

COMPANY PROFILE

TOONG-WOEI MACHINE

We have continuously created new products and services with the best quality



統偉工業



統偉工業

www.toongwoei.com

TEL: (03) 460-3999

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山岳般堅毅不屈的折服力量

Like the determination of the mountains



我們以堅毅的信心承襲傳統
製造出接近完美的工藝技術
並將這份完美不斷演進成為不凡

The First Press Brake

統偉的第一台折床製於西元1982年(民國71年)，重200噸可折3米鋁材，曾全力服役於「宜蘭縣金進富鐵材行」迄今超過35年，雖然歷經歲月的洗鍊，但斑駁的舊貌下依然老當益壯，十足驗證了統偉的「服務與品質」。

This is our first product made in 1982. It weighs 200 tons and capable for 3 meters sheets. Originally, it had worked for "Kim Jin Fu Sheet Metal factory" in an city at east-north Taiwan. Now it is over 35 years. Although it's quite antique on appearance, it is still strong and able to bend sheets. Totally, it improves our service and quality.



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About US

統偉工業有限公司於1982年開創以來，歷經三十餘年的成長及發展，本著「品質穩定、服務第一」的經營理念下，積極研發與不斷的創新。

於1990年首次引進歐洲CNC油壓折床的技術並與工研院合作開發本土CNC折床新技術，獲得國家多項專利同時也通過ISO-9001及CE認證，且不間斷的研究開發與不斷和歐美先進技術交流，已擁有成熟的設計與製造技術、嚴格品質管制及快速售後服務，使每部機器均能為客戶發揮最佳的工作效率，本公司除了繼續努力耕耘台灣市場外，也積極開拓海外市場，行銷全世界。



Toong-Woei Machine Industrial Co., Ltd. was established in 1982. With stable quality and first service, we have actively researched and developed innovation over 30 years.

In 1990, we imported technology of CNC press brake machine from Europe and we cooperated local new technology of CNC press brake machine. At the same time, we gained many patents and were certificated with ISO-9001 and CE.

After non-stop innovating and exchanging skills with technician from Europe, we have mature design, manufacture, quality control and after sale service. Therefore, every machine can do the max efficiency for customers. Besides, we keep work on Taiwan market and expand foreign market.

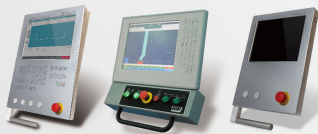
History

- 1982** 公司成立，進行油壓機械生產製造
Established in 1982 and started to manufacture hydraulic machines
- 1988** 正式生產NC油壓折床
Began to produce NC hydraulic press brake machines
- 1990** 聘請歐洲工程師三位，一同研究開發CNC油壓折床
Invited and hired 3 engineers from Europe to develop CNC press brake machines together
- 1993** 生產CNC折床技術成熟，正式銷售
With mature technology, we began to sale CNC press brake machines
- 1994** 與工業技術研究院合作開發CNC折床控制器
Cooperated with Taiwan ITRI and research and develop controllers for CNC press brake machines
- 1994** CNC折床榮獲多項專利申請
CNC press brake machines gained several patents certification
- 1996** CNC折床進入7~11軸生產行列
CNC press brake machines began to manufacture 7 to 11 axes
- 2000** 遷移新廠，擴增外銷版圖
Moved factory to New Taipei City and expand exporting market
- 2001** 正式生產NC油壓剪床
Began to produce NC hydraulic shearing machines
- 2002** NC剪床榮獲多項專利申請
NC hydraulic shearing machines gained several patents certification
- 2003** 通過ISO 9001認證
Gained ISO 9001 certification
- 2007** CNC折床通CE認證
CNC press brake machines gained CE certification
- 2007** 正式生產CNC全電式伺服折床
Started to manufacture CNC electric press brake machines
- 2012** 南遷桃園，興建獨立廠區
Moved to current location Taoyuan City

