

高效率，低耗能

在沖床連續運轉操作模式下，NC三次元傳送機自動化同步追隨沖床運轉，不僅延長沖床壽命減少能源消耗並可達成高效率之產出。

移送桿交換

研恆提供有標準手動連接移送桿，並裝設快拆式誤送檢知器，將換模換線作業時之間縮至最短。
對於配置有移動工作台之大型沖床，研恆亦提供移送桿自動耦合器之選擇，實現全自動換模作業。

EST系列具有二種設計形式適於不同應用場合

- EST1二次元傳送機，以3個伺服馬達驅動，專用於多工位水平移送之沖壓工藝
- EST2三次元傳送機，以5~8個伺服馬達驅動，專用於多工位垂直及水平搬送之沖壓工藝



項目	NC二次元傳送機	NC三次元傳送機
型式	EST1	EST2
驅動馬達	AC伺服馬達X 3 個	AC伺服馬達X 5 ~ 8 個
傳送路徑	移送/夾持	移送/夾持, 移送/舉升, 移送/夾持/舉升
適用床台面積 (左右 X 前後)	1400X600 ~ 4000X1600 mm	1400X600 ~ 6000X2000 mm

High Productivity, Low Energy Consumption

With the feature of running synchronously with the the press operating in continuous mode, the Tri-Axis Servo Transfer not only prolong lift time of the press but also reduce the energy consumption.

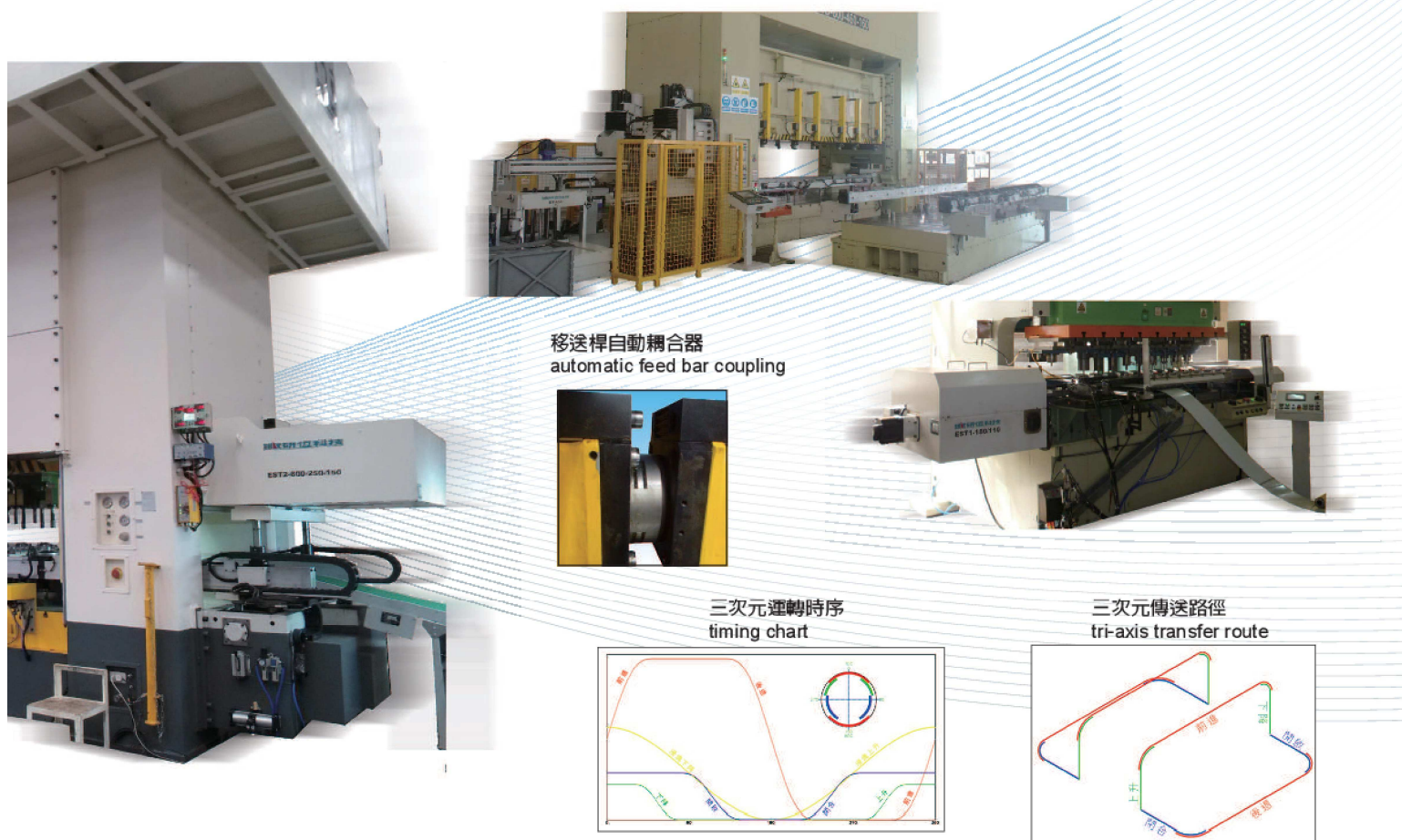
Gripper Bars Changeover

For feed bar changeover, EHAT offer a manual feed bar coupling with integrated quick-connection misfeed sensors. In this way, manual die changes can be performed in the shortest possible time.

