Max. 4200 rpm	2 HP	Ø 100~175 mm	Ø 100 mm Max. 1200 rpm	200W Brushless Motor
	CH-CM0301-MA	Ø 80 mm Max. 4200 rpm	2 HP	Ø 100~175mm	Ø 100 mm Max. 1200 rpm	200W Brushless Motor
	CH-CM0302	Ø 80 mm Max. 4200 rpm	5 HP	Ø 100~250 mm	Ø 120mm Max. 1200 rpm	900W Servo motor
	CH-CM0302-MAB	Ø 80 mm Max. 4200 rpm	5 HP	Ø 100~250 mm	Ø 120 mm Max. 1200 rpm	900W Servo motor
CNC 多功能沖棒研磨機 Chia Larn Multi-Purpose Punch Grinder	CH-CM0303	Ø 80 mm Max. 4200 rpm	2 HP	Ø 100~175 mm	Ø 100 mm Max. 1200 rpm	1.1 KW Servo motor
	CH-CM0303-MA	Ø 80 mm Max. 4200 rpm	2 HP	Ø 100~175 mm	Ø 100 mm Max. 1200 rpm	1.1 KW Servo motor
	CH-CM0305	Ø 80 mm Max. 4200 rpm	5 HP	Ø 100~250 mm	Ø 120 mm Max. 1200 rpm	1.1 KW Servo motor
	CH-CM0305-MAB	Ø 80 mm Max. 4200 rpm	5 HP	Ø 100~250 mm	Ø 120 mm Max. 1200 rpm	1.1 KW Servo motor

其它規格 Other Specification

型號 Model		筒夾 Collet	軸向行程(mm) Axis Max. Stroke	軸向速度 Axis Max Speed.	軸向解析度(mm/sec.) Axis Resolution	軸向伺服馬達(mm) Servo Motor	空壓元件 Pneumatic Units
CNC 複合式自動外圓 & 刀具段差研磨機 Chia Larn Multi-Purpose Profile Grinder	CH-CM0301	Schaublin(UP)Type W20	200	120 (mm/s)	0.001	YASKAWA	FESTO
	CH-CM0301-MA	Schaublin(UP)Type W20	200	120 (mm/s)	0.001	YASKAWA	FESTO
	CH-CM0302	Schaublin(UP)Type W25	200	120 (mm/s)	0.001	YASKAWA	FESTO
	CH-CM0302-MAB	Schaublin(UP)Type W25	200	120 (mm/s)	0.001	YASKAWA	FESTO
CNC 多功能沖棒研磨機 CNC Multi-Purpose Punch Grinder	CH-CM0303	Schaublin (UP) Type W20	200	10 (m/min)	0.001	Syntec	FESTO
	CH-CM0303-MA	Schaublin (UP) Type W20	200	10 (m/min)	0.001	Syntec	FESTO
	CH-CM0305	Schaublin (UP) Type W25	200	10 (m/min)	0.001	Syntec	FESTO
	CH-CM0305-MAB	Schaublin (UP) Type W25	200	10 (m/min)	0.001	Syntec	FESTO



Endface Multifunction Grinding Machine

Multifunction for Endface Dressing
Pre-point
Radius Grinding Process

Endface Multifunction Grinding Machine PP-001

- Front Detect Function :
Calculated the touch position precise automatically
- Colorful Touch Screen : Easily to set each function and operation.
- Speed Adjustable in 2 rates, 0~150% Grinding Speed Adjustable
- Wheel Radius Compensation Function
- Grinding Multifunction Apply For "Pre-point" "Endface Dressing"
" "Radius" "Bevel+Radius" "Endface Dressing+Chamfering"
- Specification

Machine Size	1630 X 890 X1580 (LxWxH /mm)
Machine Weight	800 (kgs)
Power Request	3Ø AC220V (380V),60Hz, 7.6 KW
Range for OD	Ø3~20 (mm)
Range for Length	45~150 (mm)



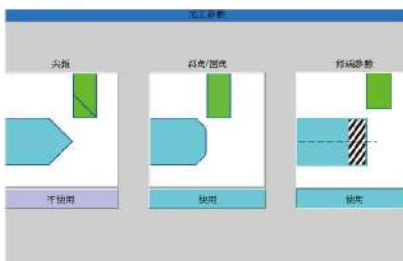
◎ Auto Magazine Loading Type
in Large Capacity



