华辉数控机床有限公司
LFK MACHINERY GROUP
梁 发 记 机 械 集 团 成 员

www.lfkmachinery. com

永远开拓的先驱者

专业制造数控液压冲、折、剪、刨槽、激光切割等全线钣金机械

Professional design and manufacture of Turret Punch Press,PressBrake,Shear....

梁发记机械集团成员:
LFK MACHINERY GROUP:

- 东 莞 华 辉 数 控 机 床 有 限 公 司
  Dongguan Huahui CNC Machinery Co.,Ltd.
- 信 宜 华 辉 数 控 机 床 有 限 公 司
  Xinyi Huahui CNC Machinery Co.,Ltd.
- 信 宜 协 华 精 密 钣 金 制 品 有 限 公 司
  HIP WAH Precision Sheet Metal Factory Co.,Ltd.

CQC ISO9001:2008
Cert.No:00112Q20386R2M/4400

Hong Kong 香港　Dongguan 东莞　Shanghai 上海　Tianjin 天津　Hubei 湖北　Thailand 泰国
Vietnam 越南　Singapore 新加坡　Malaysia 马来西亚　Philippines 菲律宾　Indonesia 印尼

- 国内销售热点
- 国外销售热点

www.lfkmachinery. com

华辉数控机床有限公司
LFK MACHINERY GROUP
梁 发 记 机 械 集 团 成 员

香港总部 Head Quarter
梁发记机械有限公司 LFK Machinery Co.,Ltd.
香港新界屯门震寰路9号好收成工业大厦9楼9室
Rm.9.9/F.,Good Harvest Industrial Building
HongKong
Tel :852-24481686
Fax:852-24453999
E-mail:lfk_net@163.com

上海
上海市嘉定区安亭新镇安智路81号
Tel :021-69511062　86-13818204801
Fax:021-69511062

东莞华辉数控机床有限公司
广东省东莞市清溪镇九乡工业区
邮编:523646
电话:86-769-87737478
传真:86-769-89026169
销售热线：86-769-87332202
服务热线：400-830-6398

湖北
湖北省襄阳市襄州区云青路光彩公
交枢纽站A7-2厂房
Tel:86-13910047981

信宜华辉数控机床有限公司
广东省信宜市东莞大朗{信宜}产业园
邮编：525300
电话：86-668-8857999 8857618
传真：86-668-8876682

注：此样本内容解释权归制造商所有　LFK 2019-01

东莞华辉数控机床有限公司 Dongguan Huahui CNC Machinery Co.,Ltd.

LFK香港梁发记机械有限公司成立于六十年代初，是一家专业生产钣金机械的厂家。公司生产“LFK”品牌系列的：激光机、数控转塔冲床、数控折弯机、数控剪板机、数控刨槽机等数控钣金设备。产品采用国际标准的机械和液压组件，优先选用先进的CAD/CAM计算机辅助设计钣金管理软件解决方案等，确立了市场的领导地位。 配件采用：欧洲专用数控系统，欧洲光学尺和日本伺服电机，进口的专业刀具和模具等。主要用于电气通讯、五金制造、建筑装饰、电器制造、电梯客车等行业，与欧美先进的技术和质量同步，已成为香港及中国钣金机械制造业的行内先驱。目前销售遍布欧美，东南亚等国家。

本公司荣获ISO9001：2008国际质量管理体系认证，国家质检总局对本公司出口机电产品质量许可证考核，并鉴定为优等及第一等产品类别，荣获中国进出口质量认证中心CQC质量管理体系认证。

LFK香港梁发记机械集团公司其下3间下属公司，已发展成为集科研、开发、生产、销售以及服务于一体的高新科技企业。1992年自置30000平方米厂房，成立了东莞华辉数控机床有限公司，在位于交通便利的广东省东莞市清溪镇。2008年2月自置70000多平方米厂房，成立了信宜华辉数控机床有限公司。 2014年11月自置10000多平方米厂房，成立了信宜协华精密钣金有限公司。现共有600多名人员。在管理方面采用全电脑的管理体系。具有先进的技术、优良的品质、优质的服务、赢得了广大客户的赞誉。

LFK Machinery Co., Ltd, was founded in the early sixties in Hong Kong, we are specializing in the production of sheet metal machineries. LFK brand machineries as: Laser cutting machine, CNC Turret Punch Press, CNC Press Brake, CNC Shearing machine, CNC V-Cut machine and so on. We adopt the international standards in Mechanical and hydraulic components, and adopt the advanced CAD/CAM computer aided design of sheet metal management software solutions. Therefore, We established a leading position in the market.

LFK Machinery Co., Ltd, was founded in the early sixties in Hong Kong, we are specializing in the production of sheet metal machineries. LFK brand machineries as: Laser cutting machine, CNC Turret Punch Press, CNC Press Brake, CNC Shearing machine, CNC V-Cut machine and so on. We adopt the international standards in Mechanical and hydraulic components, and adopt the advanced CAD/CAM computer aided design of sheet metal management software solutions. Therefore, We established a leading position in the market.

We are granted the ISO9001: 2008 international quality management certification. We are success in getting the export of electromechanical products quality license assessment from the General Administration of Quality Supervision, Inspection and Quarantine Bureaus and classified as superior and first-class products. We also achieve the China import and export quality certification center CQC quality management certification.

公司简介 Company Introduction

信宜华辉数控机床有限公司 Xinyi Huahui CNC Machinery Co.,Ltd.

华辉集团 LFK Machinery Group

一万年太久,只争朝夕。LFK一个永远开拓的先驱者。在钣金机器数控化程度受到高度重视的今天，我们能为尊敬的用户做些什么？因为这个问题，我们不断探索变革不断投入资源。作为全国唯一全面开发制造金属板材加工设备的领先企业，LFK带给用户的是高精数控设备加工的全新体验。当你为了降低生产成本向LFK寻求支持，你将得到一套提高性能的定制解决方案和持续的增值服务，这是欧美企业无法做到的。这证明了，优越的性价比和全方位的售后服务使LFK的全线钣金机械比国外同类产品更受国内用户的欢迎。未来LFK将继续以提高产品技术含量和附加值为突破口，摆脱市场无序竞争，走向可持续发展道路，把我们的理念、技术、服务带给相信我们的用户，帮助他们在自己的领域上脱颖而出，实现双赢。

未来展望
Future Prospect

The new century is full of competitions.LFK has developed an impressive image of high performance products in the sheet metal working industry. With the fast emergence of the automation in the sheet metal working industry today.We always ask ourselves "What is the tactic to care about the changes?"To find the answer,we keep technological innovation and resources optimizing. We are dedicated to invent more superior high-end CNC sheet metal working machinery.In addition,we can offer comprehensive customize,performance-based solutions and continuous after sales services,which the competitors abroad is not in a position to satisfy.Strategic speaking,LFK is your single and indispensable partner in the sheet metal working industry here.In future,we will keep our mission to enhance and improve our existing products while developing the new ones which will bring satisfaction to our faithful customers and succession to our dealers.The total solution strategy and comprehensive value-added service is significant to isolate ourselves from the impervious market competition.Furthermore,we will convey our business concept,technology innovation and service expertise to our respective customers,in achieving their full potential in the whole sector of sheet metal working industry with mutual trust and benefit.

装配车间
Assembly Workshop

一流的设备需要合理规范的运作模式。一直以来，我们一系统的运营观念来集成管理，从提高整个系统效率指导单项生产的进行，保证各生产要素取得平衡，使整个生产装配工序连续有效的衔接来完成产出。

The first class equipments should work together with the scientific and prescriptive operation mode.We always endeavor to integrate all process into a management system,to improve the efficiency of the whole system and to supervise each process of production.Only to achieve the balance in all production factors,the assembly process will work in harmony with other process effectively.

生产设备
Production Facilities

一流的设计技术需要一流的加工工艺来确保制造出可以信赖的高质量的钣金设备。我们引进一批外国进口的精密工作母机，包括大型落地镗铣床、龙门型、立式及卧式加工中心、数控车床、数控火焰切割机、精密大型平面、外圆及导轨磨床等。同时我们拥有振动时效、高周波热处理及红外线测量仪等关键检测设备，保证了产品加工精度和装配质量。

Our factory is equipped with imported and high-end production equipment,including large moving column milling and boring machine,gontry,vertical & horizontal machining centre,CNC oxy cutting machine,CNC lathe,big surface,cylindrical and dovetail grinding machine,vibration and high frequency heat treat equipment and high precision infrared measuring equipment.By and large,the first class design and the perfect machining techniques enable us to offer excellent products with high reliability and productivity.

Nicolás Correa 、Awea 等大型加工中心，有效完成设备机架的整体加工，这样极大地提高了加工精度和装配精度。而整体高精加工的机架具有足够刚性，来保证以高标准的质量控制体系，满足了广大客户的需求。

Our Nicolas Correa, Awea & other large CNC machining centers, can machining the large frames in one stop process that can make our whole large machine frames in more accuracy, that enhance our machines assembling in more efficient & precision amount our competitors. Therefore, it meets the high requirement of our customers.