As an option, EHAT offers automatic feed bar coupling for large size press with moving bolster application.

Two designs of EST series are available for different applications

- The Dual-Axis Servo Transfer EST1, with three servo motor drive, is available for multi-stage horizontal transferring process.
- The Tri-Axis Servo Transfer EST2, with five (up to eight) servo motor drive, is available for multi-stage vertical & horizontal transferring process.



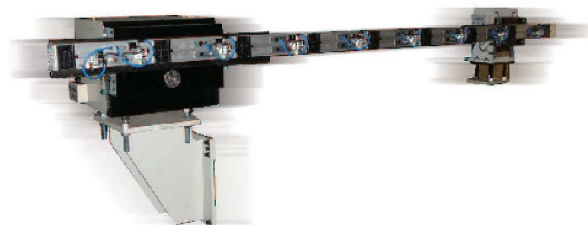
item	Dual-Axis Servo Transfer	Tri-Axis Servo Transfer
model	EST1	EST2
drive motor	AC Servo motor X 3 units	AC Servo motor X 5 ~ 8 units
transfer route	Feed/Clamp	Feed/Clamp, Feed/Lift Feed/Clamp/Lift
bolster area available (LR X FB)	1400X600 ~ 4000X1600 mm	1400X600 ~ 6000X2000 mm

單桿伺服多工位機械手

MBT0 系列

單台沖床多工位自動化沖壓作業之低成本自動化傳送機

- 伺服控制過載保護
- 親和簡易的操作介面
- 誤送監測
- 與沖床交握運轉的斷續運轉模式
- 快速拆換吸料臂
- 搬移工件使用真空吸盤作為標準，亦可選用電磁鐵或氣壓夾



技術規格（特殊規格可接受訂製）

型號		MBT0-300/60	MBT0-400/60	MBT0-500/60	MBT0-600/60	MBT0-800/60
移送行程	mm	300	400	500	600	800
舉升行程	mm	60	60	60	60	60
載重 (單支吸料臂)	kgs	0.6	0.6	1	1	2

本公司產品因不斷研究改進，上述規格若有變更，恕不另行通知。



Multistage Servo Transfer

MBT0 series

Low cost automation for multi-stage stamping process in a single press

- Servo controlled overload protection.
- User friendly operation interface
- Misfeed monitoring
- Intermittent operation mode for handshaking running with the press
- Quick changing of finger
- Vacuum pad as the standard handling element, electric magnet and pneumatic gripper as the option.

Technical Data (special specifications available for request)

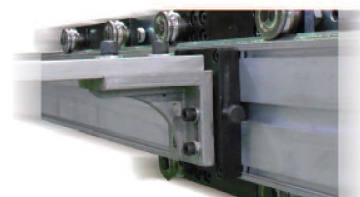
Model		MBT0-300/60	MBT0-400/60	MBT0-500/60	MBT0-600/60	MBT0-800/60
Feed Stroke	mm	300	400	500	600	800
Lift Stroke	mm	60	60	60	60	60
Load kgs(each finger)		0.6	0.6	1	1	2

單桿伺服連線機械手

MBT2 系列

多台沖床連線自動化沖壓作業之低成本自動化傳送機

- 伺服控制過載保護
- 親和簡易的操作介面
- 誤送監測
- 與沖床交握運轉的斷續運轉模式
- 快速拆換吸料臂
- 搬移工件使用真空吸盤作為標準，亦可選用電磁鐵或氣壓夾



快速拆換吸料臂 Quick changing of finger

技術規格（特殊規格可接受訂製）

型號		MBT2-1200/60	MBT2-1300/60	MBT2-1500/60	MBT2-1600/60	MBT2-2000/60
移送行程	mm	1200	1300	1500	1600	2000
舉升行程	mm	60	60	60	60	60
載重 (單支吸料臂)	kgs	1	1	2	2.5	3

