



OIL-ELECTRIC HYBRID CNC PRESS BRAKE 油电混合数控折弯机



高精度、高节能、高效率型折弯机；采用交流伺服驱动器和永磁同步伺服电机；控制内啮合齿轮泵同步；反应更灵敏、精度更高、节能更明显；对于高精密工件进行快速加工；选用 DA66T、DA69T 数控系统。

HDE SERIES OIL-ELECTRIC HYBRID HDE 系列油电混合

规格型号 Model	单位 Unit	70T/2550	70T/3100	110T/3100	110T/4100	130T/3100	130T/4100	170T/3100	170T/4100	220T/3100	220T/4100
折弯压力 Bending force	KN	700	700	1100	1100	1300	1300	1700	1700	2200	2200
折弯长度 Bending length	mm	2550	3100	3100	4100	3100	4100	3100	4100	3100	4100
立柱距离 Distance between upright	mm	2100	2600	2600	3600	2600	3600	2600	3600	2600	3300
喉口深度 Throat depth	mm	320	320	410	410	410	410	410	410	410	410
装模高度 Die setting height	mm	420	420	470	470	470	470	470	470	470	470
滑块Y轴行程 Stroke of ram Y axis	mm	150	150	200	200	200	200	200	200	200	200
后档X轴行程 Stroke of backgauge X axis	mm	500	500	500	500	500	500	500	500	500	500
后档R轴行程 Stroke of backgauge R axis	mm	160	160	160	160	160	160	160	160	160	160
Y轴快下速度 Approach speed of Y axis	mm/s	200	200	200	200	200	200	200	200	200	200
Y轴工进速度 Bending speed of Y axis	mm/s	1-20	1-20	1-20	1-20	1-20	1-20	1-15	1-15	1-15	1-15
Y轴回程速度 Return speed of Y axis	mm/s	200	200	200	200	200	200	200	200	200	200
X轴速度 X axis speed	mm/s	500	500	500	500	500	500	500	500	500	500
R轴速度 R axis speed	mm/s	150	150	150	150	150	150	150	150	150	150
主电机功率 Main motor power	KW	2x3	2x3	2x5	2x5	2x5	2x5	2x6	2x6	2x6	2x6
油箱容积 Oil tank volume	L	2x20	2x20	2x20	2x20	2x20	2x20	2x30	2x30	2x30	2x30
外形尺寸 Overall dimension L*W*H	mm	3150x1500 x2350	3650x1500 x2450	3650x1600 x2550	4650x1600 x2680	3650x1650 x2650	4650x1650 x2750	3650x1750 x2750	4650x1750 x2820	3650x1800 x2820	4650x1800 x2890

OIL-ELECTRIC HYBRID CNC PRESS BRAKE 油电混合数控折弯机



High precision, high energy saving and high efficiency bending machine; AC servo driver and permanent magnet synchronous servo motor are used; synchronization of internal meshing gear pump is controlled; response is more sensitive, accuracy is higher, energy saving is more obvious; rapid processing of high precision work piece is carried out; DA66T, DA69T numerical control system are selected.

HDE SERIES OIL-ELECTRIC HYBRID HDE 系列油电混合

特点:

- 2D触控式图形编程
- 3D产品图形模拟显示
- 17" 高分辨率TFT真彩显示
- 完整的Windows应用程序包
- 兼容DELEM模块化结构系统
- USB, 外设接口
- 多任务环境下用户程序应用
- 角度检测传感器接口
- 可扩展为折弯自动化

Characteristic:

- 2D Touch Graphics Programming
- 3D product graphics simulation display
- 17" High Resolution TFT True Color Display
- Complete Windows Application Package
- Compatible DELEM Modular Architecture System
- USB, peripheral interface
- Application of User Programs in Multitask Environment
- Angle Detection Sensor Interface
- Extensible to Bending Automation



折弯机	电液同步系统 原方案	优化方案
170吨折弯机 工作周期 8h	2X同步快 1X动力单元 三相电机供油	2x独立液压系统 2x伺服电动动力单元
工作周期功耗	41.7kw.h	13.7kw.h -67%
液压油箱容量	280L	2x34L -42%
噪音等级 尖峰/平均/空闲	87.6/74.6/67.0dB(A)	76.3/67.6/-dB(A) -11 db(A)%