光纤激光切割机
Fiber Laser Cutting Machine

敞开式 Open Type

技术参数 Technical Specifications

参数名称 Technical Specifications		单位/Unit	FLC500	FLC700
切割板材厚度 Cutting thickness	铁 MS	mm	6	8
	不锈钢 SS	mm	3	4
定位精度	Cutting Accuracy	mm	±0.03	±0.03
最大定位速度	Max. positioning speed	mm	100	100
最大加速度	Max. acceleration	G	1. 5	1.5
X轴行程	X axis track	mm	1500	1500
Y轴行程	Y axis track	mm	3000	3000
Z轴行程	Z axis track	mm	100	100
激光器功率	Laser Power	W	500	700
工作台最大载重	Max load of worktable	kg	250	250
机床重量	Machine Weight	kg	4500	4500
外形尺寸	Dimension（W×D×H）	mm	4500×4500×1650	4500×4500×1650

注：规格如有任何升级或改动，恕不另行通知。
N.B.Subject to changes without prior notice.

产品介绍 Product

包围式带自动交换台 Automatic Interchange Able Units With Bracketing

技术参数 Technical Specifications

参数名称 Technical Specifications		单位/Unit	FLC1000	FLC2000	FLC3000	FLC4000
切割板材厚度 Cutting thickness	铁 MS	mm	10	16	20	22
	不锈钢 SS	mm	5	8	10	14
定位精度	Cutting Accuracy	mm	±0.03	±0.03	±0.03	±0.03
最大定位速度	Max. positioning speed	mm	100	100	100	100
最大加速度	Max. acceleration	G	2	2	2	2
X轴行程	X axis track	mm	1500	1500	1500	1500
Y轴行程	Y axis track	mm	3000	3000	3000	3000
Z轴行程	Z axis track	mm	100	100	100	100
激光器功率	Laser Power	W	1000	2000	3000	4000
工作台最大载重	Max load of worktable	kg	500	800	1000	1200
机床重量	Machine Weight	kg	5500	9500	9500	9500
外形尺寸	Dimension（W×D×H）	mm	9400×4500×2200			

注：规格如有任何升级或改动，恕不另行通知。
N.B.Subject to changes without prior notice.

光纤激光切割系统 Cutting Systems

* 可提供电容式切割头高度感应自动调节
* 光纤系统带温控保护
* 有10 mm 镜片焦距范围调节
* 切割头护盖设计方便装拆
* 灵活优化的光斑调节
* 顺畅的辅助气体管道
* 紧凑及轻巧的结构

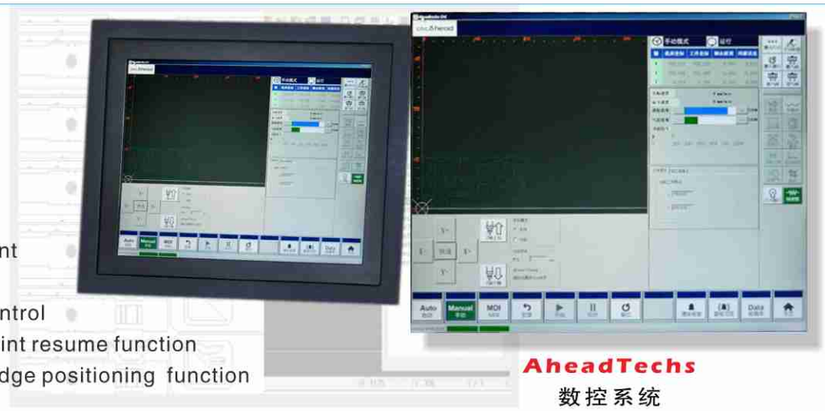
* Available with and without capacitive height sensing
* Temperature sensors protect optics and minimize the chance of overheating
* 10 mm of lens movement to set focus
* Quick and easy access to the cover glass
* Flexible design to optimize spot size
* Smooth assist gas flow
* Compact, lightweight design

RAYTOOLS
激光切割头

数控系统 CNC Controller

*自 动 调 高 功 能
*软 件 保 护 功 能
*激光能量控制功能
*断点/断电返回功能
*蛙跳/自动巡边功能
*自 适 性 调 节 功 能

*Auto height adjustment
*Software protection
*Laser beam power control
*Sudden shut down point resume function
*Frog jump and Auto edge positioning function



AheadTechs
数控系统

IPG 高级光纤激光发生器 Laser Resonator

光纤输出端自带准直输出头
Fiber laser optic output with self pre-alignment function

* 高质量光束输出
* 高可靠性,使用寿命长
* 紧凑的结构设计
* 高电光转换效率
* 外部计算机控制接口

* High quality laser beam output
* High reliability and durable service life
* High compact construction design
* High power conversion from electricity energy into laser power
* I/O peripheral for PC commuication

产品介绍 Product

冷水机
Cooling device

发振器机柜
oscillator enclosed protective cabinet

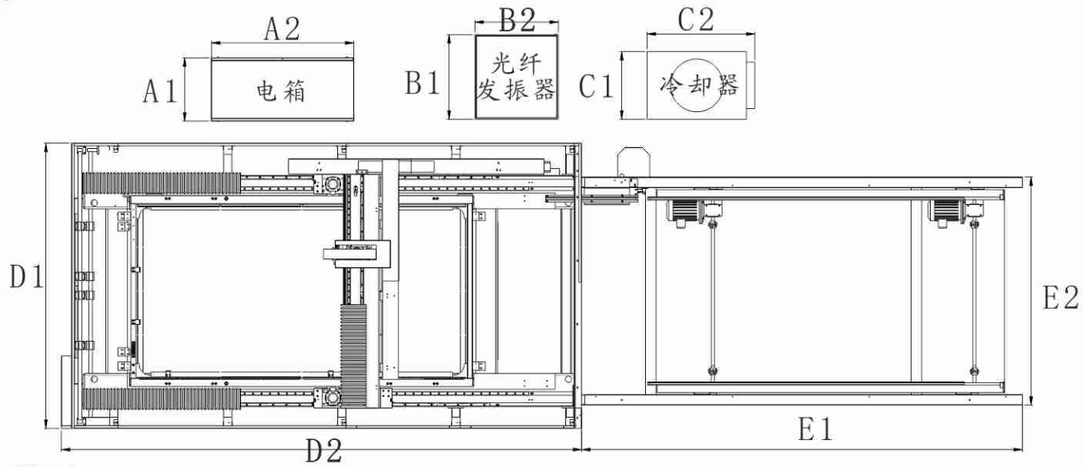
手持式无线遥控器
Wireless Remote Control

空气压缩机
Compressor
(选购option)

IPG
冷水机
Cooling device
(选购option)

集尘机
Precipitator
(选购option)

技术参数 Technical Specifications



单位/Unit：mm

	A1 × A2	B1 × B2	C1 × C2	D1 × D2	E1 × E2
FLC500	600 × 1350	750 × 800	600 × 450	2545 × 4700	——
FLC700	600 × 1350	750 × 800	600 × 450	2545 × 4700	——
FLC1000	600 × 1350	800 × 790	640 × 1020	2720 × 4687	4175 × 2158
FLC2000	600 × 1350	800 × 790	640 × 1020	2720 × 4687	4175 × 2158

数控液压转塔冲床

CNC Hydraulic Turret Punch Press

特点 Characteristics

◎ 配德国液压冲头，工作噪音低
◎ 每套模具可独立设定其上限点、深度下限点及冲程，在模具研磨后毋需垫片，提高工作效率
◎ 在整个冲压过程中恒定冲压力，在不同板厚和不同模具形状都可输出最大额定冲力
◎ 油压过载自动卸压，安全地保护机床及模具

◎ The high precision German hydraulic punching head, with very low impact noise
◎ Each tool can set its own TDC, BDC and punching stroke, thus eliminating manual shimming of the punch, after regrinding
◎ Constant working power independent from the stroke position of the tool, providing greater capabilities in material thickness and hole sizes. Louvers and other forming operations are achieved with greater ease
◎ Intrinsic protection against overload can safely protect the machine and the tooling

产品介绍 Product

技术参数 Technical Specifications

型号 Model	单位 Unit	T3-1212 /T3S-1212	T3-1220 /T3S-1220	T3-1225 /T3S-1225	T3-1520 /T3S-1520	T3-1525 /T3S-1525
公称压力 Punch Force	Ton	30				
工作行程(X轴) X-axis travel	mm	1250	2000	2500	2000	2500
工作行程(Y轴) Y-axis travel	mm	1270	1270	1270	1520	1520
加工精度 Accuracy	mm	±0. 1				
最大加工板材尺寸 Max. Sheet size	mm	1270×2500	1270×4000	1270×5000	1520×4000	1520×5000
X轴速度(1) X traverse axis speed	m/min	110	100	100	100	100
Y轴速度(1) Y traverse axis speed	m/min	90	60	55	55	55
转盘转速(T轴)(1) Turret rotation speed	r/min	30				
冲头滑块最大行程 Max.puch stroke	mm	32				
最大加工板材厚度(2) Max. sheet thickness	mm	6				
板材最大重量 Max. sheet weight	kg	120				
机床外形尺寸（长×宽×高） Dimension（L×W×H）	mm	4890×2720×2100	4890×4160×2100	4890×5200×2100	4890×4200×2150	4890×5200×2150
最高冲击频率(4毫米冲程) Nibbing rates max.（4mm stroke）	HPM	500/900 (T3S系列高速冲头)				
最高冲孔次数(1毫米中心距)(3) Hit rates max.（1mm increment）	HPM	450/680 (T3S系列高速冲头)				
最高冲孔次数(25毫米中心距)(3) Hit rates max.（25mm increment）	HPM	250/300 (T3S系列高速冲头)				
工位数 Number of stations in turret		30				
最大一次冲孔直径 Maximum punch diameter	mm	88.9				
油箱容量 Oil tank capactiy	litre	225				
数控系统 Control system		Fanuc 0*i*-PD				
数控轴数 Controlled axis		4				
供气压力 Compressed air pressure minimum	bar	6				
电源容量 Installed power	kw	30				
机床重量 Machine weight	kg	12000	12500	13000	13500	14000

(1) 机床在静态时的参数。
(1) parameter of machine in static.
(2) X、Y 轴的加减速度依工件的重量而定。
(2) speed of X,Y axes are based on the weight of part to be work.
(3) 以冲头冲程 4 毫米时的数据。
(3) 4mm punch stroke.

