

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

www.toongwoei.com

500

Since 1982



Toong-Woei Machine Industrial Co., Ltd

堅毅不屈的折服力量
Like the determination of the mountains



C20-01

C20-01

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)，加壓能力可達200噸可折3米鈹材，曾全力服役於「宜蘭縣金進富鐵材行」迄今超過35年，雖然經歷歲月的洗鍊，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. Its 200 ton bending capacity made it capable for 3 meters length sheets. Originally, it had worked for "Kim Jin Fu Sheet Metal factory" in a 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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鐵軌製成

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

CNC油壓折床

CNC Hydraulic Press Brake

L.電腦控制器 CNC Controller

瑞士Cybelec

VisiTouch 19(2D/3D)



荷蘭Delem

DA58T(2D)/DA66T(2D)



義大利

RK15(2D/3D) / RK22(2D/3D)

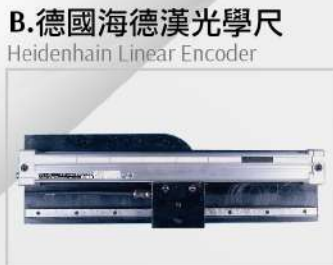


標準配備

Standard Accessories



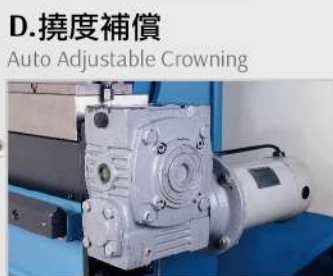
A. 上下油壓夾刀
Punch/Die Hydraulic Adaptor Device



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



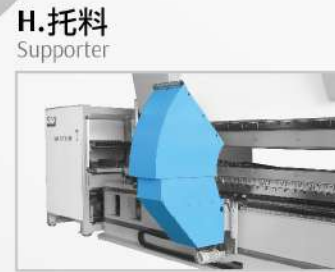
E. LED燈條
LED Tool Locator



F. 油電伺服
Servo-Hydraulic device



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



H. 托料
Supporter
I. CE認證雷射IRIS高階安全光幕
CE Certificated IRIS Safety Guard System



J. 雷射角度測量
Laser Check System
K. 手動定點微調
Manual Positioned Fine-tuning



L. 刀具架



Toong-Woei Machine Industrial Co., Ltd
www.toongwoei.com

YAM 聯德工業
www.tongde.com
TEL: (01)466-1999

80
R=0.5
80°

YAM 聯德工業
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TEL: (01)466-1999

45
R=0.5
80°

60
R=0.5
80°

YAM 聯德工業
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70
R=0.5
80°

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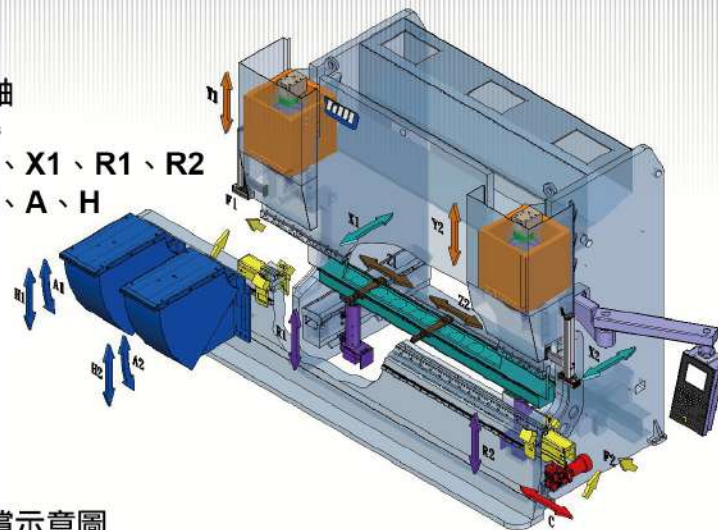