规格型号 Model	单位 Unit	110T/3100	110T/4100	130T/3100	130T/4100	170T/3100	170T/4100	220T/3100	220T/4100
折弯压力 Bending force	KN	1100	1100	1300	1300	1700	1700	2200	2200
折弯长度 Bending length	mm	3100	4100	3100	4100	3100	4100	3100	4100
立柱距离 Distance between upright	mm	2600	3600	2600	3600	2600	3600	2600	3300
喉口深度 Throat depth	mm	410	410	410	410	410	410	410	410
装模高度 Die setting height	mm	470	470	470	470	470	470	470	470
滑块Y轴行程 Stroke of ram Y axis	mm	200	200	200	200	200	200	200	200
后档X轴行程 Stroke of backgauge X axis	mm	500	500	500	500	500	500	500	500
后档R轴行程 Stroke of backgauge R axis	mm	160	160	160	160	160	160	160	160
Y轴快下速度 Approach speed of Y axis	mm/s	200	200	180	180	170	170	160	160
Y轴工进速度 Bending speed of Y axis	mm/s	17	17	17	17	15	15	13	13
Y轴回程速度 Return speed of Y axis	mm/s	200	200	200	200	180	180	160	160
X轴速度 X axis speed	mm/s	350	350	350	350	350	350	350	350
R轴速度 R axis speed	mm/s	70	70	70	70	70	70	70	70
主电机功率 Main motor power	KW	8.7	8.7	8.7	8.7	10.8	10.8	13.2	13.2
油箱容积 Oil tank volume	L	360	360	360	360	410	410	410	410
外形尺寸 Overall dimension L*W*H	mm	3650x1600 x2550	4650x1600 x2680	3650x1650 x2650	4650x1650 x2750	3650x1750 x2750	4650x1750 x2820	3650x1800 x2820	4650x1800 x2890

ELECTRO-HYDRAULIC SERVO CNC PRESS BRAKE

电液伺服数控折弯机

HDP SERIES ELECTRO-HYDRAULIC SERVO HDP 系列电液伺服



特点:

节能高校型折弯机

主电机标配采用进口品牌电机; 或主电机选配采用伺服电机驱动, 节能省电

机械式补偿工作台保证薄板的加工精度

大行程静音型后挡料加上德国力士乐系列高速液压系统, 效率更大化

台阶式精密档指为客户提供更大的加工范围

标配4个档指可同时2个工人操作更大化提高效率

可选用DA52S、DA53T、DA58T、DA66T、DA69T
荷兰DELEM公司数控系统

稳定性强, 可扩展为折弯自动化

Characteristic:

Energy-saving and high-efficiency bending machine

Imported brand motors are used for main motor standard matching or servo motors are used for main motor matching to save energy and power

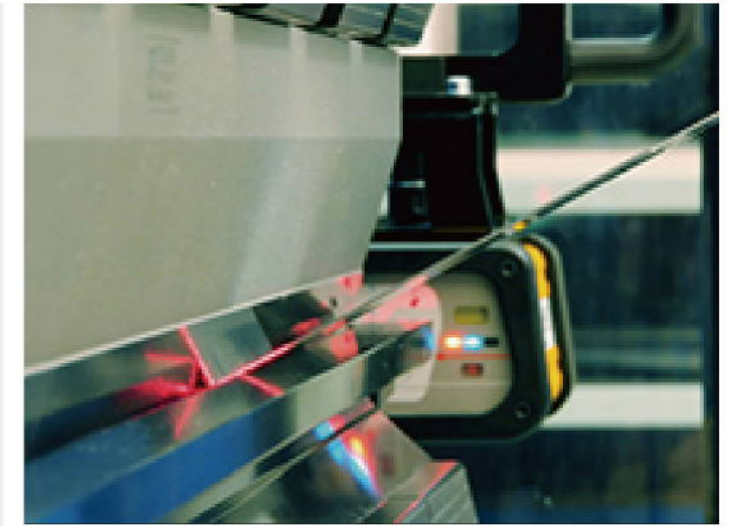
Mechanical compensation workbench guarantees the machining accuracy of thin plate

Large-range silent rear gear plus German Rexroth series high-speed hydraulic system, greater efficiency

Stepped precision shield finger provides customers with a larger processing range

Standardized four gear fingers can improve the efficiency of two workers at the same time

Choose DA52S, DA53T, DA58T, DA66T, DA69T Netherlands DELEM CNC SystemIt has strong stability and can be extended to bending automation



激光保护装置(选配) Laser protection device(optional)
进口 LaserSafe 激光保护装置, 世界知名品牌, 完全符合欧盟 CE 标准
Imported LaserSafe laser protection device, a world-renowned brand, is fully in line with the EU CE standard.