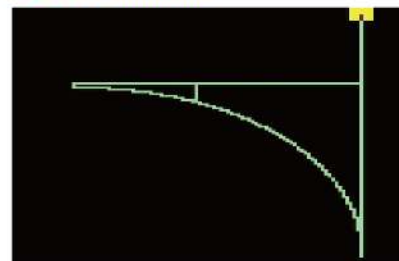
◎ Rollers Design with Great Precise



◎ Functions Selection Screen



◎ Route simulation



端面多功能研磨機

Endface Multifunction Grinding Machine

Multifunction for Endface Dressing / Pre-point / Radius Grinding Process

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端面多功能研磨機 PP-001

- 前端探測功能：自動精準計算加工接觸位置
- 彩色觸控螢幕：各功能設定操作簡單。
- 兩段變速可調，加工速度微調範圍0~150%
- 砂輪R角補正功能
- 可多功能研磨尖錐、端面、R角、斜面+R角、修端+倒角
- 基本規格 Specification

機器尺寸	1630 X 890 X1580 (LxWxH /mm)
機器重量	800 (kgs)
電力需求	3Ø AC220V (380V),60Hz, 7.6 KW
直徑範圍	Ø3~20 (mm)
長度範圍	45~150 (mm)

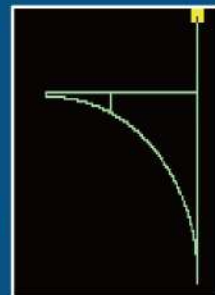
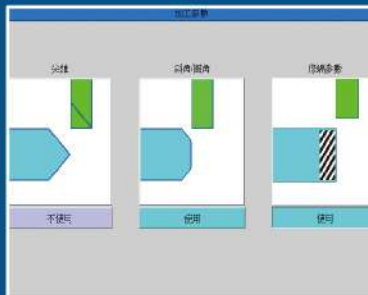


◎ 大容量自動彈倉式入料

◎ 精密雙滾輪設計

◎ 功能選擇畫面

◎ 路徑模擬功能



CNC Auto Cutting Machine

CH-CM0207

The fully automatic cut-off system of tungsten carbide, HSSE super hardness bar



Special

- Auto loading and unloading
- Simply procedure w/ various bar O.D.
- Auto wheel compensation.
- Double V blocks, high cutting efficiency
- Servo motor, cutting length precisely

Specification

Diamond cutting wheel	
Bar OD	Ø1.6~25mm
(Single Cutting Available : Ø17~25mm)	
Bar Length	50~400mm
Servo Motor	Syntec AM1
Cutting length accuracy	+/- 0.05mm

◎ CNC Touchable Screen



◎ Wheel Probe Mechanism



◎ Straight Up & Down Cutting



◎ Double V Block Cut 2 bars.
Precisely Loading to V Block Movable.



◎ Stable Feeding Mechanism



◎ Auto Loading & Unloading Mechanism
Adjustable Loading Mechanism



Clamper Unloading Mechanism



TAIWAN

Double Servo Automatic Carbide Bar Cut Off Machine

The fully automatic cut-off system of tungsten carbide, HSSE supper hardness bar



Double Servo Automatic Carbide Bar Cut Off Machine

CH-CM0206

- One cutting procedure, same size of bar can be setup in 3 cutting sizes
- Program to count finished tool automatically
- High capacity of loading and unloading mechanism
- Wheel sensors automatically compensate for wearing
- Cutting speed can be micro adjusted by Servo Controller
- Wheel's RPM is adjustable according to bar OD
- Alarm mechanism prevent from V tray loading two bars per time

Basic Specification

Machine size	2030 x 1100 x 1960 (LxWxH/mm)
Machine weight	930 (kg)
Power request	3Ø AC220V (380V), 60Hz, 6KW
Motor	MEZ 4P 5.5HP 623 B3

Function Specification

	One pc	Two pc
Range of out Diameter	Ø 1.5 ~ 35 (mm)	Ø 3 ~ 21 (mm)
Range of Length	80 ~ 400 (mm)	



© Adjustable clamping



© Loading cushion cylinder



© High accuracy ball screw



© V Tray setting adjustable



雙伺服自動送料碳化鎢鋼圓棒切斷機

Double Servo Automatic Carbide Bar Cut Off Machine

碳化鎢鋼、高速工具鋼高硬度棒材專用全自動切斷機(鑽頭、銑刀等)

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雙伺服自動送料碳化鎢鋼圓棒切斷機 CH-CM0206

- 同一尺寸棒材裁切運作時，可同時設定3種裁切尺寸
- 程式自動計算可加工段數與加工數量到達支數
- 大容量入料箱與出料箱
- 砂輪磨耗自動補償功能
- 伺服控制切刀裁切速度可微調
- 砂輪轉速變頻器控制，可根據材料大小變換
- 兩支入料警示機構

基本規格

機器尺寸	2030 x 1100 x 1960 (LxWxH/mm)
機器重量	930 (kg)
電力需求	3Ø AC220V (380V), 60Hz, 6KW
馬達	MEZ 4P 5.5HP 623 B3