可選配軸

Optional Axes

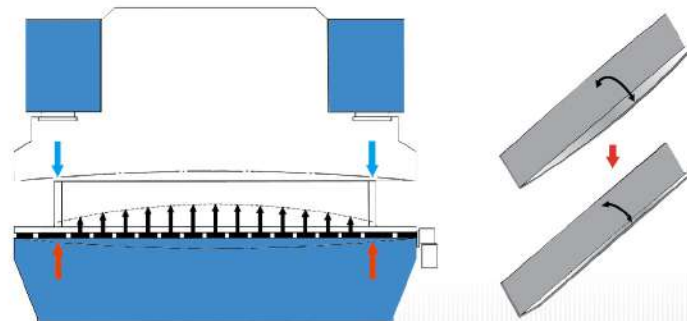
Z1、Z2、X1、R1、R2

F1、F2、A、H



撓度補償示意圖

Illustration for Crowning



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60
V=1.4
80°

90
V=1.4
80°

50
V=1.4
80°

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45
V=1.4
80°

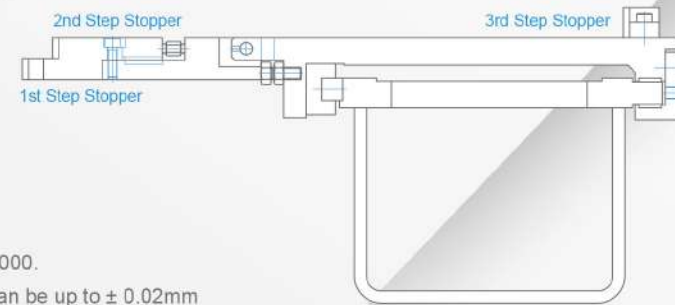
80
V=1.4
80°

70
V=1.4
80°

YAM 聯德工業
www.tongde.com
TEL: (01)466-1999

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. 後規檔板採用高扭力伺服馬達與線性滑軌傳動定位精度 $\pm 0.05\text{mm}$

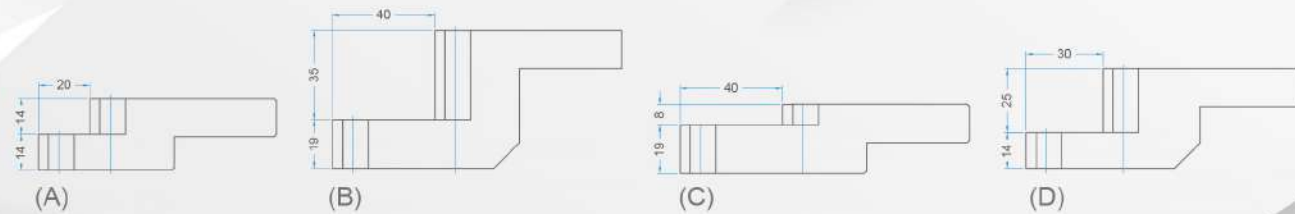


Backgauge Structure

1. X-axis stroke 680mm. If using third step of backgauge stopper, the beding dimension can be 1000.
2. Both X- axis and R- axis adopted with ball screw and servo motor, The positioning accuracy can be up to $\pm 0.02\text{mm}$
3. Adopted with high Torque Servo Motor & Linear Motion track, the positioning accuracy of backgauge stopper can be $\pm 0.05\text{mm}$

後定規檔板

1. 三段式檔料，並具托料功能
2. 四種型式



Backgauge Stopper

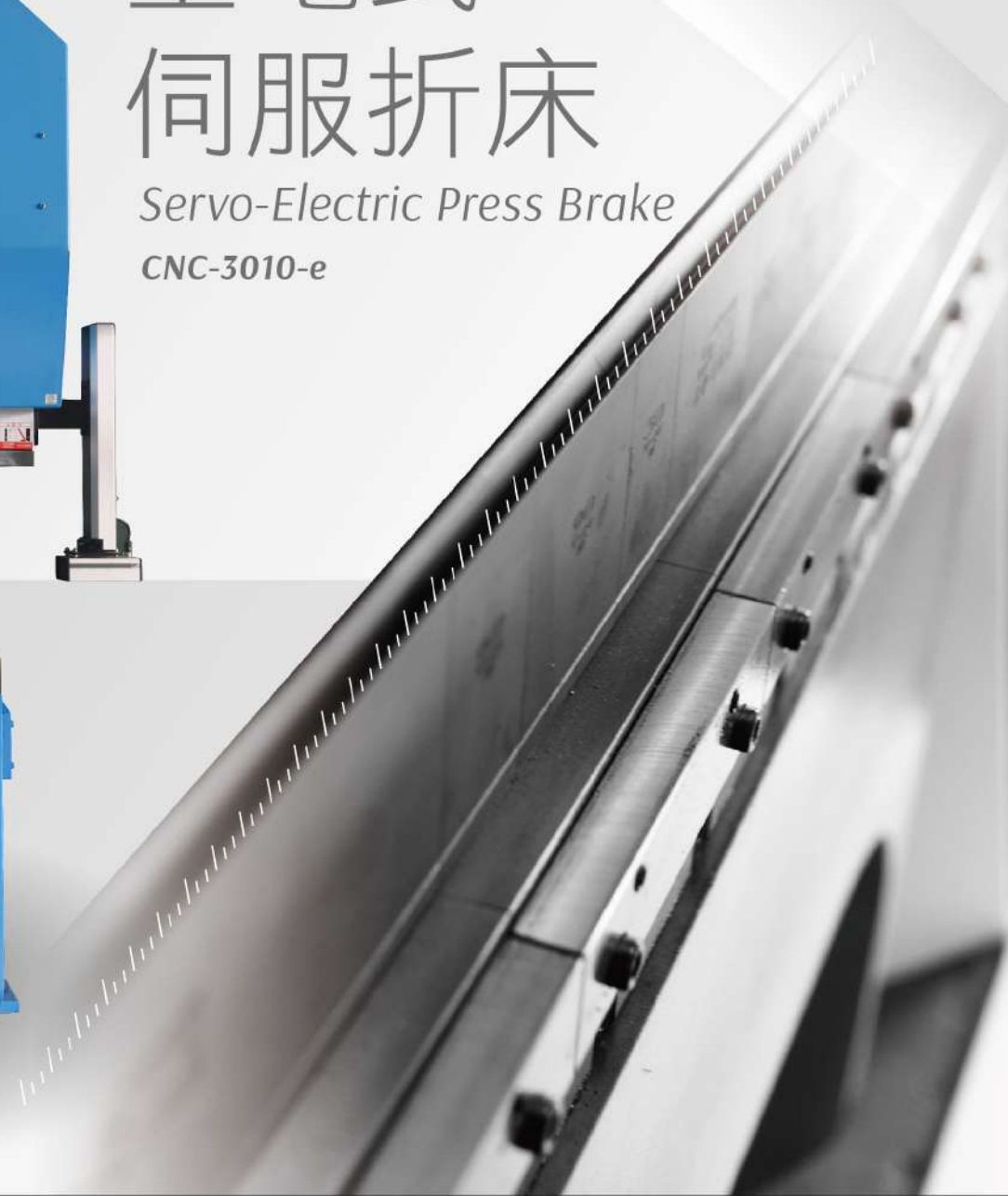
1. 3 steps of stopper and capability to bending support
2. 4 types of model



