

規格 Specifications

ECL Series

Item 項目	Model 型式	ECL-800	ECL-1000
Working Capacity 作業能力			
Swing over bed	床面上旋徑	φ 880 mm	φ 1010 mm
Swing over cross slide	橫滑台旋徑	540 mm	670 mm
Dis.between centers	兩頂心距離	1700 mm / 2200 mm / 3200 mm / 4200 mm / 5200 mm / 6200 mm / 7200 mm	
Width of bed	床台寬度	560 mm	
Headstock 主軸箱			
Spindle bore	主軸孔徑	φ 130 mm / φ 160 mm / φ 180mm / φ 255 mm / φ 305 mm	
Spindle nose	主軸鼻端	ASA-A2-11 / ASA-A2-15 / ASA-A2-20	
Range of spindle speed (3-step)	主軸轉速(三段變速)	40-1500 rpm / 30-1000 rpm / 25-800 rpm / 20-650 rpm / 10-400 rpm	
High of center	中心高	440 mm	505 mm
X/Z Carriage X/Z之滾柱			
Width of carriage	床鞍寬度		785 mm
Width of cross slide	滑台蓋寬度		275 mm
X axis travel	X軸行程		550 mm
Z axis travel	Z軸行程	1550mm / 2050 mm / 3050 mm / 4050 mm / 5050 mm / 6050 mm / 7050 mm	
X/Z axis feed rate	X - Z軸進給速度		1-5000 mm/min
X/Z rapid traverse rate	X - Z軸快速速度		X = 10000 mm/min / Z = 8000 mm/min
X axis ball screw	X軸滾珠螺桿		φ 32 mm * P = 8 mm
Z axis ball screw	Z軸滾珠螺桿	(機型Model ≤ 3200 mm) φ 50 mm * P = 12 mm, (機型Model ≥ 4200 mm) φ 63 mm * P = 16 mm	
X axis servo motor	X軸伺服馬達		3.0 kw
Z axis servo motor	Z軸伺服馬達	(機型Model ≤ 4200 mm) 4.0 kw, (機型Model ≥ 5200 mm) 7.0 kw	
Turret 刀塔			
No. of tools	刀塔	V-8 / H4 / H6	
Tool size	刀具尺寸	□ 32x32 mm (φ 50 mm) / □ 32x32 mm	
Tailstock 尾座			
Quill Dia.	尾座心軸直徑		φ 65 mm
Quill stroke	心軸行程		250 mm
Tailstock taper	頂心直徑		MT#6
Accessories 附件			
Main spindle motor	主軸馬達	22 / 26 kw / 30 / 37 kw (選配 Opt.)	
Lubricating pump	潤滑泵浦	25 w	
Coolant pump motor	切削液泵浦	6 BAR	
Coolant pump for spindle	主軸油冷泵浦	1/2 HP	
Hydraulic motor	油壓馬力	2 HP	
Controller 控制系統			
Compatible model	匹配機種	FANUC / FAGOR / SIEMENS / MITSUBISHI	
Controllable axis	控制軸數	2	
Dimension 尺寸規格			
Occupied floor : L	機器佔地面積-長	5500 mm / 6000 mm / 7000 mm / 8000 mm / 9000 mm / 10000 mm / 11000 mm	
WxH	寬x高	3450 (W) x 2160 (H) mm	
Machine net weight	機械重量(淨重)	10000kgs / 10500kgs / 12000kgs / 14000kgs / 16000kgs / 18000kgs / 20000kgs	