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Dual Servo Line Transfer

MBT2 series

Low cost automation for stamping line of multi-presses

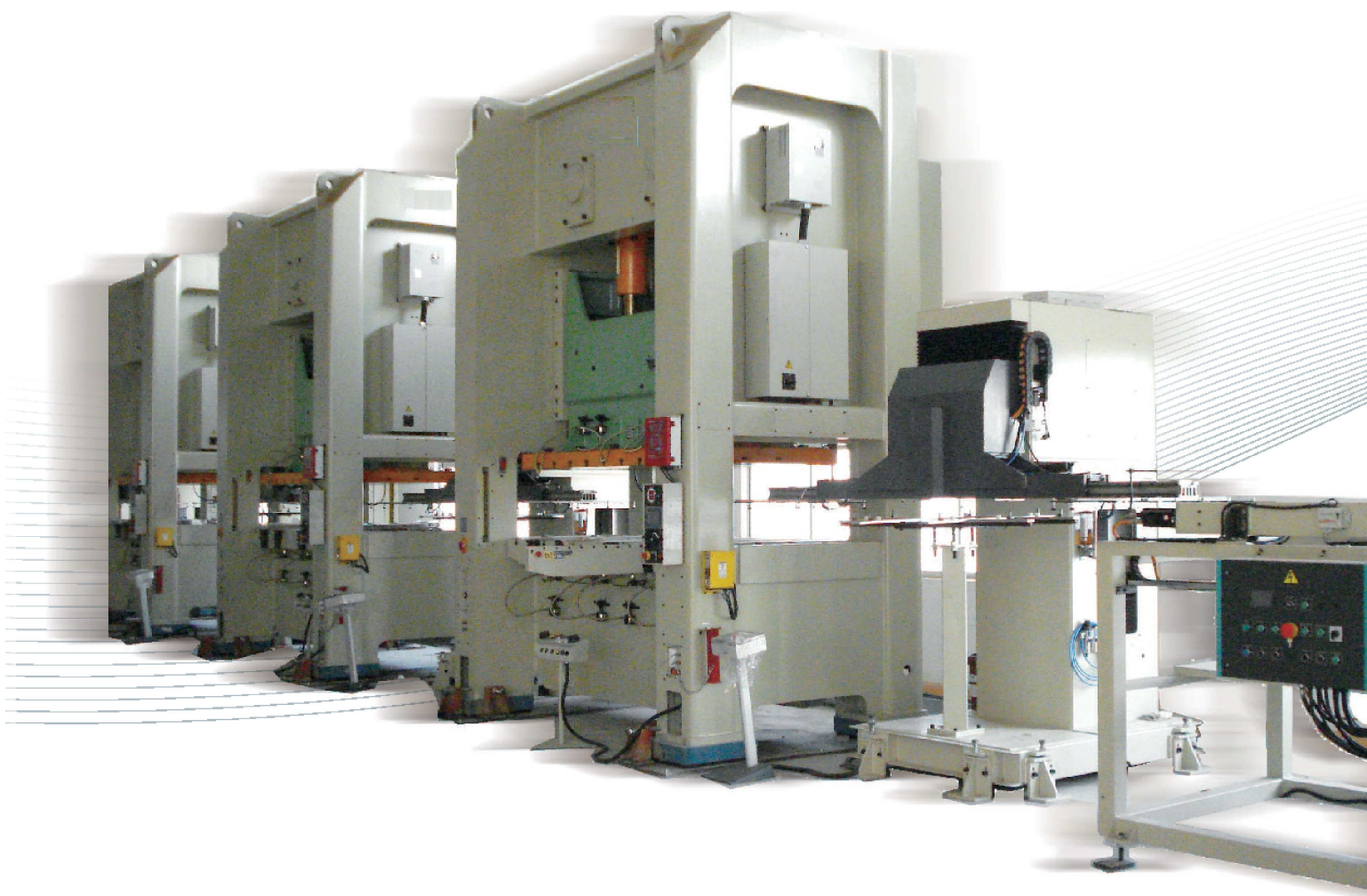
- Servo controlled overload protection.
- User friendly operation interface
- Misfeed monitoring
- Intermittent operation mode for handshaking running with the press
- Quick changing of finger
- Vacuum pad as the standard handling element, electric magnet and pneumatic gripper as the option.