K.電腦控制器 CNC Controller

瑞士CybeleC

Modeva Pac / Modeva 15T / CybTouch 12



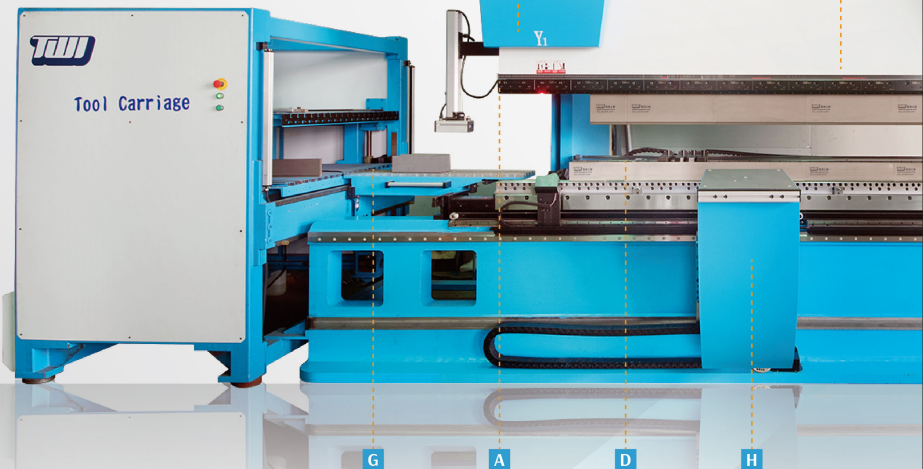
荷蘭Delem

DA 56 / DA 65



CNC
油壓折床

CNC Hydraulic Press Brake



標準配備

Standard Accessories



**A. 上下
油壓夾刀**

Punch/Die Hydraulic
Adaptor Device

B. 德國海德漢光學尺
Heidenhain Linear Encoder



C. 油壓板總成- Y1 Y2獨立式
Hydraulic Manifold-Separate Y1 and Y2



D. 撓度補償
Auto Adjustable Crowning



可加手動撓度補償 (選配)
With Manual Crowning(optional)

選用配備

Optional Accessories

E. LED燈條
LED Tool Locator



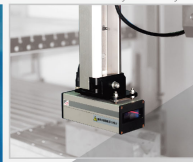
H. 托料
Supporter



F. 油電伺服
Servo-Hydraulic device



I. CE認證雷射安全光幕
CE Certified Safety Guard System



G. 刀具架配合下模突起
Tool Carriage With Lifting Die



J. 雷射角度測量
Laser Check System



電機工程
www.donggong.com
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50
2000
500

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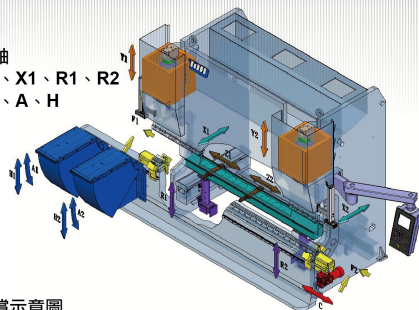
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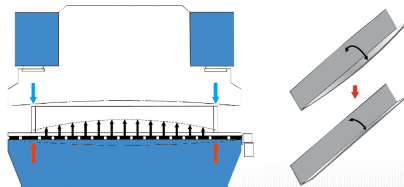
可選配軸

Z1、Z2、X1、R1、R2
F1、F2、A、H



撓度補償示意圖

Illustration for Crowning



電機工程
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2000
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2000
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2000
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電機工程
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TEL: 010-6810-1997

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2000
500

80
2000
500

70
2000
500

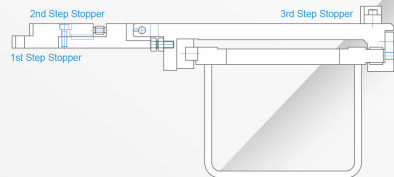
電機工程
www.donggong.com
TEL: 010-6810-1997

後定規結構

1. X軸行程680mm，若使用第三段檔板，則折彎尺寸可達1000mm
2. X軸及R軸採用滾珠螺桿及伺服馬達驅動，定位度高達 $\pm 0.02\text{mm}$
3. 快速移動時安靜無聲，每秒極速可達300mm以上
4. 後規檔板採用高扭力伺服馬達與線性滑軌傳動定位精度 $\pm 0.05\text{mm}$

Backgauge Device

1. X-axis stroke 680mm. The Bending dimension ability to 1000mm if using the 3rd step Backgauge-Stopper.
2. The X/R axes direct ballscrew & servo motor driven to generate the positioning accuracy up to $\pm 0.02\text{mm}$
3. Be quite to fast moving as speed over 300mm/second.
4. Direct driven by high Torque Servo Motor & Linear Guide to generate the positioning accuracy $\pm 0.05\text{mm}$