注：压力油及稳压器由客户购买
N.B.Voltage stabilizer and hydraulic oil to be bought the users.

注：规格如有任何升级或改动，恕不另行通知。
N.B.Specifications are subject to change without notice.

数控系统 CNC Controller

日本发那科公司0iPD 数控冲床专用系统

Japan FANUC 0iPD CNC Control System

◎显示方式：10.4 " TFT彩色显示
◎数控轴数：5轴（X、Y、T、C及P轴）

◎Display: 10.4" TFT Color display
◎Controlled axis: 5axes(X、Y、T、C、P axis)

全电动伺服转塔冲床

Electric Servo Drive Turret Punching Machine

特点 Characteristics

近年环保节能意识提高,全电式数控转塔冲床渐渐发展成为产业的主流.目前全电动伺服转塔冲床是使用伺服马达作为致动器,无液压油污染及维护费用,具有节能环保、高速、高精度等优势，为用户创造极大的经济效益。

All-electric turret punching machine possesses advantages such as energy saving, high accuracy and clean operation. All-electric turret punching machine is driven by servo motors and therefore, less power is consumed,save cost of hydraulic oil yet without contaminate the environment,and it will provide great advantages to the users of creating more profit and good for our living world.

数控系统 CNC Controller

日本发那科公司0iPD 数控冲床专用系统

Japan FANUC 0iPD CNC Control System

◎显示方式：10.4 " TFT彩色显示
◎数控轴数：5轴（X、Y、T、C及P轴）

◎Display: 10.4" TFT Color display
◎Controlled axis: 5axes(X、Y、T、C、P axis)

产品介绍 Product

——由创新一代伺服马达驱动结构而成

By the innovative servo motor drive structure

以伺服马达控制冲杆行程的工作方式与以往的机械式、液压式相比，属于全新概念的数控式冲孔机。透过对轴速的最佳设定来提高精确度，同时，冲杆采用航太产业材料，以达到轻量化，从而大幅提高了冲打速度及大幅降低冲打音量。这种全新概念驱动结构，真正做到了超低音，高速、高精度。

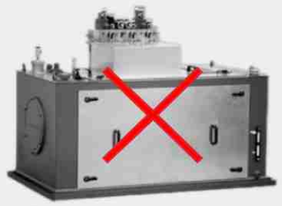
Compared with the traditional mechanical, hydraulic type turret punching press, all electric servo CNC turret punching press, is the new concept CNC punching machine. Through the best setting for the axis speed to improve the precision, and further,more, LFK adopts the aerospace industry materials in the servo punching mechanism, in order to achieve lightweight but stiffness in high rigidity , which significantly improves the punching speed and reduce the punching noise, compared with the traditional punching press.

全电伺服主传动系统

All Electric Servo CNC Turret Punching Mechanism

去除传统液压式，更高效

No hydraulic, more efficient

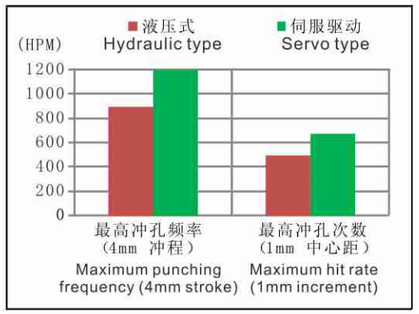


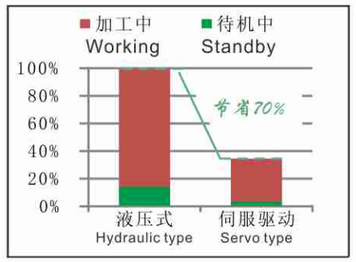
无需液压站，更节能更低音环保

Without hydraulic power station, more energy saving more environmental protection

无需液压油,避免液压油污染,更经济环保

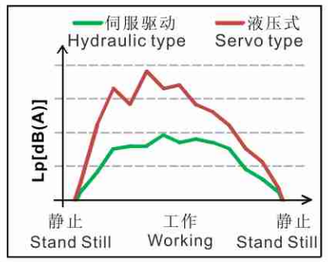
No hydraulic oil, no oil pollution, more economic and environmental protection





耗电量比较

Comparison of power consumption



超低音加工

Reduce the punching noise

* 可移动式控制柜，方便操作者操作，提高工作效率
* 使用日本发那科冲床专用控制系统中文ＬＣＤ接口，独特有加工时间，件数等清楚显示
* 特有前置存储器,可插入大容量记忆卡,方便存送加工程序
* 专有伺服电机冲压轴控制功能:数控系统通过系统功能,实现了冲头的伺服电机化
* 标准支持100Mbps嵌入式以太网

• Movable Control panel can be traversed to any suitable position around machine. Operator can be closer to the working area and can intervene faster to the process.
• It is possible to check diagnostics make remote connection to control system computer through internet.

技术参数 Technical Specifications

型号 Model		单位 Unit	S2-1212	S2-1225	S3-1212	S3-1225
公称压力	Punch Force	Ton	20	20	30	30
工作行程(X轴)	X-axis travel	mm	1250	2500	1250	2500
工作行程(Y轴)	Y-axis travel	mm	1270	1270	1270	1270
加工精度	Accuracy (Tolerance of hole centers)	mm	±0.1	±0.1	±0.1	±0.1
最大加工板材尺寸(一次重定位)	Max. Sheet size (with one repositioning)	mm	1270×2500	1270×5000	1270×2500	1270×5000
X轴速度 (1)	X traverse axis speed	m/min	110	100	110	100
Y轴速度 (1)	Y traverse axis speed	m/min	90	60	90	60
转盘转速(T轴)(1)	Turret rotation speed	r/min	30	30	30	30
冲头滑块最大行程	Max. puch stroke	mm	60	60	60	60
最大加工板材厚度	Max. sheet thickness	mm	4	4	6	6
板材最大重量 (2)	Max. sheet weight	kg	120	120	120	120
最高冲击频率(4毫米冲程)	Nibbing rates max. (4mm stroke)	HPM	1200			
最高冲孔次数(1毫米中心距)(3)	Hit rates max. (1mm increment)	HPM	680			
最高冲孔次数(25毫米中心距)(3)	Hit rates max. (25mm increment)	HPM	320			
工位数	Number of stations in turret		30			
最大一次冲孔直径	Maximum punch diameter	mm	88.9			
重定位置	Automatic repositioning		Yes			
主传动形式	Main transmitting method		全电动伺服马达 Electric Servo			
数控系统	Control system		Fanuc 0i-PD			
数控轴数	Controlled axis		5			
供气压力	Compressed air pressure minimum	bar	6			
电源容量	Installed power	kw	20			
机床重量	Machine weight	kg	11000	13000	11000	13000

(1) 机床在静态时的参数。
(1) parameter of machine in static.
(2) X、Y 轴的加减速度依工件的重量而定。
(2) speed of X,Y axes are based on the weight of part to be work.
(3) 以冲头冲程 5 毫米时的数据。
(3) 5mm punch stroke.
注：规格如有任何升级或改动，恕不另行通知。
N.B.Specifications are subject to change without notice.

产品介绍 Product

高精密元件 High Precision Components

* 夹料滑架 Sheet carriage

夹料滑架由交流伺服电机及高速滚珠丝杆直接驱动，保证高速度移动

The carriage slides by means of preloaded ball screw and high precision linear guide way.The carriage adopts high rigid rectangular pipe structure for long lasting stability and high loading capacity ensuring high positioning accuracy at high speed

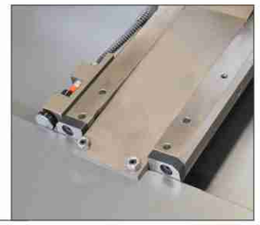
* 气动夹钳 Sheet clamps

特有浮动式夹钳设计，精度高、耐用，可上下浮动配合不同平直度的板材。

Extended pneumatic clamps adopt up-down floating construction,suited for different station height to eliminate plates' deformation.