Technical Data (special specifications available for request)

Model		MBT2-1200/60	MBT2-1300/60	MBT2-1500/60	MBT2-1600/60	MBT2-2000/60
Feed Stroke	mm	1200	1300	1500	1600	2000
Lift Stroke	mm	60	60	60	60	60
Load	kgs(each finger)	1	1	2	2.5	3

多台中大型沖床連線自動化沖壓作業之自動化傳送機

- 伺服控制過載保護
- 親和簡易的操作介面
- 誤送監測
- 與沖床交握運轉的斷續運轉模式
- 快速拆換吸料臂
- 搬移工件使用真空吸盤作為標準，亦可選用電磁鐵或氣壓夾

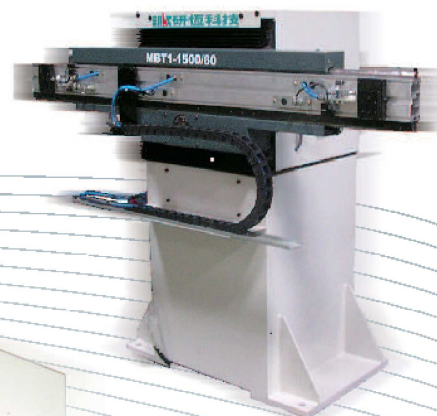


技術規格（特殊規格可接受訂製）

型號	MBT1-1200/60	MBT1-1500/60	MBT1-2400/100	MBT1-2700/150	MBT1-3000/150	MBT1-3200/150
移送行程 mm	1200	1500	2400	2700	3000	3200
舉升行程 mm	60	60	0 ~ 100	0 ~ 150	0 ~ 150	0 ~ 150
每台吸料臂數	2					
載重 (單支吸料臂) kgs	1.5	2	6	10	13	15

automation for stamping line of multiple medium/large presses

- Servo controlled overload protection.
- User friendly operation interface
- Misfeed monitoring
- Intermittent operation mode for handshaking running with the press
- Quick changing of finger
- Vacuum pad as the standard handling element, electric magnet and pneumatic gripper as the option



Technical Data (special specifications available for request)

Model	MBT1-1200/60	MBT1-1500/60	MBT1-2400/100	MBT1-2700/150	MBT1-3000/150	MBT1-3200/150
Feed Stroke mm	1200	1500	2400	2700	3000	3200
Lift Stroke mm	60	60	0 ~ 100	0 ~ 150	0 ~ 150	0 ~ 150
Qty. of finger (each transfer)	2					
Load kgs(each finger)	1.5	2	6	10	13	15

其他週邊裝置

基於自動化整體解決方案，研恆科技同時提供多種配套週邊設備之設計與製造，如各式各樣的料片給料用拆垛機(料架)、沖床間製品翻面用反轉台、沖床間接續搬送用移載台等。

拆垛機 Destacker



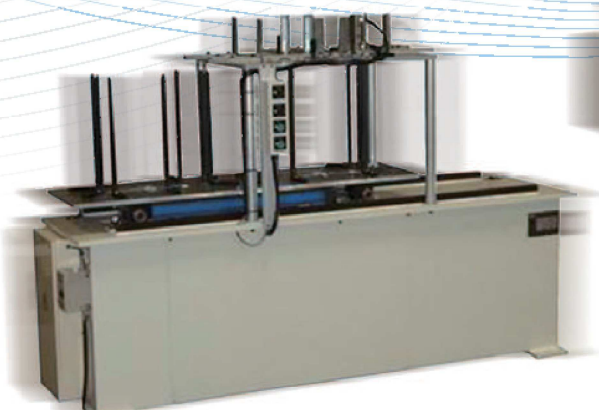
拆垛機 Destacker



拆垛機 Destacker



拆垛機 Destacker



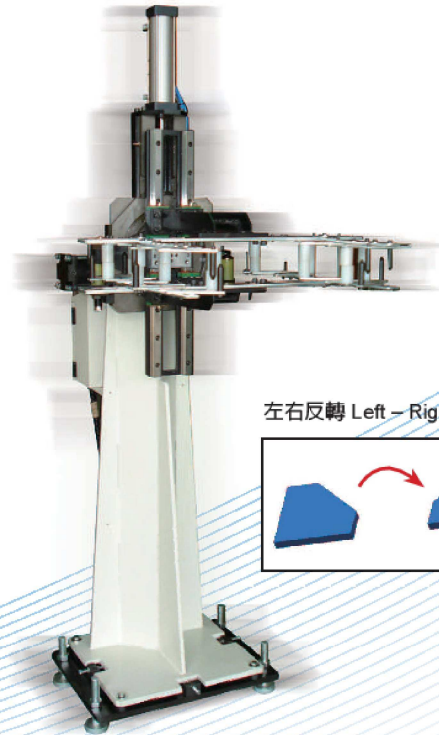
Peripheral Devices

Based on total solutions for automation, EHAT providing the design and manufacture of peripheral devices, such as various kinds of blank destacker, turnover station and shutter feeder between two presses and so on.

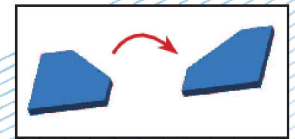
移載台 Shuttle Feeder



反轉台 Turnover Station



左右反轉 Left – Right turnover



短尺材料架 (特殊訂製產品)

Short strip destacker (customized products according to special requirement)