气动升降前托料(选配) Pneumatic lifter(optional)
专为复折工序工件设计的气动升降前托料, 按模具工作位置设定托料平面
A pneumatic lifting front support designed for the work of folding process, and the supporting plane is set according to the working position of the mould.



SYNCHRONOUS TORQUE(CNC) PRESS BRAKE

扭轴同步（数控）折弯机

HPB SERIES SYNCHRONOUS TORQUE HPB 系列扭轴同步



规格型号 Model	单位 Unit	40T/2200	40T/2500	63T/2500	63T/3200	80T/2500	80T/3200	100T/2500	100T/3200	100T/4000	125T/3200
折弯压力 Bending force	KN	400	400	630	630	800	800	1000	1000	1000	1250
折弯长度 Bending length	mm	2200	2500	2500	3200	2500	3200	2500	3200	4000	3200
立柱距离 Distance between upright	mm	1800	2000	2000	2600	2000	2600	2000	2600	3300	2600
喉口深度 Throat depth	mm	200	200	250	250	320	320	320	320	450	320
最大开启高度 Biggest open height	mm	320	320	350	350	375	375	375	375	375	385
滑块行程 Slider trip	mm	110	110	130	130	140	140	150	150	150	160
主电机功率 Main motor power	KW	4	4	5.5	5.5	7.5	7.5	7.5	7.5	7.5	7.5
外形尺寸 Overall dimension L*W*H	mm	2300x1100 x1900	2800x1100 x1900	2800x1250 x2060	3500x1250 x2060	2800x1500 x2250	3500x1500 x2250	2800x1550 x2300	3500x1550 x2300	4300x1550 x2550	3500x1550 x2300

E21

南京Estun公司



后挡料与挡块控制 Backgauge and block control	每个程序25步 up to 25 steps per program
控制普通电机 Control for general AC motors	单边定位 One side positioning
或变频器 frequency inverter	退让功能 Retract function
智能定位 Intelligent positioning	参数一键备份与恢复 One key backup/ restore of parameters
工件计数 Stock counter	公英制 mm/ Inch
保压卸荷时间设定 Holding/ decompression time setting	中/英文 Chinese / English
40个程序存储 Program memory of up to 40 programs	