夹钳有感应板材系统，防止脱料导致的错误冲打。

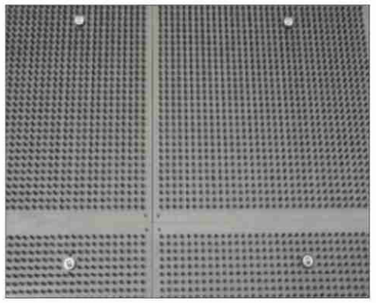
The clamps are fitted into the dovetail slide for easy movement and have high capacity to bear the load.



* 混合工作台 worktable

固定硬质尼龙刷与钢球混合工作台，减少划伤工件表面

The worktable with hard brushes and ball transfers. The brushes makes it possible to achieve low noise emission and protect the sheet against scratch.



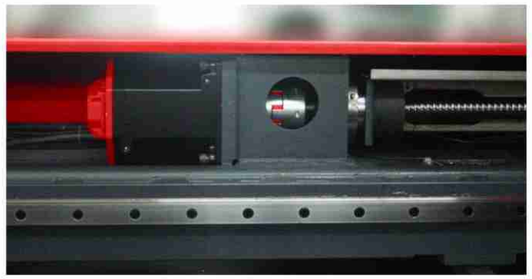
板材弯曲感应装置
有效地防止了板材
弯曲所导致的错误冲打

Sheet curing deformation protection device in order to protect the machine from demage of punching a over curved sheet.

转盘后插销气缸,
采用德国品牌

Adopt Germany Cylinder for turret positioning pin.

X 轴 Y 轴的驱动及设计 The Design for X Axes & Y Axes



* X 轴伺服电机马达 Servo motor

X轴伺服电机马达采用直驱设计,可高速精确运行。
Direct drive design of X-axis servo motor use , can work with high speed and precision

* Y 轴的驱动及设计
The Driving & Design for Y Axes

Y轴采用德国品牌滚珠丝杆和导轨；
Y轴上置式设计，避免废料掉落损坏丝杆，保养简易。

All Y axes are adopt Germany ball screw and rail. Y axis ball screw is in upper position against metal scrap wearing.

转盘 Thick turrets

转盘采用高强度铸铁，所有工位均镶上耐磨精钢导套。
The tool holding turrets are made of high grade cast iron. All stations in the turret are fitted with special sleeves which guarantee long lasting perfect co-axiality between punches and dies.

转塔设计 Turret design

采用厚转塔双圈式设计，使用标准模具，导向性更高
Double-Track thick turret is good for standard toolings and high precision of tool guidance.

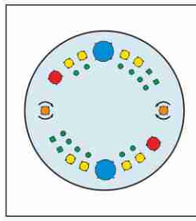
分度工位 Auto-Index station

两个独立分度旋转工位，可更灵活的使模具冲切不同角度的复杂形状工件

The indexing device can rotate different angles of the punch and die to fit the machining demand of complex parts and greatly reduce the amount of tooling and shorten the machining time

产品介绍 Product

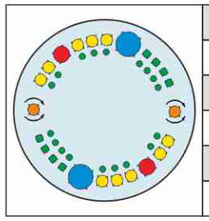
30工位转盘排列 Turret configuration(30Stations)



转盘工位排列 Turret Configuration			
模具分档 Tool Configuration	工位数 No.	分度工位 AI	尺寸范围 Sizes
A	16 (4)		Ø1.6~12.7mm
B	8 (8)	2 (2)	Ø12.8~31.7mm
C	2 (2)		Ø31.8~50.8mm
D	2 (2)		Ø50.9~88.9mm

( ) 带定位销之数目 ( ) keyed stations

42工位转盘排列 Turret configuration(42Stations)



转盘工位排列 Turret Configuration			
模具分档 Tool Configuration	工位数 No.	分度工位 AI	尺寸范围 Sizes
A	26 (8)		Ø1.6~12.7mm
B	10 (10)	2 (2)	Ø12.8~31.7mm
C	2 (2)		Ø31.8~50.8mm
D	2 (2)		Ø50.9~88.9mm

( ) 带定位销之数目 ( ) keyed stations

厚转塔型模具 Thick turret tooling

ABCD工位的模具结构简单，组成部分少,保证了高精度且容易管理，使模具成本大为减少

- Machine is designed to work "Thick Turret" Type cutting and forming tools
- It is possible to use all kind of forming tools, Wheel, Rollerball, Scribe and Marking tools.

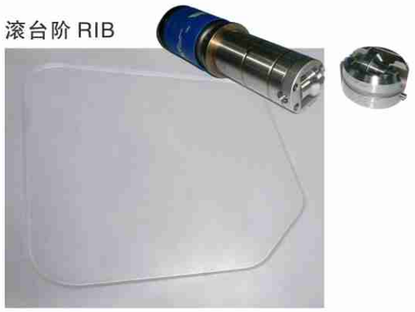
可选购多种特殊成形模具做特殊工件 Turret Tooling(Option)

凸字型 MARKING

百叶窗 LOUVER

翻边 EXTRUSION

滚台阶 RIB



滚剪

画线 NIBBLING

电液伺服数控折弯机

CNC Synchronize Hydraulic Press Brake

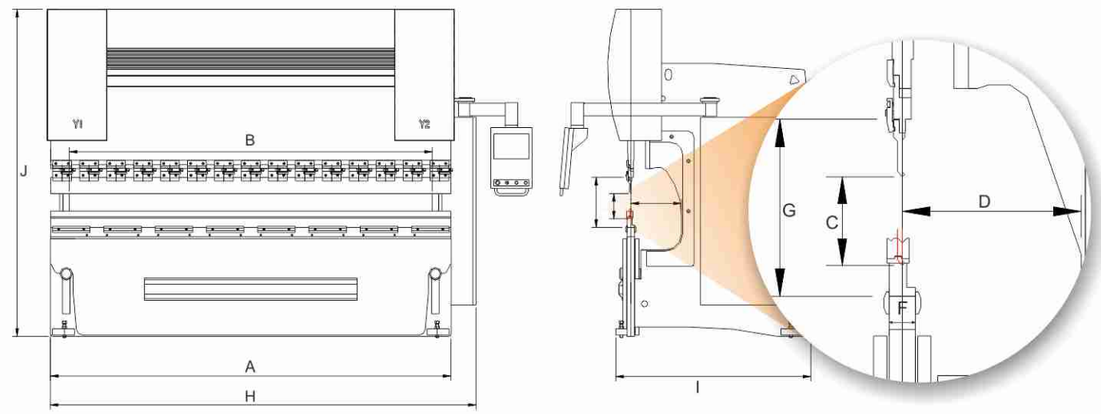
特点 Characteristics

◎ 本机机架采用钢板焊接而成，经过振动时效消除内应力，防止机身变形
◎ 伺服比例阀发出的流量和电子尺的讯号反馈结合；控制滑块（Y1、Y2）同步运行
◎ 滑块下死点重复精度为0.01mm，折弯角度为0.5°
◎ 滑块快慢速转换点及上限位停靠点通过光栅尺反馈电脑调整

◎ Full welded steel frame, stress relieved by vibration process
◎ The parallelism of the ram (Y1, Y2) achieved with the use of advanced proportional valve control and the signal feedback by the linear scales
◎ Synchronization of Y1 and Y2 axis is within 0.01mm, the bending angel is 0.5°
◎ Adjustable speed change over point and the TDC is depend on the feedback of the position of the linear scales

产品介绍 Product

技术参数 Technical Specifications



型号 Model		单位 Unit	NCP 50-20	NCP 100-32	NCP 160-32	NCP 160-40	NCP 250-40	NCP 300-40	NCP 300-60	NCP 400-60	NCP 500-60	NCP 1200-80
公称压力	Bending Power	Ton	50	100	160	160	250	300	300	400	500	1200
工作台长度	Table Length (A)	mm	2000	3200	3200	4000	4000	4000	6100	6000	6000	8000
立柱间距离	Distance Between Housings (B)	mm	1710	2900	2880	3500	3560	3500	5250	5000	5000	6200
滑块行程	Ram Stroke (C)	mm	180	200	200	200	250	300	300	300	300	400
喉口深度	Throat Depth (D)	mm	300	400	400	400	400	400	400	400	500	600
工作台宽度	Table Width (F)	mm	60/200	60/200	60/200	60/200	85/200	85/250	85/250	300	350	600
开口高度(1)	Daylight Opening (G)	mm	370	400	400	400	450	600	600	600	600	700
外型尺寸（宽）	Dimension(Width) (H)	mm	2200	3400	3450	4200	4210	4000	6100	6000	6000	8000
外型尺寸（深）	Dimension(Depth) (I)	mm	1240	1500	1560	1550	2150	2140	2130	2180	2200	2500
外型尺寸（高）	Dimension(Height) (J)	mm	2400	2610	2690	2750	3170	3200	3300	3430	4380	4225
滑块（空载）速度:	Y Rapid Speed	mm/s	180	160	120	120	100	80	80	70	70	50
滑块（工作）速度:	Y Working Speed	mm/s	10	10	10	10	8	8	8	7	7	5
滑块（回程）速度:	Y Return Speed	mm/s	180	120	100	100	80	60	60	70	63	45
主电机功率	Main Motor	kw	4	7.5	11	11	15	18.5	18.5	22	30	45
油箱容量	Oil Capcity	lt.	150	300	350	350	400	600	600	700	800	1200
机器重量	Weight (Approx.)	kg	4300	8100	10500	12000	17500	19000	27500	45000	47000	120000