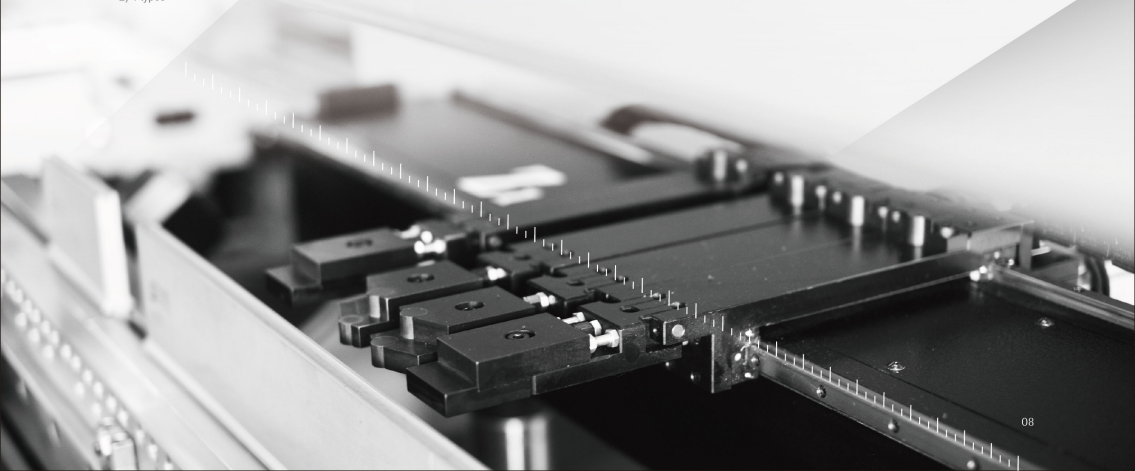
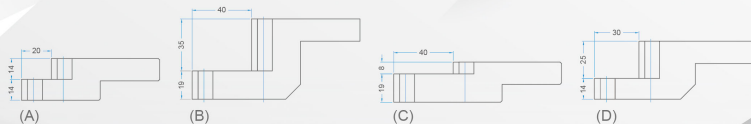


後定規檔板

- 1) 三段式檔料，並具托料功能
- 2) 四種型式

Stopper of Backgauge

- 1) 3 steps, and capability to Bending Support
- 2) 4 types

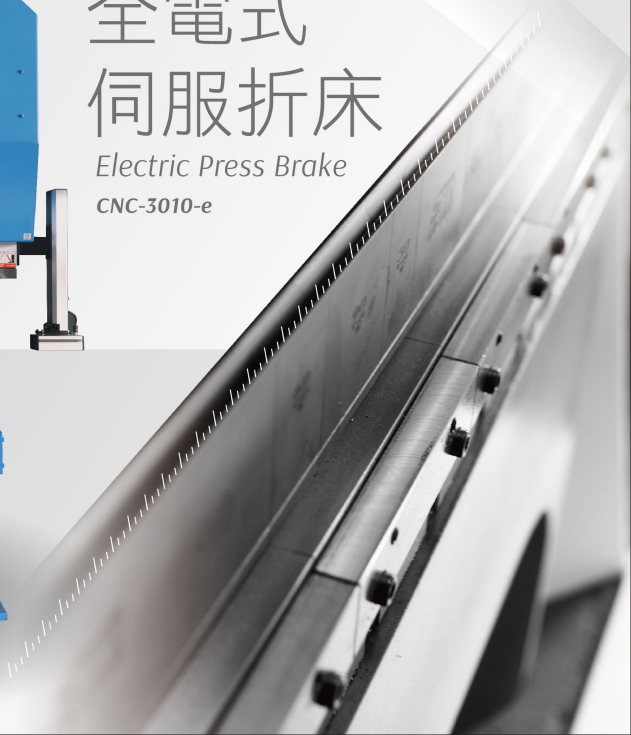




全電式 伺服折床

Electric Press Brake

CNC-3010-e



全電式伺服折床，採用高慣量伺服馬達並裝配重負荷滾珠螺桿來控制Y軸定位，其特殊的地方是不採用油路系統，所以本機台有節省能源之功能並具備高效率及高精度之性能，也因無油路系統，所以不會滴油，對工作場所環境之維護也方便、乾淨。適合對環境要求較高的電子業，研發單位...等使用，也因其生產效率高，更適合鋼鐵加工業之代工生產，或自製產品之加工，無論是少量多樣或少樣多量的生產製造，都能得心應手。

The Servo-Electric press brake driven by high inertia type Servo motor and heavy duty Ballscrew to positioning the Y-axis.