全電式 伺服折床

Servo-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。

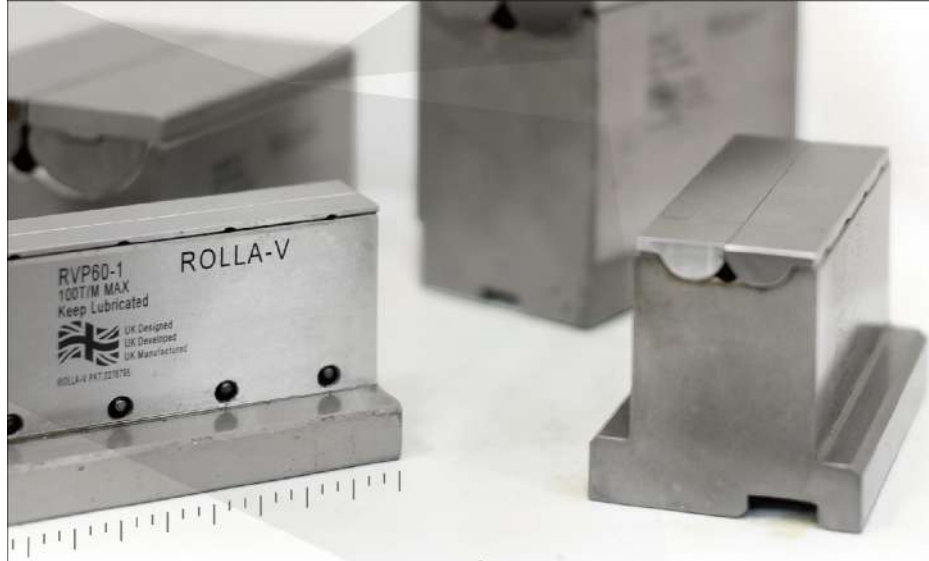
The Servo-Electric press brake adopts with high inertia Servo motor and heavy duty Bal screw to positioning the Y-axis. Its feature is no hydraulic system so that it can save energy. Moreover, it improves to high efficiency, high accuracy and can be no risk of oil leakage.

規格 Spec

	CNC-3212-e	CNC-5016-e
折曲能力 Bending Capacity		
加壓能力 Working Pressure	32	50
Y軸軸數 Y axis (pc)	2	2
Y軸行程 Y axis Stroke	200	200
台面長度 Length of Working table(mm)	1200	1600
機台內距 Distance between Housing(mm)	940	1300
最大開距 Opening Height(mm)	420	420
開喉深度 Throat Depth(mm)	320	320
折壓速度 Pressing Speed(mm/sec)	20	20
重量 Net Weight (ton)	4	5
伺服馬達 Servo motor(pc)	7.5KWx2	7.5KWx2



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.