適用規格

	單支	雙支
棒材 外徑	Ø 1.5 ~ 35 (mm)	Ø 3 ~ 21 (mm)
棒材 長度	80 ~ 400 (mm)	

◎ 入料緩衝氣缸



◎ 可調式壓料



◎ 高精度螺桿



◎ 可調式 V 型槽支撐座形



摩天輪自動小徑倒角機

Auto Ferris Wheel Chamfering Machine
For Tiny Tool

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摩天輪自動小徑倒角機

CH-0001

- 小徑材料倒角的最佳選擇
Best choice for small rod chamfer
- 研磨倒角長度可精準調整
Grinding chamfering length adjustable and precisely
- 角度30° 與 45°可調
Chamfer angle 30° and 45° adjustable
- 砂輪接觸位置可調
Wheel touched position adjustable
- 生產換線快速簡單
Easy and fast for changing production line
- 加工計數功能
Countable function

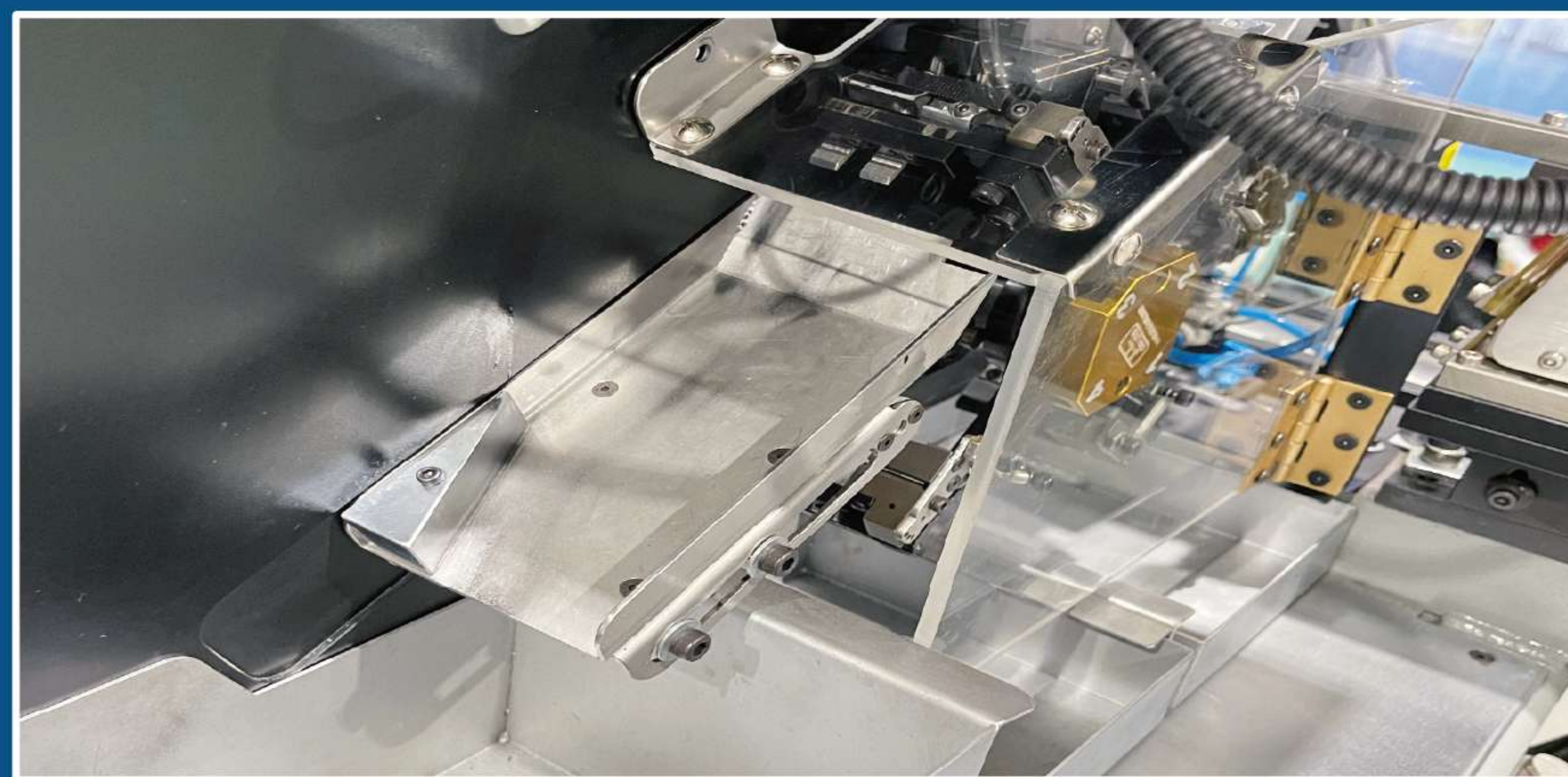
基本規格 Specification

棒材適用外徑 Working Diameter	Ø 1.6 ~ 3.175 mm
棒材適用長度 Working Length	16 ~ 44.5 mm
倒角角度 Chamfering Angle	30° ~ 45°