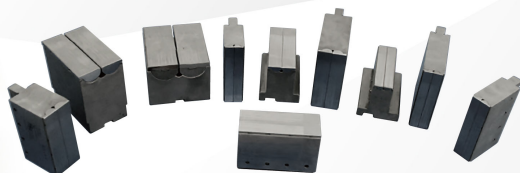
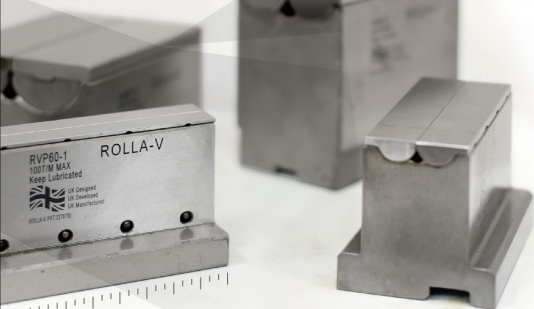
And the specialized in absence of Hydraulic makes Servo-Electric press brake as environmentally friendly, which is no risk of pollution oil and leakage problems, as well as more energy-efficient than a comparable Hydraulic press brake.

規格 Spec

折曲能力 Bending Capacity	CNC-3010-e	CNC-4016-e
SS41 軟鋼板 Mild steel (mm)	2.5x1000	2.5x1600
SUS304 不銹鋼板 Stainless Steel (mm)	1.5x1000	1.5x1600
加壓能力 Working Pressure	30	40
Y軸軸數 Y axis Qty	2	2
Y軸行程 Stroke (mm) Y-axis	200	200
台面長度 Length of Working table(mm)	1000	1600
機台內距 Distance Between Housing	900	1300
最大開距 Opening Height(mm)	350	350
開喉深度 Throat Depth(mm)	250	250
下降速度 Rapid Ram Travel Speed (mm/sec)	100	100
折壓速度 Pressing speed(mm/sec)	20	20
上升速度 Rapid Ram Retreat Speed(mm/sec)	100	100
重量(噸) Net Weight(Tons)	3	4
機器尺寸 Machine Dimension (LxWxH)(mm)	1500x1800x2500	2200x2100x2400



新專利雙伺服馬達



Rolla-V無折痕下模

Press brake tool from Rolla-V with little or no marking.

統偉工業有限公司有代理英國Rolla-V無折痕下模

該製成品全無折痕,但必須貼有PVC保護膜

可折小尺寸的邊緣產品

可折一個靠近孔洞或細長的槽孔產品而不會產生變形

模具如有耗損可更換零件

Toong-Woei is an agency for England Rolla-V no marking dies.

The product will be no marks but must cover with PVC wrap on the dies before bending.

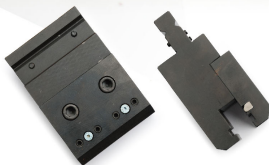
It can apply on small piece products.

It can bend near the hole or slot on sheets.

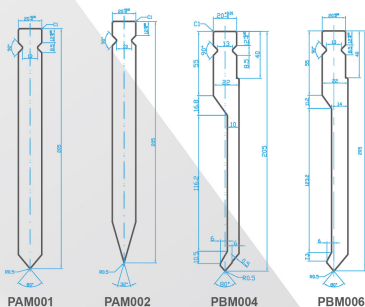
If there is any wastage, the parts are changeable.