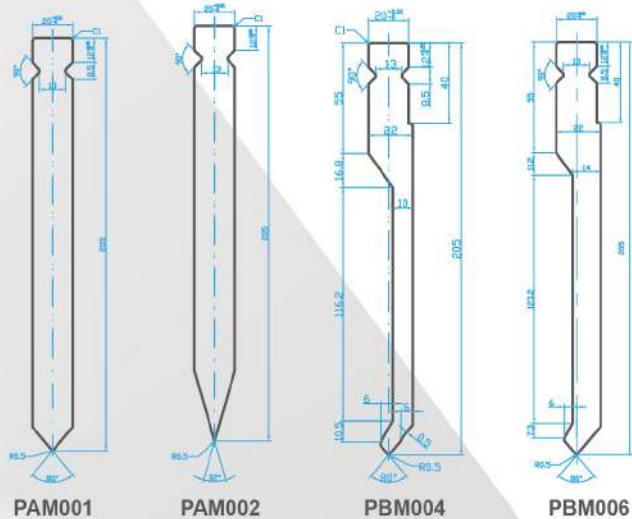
If there is any wastage, the parts are changeable.

1. 上刀轉接板

Punch Adaptor

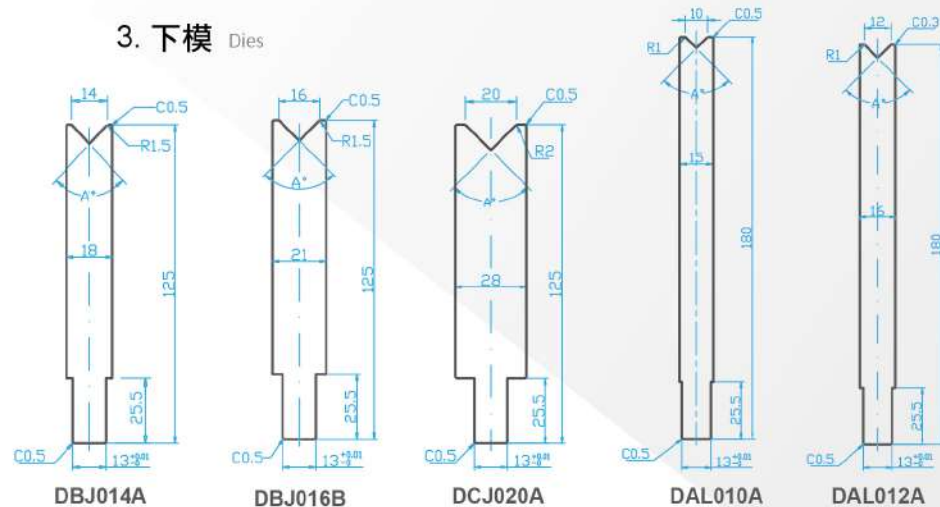


2. 上刀 PUNCHES (Segmented)



以上四種分段短刀, 可裝壓扣鈕

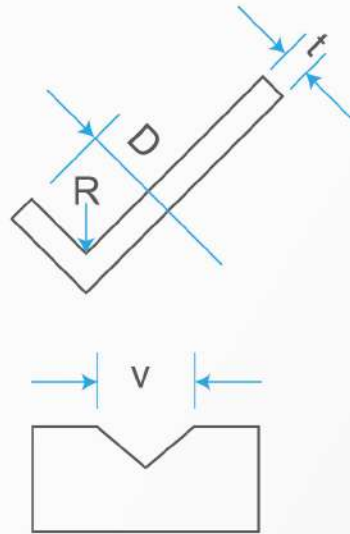
3. 下模 Dies



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



- 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 Minimum length of bending 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

