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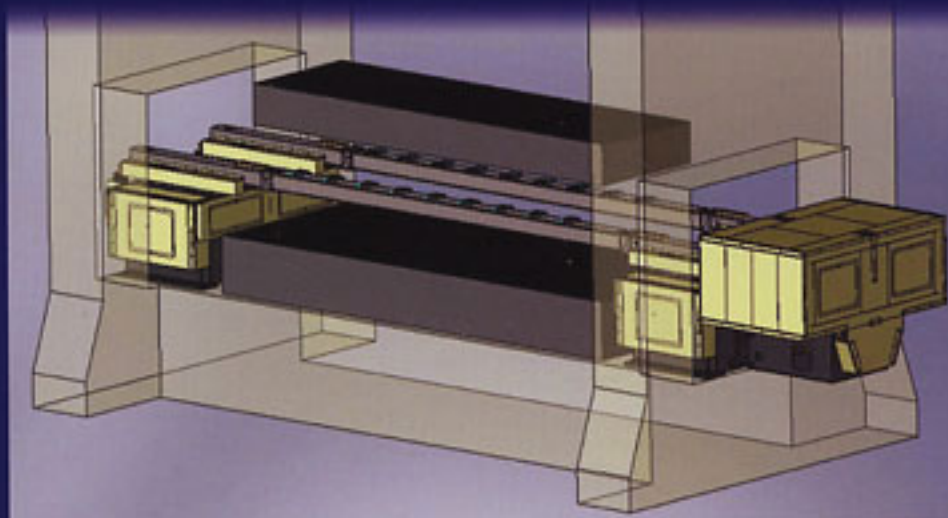
Automatic Processing Transfer Equipment