注：(1) 工作台与滑块最大距离 Max.distance between ram and work table
规格如有变动，恕不另行通知 Design and specifications are subject to change without notice

双电伺服混合动力折弯机

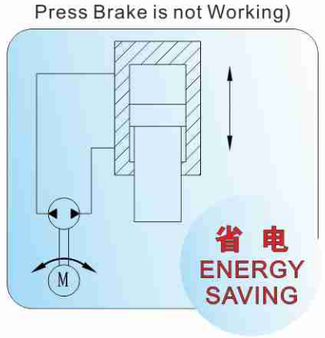
Twin Electric-Servo Hydrid CNC Press Brake

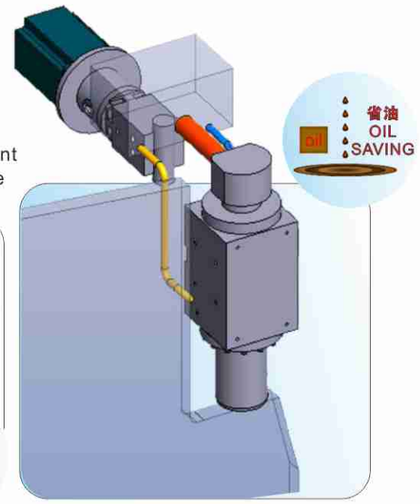
特点 Characteristics

*双伺服电机驱动，高精度
*高速快下及回升速度
*节约能源，环保
*超低热能损耗
*节省压力油,节省电能
*静止状态时，耗电极少，宁静

*Twin Servo Motor Drive,High Precision.
*High Rapid Approach & Return Speed.
*Energy Saving and Environmental Friendly.
*Extremely Low Heat Dissipation.
*Cost Saving for Electricity & Hydraulic Oil.
*Extremely Low Electricity Consumption & Noise when the Press Brake is Stop.

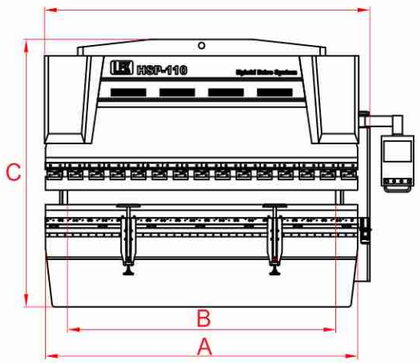
双向伺服马达原理
（待机时，没有动作，节能）
Bi-Direction Servo Motor Movement
(Motors are Totally Stop,when the Press Brake is not Working)

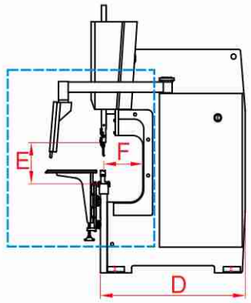


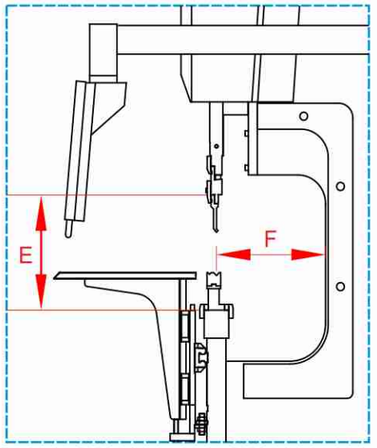


产品介绍 Product

技术参数 Technical Specifications







型号Model		HSP110-32	HSP170-32	HSP170-40	HSP220-40
折弯力	Tonnage	110ton	170ton	170ton	220ton
最大折弯长度	Maximum Bend Length	3200mm	3200mm	4100mm	4100mm
立柱间距离	Distance Between Frames[B]	2750mm	2750mm	3500mm	3500mm
滑块行程	Stroke Length	200mm	250mm	250mm	250mm
开口高度	Open Heigth[E]	400mm	450mm	450mm	450mm
喉口深度	Throat Depth[F]	400mm	400mm	400mm	400mm
工作高台度	Table Height	870mm	940mm	940mm	940mm
快下速度	Approach Speed	240mm/s	200mm/s	200mm/s	160mm/s
折弯速度	Bending Speed	15mm/s	14mm/s	14mm/s	12mm/s
回升速度	Return Speed	220mm/s	200mm/s	200mm/s	160mm/s
油箱容量	Oil Capacity	80L	130L	130L	150L
机身长度	Machine Lengeh[A]	3200mm	3200mm	4100mm	4100mm
机身宽度	Machine Width[D]	1485mm	1600mm	1600mm	1650mm
机身高度	Machine Height[C]	2610mm	2815mm	2815mm	2865mm
重量	Approximate Weight	8100kg	11000kg	12000kg	13000kg
主电机功率	Motor power	4.5kw×2	5.5kw×2	5.5kw×2	7.5kw×2
后管位行程	Backgauge Range	600mm	600mm	600mm	600mm
后管位垂直行程	Backgauge Vertical Range	±75mm	±100mm	±100mm	±100mm
滑块重复精度	Ram Repeatability	±0.01mm	±0.01mm	±0.01mm	±0.01mm
后管位重复精度	Backgauge Repeatabiliy	±0.01mm	±0.01mm	±0.01mm	±0.01mm

注：规格如有任何升级或改动，恕不另行通知。
N.B.Specifications are subject to change without notice.

应用 Application Fields

LFK折弯机简洁的外观、实用高效、稳定可靠、高性价比、低故障率。

LFK折弯机是对金属板材进行折弯加工的自动化设备，可配合不同的模具完成复杂零件的编程和折弯加工成型。

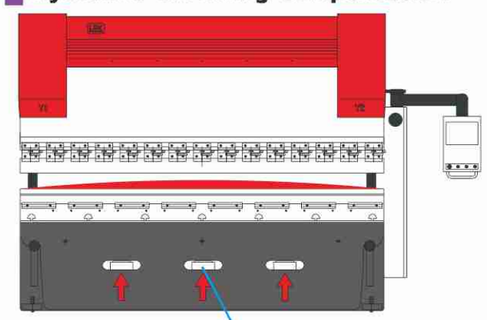
广泛应用于：电气电柜设备、灯饰五金、汽车、家电、工程机械、专业钣金等各类机械加工行业。

LFK CNC hydraulic press brake machine inherited European design ideas,appearance,practical and efficient,reliable,high performance-price ratio and low failure rate.

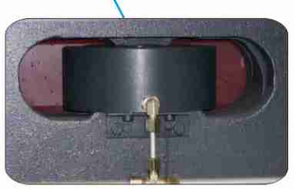
LFK Machinery is an automated equipment for bending sheet metal, which can be used to complete the programming and bending of complex parts with different molds.

Widely used in sheet metal processing,metalware,kitchen appliance,high-resolute device,electric control box,auto parts,posters,crafts and lighting.

液压式挠度补偿
Hydraulic Crowning Compensation

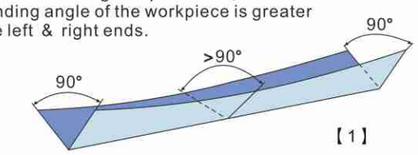


补偿油缸
Hydraulic Crowning Cylinder



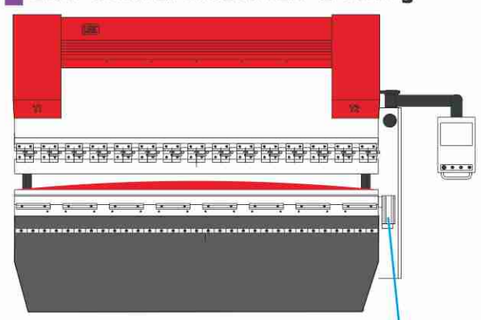
【1】当无挠度补偿机构时，折弯工件中间部分角度大于左右两端角度。

Without the crowning compensation, the middle part bending angle of the workpiece is greater than the left & right ends.