黑鐵 Mild steel 450 N/mm²

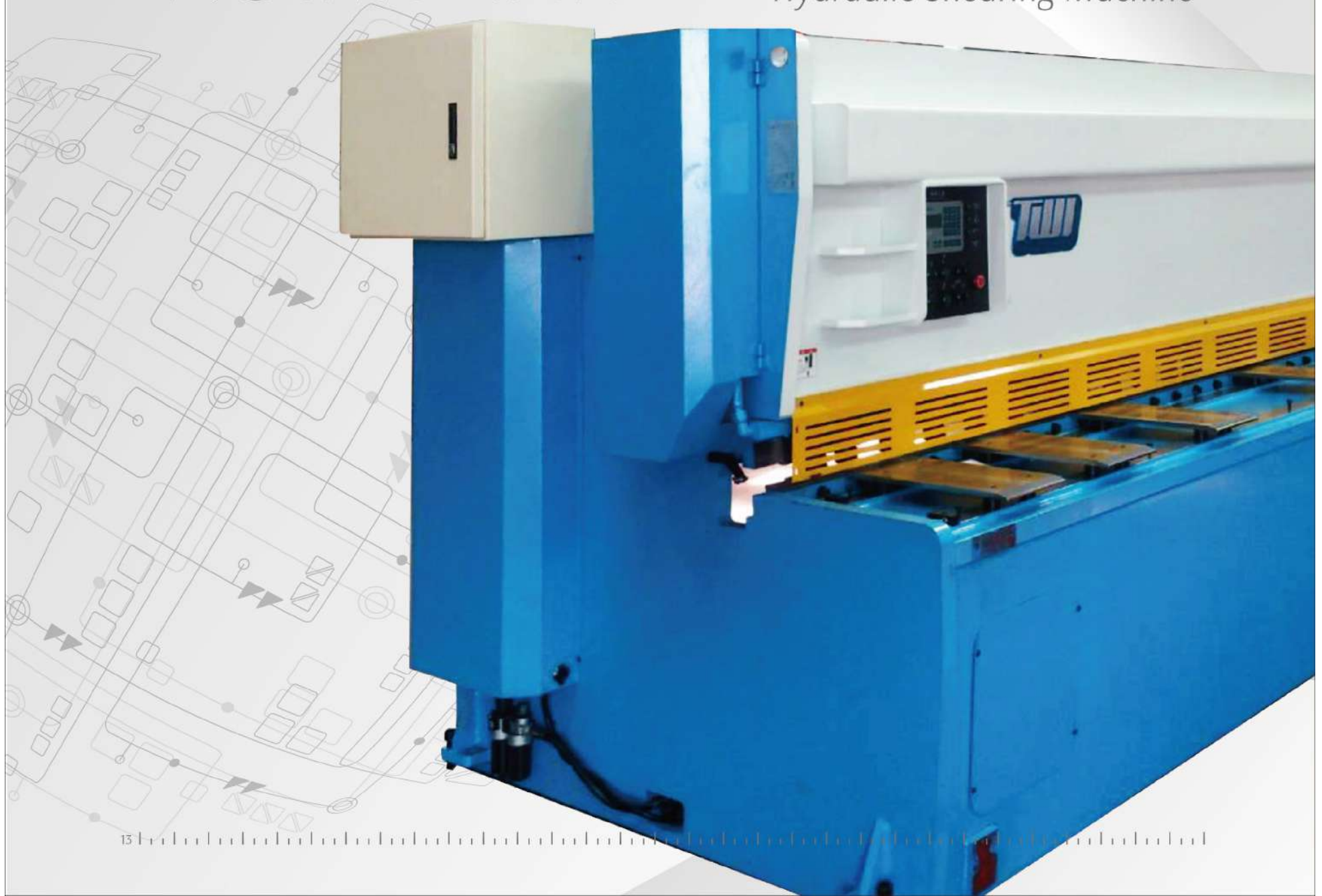
R	D	V / t	0.75	1	1.2	1.6	2	2.5	3	3.5	4	4.5	5	6	7	8	10	12
1	4.5	6	7	12														
1.3	6	8	5	9	13													
1.6	7.5	10	4	7	10	18												
1.9	9	12	4	6	9	15	23											
2.6	12	16			7	11	18	27										
3.2	15	20				9	14	22	31	43								
3.8	18	24					12	18	26	26	46							
4.8	22.5	30						15	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