1. 上刀轉接板

Punch Adaptor

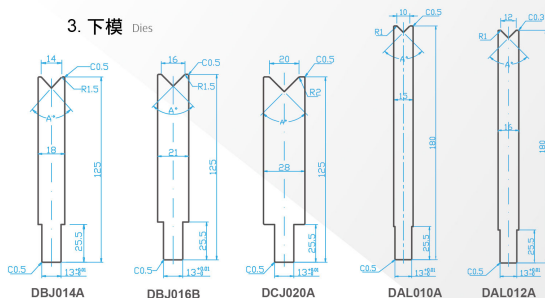


2. 上刀 PUNCHES (Segmented)



以上四種分段短刀, 可裝壓扣鈕

3. 下模 Dies



統偉工業標準分段尺寸 (20,25,30,35,40,100x2LR 文武,200x2,300) 1050mm

折彎壓力對照表

Bending Pressure Table

黑鐵 Mild steel 450 N/mm²

R	D	V / t	0.75	1	1.2	1.6	2	2.5	3	3.5	4	4.5	5	6	7	8	10	12
1	4.5	6	7	12														
1.3	6	8	5	9	13													
1.6	7.5	10	4	7	10	18												
1.9	9	12	4	6	9	15	23											
2.6	12	16			7	11	18	27										
3.2	15	20				9	14	22	31	43								
3.8	18	24					12	18	26	26	46							
4.8	22.5	30						15	21	29	37	47	58					
6.4	30	40							16	22	28	35	44	62	85			
8	37.5	50									23	28	35	50	68	89		
9.6	45	60										24	29	42	57	74		
11	52.5	70												36	49	63	99	
13	60	80													43	56	87	
14	67.5	90														49	77	110
16	75	100															69	100
19	90	120															58	83

單位:噸/米 tons/meter

白鐵 Stainless steel 700 N/mm²

R	D	V / t	0.75	1	1.2	1.5	2	2.5	3	3.5	4	4.5	5	6	7	8	10	12
1	4.5	6	10	18														
1.3	6	8	8	13	19													
1.6	7.5	10	6	11	15	27												
1.9	9	12	5	9	13	22	35											
2.6	12	16			10	17	26	41										
3.2	15	20				14	21	33	47	64								
3.8	18	24					18	27	39	38	69							
4.8	22.5	30						22	31	43	55	70	86					
6.4	30	40							24	32	42	53	65	93	127			
8	37.5	50									33	42	52	74	102	133		
9.6	45	60										35	43	62	85	111		
11	52.5	70												53	73	95	148	
13	60	80													64	83	130	
14	67.5	90														74	116	165
16	75	100															104	150
19	90	120															87	125

t 板厚

R 折彎後的內側半徑

V 下模V槽的寬度

D 折彎所需的最小斜邊長度

t Thickness of workpiece

R Formed thickness of inside bending Radius

V Width of V Die

D Min Bending Length of Workpiece

註: 表所示為一般模具的V幅
V-Die Selection Table

板厚 t(mm) thickness	0.5~1.0	1.0~8	8~12	12以上(up)
下模(V型)槽寬 Width of V-Die(mm)	6xt	8xt	10xt	12xt

NC 搖臂式剪床

NC Swing Levered
Hydraulic Shearing Machine



刀隙介紹

1. 將欲剪切鐵板之厚度直接控制器上輸入厚度即可。
2. 控制器直接處理刀隙增減量，即準確又方便。
3. 刀隙結構經由直接傳遞動力系統，提升板料裁切品質。

Blade Gap

1. Desired shearing thickness directly to input into the controller.
2. Adjustable Blade gap by controller, be precision and convenience.
3. Blade gap can improve the shearing quality by direct transmission of power system.

機台性能

1. 機台結構採用強力一級鋼板焊接，剛性、精度...等完全依照國家標準製造，能保持機身精度永不變形。
2. 油壓系統經周詳設計及試驗以發揮最大效益為原則，並可降低故障率及減少漏油現象。
3. 控制器採用知名品牌Delem系統，可同時控制後規尺寸及刀間隙(板材厚度)，操作簡單。
4. 剪床之油壓裁切裝置構造，採用複動式油壓結構，使得裁剪速度、力量及穩定度更上一層，並且無彈簧斷裂煩惱。
5. 依剪切鐵板厚度不同，提供薄板之二段式托料裝置及厚板之防扭曲裝置，供客戶選購。
6. 壓板裝置，採用獨立式並列油壓缸，當板材不平時可依材質及厚度自行調整壓著力，不會傷及板面。
7. 活動式安全護指柵，可防止手部靠近危險範圍內，以確保工作安全，並能清楚目視剪切情況，既安全又方便。

Machinery Features

1. Whole steel welded structure, high mechanical strength and good rigidity contribute to excellent shearing performance.
2. After carefully designing and testing to make full of function, the hydraulic system can reduce malfunction and oil leakage.
3. With famous brand Delem controllers, they can simply operate back gauge and blade gap at the same time.
4. Hydraulic shearing device upgrades the cutting speed, strength & stability and without Spring broken.
5. According to different thickness of shearing, we offer 2 steps of supporter and distortion proof device.
6. Adjustable Hydraulic Press-plate device to force the workpiece be even and fixed on the working table during the bending process.
7. With finger guard system, we can ensure safety for operators.