◎ 簡單容易設定 Simple and easy set up



◎ 完成品收集籃 Tool collection box



◎ 摩天輪式進出料設計 Ferris wheel load and unload design



◎ 震動盤控制面板 Vibration feeder control panel



Semi-Manual Cut Off Machine For Tungsten Carbide Bar

Apply for rods like H.S.S. 、Carbide.
Ceramic...etc high accuracy process



Semi-Manual Cut Off Machine For Tungsten Carbide Bar CH-CM01-M2

- Easy Set up control panel
- Cutting mode- Hand wheel / Auto cut off cycle
- Cutting length adjustable by hand wheel and LED displayed
- Cutting speed controlled by servo motor
- Special clamping design for forming bar
- Easy to set up and quick to start up
- A cycle for cutting off procedure
- A clamps be applied for
Ø1.4~35mm without resetting

Basic Specification

Machine size	1090 x 960 x 1460 (LxWxH/mm)
Machine weight	340 (kg)
Motor	3 HP spindle motor

Function Specification

Range of out Diameter	Ø 1.4 ~ 35 (mm)
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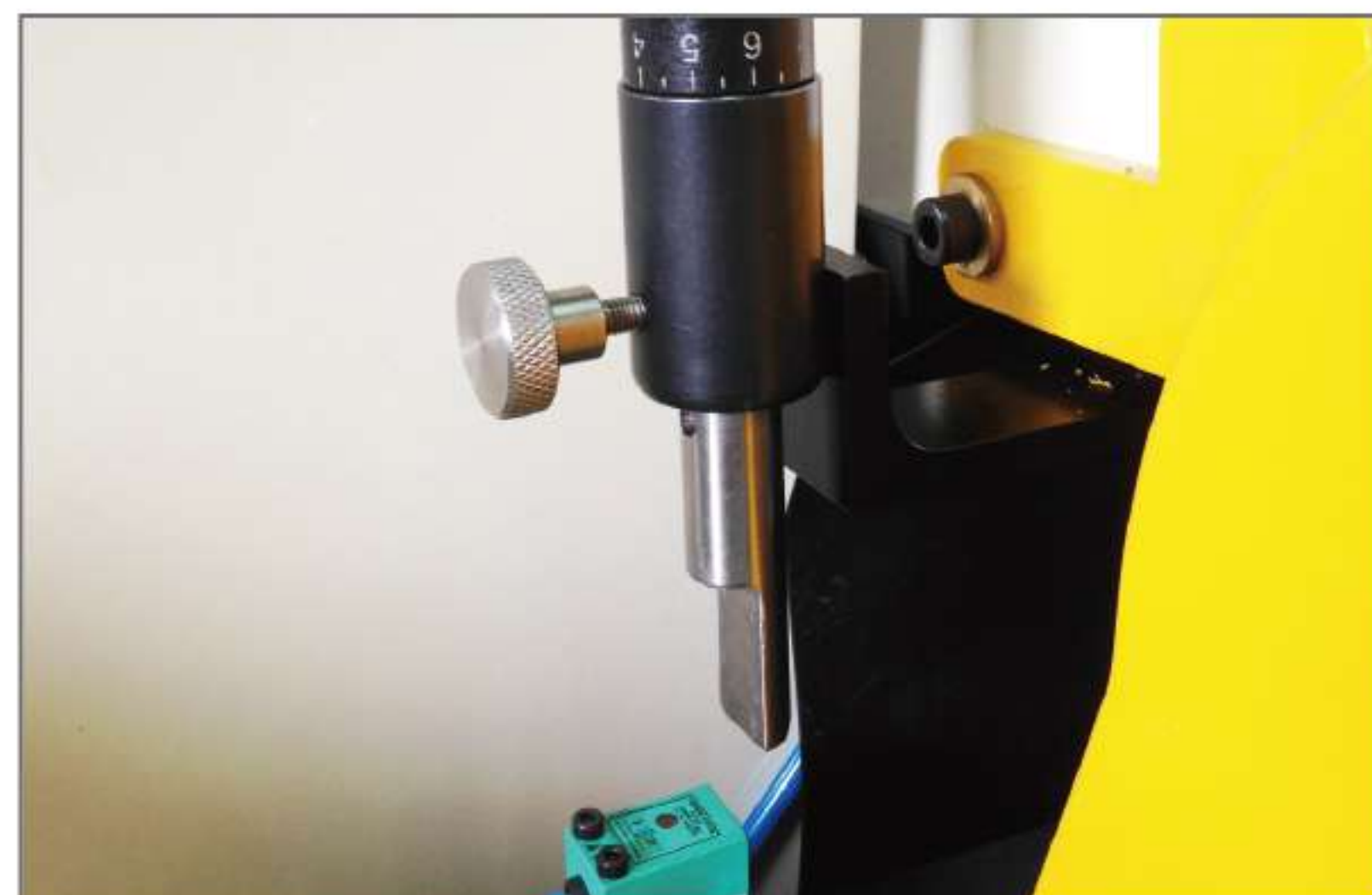
© LED length display