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ECL/EBL Standard Accessories	ECL/EBL標準附件	ECL/EBL Optional Accessories	ECL/EBL特別附件
1.CNC Controller	1.電腦控制器	1. 3-jaw scroll chuck	1. 三爪夾頭
2.Headstock auto. Hyd. speed shifting	2.主軸箱油壓自動換檔	2. 4-jaw independent chuck	2. 美式四爪夾頭
3.Hyd. tailstock quill (Use: EBL series)	3.油壓式尾座心軸 (適用EBL系列)	3. 3-jaw Hydraulic scroll chuck	3. 三爪油壓夾頭
4.Hyd. tailstock-hive quill (Use: EBL series)	4.全油壓驅動尾座+軸心可旋轉 (適用EBL系列)	4. Rear spindle interface with chuck	4. 主軸後鼻端+夾頭
5.Four-way Hyd. turret	5.四方油壓刀塔	5. H6 or V8 Hyd. turret	5. H6 or V8 油壓刀塔
6.Coolant device	6.冷却裝置	or V12 Hyd. turret (Use:EBL series)	or V12 油壓刀塔(適用EBL系列)
7.Lubricating system	7.潤滑系統	6. Driven tool system +C axis function	6. 動力刀塔+C軸
8.Work lamp	8.工作燈	7. Double screw drive for Z axis	7. Z軸雙螺桿驅動
9.Rear splash guard	9.後防護罩嵌金	8. Boring tool holder (not include draw bar)	8. 鑽孔刀座(不含刀桿)
10.Screw type chip conveyor with cart X 2 sets (Use: EBL series)	10.螺桿式排屑機 x 2組 (適用EBL系列)	9. Roller support	9. 滾輪支撐座
11.Tools & tool box	11.工具及工具箱	10. Bearing steady rest	10. 軸承式中心架
		11. Follow rest	11. 跟刀架
		12. Chain type chip conveyor	12. 鏈板式排屑機
		13. Outside power transformer	13. 外部電源變壓器
		14. CE/CSA approval specification	14. CE/CSA規範

規格 Specifications

EBL Series

Item 項目	Model 型式	EBL-1200	EBL-1400
Working Capacity 作業能力			
Swing over bed	床面上旋徑	φ 1200 mm	φ 1400 mm
Swing over cross slide	橫滑台旋徑	700 mm	900 mm
Dis.between centers	兩頂心距離	2400 mm / 3400 mm / 4400 mm / 5400 mm / 6400 mm / 7400 mm / 8400 mm / 9400 mm	
Width of bed	床台寬度		785 mm
Headstock 主軸箱			
Spindle bore	主軸孔徑	φ 230 mm / φ 305 mm / φ 360 mm / φ 410 mm	
Spindle nose	主軸鼻端	ASA-A2-15 / ASA-A2-20 / ASA-A2-28	
Range of spindle speed (4-step)	主軸轉速(四段變速)	4-850 rpm / 1-400 rpm / 1-300 rpm	
High of center	中心高	650 mm	750 mm
X/Z Carriage X/Z之滾柱			
Width of carriage	床鞍寬度		880 mm
Width of cross slide	滑台蓋寬度		400 mm
X axis travel	X軸行程		750 mm
Z axis travel	Z軸行程	2150mm / 3150 mm / 4150 mm / 5150 mm / 6150 mm / 7150 mm / 8150 mm / 9150 mm	
X/Z axis feed rate	X - Z軸進給速度		1-5000 mm/min
X/Z rapid traverse rate	X - Z軸快速速度		X = 10000 mm/min / Z = 8000 mm/min
X axis ball screw	X軸滾珠螺桿		φ 40 mm * P = 8 mm
Z axis ball screw	Z軸滾珠螺桿	(機型Model ≤ 4400 mm) φ 63 mm * P = 20 mm, (機型Model ≥ 5400 mm) φ 80 mm * P = 20 mm	
X axis servo motor	X軸伺服馬達		4 kw
Z axis servo motor	Z軸伺服馬達	(機型Model ≤ 4400 mm) 7.0 kw, (機型Model ≥ 5400 mm) 9.0 kw	
Turret 刀塔			
No. of tools	刀塔	V-8 / H4 / H6	V-12 / H4 / H6
Tool size	刀具尺寸	□ 32x32 mm (φ 50 mm) / □ 32x32 mm	□ 32x32 mm (φ 50 mm) / □ 32x32 mm
Tailstock 尾座			
Quill Dia.	尾座心軸直徑		φ 250 mm
Quill stroke	心軸行程		250 mm
Tailstock taper	頂心直徑		MT#6
Accessories 附件			
Main spindle motor	主軸馬達	(機型Model ≤ 6400 mm) 30 / 37 kw, 37 / 45 kw (選配 Opt.), (機型Model ≥ 7400 mm) 45 / 55 kw (選配 Std.)	
Lubricating pump	潤滑泵浦	25 w	
Coolant pump motor	切削液泵浦	6 BAR	
Coolant pump for spindle	主軸油冷泵浦	1/2 HP	
Hydraulic motor	油壓馬力	5 HP	
Controller 控制系統			
Compatible model	匹配機種	FANUC / FAGOR / SIEMENS / MITSUBISHI	
Controllable axis	控制軸數	2	
Dimension 尺寸規格			
Occupied floor : L	機器佔地面積-長	7200 mm / 8200 mm / 9200 mm / 10200 mm / 11200 mm / 12200 mm / 13200 mm / 14200 mm	
WxH	寬x高	4100(W) x 2520(H) mm	
Machine net weight	機械重量(淨重)	19000kgs / 21000kgs / 23000kgs / 25000kgs / 28000kgs / 31000kgs / 34000kgs / 37000kgs	