NC油壓剪刀

NC Hydraulic Shearing

選用配備
Optional Accessories

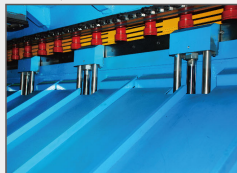
二段式托料

2 steps supporter



防扭曲剪床

Distortion proof



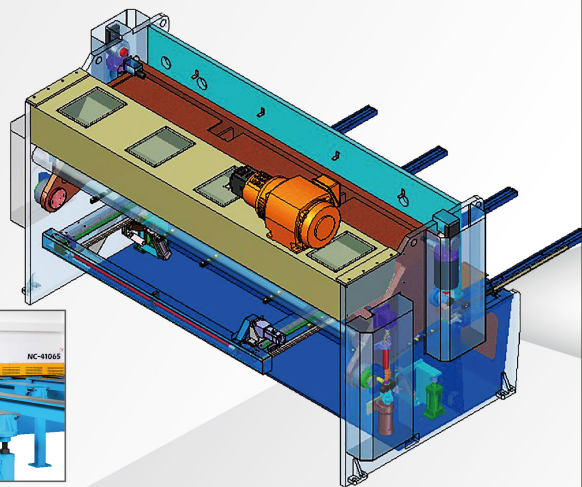
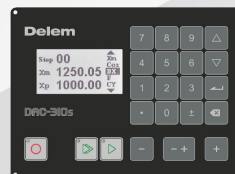
電腦前定規

Front-gauge controlled by PC



剪床控制器 Delem-DAC-310S

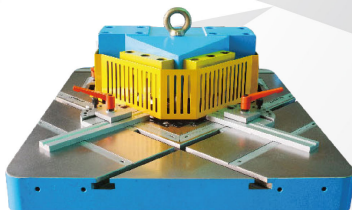
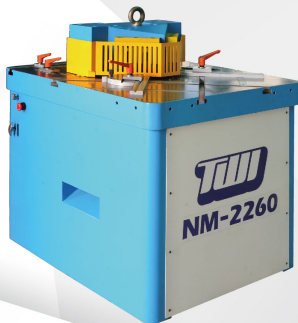
Delem DAC-310S controller



NC剪床3D示意圖

NC切角機

NC Hydraulic Notching Machine



檯面

雙頭設計，可做切角、邊緣沖剪之功能。

尺寸定位治具，經精密加工，表面度霧銘，左、右分度盤可由0°~60°做不定點使用，可快速定位剪切尺寸，提高工作效率。

剪切壓板採用高級滑潤軸及強力彈簧組合而成，提昇剪切板料成品品質。

前部切角系統

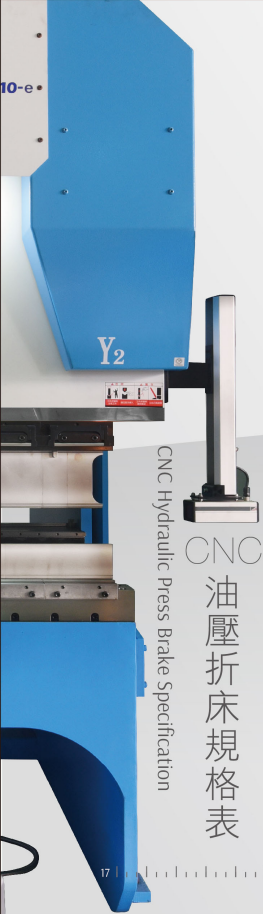
利用定寸靠模裝置，構造堅固，精密度高，快速且效率高。
全部刀具均採用SKD-11鋼材，經真空熱處理，研磨而成。

Features

1. Absolute rigidity structure, high precision, rapid speed and high efficiency.
2. Two sides columns and a central guide to performance perfect cuts with different thickness and workpiece with no burr, no time loss.
3. Size-positioning Fixtures, symmetrical and no-symmetrical adjustment of the cutting Angle varying from 0°to 60°.
4. Cutting tools made by SKD-11 steel.