© Length setting control



© Wheel compensate adjustable



© Double clamping



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碳化鎢鋼圓棒半自動切斷機

Semi-Manual Cut Off Machine For Tungsten Carbide Bar

適用於圓棒類材料，像是H.S.S.、鎢鋼、陶瓷等高精密加工

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碳化鎢鋼圓棒半自動切斷機

CH-CM01-M2

- 人性化控制面板
- 兩種裁切模式可選-手動裁切 / 自動裁切循環
- 切斷長度手輪控制 & LED顯示
- 切刀速度伺服控制
- 特殊壓料設計可裁切使用過棒材再研磨利用
- 極短設置與上手時間
- 切斷動作一次循環
- 一次夾持免重新設置可切外徑 $\varnothing 1.4 \sim 35\text{mm}$

基本規格

機器尺寸	1090 x 960 x 1460 (LxWxH/mm)
機器重量	340 (kg)
馬達	3 HP spindle motor

適用規格

棒材外徑	$\varnothing 1.4 \sim 35$ (mm)
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◎ 長度設定控制



◎ 鋸片磨耗可微調補償



◎ 切斷長度LED顯示尺寸



◎ 左右雙壓料機穩定工件



CNC Tungsten Carbide Bar Chamfering Machine

An automatic grinding machine to chamfer the blanks for cutting tools (drills, milling cutter) made of carbide and super high speed steel



CNC Tungsten Carbide Bar Chamfering Machine CH-CM0203

- Fully auto from loading to unloading to save the manpower and labor cost
- The bars can be in ordered automatically by loading mechanism
- After chamfering, the roll-transport opens automatically to set the ground part onto the conveying belt and sent to unloading basket
- Little set-up time

Basic Specification

Machine size	1250 x 1290 x 1980	(LxWxH/mm)
Machine weight	755	(kg)
Power request	3Ø AC220V (380V), 60Hz, 6.6KW	
wheel	cup wheel, OD 100mm, internal hole : 19.05mm	

Function Specification

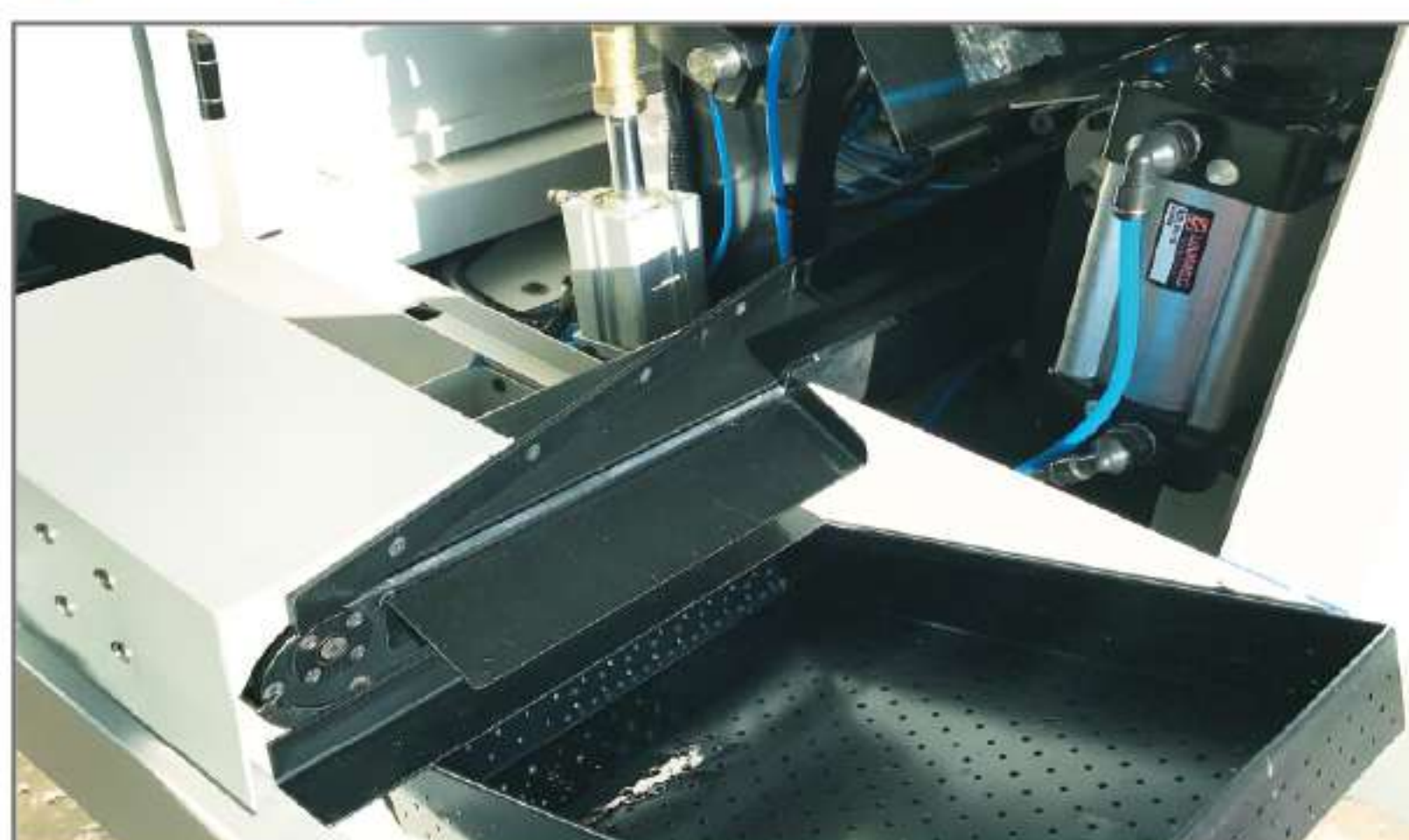
Range of out Diameter	Ø 3 ~ 25	(mm)
Range of Length	40 ~ 150	(mm)
Chamfering angle	90 ~ 120	(°)