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

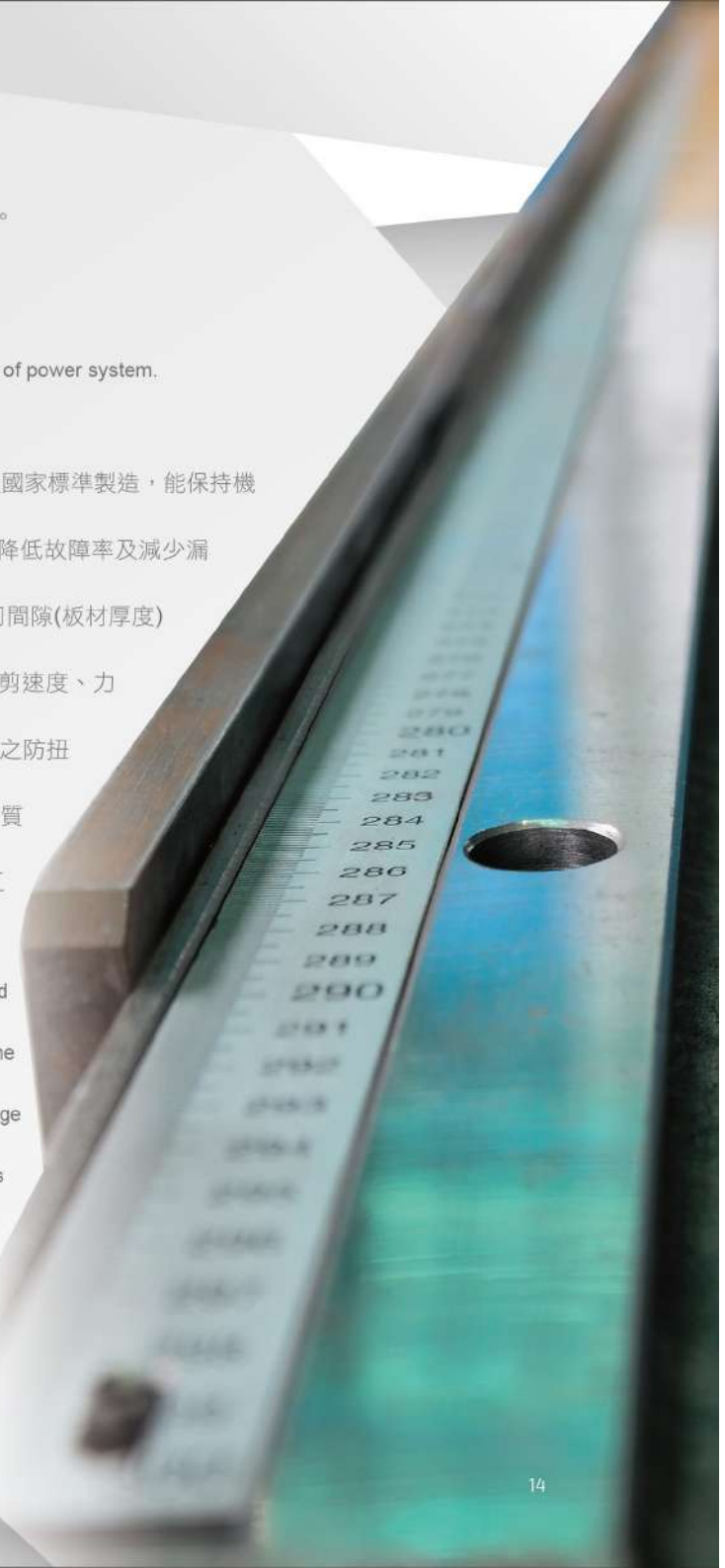
1. Directly type in the desired shearing thickness into the controller.
2. Controller can automatically calculate the blade gap.
3. Blade gap can improve the shearing quality by direct transmission of power system.

機台性質

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 reputed Delem controller, it can simply operate both backgauge and blade gap (sheet thickness) at the same time.
4. With hydraulic shearing device replace of returned-spring, it upgrades the cutting speed, strength and stability. There is no possibility of spring broken.
5. Depend on the different thickness of steel, we can offer two-steps supporter for thin plates and distortion proof device for thick plates as optional accessories for customers.
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 clearly check the shearing status and ensure the 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