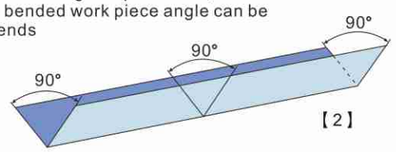
【1】

机械式挠度补偿
CNC Control Motorized Crowing



【2】配挠度补偿机构后折弯工作在其全长方向上的角度及直线度均匀一致。

Equipped with the Crowing compensation, the middle of the bended work piece angle can be the same of two ends



【2】

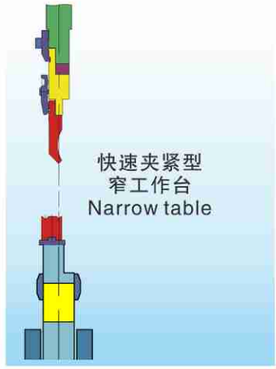
上刀夹紧方式 Upper Tool Clamping System

传统刀夹（标配）
Traditional tool-holder (standard)

精密快速推拉夹紧型（标配）
Quick Clamp(standard)

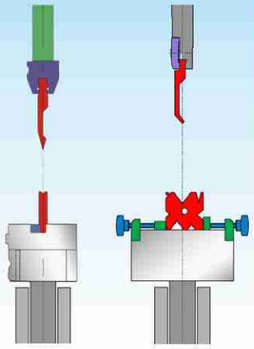
液压锁刀（选购件）
Hydraulic Clamping(option)

欧洲进口气动锁刀（选购件）
European imports of Pneumatic Clamping(option)



快速夹紧型
窄工作台
Narrow table

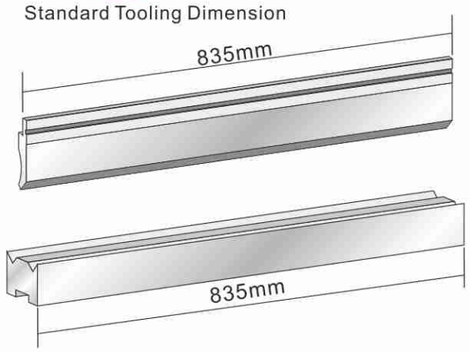
直接夹紧型
宽工作台(选配)
Wide bench(option)

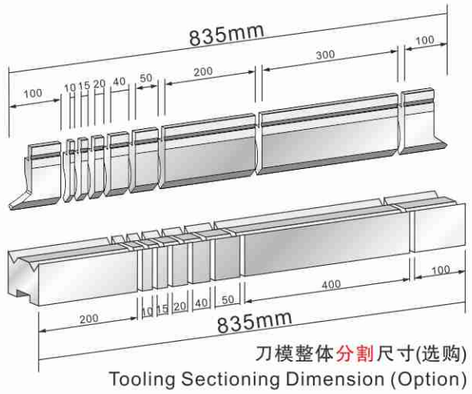


(I) (II)

刀具选购 Tooling Selection

标准刀模整体尺寸
Standard Tooling Dimension





刀模整体分割尺寸(选购)
Tooling Sectioning Dimension (Option)

瑞士数控系统 CYBELEC CNC Controller

CYBELEC CybTouch12

◎页面简结,显示清析,大尺寸高对比度触摸屏。
◎USB接口,方便传送参数及折弯程序。
◎使用电脑,可进行无线互联,升极软件和备份数据。
◎标配轴数：Y1 ·Y2·X· R 液压中央补偿。
◎2D图形显示，手动模拟折弯程序。
◎"EasyBend"页面轻松单次折弯功能。

◎Controls 4 axes.
◎Offline 2D software available.
◎Easy single bends with EasyBend page.
◎2D Touch Profile manual bend sequencing.
◎Angle, pressure and crowning management.
◎USB port for memory stick for data transfer/backup.

ModEva 19T

◎19"彩色液晶触摸屏，让编程更高效直观。
◎可控制18个轴。
◎2D或3D图形编程和模拟功能。
◎随机自带离线编程软件PC-ModEva。
◎通过简单快速地修改现有产品和功能齐全的校正页面，提高了生产率。
◎根据碰撞检测、模具定义、板料位置，多重模拟功能提供多种折弯解决方案。

◎Large 19" color TouchScreen.
◎Can control up to 18 axes.
◎Complete programming of a part on a single page.
◎2D or 3D graphic programming and simulation capability.
◎Delivered with off-line PC-ModEva software to prepare production programs and check the feasibility of parts on a desktop computer.

意大利数控系统 ESA CNC Controller

ESA S630

◎10.1英寸全触摸屏，大屏幕可一页式编程页面。
◎标准可控制4+1轴。
◎提供7000个程序存储量及2000个模具存储量。
◎可以对上死点、变速点、夹紧点进行修正。
◎自动压力计算以及工作台补偿计算。
◎同时支持直接角度数值、图形编程及直接进行角度校正。

◎10" touch screen panel.
◎Standard 4 axes.
◎High-level graphic programming for esiness of use.
◎Sophisticated algorithms to make the most of your machine.

ESA S640

◎清晰的15寸全触摸彩色TFT屏。
◎标准配置可控制 4 + 1 轴,最多6轴。
◎同时支持直接角度数值、图形编程，并且可以直接进行角度校正。
◎可以对上死点、变速点、夹紧点进行修正。
◎自动压力计算以及工作台补偿计算。
◎单页式编程页面，并可以切换显示到大字体页面显示。

◎15" touch screen panel.
◎Standard 4 axes,up to 6 axes control
◎2D graphic display of machine frame,work-piece and tools.
◎Interactive 2D graphic editor for work-pieces and tools data entry.

荷兰数控系统 DELEM CNC Controller

DELEM DA-53T

● 10.1" LCD TFT真彩显示；
● "快捷键"触摸导航；
● 最多4轴控制；
● 挠度补偿控制；
● USB外接口。
● Profile-53TL离线编程软件

● 10.1" LCD TFT colour display.
● "Hot-key" touch navigation.
● Up to 4 axes.
● Crowning control.
● USB flash memory drive.
● Profile-53TL offline software.

DELEM DA-58T

● 15" 高分辨率TFT真彩显示；
● 提供产品折弯工序模拟；
● 2D触摸式图形编程包含折弯工序的自动计算和碰撞检测；
● 通过快捷方便的编程到生产的工序，降低测试折弯时间；
● USB外设接口。

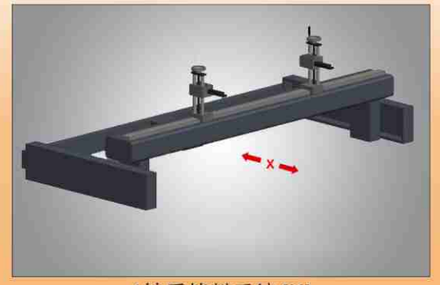
● 15" TFT, high brightness.
● 2D touch screen programming.
● Bend sequence calculation.
● Crowning control.
● USB flash memory drive.
● Including automatic bend sequence calculation and collision detection.

DELEM DA-66T

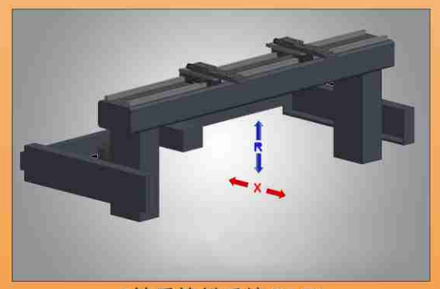
●LCD 液晶显示屏
●17" 高分辨率TFT真彩显示
●触摸式图形编程
●角度检测传感器接口
●3D产品图形模拟显示
●多任务环境下用户程序应用
●USB外设接口

● Colour LCD display
● 17" TFT, high brightness
● 1280 x 1024 pixels, 32 bit colour
● Full touch screen control (IR-touch)
● 3D graphics acceleration
● Emergency switch
● USB flash memory drive

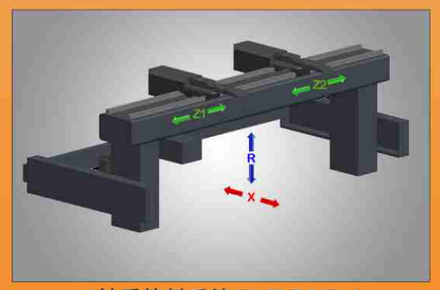
后挡料系统 Back Gauge System



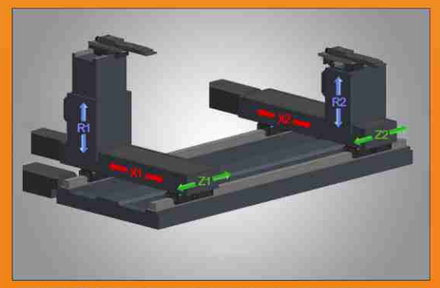
1轴后挡料系统 [X]
1 axis back gauge system [X]



2轴后挡料系统 [X,R]
2 axes back gauge system [X,R]

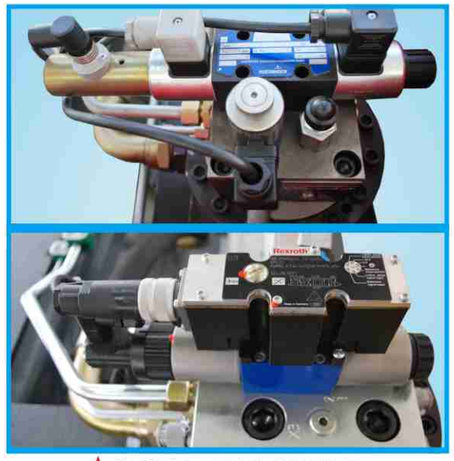


4轴后挡料系统 [X,R,Z1,Z2]
4 axes back gauge system[X,R,Z1,Z2]



6轴后挡料系统 [X1,X2,R1,R2,Z1,Z2]
6 axes back gauge system
[X1,X2,R1,R2,Z1,Z2]

高精密元件 High Precision Components



欧洲进口电液比例流量阀
European hydraulic components

采用欧洲进口光栅尺
2 European Linear Scales are installed onto the Ram

采用德国高精度滚珠丝杆和线性导轨
X, R Axes with Germany Ball Screw & Linear Guide Way

变频式伺服油泵（选购）
Variable Frequency Servo Pump Pressbrake(option)

手动快速调节滑动挡指
Manual Back Gauge Fingers

Z1，Z2 伺服控制挡指（选配）
Z1, Z2 Auto-Fingers Moving on the Back Gauge (Option)

前托料辅助系统 Auxiliary system

滑动式前托料架:
沿直线导轨移动，可任意位置停靠，辅助折弯工作，提高工作效率。
Moveable front support system, to help you to bend, make a comfortable and efficient working

伺服数控随动前托料架AP750(选购):
辅助折弯随动前托料，为折弯精度提供辅助保障及提高加工效率。
AP750 Front auto follower support (Option):
Processing efficiency and the bending accuracy.