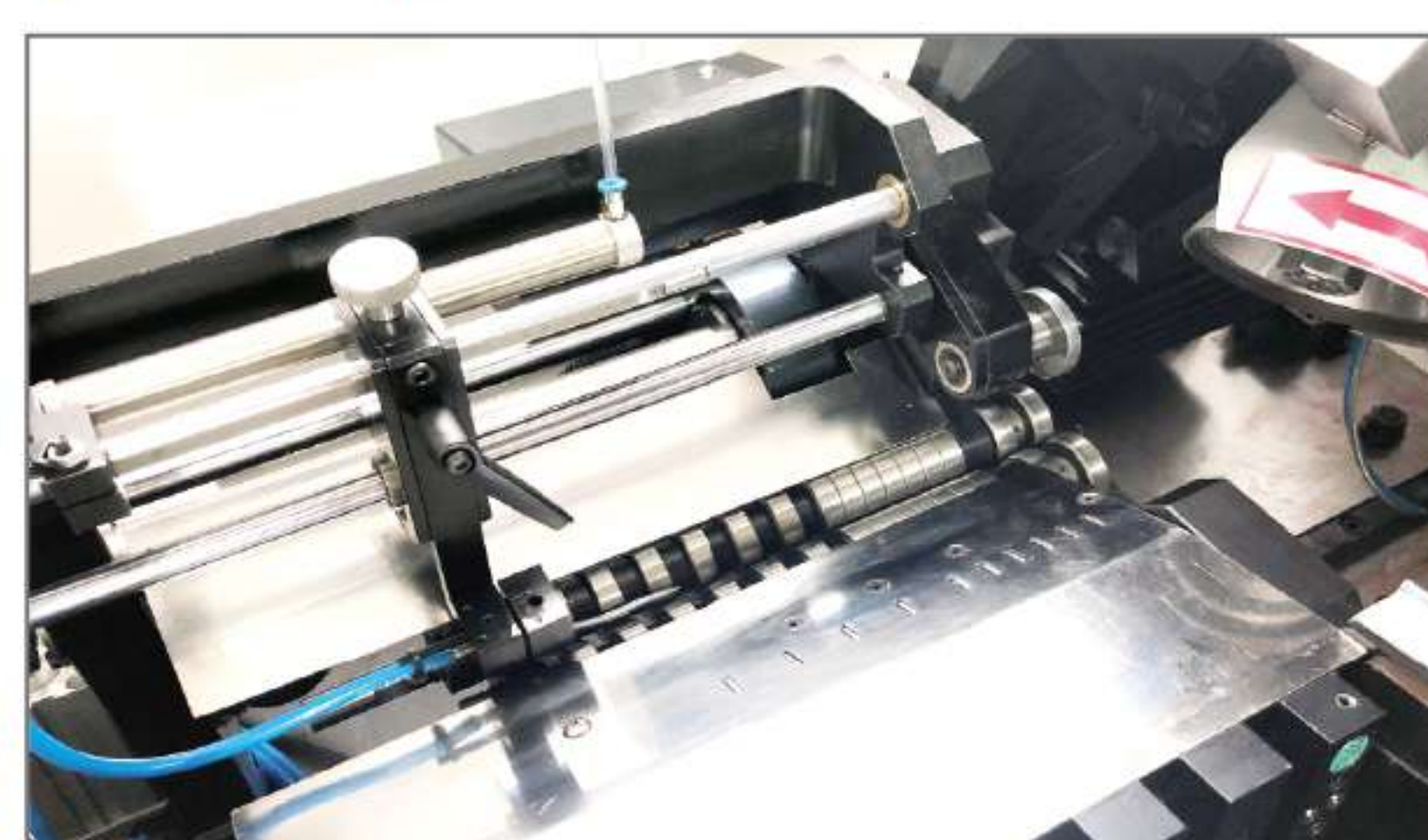
© Bowl wheel



© Conveying belt unload



© Back Stopper



© Two roller design



© Angle adjustable



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CNC全自動碳化鎢鋼圓棒研磨倒角機

CNC Tungsten Carbide Bar Chamfering Machine

給碳化鎢鋼或高速鋼等材料工具(鑽頭、銑刀)的全自動研磨倒角機



CNC全自動碳化鎢鋼圓棒研磨倒角機

CH-CM0203

- 從入料到出料皆全自動，節省勞工成本
- 入料箱可以自動篩選棒材
- 在倒角後，雙滾輪自動打開讓成品掉落輸送帶傳送到出料籃
- 極短的設置時間

基本規格

機器尺寸	1250 x 1290 x 1980 (LxWxH/mm)
機器重量	755 (kg)
電力需求	3Ø AC220V (380V), 60Hz, 6.6KW
砂輪	cup wheel, OD 100mm, internal hole : 19.05mm

適用規格

直徑範圍	Ø 3 ~ 25 (mm)
長度範圍	40 ~ 150 (mm)
倒角角度	90 ~ 120 (°)



◎ 雙滾輪設計



◎ 碗型砂輪



◎ 後定位推桿



◎ 角度調整裝置



◎ 輸送帶出料



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版權所有，仿冒必究

Smart Rod Cutting & Chamfering Machine

An automatic machine tool that combine the process of cutting & chamfering function



Smart Rod Cutting & Chamfering Machine CH-CM0406

- Combine the process of cutting and chamfering
- Twice clamps to unload material firmly attached
- Full automatically loading and unloading
- Double servo spindle workheads
- Double end chamfering
- Six axes servo control

Basic Specification

Machine size	2450 x 1470 x 1950 (LxWxH/mm)
Machine weight	2050 (kg)
Power request	3Ø AC220V (380V), 60Hz, 4.4KW
Cut of wheel	310D - 1.5T - 31.75 IH
Chamfering wheel	250D - 10T - 31.75 IH