規格 Spec

		NM-2260	NM-22130
剪斷能力	Shearing Capacity (mm)		
SS41 軟鋼板	Mild steel (mm)	6.0x220x220	13x220x220
SUS304 不銹鋼板	Stainless Steel (mm)	4.5x220x220	10x220x220
口剪長度	Edge Notch (mm)		
SS41 軟鋼板	Mild steel (mm)	4.5x50x100	
SUS304 不銹鋼板	Stainless Steel (mm)	3.2x50x100	
行程	Ram(X, Y) (mm)	22	70
行程數	SPM	35	7
馬達	Motor(HP)	3HPx4P	15HPx4P
重量(噸)	Net Weight(kg)	900	2600
機器尺寸 (長x寬x高)	Machine Dimension (LxWxH)(mm)	850x1050x1200	1550x1090x1985



CNC Hydraulic Press Brake Specification

CNC 油壓折床規格表

規格 Spec	折曲能力 Bending Capacity		Working Pressure (ton)	加壓能力	油缸 缸數	馬力 Horse Power (HP)	Hydraulic Cylinder (mm)	油壓缸行程 Ram Travel (mm)	台面長度 Length of Working Table (mm)	機台內距 Distance Between Housing (mm)	最大開距 Open Height (mm)	咽喉深度 Throat Depth (mm)	壓入速度 Fast Approach Speed	下降速度 Pressing Speed	折壓速度 Fast Return Speed	上升速度 Up Speed	重量 Net Weight (ton)	機器尺寸 (長x寬x高) Machine Dimension (LxWxH) (mm)
	軟鋼板 SS41 Mild Steel	不銹鋼板 SUS304 Stainless Steel																
CNC-5020	2.5x2000	1.5x2000	50	2	10	200	2000	1700	420	400	100	12	100	5			2875x1750x2380	
CNC-10026	4.5x2600	3.2x2600	100	2	15	300	2600	2100	550	400	100	12	100	9			3515x1790x2800	
CNC-10032	3.2x3200	2.0x3200	100	2	15	300	3200	2600	550	400	100	14	100	12			4035x1740x2910	
CNC-15032	4.5x3200	3.2x3200	150	2	20	300	3200	2600	550	400	100	13	100	14			4115x1880x3000	
CNC-20032	6.5x3200	4.5x3200	200	2	25	300	3200	2600	550	400	100	12	100	16.5			4130x1940x3080	
CNC-20042	6.0x4200	4.0x4200	200	2	25	300	4200	3700	550	400	100	12	100	19			5130x1940x3250	
CNC-30042	9.0x1200	6.0x4200	300	2	30	300	4200	3700	550	400	100	10	100	24			5180x1990x3420	
CNC-30052	6.5x5200	4.5x5200	300	2	30	300	5200	4700	550	400	100	10	100	27			6080x1970x3490	
CNC-30062	5.0x6200	3.5x6200	300	2	30	300	6200	5700	550	400	100	10	100	32			7080x1970x3490	
CNC-30072	4.5x7200	3.2x7200	300	2	30	300	7200	6700	550	400	100	10	100	35			8080x1970x3490	
CNC-40042	12.0x4200	8.0x4200	400	2	40	300	4200	3700	550	400	100	10	100	28			5200x2120x3650	
CNC-40052	9.0x5200	6.0x5200	400	2	40	300	5200	4700	550	400	100	10	100	31			6200x2120x3650	
CNC-40062	7.0x6200	4.5x6200	400	2	40	300	6200	5700	550	400	100	10	100	36			7080x2160x3340	
CNC-40072	6.0x7200	4.0x7200	400	2	40	300	7200	6700	550	400	100	10	100	39			8080x2250x3480	
CNC-50042	15.0x4200	10.0x4200	500	2	50	300	4200	3700	550	400	100	8	100	32			5100x2250x3960	
CNC-50052	11.5x5200	7.5x5200	500	2	50	300	5200	4700	550	400	100	8	100	38			6100x2250x3960	
CNC-50062	9.0x6200	6.0x6200	600	2	50	300	6200	5700	550	400	100	8	100	43			7100x2250x3960	
CNC-60052	13.0x5200	9.0x5200	600	2	60	300	5200	4700	550	400	80	8	100	42			5600x2390x3600	
CNC-60062	11.0x6200	7.0x6200	600	2	60	300	6200	5700	550	400	80	8	100	47			6600x2390x3600	
CNC-80062	16.0x6200	10.0x6200	800	2	80	300	6200	5700	550	400	80	8	100	55			6650x2400x3560	
CNC-80072	13.0x7200	9.0x7200	800	2	80	300	7200	6700	550	400	80	8	100	65			7650x2400x3560	
CNC-100072	15.0x7200	10.0x7200	1000	2	100	300	7200	6700	550	400	70	8	100	76			7650x2630x4250	
CNC-120072	19.0x7200	12.5x7200	1200	2	120	300	7200	6700	550	400	70	8	100	93			7650x2800x4500	