SHUNG-DAR





NC3(2)次元移送裝置 NC3(2)D Transfer Unit



搬送概念
Transfer motion



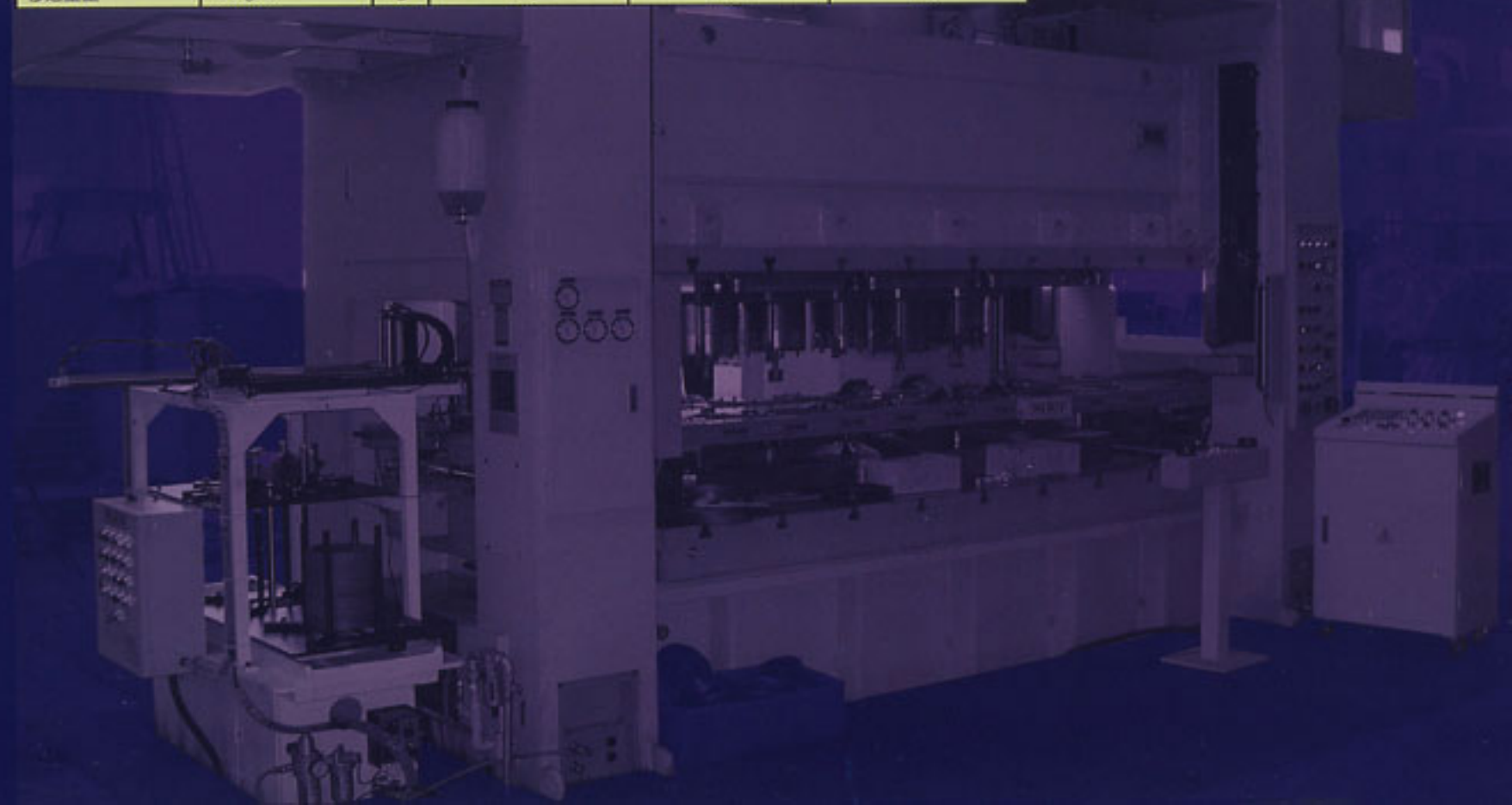
特性：

- ◆ 各冲壓作業模組參數可經由人機介面輸入，修改、調整容易操作設定。
- ◆ 配屬誤送檢知迴路，確保模具及機器之安全。
- ◆ 驅動源為數個獨立AC伺服馬達，藉由連結冲床曲軸之編碼器傳送(曲軸)角訊號至控制系統與冲床進行同步運轉。

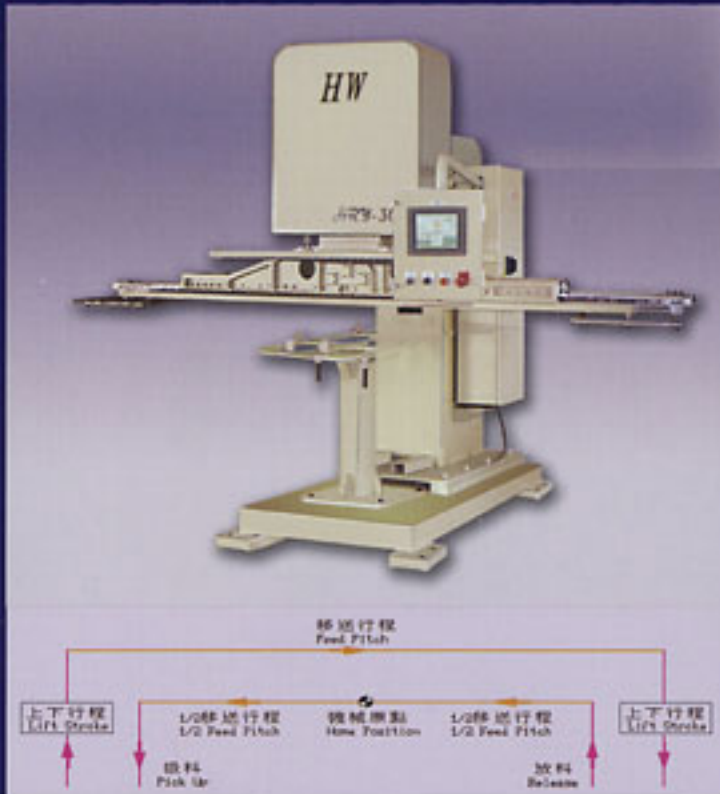
Features:

- ◆ Each operation parameter is entered into the controller by touch screen(man-machine interface). It is easy to adjustment for operators.
- ◆ To protect tooling and machine, the misfeed detecting circuit is as a standard accessory.
- ◆ The position of interrogation between mechanical press and transfer unit is done by rotary encoder which connects to the crankshaft of press. All the transfer axes are driven by servo motor and run synchronously with press.

