

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 180 mm / 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床鞍		
Width of carriage	床鞍寬度	765 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 165 mm	
Quill stroke	心軸行程	250 mm	
Tailstock taper	頂心錐度	MT#6	
Motor	馬達		
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	切削冷卻泵浦	6 BAR	
Coolant pump for spindle	主軸油冷泵浦	1/2 HP	
Hydraulic motor	油壓馬力	2 HP	
Controller	控制器		
Compatible model	匹配機種	FANUC / FAGOR / SIEMENS / MITSUBISHI	
Controllable axis	控制軸數	2	
Dimension	機台規格		
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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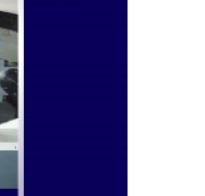
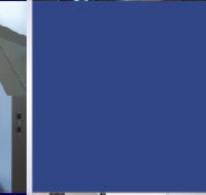
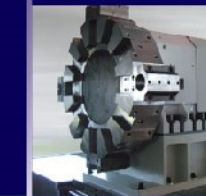
ECL/EBL Standard Accessories	ECL/EBL標準附件	ECL/EBL Optional Accessories	ECL/EBL特別附件
1.CNC Controller	1.電腦控制器	1. 3-jaw scroll chuck	1. 三爪夾頭
2.Headstock auto. Hyd. speed shifting	2.主軸頭油壓自動換檔	2. 4-jaw independent chuck	2. 美式四爪夾頭
3.Hyd. tailstock quill (Use: EBL series)	3.油壓式尾座心軸 (適用EBL系列)	3. 3-jaw Hydraulic scroll chuck	3. 三爪油壓夾頭
4.Hyd. tailstock+live quill (Use: EBL series)	4.全油壓驅動尾座+軸心可迴轉 (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.冷卻裝置	6. Driven tool system +C axis function	6. 動力刀塔+C軸
7.Lubricating system	7.潤滑系統	7. Double screw drive for Z axis	7. Z軸雙螺桿驅動
8.Work lamp	8.工作燈	8. Boring tool holder (not include draw bar)	8. 鑽孔刀座(不含刀桿)
9.Rear splash guard	9.後防護罩鍍金	9. Roller support	9. 滾輪支撐座
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)	10. Bearing steady rest	10. 軸承式中心架
11.Tools & tool box	11.工具及工具箱	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	765 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)	4-650 rpm / 1-400 rpm / 1-300 rpm	
High of center	中心高	650 mm	750 mm
X/Z Carriage	X、Z床鞍		
Width of carriage	床鞍寬度	860 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	頂心錐度	MT#6	
Motor	馬達		
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 (標配 Std.)	
Lubricating pump	潤滑泵浦	25 w	
Coolant pump motor	切削冷卻泵浦	6 Bar	
Coolant pump for spindle	主軸油冷泵浦	1/2 HP	
Hydraulic motor	油壓馬力	5 HP	
Controller	控制器		
Compatible model	匹配機種	FANUC / FAGOR / SIEMENS / MITSUBISHI	
Controllable axis	控制軸數	2	
Dimension	機台規格		
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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Powerful & Precision CNC Lathes