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AGENT

ECL/EBL 31/2016 Rev.001



CE ISO 9001



Powerful & Precision CNC Lathes

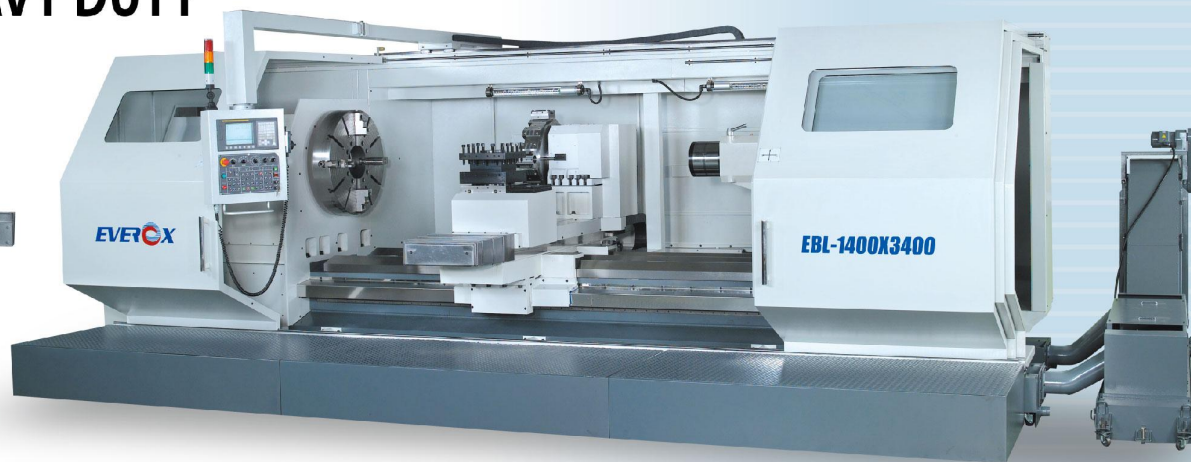
CNC LATHE MACHINE

ECL Series
EBL

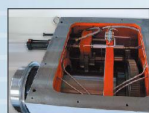


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高剛性/高精度/重切削-強力平台式CNC車床 HIGH RIGIDITY / HIGH ACCURACY / HEAVY DUTY POWERFUL FLAT BED CNC LATHES



ECL Series



- 主軸頭: 採三段油壓換檔, 穩定可靠, 主軸過孔徑 $\phi 130\text{mm}$, $\phi 160\text{mm}$, $\phi 180\text{mm}$, $\phi 255\text{mm}$, $\phi 305\text{mm}$.
- The spindle headstock: Equipped 3-step gear change (Hyd. system) Spindle bore: $\phi 130\text{mm}$, $\phi 160\text{mm}$, $\phi 180\text{mm}$, $\phi 255\text{mm}$, $\phi 305\text{mm}$.