1. 本公司產品不斷研究改良，若規格有任何更改，恕不另行通知。

2. 開距及行程可依客戶需求而改變。

1. Specification are subject to change without notice.

2. Customized open Height & Ram Travel.

NC 搖臂式剪床規格表
NC Swing Levered Hydraulic Shearing Machine

規格 Spec	剪斷能力 Shearing Capacity(mm)		剪次 每次 剪分 Cutting Time / min	剪刀 角度 Shearing Angle	後定規 行程 Backgauge Stroke (mm)	壓板缸 Press-plate Cylinder (Pc)	馬達 Motor (HP)	重量 (噸) Net Weight (Ton)	機器尺寸 (長x寬x高) Machine Dimension (L x W x H) (mm)
型 式 Model	軟鋼板 SS41 Mild Steel	不鏽鋼板 SUS304 Stainless Steel							
NC15045	4.5x1500	3.2x1550	34	0.9°	20	25HP	10	5	2250x2100x2100
NC15130	13.0x1550	9.0x1550	17	1.5°	28	60HP	10	10	2350x2250x2400
NC15160	16.0x1550	11.0x1550	12	1.7°	28	80HP	10	12	2500x2250x2700
NC15200	20.0x1550	14.0x1550	10	2°	33	100HP	10	14	2500x2450x3000
NC15300	30.0x1550	20.0x1550	8	2.2°	35	100HP	10	17	3120x3450x3300
NC25045	4.5x2550	3.2x2550	27	0.9°	20	25HP	14	7.5	3250x2100x2150
NC25065	6.5x2550	4.5x2550	21	1°	23	30HP	14	8.5	3350x2100x2200
NC31045	4.5x3100	3.2x3100	28	0.9°	23	25HP	18	9.5	*4000x2250x2050
NC31065	6.5x3100	4.5x3100	19	1°	23	30HP	18	11.5	*4050x2250x2300
NC31100	10.0x3100	6.5x3100	15	1.3°	28	40HP	18	15	*4050x2250x2450
NC31130	13.0x3100	9.0x3100	11	1.5°	28	60HP	18	17	4000x2250x2400
NC31160	16.0x3100	11.0x3100	10	1.7°	28	80HP	18	19	4150x2250x2700
NC31200	20.0x3100	14.0x3100	7	2°	33	100HP	18	26	*4250x2750x3050
NC41045	4.5x4100	3.2x4100	26	0.9°	23	25HP	23	13	4800x2100x2250
NC41065	6.5x4100	4.5x4100	19	1°	23	30HP	23	15.5	*5200x2300x2300
NC41100	10.0x4100	6.5x4100	17	1.3°	28	40HP	23	20	5000x2300x2400
NC41130	13.0x4100	9.0x4100	12	1.5°	28	60HP	23	37	5000x2300x2700
NC51065	6.5x5100	4.5x5100	22	1°	23	30HP	27	20	6000x2150x2600
NC61065	6.5x6100	4.5x6100	16	1°	23	30HP	32	30	7000x2200x2800
NC61100	10.0x6100	6.5x6100	14	1.3°	28	40HP	32	45	7000x2300x3000
NC61130	13.0x6100	9.0x6100	8	1.5°	28	60HP	32	50	*7150x2450x3000
NC61160	16.0x6100	11.0x6100	7	1.7°	28	80HP	32	60	7200x2600x3400
NC61200	20.0x6100	14.0x6100	6	2°	33	100HP	32	70	7300x2850x3600
NC61300	30.0x6100	20.0x6100	5	2.2°	35	120HP	32	92	7550x3100x3900

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