電腦前定規

Front-gauge controlled by PC



防扭曲剪床

Distortion proof



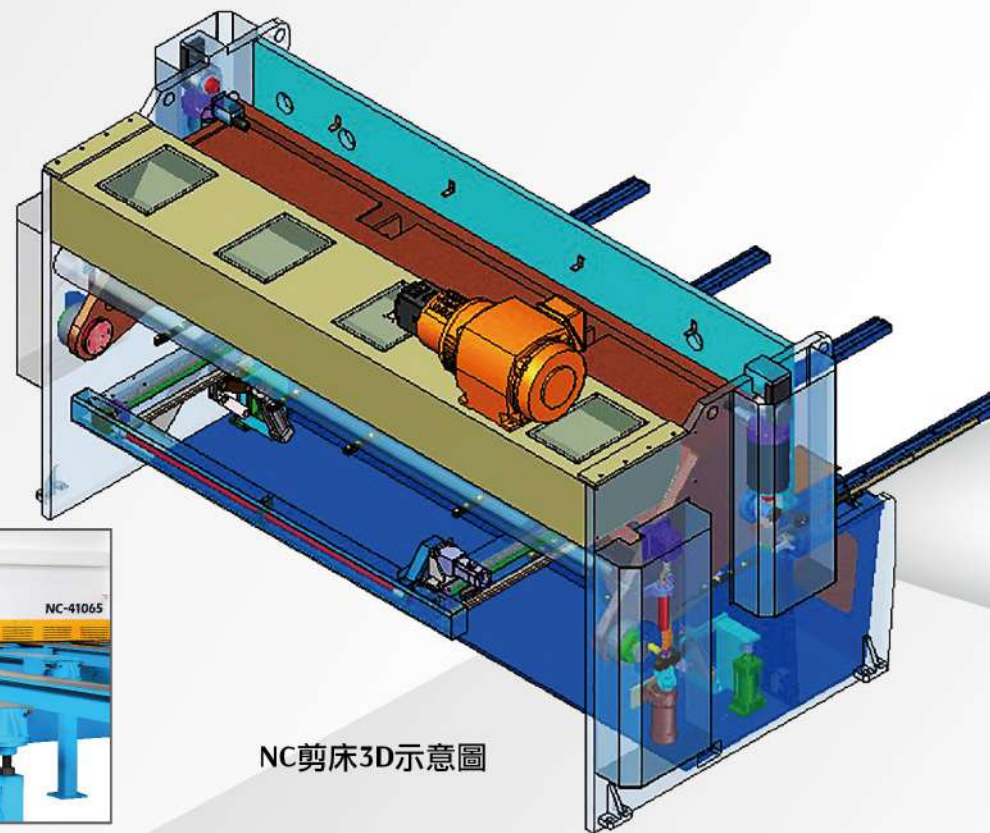
剪床控制器 Delem-DAC-310T

Delem DAC-310T controller



控制器旋臂

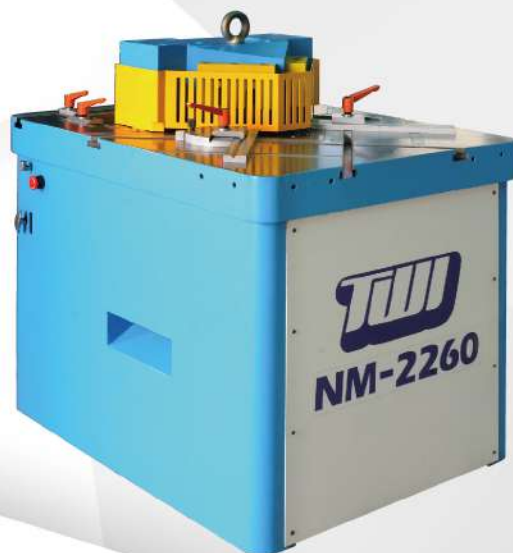
Rotating arm for controller



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型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)	4.0x220x220	10x220x220
口剪長度	Edge Notch (mm)		
SS41 軟鋼板	Mild steel (mm)	4.0x50x100	
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

10-e

Y₂

CNC Hydraulic Press Brake Specification

CNC
油壓折床規格表

規格 Spec	折曲能力 Bending Capacity (板厚相對於下模V槽) (Thickness is associated with V-dies.)		Working Pressure (ton) 加壓能力	Hydraulic Cylinder (Pc) 油壓缸數	Motor Power (HP) 馬達	Ram Stroke (mm) 油壓缸行程	Length of Working Tablet (mm) 台面長度	Distance Between Haising (mm) 機台內距	Open Height (mm) 最大開距	Throat Depth (mm) 開喉深度	Standard Approach Speed	Standard Working Speed	Standard Return Speed	上升速度	Net Weight (Ton) 重量(噸)	機器尺寸 (長x寬x高) Machine Dimension (L×W×H) (mm)
	軟鋼板 SS41 Mild Steel	不鏽鋼板 SUS304 Stainless Steel														
CNC-5020	2.5x2000	1.5x2000	50	2	10	200	2000	1700	420	400	100	12	100	5	2875x1730x2380	
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	6.2x4200	4.0x4200	200	2	25	300	4200	3700	550	400	100	12	100	19	5130x1940x3250	
CNC-30042	9.0x4200	6.0x4200	300	2	30	300	4200	3700	550	400	100	10	100	24	5180x1990x3420	
CNC-40042	12.0x4200	8.0x4200	400	2	40	300	4200	3700	550	400	100	10	100	28	5200x2120x3650	
CNC-50042	15.0x4200	10.0x4200	500	2	50	300	4200	3700	550	400	100	8	100	35	5100x2250x3960	
CNC-30062	5.0x6200	3.5x6200	300	2	30	300	6200	5700	550	400	100	10	100	32	-	
CNC-40062	7.0x6200	4.5x6200	400	2	40	300	6200	5700	550	400	100	10	100	36	-	
CNC-50062	9.0x6200	6.0x6200	600	2	50	300	6200	5700	550	400	100	8	100	45	-	
CNC-60062	11.0x6200	7.0x6200	600	2	60	300	6200	5600	550	400	80	8	100	53	-	
CNC-80062	16.0x6200	10.0x6200	800	2	80	300	6200	5500	550	400	80	8	100	60	-	
CNC-100062	18.0x6200	11.0x6200	1000	2	100	300	6200	5200	550	400	80	8	80	70	-	
CNC-120062	20.0x6200	13.0x6200	1200	2	120	300	6200	5200	550	400	80	6	80	80	-	
CNC-30072	4.0x7200	3.0x7200	300	2	30	300	7200	6700	550	400	80	10	80	34	-	
CNC-40072	6.0x7200	4.0x7200	400	2	40	300	7200	6700	550	400	100	10	100	39	-	
CNC-50072	7.0x7200	4.5x7200	500	2	50	300	7200	6700	550	400	80	8	80	47	-	
CNC-60072	10.0x7200	6.0x7200	600	2	60	300	7200	6600	550	400	80	8	80	55	-	
CNC-80072	13.0x7200	8.0x7200	800	2	80	300	7200	6500	550	400	80	8	80	65	-	
CNC-100072	15.0x7200	10.0x7200	1000	2	100	300	7200	6200	550	400	70	8	100	80	-	
CNC-120072	19.0x7200	12.5x7200	1200	2	120	300	7200	6200	550	400	70	6	100	95	-	
CNC-150072	22.0x7200	14.0x7200	1500	2	150	300	7200	6200	550	400	70	6	80	120	-	
CNC-200072	30.0x7200	19.0x7200	2000	2	200	300	7200	6050	550	400	70	6	80	150	-	
CNC-1200100	12.0x10000	8.0x10000	1200	2	120	450	10000	8600	700	450	70	6	70	150	-	
CNC-1500100	16.0x10000	12.0x10000	1500	2	150	450	10000	8600	700	450	70	6	70	180	-	