DA-41S

荷兰DELEM公司

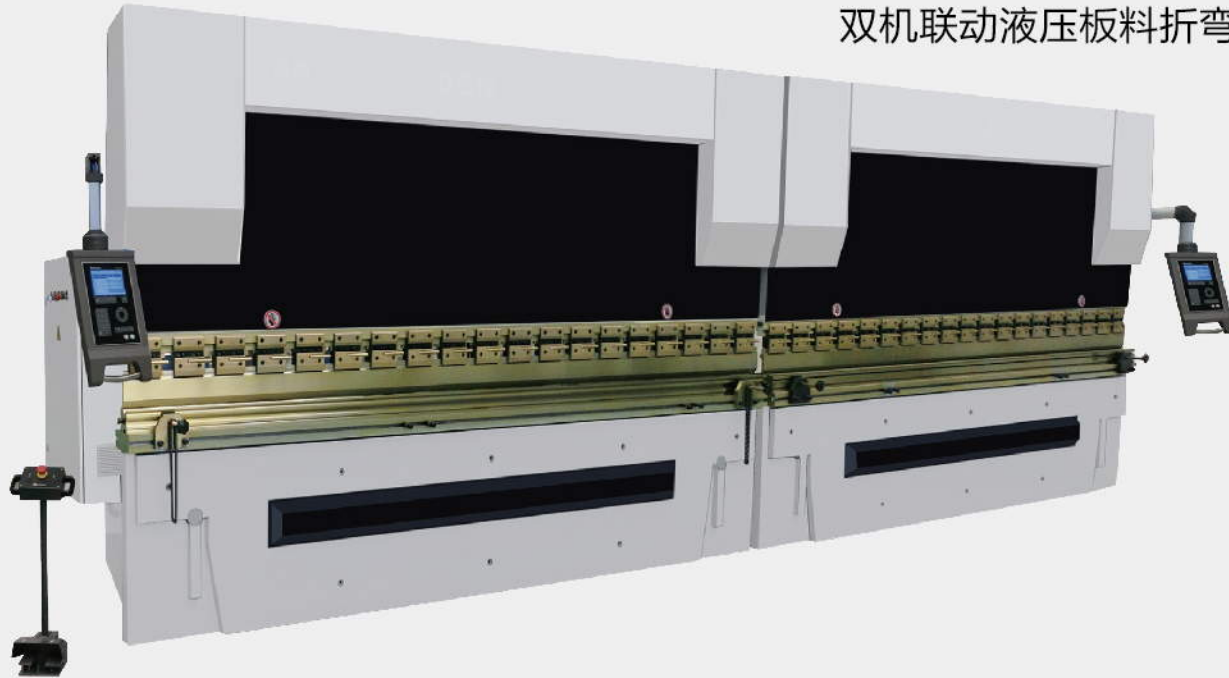


运用伺服控制技术 Using servo control technology	4.7"高亮液晶显示屏,包括中文在内的多国语言界面,模具参数设置,折弯角度编程可存储100道程序,每个程序25个工步 4.7"high bright liquid crystal display screen with multination language interface induding Chinese Die parameter setting, bending angle programming. About 100 programs are stored, and there are 25 operations in each program.
选料可编程 The escaped material is programmable,	
加工数量计数 the processing quantity is accountable, there is memory to power off, and conversion between metric system and inches system	
断电记忆	
公/英制转换	

规格型号 Model	单位 Unit	125T/4000	160T/3200	160T/4000	160T/6000	200T/3200	80T/3200	200T/6000	250T/4000	250T/6000	300T/4000
折弯压力 Bending force	KN	1250	1600	1600	1600	2000	2000	2000	2500	2500	3000
折弯长度 Bending length	mm	4000	3200	4000	6000	3200	4000	6000	4000	6000	4000
立柱距离 Distance between upright	mm	3300	2600	3300	5000	2600	3300	5000	2600	5000	3100
喉口深度 Throat depth	mm	450	320	320	400	350	350	350	400	400	400
最大开启高度 Biggest open height	mm	385	455	455	455	475	475	475	540	540	560
滑块行程 Slider trip	mm	160	200	200	200	200	200	200	250	250	250
主电机功率 Main motor power	KW	7.5	11	11	11	15	15	15	18.5	18.5	22
外形尺寸 Overall dimension L*W*H	mm	4300x1550 x2580	3500x1600 x2750	4300x1600 x2750	6400x1700 x2900	3500x1900 x2850	4300x1900 x2850	6400x1900 x3100	4300x2000 x2900	6400x2000 x3100	4400x2000 x3100

规格型号 Model	单位 Unit	300T/6000	400T/4000	400T/6000	500T/4000	500T/6000	500T/8000	600T/6000	600T/8000	800T/6000	800T/8000
折弯压力 Bending force	KN	3000	4000	4000	5000	5000	5000	6000	6000	8000	8000
折弯长度 Bending length	mm	6000	4000	6000	4000	6000	8000	6000	8000	6000	8000
立柱距离 Distance between upright	mm	5000	3100	5000	3100	5000	6400	5000	6400	4800	6400
喉口深度 Throat depth	mm	400	400	400	550	550	550	550	550	600	600
最大开启高度 Biggest open height	mm	560	630	630	650	650	670	670	670	700	700
滑块行程 Slider trip	mm	250	300	300	320	320	320	320	320	400	400
主电机功率 Main motor power	KW	22	30	30	37	37	37	45	45	55	55
外形尺寸 Overall dimension L*W*H	mm	6400x2200 x4400	4400x2400 x3500	6400x2500 x4600	4400x2500 x4200	6400x2600 x5100	8400x2800 x5500	6400x2900 x5400	8400x3000 x5800	6400x3000 x5500	8400x3000 x6000

HYDRAULIC TANDEM PRESS BRAKE 双机联动液压板料折弯机



2-HPB SERIES TANDEM

2-HPB 系列双机联动

OPTIONAL CNC SYSTEM

可选配数控系统



- 一页式参数快速编程
- 导航快捷键
- 7"宽屏彩色TFT
- 最大4轴控制(Y1, Y2和两附加轴)
- 工作台挠度补偿控制
- 模具/材料/产品库
- USB外设接口
- 先进的Y轴控制算法, 既可控制闭环, 也可控制开环阀
- 面板式安装结构, 可选悬吊箱