Transfer unit			NC3(2)次元移送裝置/NC3(2)D		
規格	Specifications		客製規格亦可承製 (Special spec. is acceptable)		
機型	Type		H3D-1564	H3D-25105	H3D-35156
移送距離	Pitch	mm	0~150	0~250	0~350
單邊開合距離	Gripper stroke per side	mm	0~60	0~100	0~150
舉升高度	Lift stroke	mm	0~40	0~50	0~60
最高行程數	Max. speed	spm	40	30	25
移送重量	Weight	kgf	15	40	40



大型板金機械手(落地式) RY ROBOT SYSTEM



◆ 特性：

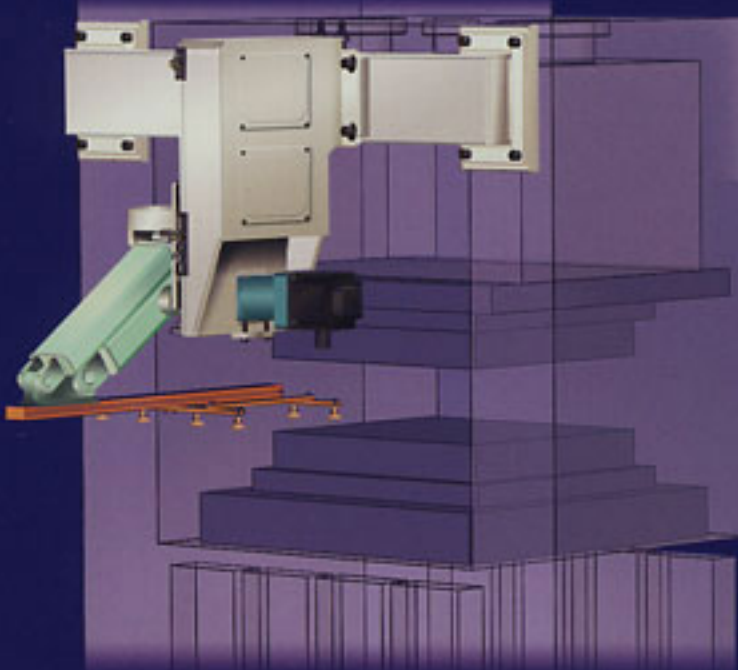
- ◆ 左右上下皆採用伺服馬達驅動，可移送較重之工件，精度佳，效率高，速度快。
- ◆ 高效率同步計算機處理，避免機械手相互干涉，安全性高。
- ◆ 適合產品範圍，如電腦、TFT/LCD監視器、電子、汽車等中大型各種板金沖壓工件之移送。
- ◆ 配合工廠空間與材料工件之方向，可在中途做直角轉向。
- ◆ 沖床前面開放，模具保養更換容易。
- ◆ 操作面板採用LCD人機介面(HMI)，監控操作容易。

◆ Features:

- ◆ The horizontal and fluctuate motion are driven by AC servo motor with high carrying、high accuracy、high efficiency、high speed and saving energy.
- ◆ The mechanical motion is monitored by computer with synchronic calculation which is prevented interfere to transfer robot as safety consideration.
- ◆ The Loading/Unloading System suits with medium and large scaled metal of sheet stamping components, such as computer, TFT/LCD monitor, electronic products, automobile etc.
- ◆ Based on the space of workshop and stamping direction, the press line could be turned to 90° direction to form a "L" type arrangement.
- ◆ Without the feed bar in the die space at lint stop condition, the maintenance of die changing becomes much easier.
- ◆ With LCD Man-Machine-Interface(HMI) in the control panel embedded, monitoring the running status is easy operation.