CNC LATHE MACHINE



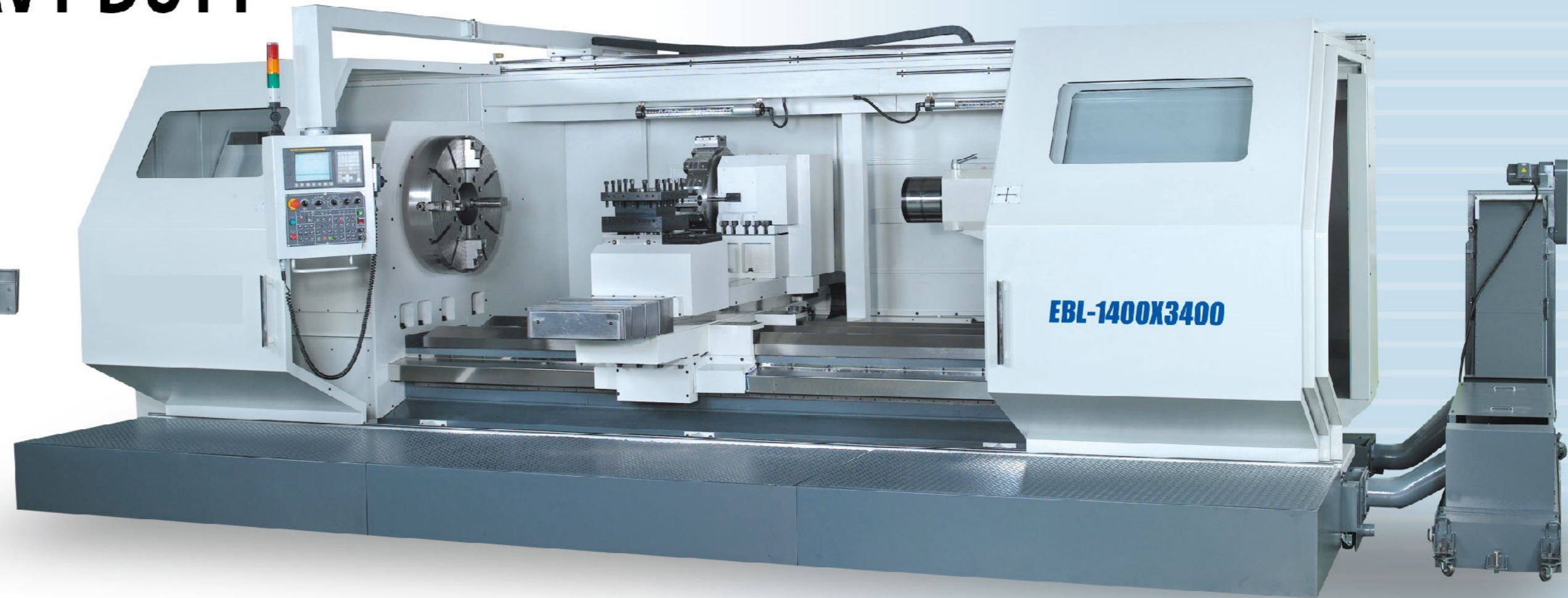
ECL Series
EBL



AGENT
ECL/EBL-01-13170C-Fanuc Design 04-20130706

高剛性 / 高精度 / 重切削 - 強力平台式CNC車床

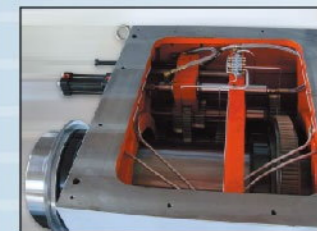
HIGH RIGIDITY / HIGH ACCURACY / HEAVY DUTY POWERFUL FLAT BED CNC LATHES



ECL Series

EBL/ECL Series

EBL Series



- 主軸頭: 採三段油壓換檔, 穩定可靠, 主軸通孔徑 $\phi 130\text{mm}$, $\phi 160\text{mm}$, $\phi 180\text{mm}$, $\phi 255\text{mm}$, $\phi 305\text{mm}$.
- **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軸採鳩尾型導軌設計, 鞍面切削直徑大
- 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.



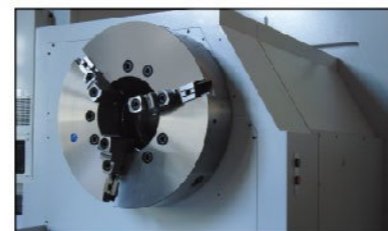
- 手動式尾座, 軸心 $\phi 165\text{mm}$, MT6頂心, 標配手動潤滑裝置。
- Manual tailstock, quill dia. $\phi 165\text{mm}$, MT6 for center taper and the manual tailstock lubrication system are all Std.



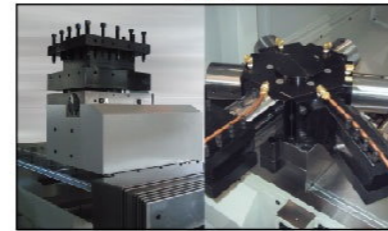
- 尾座牽引
- Tailstock carriage device.



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



- 主軸後夾頭 (選配)
- Rear scroll chuck (Opt.)



- H4 刀塔
- H4 Turret
- H6 刀塔 (選配)
- H6 Turret (Opt.)



- 擱孔刀座 (選配)
- Boring holder (Opt.)



- 可移動迴轉操作箱。
- The moveable operation box



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



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



- 安全可靠的電纜方型導管支撐設計, 可防止斷裂。
- Safety and reliable cable conduit support design.



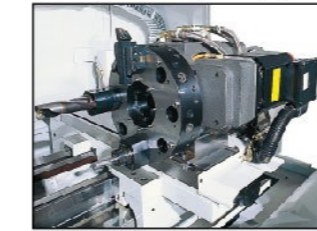
- V8 或 V12 + H4 刀塔 (選配)
- V8 or V12 + H4 Turret (Opt.)



- 滾筒式扶件座 (選配)
- Roller type workpiece supporter (opt.)



- Z軸滾珠螺桿支撐設計(小於4米是選配, 大於等於4米是標配)
- Z axis ball screw with the supporter design (<4M is Opt, $\geq 4\text{M}$ is Std.)



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



- 圓盤式油水分離機 (選配)
- Oil skimmer (Opt.)



- 主軸頭: 採4段油壓換檔, 穩定可靠, 主軸三點支撐設計, 通孔徑 $\phi 235\text{mm}$ (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軸採倒V型軌設計, 支撐剛性強, 以減少滑台旋空變形量, 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(本體前進後退, 本體夾持鎖緊鬆開, 導管前進, 後退) 大管徑 $\phi 250\text{mm}$, 軸心可迴轉, 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軸滾珠螺桿採前方配置(標配)
- 為降低鞍座切削偏轉, 可另選雙Z軸滾珠螺桿驅動(選配) 專利證號: M358019
- Floor type bed, 3V guide way design, the Z axis ball screw is mounted at front side of the bed. (Std.)
- 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)