大型折弯机 Other Types of Press Brake

NCP600-70

NCP800-70

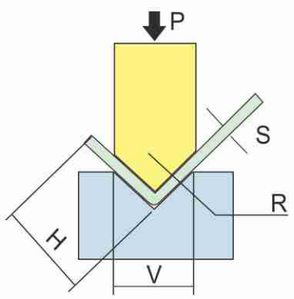
双机联动定制机 LFK PRESS BRAKE CUSTOM MADE PROJECTS

NCP250-61 双机联动
LFK NCP250-61 Tandem

NCP100-32 双机联动
LFK NCP1000-32 Tandem

压力计算表 Bending Chart

V	H min	R	0.5	0.8	1	1.2	1.5	1.8	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10	12	15	18	20
6	5	1	2.5	6.5	10																			
8	6	1.3	2	5	8	11																		
10	7	1.7	1.5	4	6	9	13																	
12	9	2		3	5	7	11	16																
15	12	2.7			4	6	9	13	16															
20	15	3.3				4	7	10	12	19														
26	18	4.2					5	7.5	9	14	21													
30	22	5						6.5	8	12	19	24												
32	23	5.4							7.5	11.6	17	23	30											
37	25	5.8								10	14.5	20	26	33										
42	29	6.7									13	17	23	29	35.5									
45	32	7.5										16	21	27	33	48								
50	36	8.3											19	24	30	43	58							
60	43	10												20	25	36	49	64						
70	50	11.5													21	31	42	55	69					
80	57	13.5														27	37	48	60	75				
90	64	15															32	42	54	66	95			
100	71	17																38	48	60	86	134		
130	93	22																	37	46	66	103	149	
180	130	30																		33	48	75	107	133
200	145	33																			43	67	97	119
250	180	42																				54	77	95



$$P = \frac{1{,}42 \times \nabla \times S^2 \times L}{1000\ V}\ (\text{Ton})$$

P=加工压力（吨）
∇=抗拉强度=42kg/mm²
S=板材厚度（mm）
L=板材长度=1000（mm）

V=底模V槽尺寸（mm）
R=内半径
H=板材最少脚长(mm)

P=Capcity(Ton)
∇=Tensile strength=42kg/mm²
S=Sheet thickness(mm)
L=Sheet length=1000(mm)

V=Die opening(mm)
R=Internal radius
H=Min.sheet bending length(mm)

数控液压闸式剪板机

CNC Hydraulic Guillotine Shear

特点 Characteristics

◎ 整机采用Q345钢板焊接，再由加工中心一次加工成形，经过振动时效消除内应力，机身刚性更强。

◎ 机身、工作台加宽，增加几何三角力量，稳定性增强。

◎ 采用外置弹簧压料缸，耐用性和压料稳定性增加。

◎ 主电机液压泵及油箱，位于机床后下方，整体外观加强，易于散热，维护。

◎ Machine frame fully welded with Q345 steel.Shape by machining center one time.Stress relieved by vibration process.Machine frame have mote rigidness

◎ Widen machine frame and working table.Enhance Geometry triangle power.Stability have been enhanced.

◎ Hold down cylinder adopt outernal spring.Durability and stability have been enhanced.

◎ Main motor with hydraulic pump and oil tank.Installed at back bottom of the machine.Enhance the overall appearance.Easy to cool and service.

剪板机专用数控系统 CNC Controller

ELGO P40T

◎ 可控制 3 轴
◎ 直观TFT触摸屏操作
◎ 彩色大屏幕
◎ 完全控制整个剪切过程
◎ 高效、自动的功能
◎ 颜色搭配可自定义
◎ 性价比极高

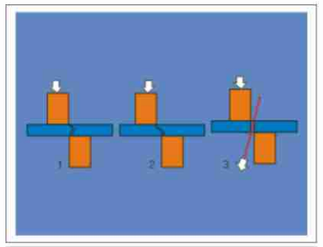
◎Control axes: 3
◎TFT–Display with touch operation
◎Manual function
◎Single set operation
◎Program memory
◎Analog outputs
◎Cut automat
◎Material depending gap, angle and pressure calculation

CybTouch6 of CYBELEC Switzerland(Option)

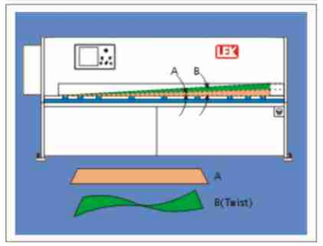
◎大型彩色触摸屏的直观编程。
◎EasyCut 页面，快速完成简单剪切。
◎依据材料规格剪切功能自动计算。
◎剪切程序存储丰富。
◎自动调整刀片间隙/剪切角度、长度/后挡料退让、校正

◎Large colour touch screen for an intuitive programming.
◎Quick set up of the machine thanks to the EasyCut page.
◎Automatic calculations of the shear functions upon material specifications.
◎Large cutting sequences and programs can be memorized.
◎Automatic blade gap/cutting angle/cutting length/backgauge correction/backgauge foldaway.

高剪切精度 High Precision



刀片间隙 Blade gap
1.刀片间隙过小时剪切断面的断裂带会被挤坏，剪切力也会增大
For small blade gap, the shearing section of the sheet will be damaged and incur excessive shearing force.
2.刀片间隙过大时条料的弯曲和拉伸严重，毛刺增大，尺寸精度下降
For large blade gap, the cut metal strip will be bend and stretched seriously with rough cutting edge and inaccuracy.
3. 正常间隙
Normal blade gap.



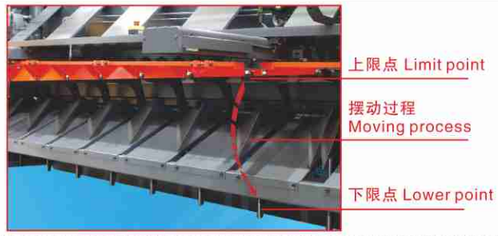
剪切角 Cutting angle
当剪切不同规格的板材时，通过调整剪切斜度，使剪切后的条料扭曲量（Twist）达到理想状态（A）
When cutting different thickness of metal sheet, it will achieve the ideal condition (A) with minimum twist of the metal strip by adjusting different cutting angel.

气动托料系统 Pneumatic Sheet Support System

AP1简易托料系统

只适用机型：
HHS6-32,HHS6-40

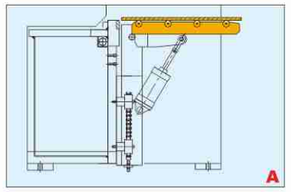
Only apply for models:
HHS6-32,HHS6-40

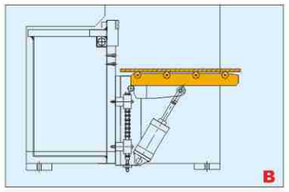


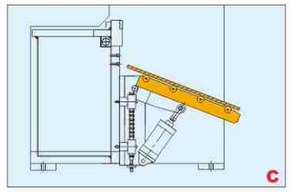
AP2气动托料系统(选购)

只适用机型：
HHS6-32,HHS6-40

Only apply for models:
HHS6-32,HHS6-40







技术参数 Technical Specifications

型号 Model	可剪板厚范围 Cutting Capacity Range		剪切角 Cutting Angle	剪次/分钟 Stroke Per Minute	后挡料最大限位 Max Travel of Back Gauge	压料缸数量 Number of Hold downs	油箱容量 Oil Capacity	主电机功率 Main Motor	机床重量 Weight	机床尺寸 Dimensions		
	普通钢 Mild Steel (45kg/mm²)	不锈钢 Stainless Steel (65kg/mm²)								长 Length	宽 Width	高 Height
HHS	mm	mm	degree	1/min	mm	piece	Litre	kw	kg	mm	mm	mm
6-32	0.5-6	0.5-4	1-2.4°	8-11	800	17	350	11	7500	3970	1790	1900
6-40	0.5-6	0.5-4	1-2.4°	8-10	800	19	400	11	10500	4920	1790	2000
6-60	0.5-6	0.5-4	1-2°	6-8	800	26	500	11	15000	7000	1900	2180
8-32	1-8	1-6	1-2.4°	8-10	800	17	350	15	11000	4060	1790	2000
8-40	1-8	1-6	1-2.4°	8-10	800	19	400	15	12800	4950	1800	2010
8-60	1-8	1-6	1-2°	6-8	800	26	500	15	25000	6945	1900	2100
10-32	1-10	1-6	1-2.5°	8-14	800	17	350	15	11500	4150	2120	2070
10-40	1-10	1-6	1-2.5°	8-10	800	19	400	15	12000	5040	2120	2150
10-60	1-10	1-6	1-2.5°	6-8	800	25	600	18.5	23000	7090	2100	2320
13-40	2-13	2-8	1-2.5°	6-10	1000	19	400	18.5	18700	4950	1900	2150
13-60	2-13	2-8	1-2.4°	4-8	1000	26	600	18.5	31000	7100	2460	2800
16-40	3-16	2-10	1-2.5°	6-10	1000	19	500	18.5	20000	5030	2460	2440
16-60	3-16	2-10	1-2.4°	4-8	1000	26	600	18.5	39000	7300	2540	2700
20-40	4-20	2-13	1-2.5°	6-10	1200	19	800	30	38000	5700	2460	3000
20-60	4-20	2-13	1-2.5°	4-8	1200	26	800	30	58500	7700	2540	3000