- X軸採端電型導軌設計, 較滑切削直徑大
- Cock-tail type guide way design for X axis, it can be maximized the swing over cross-slide diameter.



- 主軸頭油壓系統+主軸頭油冷裝置
- Spindle headstock oil cooler & Hyd. system.



- 手動式尾座, 軸心 $\phi 165\text{mm}$, MT6 頂心, 標配手動潤滑裝置。
- Manual tailstock, quill dia. $\phi 165\text{mm}$, MT6 for center taper and the manual tailstock lubrication system are all Std.



- 尾座牽引
- Tailstock carriage device.



- 鏈板式排屑機 (選配)
- Chain type chip conveyor with cart (Opt)

EBL/ECL Series



- 可移後夾頭 (選配)
- Rear scroll chuck (Opt)



- 可移動操作箱
- The moveable operation box



- 安全可靠之電纜方法導管支撐設計, 可防止斷裂。
- Safety and reliable cable conduit support design.



- Z軸球珠螺桿支撐設計(0.6米至選配, 大於等於4米是標配)
- Z axis ball screw with the supporter design (4M to Opt, 3-4M is Std)



- H4 刀塔
- H4 Turret.



- H6 刀塔 (選配)
- H6 Turret (Opt)



- V8 或 V12 刀塔 (選配)
- V8 or V12 Turret (Opt)



- 鑽孔刀座 (選配)
- Boring holder (Opt)



- 軸承式中心架 (選配)
- Bearing steady rest (Opt)



- 滾筒式工件座 (選配)
- Roller type workpiece supporter (opt)



- 動力刀塔 (選配)
- Driven tool system (Opt)

EBL Series



- 主軸頭: 採4段油壓換檔, 穩定可靠, 主軸三點支撐設計, 過孔徑 $\phi 235\text{mm}$ (9"), $\phi 305\text{mm}$ (12"), $\phi 360\text{mm}$ (14"), $\phi 410\text{mm}$ (16"). 主軸驅動齒輪採M6斜齒設計, 以增強傳動剛性。
- The spindle headstock: 3-point support design for the spindle, and 4-step gear change (Hyd. system) Spindle bore $\phi 235\text{mm}$ (9"), $\phi 305\text{mm}$ (12"), $\phi 360\text{mm}$ (14"), $\phi 410\text{mm}$ (16"). Main spindle gear driven is M6 spiral gear.



- X軸採側方型軌設計, 支撐剛性強, 以減少滑台空變形量, 適合重切削
- The high rigidity square way design for the X axis, and it can minimize the distortion which is cause by the overhang of slide cover.



- 採全油壓驅動尾座(本體前後, 尾座), 本體夾持鎖緊鬆開, 導電前進, 後退, 大直徑 $\phi 250\text{mm}$, 軸心可旋轉, MT6頂心(MT7選配), 標配手動潤滑
- The tailstock and quill are compacted with fully Hydraulic operation. (The tailstock body forward and backward, clamp and unclamp, quill extend and retract). The quill diameter is $\phi 250\text{mm}$ (9.842") and it's rotatable. The center taper MT6 is standard (MT7 is Opt.) And the manual tailstock lubrication is standard.



- 主軸頭油壓系統+主軸頭油冷裝置
- The spindle headstock oil cooler & Hyd. system.



- 鏈板式排屑機 (選配)
- Chain type chip conveyor with cart (Opt)



- 落地型床身, 三導軌設計, 雙Z軸球珠螺桿前方配置(標配)
- Floor type bed, 3V guide way design, the Z axis ball screw is mounted at front side of the bed. (Std.)

- 降低切削力, 可選雙Z軸球珠螺桿(選配)
- 專利設計 M358019
- The opt. of the second Z axis ball screw can be mounted at the rear side of the bed. The main feature is to reduce the displacement of cross slide. (opt.) (Patent No. M358019)