Robot System			大型板金機械手(落地式)					
規格	Specifications		客製規格亦可承製 (Special spec. is acceptable)					
機型	Type		HRV-80	HRV-100	HRV-120	HRV-150	HRV-250	HRV-350
移送距離(選擇固定)	Pitch	mm	760~800	801~1000	1001~1200	1201~1500	~2500	~3500
上下行程(選擇固定)	Lift / lower stroke	mm	50~80	50~80	50~80	50~80	50~80	50~80
一次作動時間	Cycle time	sec	1.6~2.1	1.7~2.2	2.0~2.5	2.7~3.2	~3.5	~5.0
移送重量	Weight	kgf	2x2	2x2	4x2	4x2	8x2	16x2
吸取方式	Clamp type		Vacuum (真空吸盤) / Electric Magnet (電吸鐵) / Clamp (夾爪)					
精度	Accuracy	mm	±0.2	±0.2	±0.3	±0.3	±0.3	±0.3

大型板金機械手(掛壁式) RK ROBOT SYSTEM



◆ 特性：

- ◆ 採用伺服馬達驅動，特殊連桿設計，動作靈活，效率高，速度快。
- ◆ 適合產品範圍，如電腦、TFT/LCD監視器、電子、汽車等中大型各種板金沖壓工件之移送。
- ◆ 連桿配合變化多，也可為獨立材料供應裝置、中間搬送裝置、集裝裝置配置使用。

◆ Features:

- ◆ Driven by AC servo motor makes the motion more smooth、high efficiency、high speed、saving energy and vertical axes designed by special linkage.
- ◆ The Loading/Unloading System suits with medium and large scaled metal of sheet stamping components, such as computer, TFT/LCD monitor, electronic products, automobile etc.
- ◆ The linkage system is variable combination with multi-presses and be able to load and unload blanks independently as well.

Robot System			大型板金機械手(掛壁式)				
規格	Specifications		客製規格亦可承製 (Special spec. is acceptable)				
機型	Type		HRV-120	HRV-140	HRV-160	HRV-190	HRV-200
移送距離	Pitch	mm	1200	1400	1600	1900	2000
上下行程(選擇固定)	Lift-lower stroke	mm	90~120	90~120	100~130	110~140	110~140
驅動方式	AC servo motor	kw	1.5	1.5	3	3.7	3.7
一次作動時間	Cycle time	sec	2.0	2.5	3.0	3.5	3.5
移送重量	Weight	kgf	~10	~10	~15	~20	~20
吸取方式	Clamp type		Vacuum (真空吸盤) / Electronic Magnet (電吸鐵)				
精度	Accuracy	mm	±1.5				

沖床連線多工程機械手 Transfer Robot For Multi-Stage Presses



◆ 適用：

- ◆ 大型工件，如電腦外殼、電氣箱、OA公傢俱等沖壓零件加工。
- ◆ Suitable for processing the quching parts of large workpieces such as computer shells, electric boxes, OA furniture.

◆ 特性與機構：

- ◆ 驅動採用伺服馬達控。
- ◆ 送料速度快，搬送動作平順圓滑，定位精度高。
- ◆ 節省人工與搬運時間，提高工作效率。
- ◆ 機械式動作，可確保產品品質穩定，降低不良率安全性高。
- ◆ 吸著手臂採用快式卡座滑板節省調整時間。
- ◆ 操作簡單保養容易。

◆ Features And Construction:

- ◆ The driving is controlled by servo motor.
- ◆ Fast feed, smooth movement and high precision positioning.
- ◆ Save labor & movement time, increase working efficiency.
- ◆ Mechanical action can secure stable quality, reduce faulty rate and features with high safety.
- ◆ Adsorption arm adopts fast dismantling type chuck slide plate which can save the adjusting time.
- ◆ Simple operation and easy maintenance.

Robot System		沖床連線多工程機械手				
規格	Specifications	客製規格亦可承製 (Special spec. is acceptable)				
機型	Type	WRB-120	WRB-150	WRB-180	WRB-230	
送料行程	Pitch	mm	1000~1200	1300~1500	1600~2000	2000~2500
上下行程	Lift stroke	mm	40~60			
循環時間	Cycle time	sec	3.3	3.8	4.2	4.8
吸著方式	Clamp type		Vacuum (真空吸盤) / Electric Magnet (電磁吸鐵)			
驅動方式	Drive	kw	Servo moto (伺服馬達)			



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