规格如有变动，恕不另行通知 Design and specifications are subject to change without notice

数控创槽机

CNC V Cut Machine

NVL系列创槽机
NVL V CUT series —

最厚刨料厚度
(Max Sheet Thickness)：4mm

最小刨边
(Min Sheet Width)：9mm

技术参数 Technical Specifications

参数名称 Technical Specification	单位/Unit	NVL3000	NVL4000	NVL5000	NVL6000
加工板厚度 Sheet Thickness	mm	4	4	4	4
加工板宽度 Sheet Width	mm	9-1200※1650	9-1200※1650	9-1200※1650	9-1200※1650
加工板长度 Sheet Length	mm	3300	4300	5300	6300
X轴伺服电机功率 X Motor-Cutting	kw	5.5	5.5	5.5	5.5
液压压料缸数 No.of Hold Downs Cylinders	pcs	12	15	18	21
工作台离地高度 Height of Work Table	mm	847	847	847	847
油箱容量 Oil Tank Capacity	litre	200	200	200	200
机床外形尺寸（长） Dimension(Length)	mm	5000	5900	6800	7900
机床外形尺寸（宽） Dimension(Width)	mm	2535	2535	2535	2535
机床外形尺寸（高） Dimension(Height)	mm	2150	2150	2150	2300
机床重量 Weight (Approx.)	kg	7700	8700	11000	12700

注:板厚度2mm以下时可加工板宽9mm
注:※为选购加长后挡料行程
N.B.※Option extended back gauge
注：压力油及稳压器由客户购买
N.B.Voltage stabilizer and hydraulic oil to be bought the users.
注：规格如有任何升级或改动，恕不另行通知。
N.B.Specifications are subject to change without notice.

NVL6系列创槽机
NVL6 V CUT series —

最厚刨料厚度
(Max Sheet Thickness)：6mm

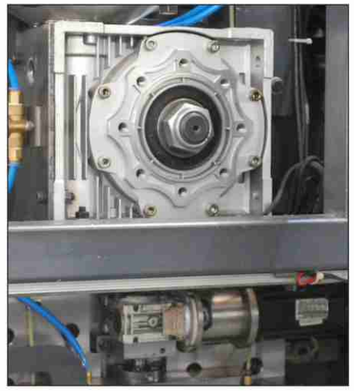
最小刨边
(Min Sheet Width)：10mm

技术参数 Technical Specifications

参数名称 Technical Specification	单位/Unit	NVL 6-3000	NVL 6-4000	NVL 6-5000	NVL 6-6000
加工板厚度 Sheet Thickness	mm	6	6	6	6
加工板宽度 Sheet Width	mm	10-1200※1650	10-1200※1650	10-1200※1650	10-1200※1650
加工板长度 Sheet Length	mm	3300	4300	5300	6300
X轴伺服电机功率 X Motor-Cutting	kw	7.5	7.5	7.5	7.5
液压压料缸数 No.of Hold Downs Cylinders	pcs	12	15	18	21
工作台离地高度 Height of Work Table	mm	847	847	847	847
油箱容量 Oil Tank Capacity	litre	200	200	200	200
机床外形尺寸（长） Dimension(Length)	mm	4900	5900	6900	7900
机床外形尺寸（宽） Dimension(Width)	mm	2535	2535	2535	2535
机床外形尺寸（高） Dimension(Height)	mm	2150	2150	2150	2150
机床重量 Weight (Approx.)	kg	7700	8700	11000	12700

注:板厚度2mm以下时可加工板宽9mm
注:※为选购加长后挡料行程
N.B.※Option extended back gauge
注：压力油及稳压器由客户购买
N.B.Voltage stabilizer and hydraulic oil to be bought the users.
注：规格如有任何升级或改动，恕不另行通知。
N.B.Specifications are subject to change without notice.

特点 Characteristics



◎ 刨槽速度智能编程： 0–80 m/min；

◎ 回程速度：120 m/min；

◎ X轴使用进口高精度齿轮齿条；

◎ Z轴使用进口高精度滚珠丝杆螺帽；

◎ 高精度减速机配上高扭力高速伺服马达传动；

◎ 定位准确，刨槽力度强劲，进刀深度稳定。

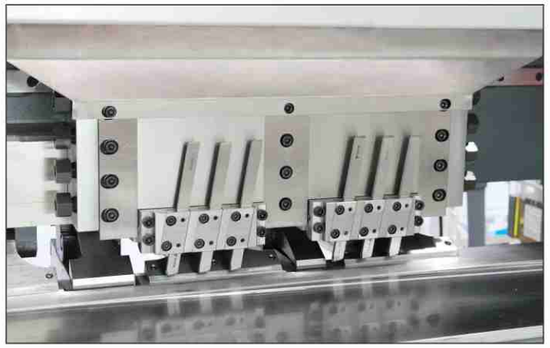
* Cutting speed intelligent program 0-80 m/min;
* Return speed 120 m/min;
* X axis equip with imported high precision rack and pinion;
* Z axis equip with imported high precision ballscrew nut;
* High precision reducer machine equip with high torsion high speed servo motor transmission;
* Accurate Position, strong cutting , stable cutting depth.

刨槽刀架 Tool carriage introduction

高效率切削刀架三把刨刀同时工作
The tool carriage with 3 cutters

从右边开始进刀，完成刨程后高速回程；
可选购4/5/6刨刀配置。

Cutting from right, high speed return after cutting travel;
The tool carriage with 4/5/6 cutters(option).



高效率刨槽双刀架(选购)
Bi–direction cutting tool carriage (Option)

刨槽方式1：双刀架Z1，Z2同时在右边进刀刨槽至左边，完成刨程后从左边高速回程，如此巡回工作；
刨槽方式2：刀架Z2从右边进刀启动刨槽,到达设定刨程后刀架Z1从左边进刀刨槽回程，如此巡回工作。

Cutting type1: cutting carriageZ1,Z2 cut from right to left at the same time, high speed return after cutting travel, cut circularly like this.
Cutting type2: cutting carriage,Z2 cut from right, when Z2 arrive the set position, to left at the same time, high speed return after cutting travel, cut circularly like this cutting carriage,Z1 start cutting from left ,cut circularly like this.

刨槽加工时智能降温，有效保护刀具，增加使用寿命：
在加工不同材料上进行降温选择——1、滴水　2、吹气　3、喷雾

Intelligent cooling, when cutting , protect tools efficiently, extend usage tiem , select different cooling way depend different cutting material ------1.drip 2.blower 3.spray

数控系统 CNC Controller

触摸屏台湾台达编程控制器(DOP–B10S411)
Colorful touch screen to program easily

*配备10.1"彩色宽屏，分辨率为
800*480 TFT面板的人机界面
给用户呈现更加真实清晰丰富的画面
*便利的运算与通讯宏指令
*使用USB快速上下载程序
*在线/离线模拟功能
*记忆卡备份资料及多重保密功能
*Touch screen control panel.
*10.1" Colour screen, 800*480TFT resolution
Fast operation and communication marco
machine codes.
*Fast program upload and download by USB.
*On/off line simulation function.
*Memory card back up and encruption function.

全触摸屏数控系统: 台湾HUST–A6ECH(选购)
Colorful touch screen CNC system:HUST–A6ECH(option)

* 配备17"彩色触摸屏，清晰、简易的操作界面，操作更简单，高效。
* 根据加工方式不同，设计6种编程模式，使工作切换更加灵活，快捷。
* 可进行后台编程，提高工作效率。
* 使用USB接口，快捷上传和下载程序。
* 有4G存储空间，可保存大量程式数据。
* 10.1" Touch screen control panel,simple and efficient.
* 6 kinds of programming mode according to different processing methods to make work switching more flexible and faster.
* Can program background to improved work efficiency.
* Fast program upload and download by USB.
* 4G memory, to save a lot of program data.

液压式板料夹钳
Hydraulic clamping system

液压式独立板料夹钳
Hydraulic independent clamp

有效行程：1200mm
Effective stroke 1200mm

可选购加长后挡料：1650mm
Extended back gauge 1650mm
(Option)