Function Specification

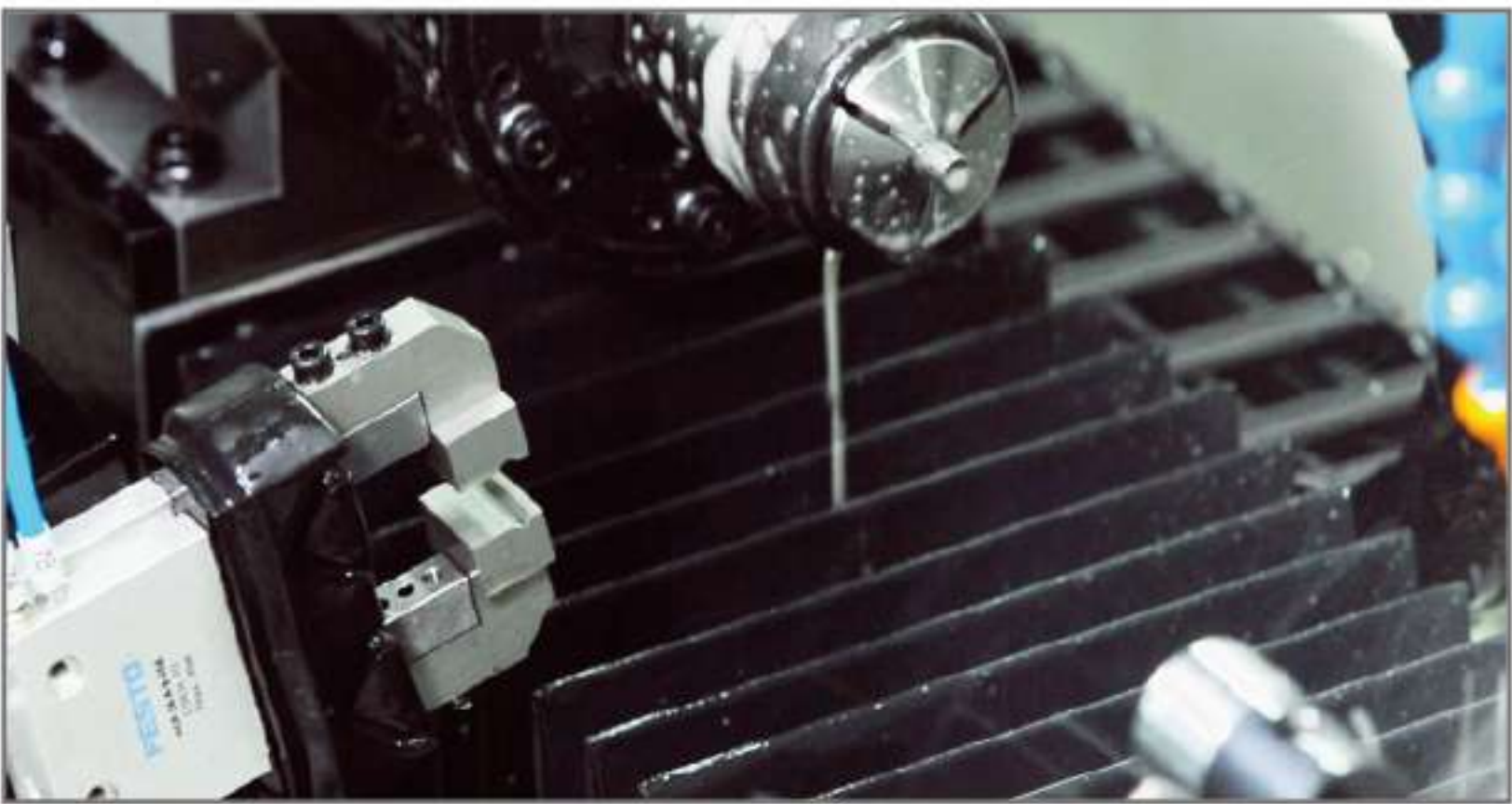
Range of out Diameter	Ø 3 ~ 25 (mm)
Range of Length	100 ~ 600 (mm)
Chamfering angle	60 ~ 135 (depends on the wheel angle) (°)



© Multiple wheel combination



© Unloading gripper



© Double WP Spindles



© Bar collect drawer



© Max 600 mm Loading box



SRCC智慧型棒材切斷 & 倒角機

Smart Rod Cutting & Chamfering Machine

一台全自動精密型複合切斷與倒角製成的工具機

J.L.
CHIA LERN

TAIWAN



SRCC智慧型棒材切斷 & 倒角機 CH-CM0406

- 結合切斷與倒角製程
- 出料二次夾持
- 全自動化進出料
- 雙主軸伺服旋轉
- 雙邊倒角
- 六軸伺服控制

基本規格

機器尺寸	2450 x 1470 x 1950 (LxWxH/mm)
機器重量	2050 (kg)
電力需求	3Ø AC220V (380V), 60Hz, 4.4KW
切斷砂輪	310D - 1.5T - 31.75 IH
倒角砂輪	250D - 10T - 31.75 IH

適用規格

棒材外徑	Ø 3 ~ 25 (mm)
棒材長度	100 ~ 600 (mm)
倒角角度	60 ~ 135 (依據倒角砂輪角度調整) (°)

◎ 多重砂輪組合



◎ 出料夾爪



◎ 雙主軸



◎ 集料抽屜



◎ 最長600mm可用大料槽



Automatic Biaxial Weldon Flat and Cutting Machine

Perfect design for
Weldon flat grinding process

Automatic Biaxial Weldon Flat and Cutting Machine

CH-WF002A

- Calculate touched position when input bar diameter
- Colorful touch screen, Grinding wheel position display
- Two speeds set up adjustable, 0~200% variable during machine running
- Protection for wheel interference
- Ball screw backlash compensation function
- Parameter save function
- One cycle or Step+ MPG control alternative
- Process position compensation function



© CNC Control System



© Easy set up



© Vertical GW movement



© Precise V Block



J.L.
CHIA LERN

TAIWAN

自動雙軸式側固研磨切斷機

Automatic Biaxial Weldon
Flat and Cutting Machine

Perfect design for
Weldon flat grinding process



自動雙軸式側固研磨切斷機

CH-WF002A

- 輸入棒材外徑可以自動計算接觸位置
- 彩色觸控螢幕，顯示目前砂輪位置
- 兩段變速可調，加工中微調 0~200%
- 極限開關保護避免砂輪干涉
- 螺桿背隙補正功能
- 參數儲存功能
- 一次循環或單步執行+手輪控制加工可選
- 加工位置補正功能



◎ CNC控制系統 ◎ 操作簡易



◎ 砂輪垂直上下



◎ 精密 V Block 設計