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 stroke.

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 / 每分 Cutting time / min	剪刀角度 Shearing Angle	後定規行程 Backgauge Stroke (mm)	馬達 Main Motor (HP)	壓板缸 Press-plate Cylinder (Po)	重量 (噸) Net Weight(Ton)	機器尺寸 (長x寬x高) Machine Dimension (L x W x H) (mm)
	軟鋼板 SS41 Mild Steel	不鏽鋼板 SUS304 Stainless Steel							
NC 15045	4.5x1550	3.2x1550	34	0.9°	800	25	10	6	2250x2100x2100
NC 15130	13.0x1550	9.0x1550	17	1.5°	800	60	10	10	2350x2250x2400
NC 15160	16.0x1550	11.0x1550	12	1.7°	800	40x2	10	12	2500x2250x2700
NC 15200	20.0x1550	14.0x1550	10	2°	800	50x2	10	14	2500x2450x3000
NC 25045	4.5x2550	3.2x2550	27	0.9°	800	25	14	7.5	3250x2100x2150
NC 25065	6.5x2550	4.5x2550	21	1°	800	30	14	8.5	3350x2100x2200
NC 31045	4.5x3100	3.2x3100	28	0.9°	800	25	18	9.5	*4000x2250x2050
NC 31065	6.5x3100	4.5x3100	19	1°	800	30	18	11.5	*4050x2250x2300
NC 31100	10.0x3100	6.5x3100	15	1.3°	800	40	18	15	*4050x2250x2450
NC 31130	13.0x3100	9.0x3100	12	1.5°	800	60	17	17	4000x2250x2400
NC 31160	16.0x3100	11.0x3100	10	1.7°	800	40x2	17	19	4150x2250x2700
NC 31200	20.0x3100	14.0x3100	12	2°	800	50x2	17	26	*4250x2750x3050
NC 41045	4.5x4100	3.2x4100	26	0.9°	800	25	23	13	4800x2100x2250
NC 41065	6.5x4100	4.5x4100	19	1°	800	30	23	15.5	*5200x2300x2300
NC 41100	10.0x4100	6.5x4100	17	1.3°	800	40	25	20	5000x2300x2400
NC 41130	13.0x4100	9.0x4100	12	1.5°	800	60	22	37	5000x2300x2700
NC 51065	6.5x5100	4.5x5100	22	1°	800	30	27	20	6000x2150x2600
NC 61065	6.5x6100	4.5x6100	16	1°	800	30	32	30	7000x2200x2800
NC 61100	10.0x6100	6.5x6100	14	1.3°	800	40	32	45	7000x2300x3000
NC 61130	13.0x6100	9.0x6100	8	1.5°	800	60	32	50	*7150x2450x3000
NC 61160	16.0x6100	11.0x6100	7	1.7°	800	40x2	32	60	7200x2600x3400
NC 61200	20.0x6100	14.0x6100	6	2°	800	50x2	32	70	7300x2850x3600
NC 61300	30.0x6100	20.0x6100	5	2.2°	800	40x3	30	92	7550x3100x3900

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Toong-Woei Machine Industrial Co., Ltd
統偉工業有限公司

32466桃園市平鎮區東龍街1191巷69號
No. 69, Ln. 1191, Donglong St., Pingzhen Dist.,
Taoyuan City 32466, Taiwan (R. O. C.)
Tel: 886-3-4603999 / Fax: 886-3-4603000
南區服務處: 71756台南市仁德區文華路三段428巷152弄11號
e-mail: twi@toongwoei.com / 售後服務Line ID: toongwoei