- 2D触摸式图形编程
- 15"高分辨率的TFT真彩显示
- 折弯工序计算
- 抗度补偿控制
- 伺服和变频器控制模式
- 先进的Y轴控制算法, 既可控制闭环, 也可控制开环阀
- USB接口。Profile-58TL离线编程软件

- Quick, one page programming
- Hotkey navigation
- 7"wide screen colour TFT
- Upto4axes(Y1, Y2, and 2 auxiliary axes)
- Crowning control
- Tool / material / product library
- USB, peripheral interfacing
- Advanced Y-axis control algorithms for closed loop as well as open loop valves
- Panel based controller with optional housing

- 2D touch graphic programming
- 15 "high resolution TFT true color display
- calculation of bending process
- Disturbance compensation control
- servo and frequency converter control mode
- the advanced Y axis control algorithm can control the closed loop valve or the open loop valve.
- USB interface. Profile-58TL off-line programming software



- 2D触摸式图形编程
- 3D产品图形模拟显示
- 17"高分辨率TFT真彩显示
- 完整的Windows应用程序包
- 兼容Delem模块化结构系统
- USB外设接口
- 多任务环境下用户程序应用
- 角度检测传感器接口

- 2D graphical touch screen programming mode
- 3D visualization in simulation and production
- 17"high resolution color TFT
- Full Windows application suite
- Delem Modusys compatibility (module scalability and adaptively)
- USB, peripheral interfacing
- Open system architecture
- Sensor bending & correction interface



- 2D和3D触摸式图形编程
- 3D产品图形模拟显示
- 17"高分辨率TFT真彩显示
- 完整的Windows应用程序包
- 兼容Delem模块化结构系统
- USB外设接口
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- 2D and 3D graphical touch screen programming mode
- 3D visualization in simulation and production
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- 电液比例阀控制同步
- S630 ESA数控系统控制面板吊箱
- 后挡料配置滚珠丝杠, 行程500mm
- 可编程在0.01mm
- 可编程自动返回
- 自动液压表加压 快夹
- 系统工具表
- 进口脚踏开关 标配安全保护

- Electro hydraulic proportional valve control synchronization
- Pendant control panel with ESA S630 CNC System
- Backgauge on ballscrews, stroke 500mm
- Programmable in 0.01mm
- Programmable automatic beam return
- Automatic hydraulic table crowning
- Quick manual system top tooling damping
- Table for system tooling
- Import foot pedal command
- Standard safety protection



- 15" 触摸屏(分辨率1366x768 WSVGA)
- 标配控制4轴, 最多控制6轴
- FPGA集成逻辑、表面贴装、光纤
- CPU通过纳米X 2 Gb的RAM 2 E 1,2 Ghz
- 硅制硬盘(闪存盘)超过30.000步程序
- 工件和模具数据条目的交互式二维图像编辑器
- 2D图形显示的机架、工件和模具
- 2个串行端口RS-232, 2USB端口为记忆棒的
- 1个以太网端口, 2个端口, 光纤接口, 局域网

- 15" touch screen (resolution 1366x768 WSVGA)
- Control 4 axes and control 6 axes at most
- FPGA integrated logic, surface mounting optical fiber
- CPU through the RAM 2E 1,2 Ghz of nanoscale X 2 Gb
- Silicon hard disk (Shan Cunpan) over 30 steps
- Interactive 2D image editor for workpiece and die data entry
- 2D graphics display frame, workpiece and die
- 2 serial port RS-232, 2 USB ports are memory rods
- 1 Ethernet ports, 2 ports, fiber optic interfaces, local area networks



- 大触摸屏、色彩鲜艳、对比度高
- 便捷界面, 清晰显示和大图标按键。
- 直观友好易于操作的人机界面
- 完善的编程可以使批量的多步折弯提高效率
- 页面单步折弯非常方便
- 在线帮助和弹出式提示使得软件界面非常友好
- 使用PC或者笔记本可以通过无线软件升级和传输数据
- USB接口传输/备份数据 支持多种语言

- Large touch screen, bright color, high contrast.
- Convenient interface, clear display and large icon buttons.
- Visual, friendly and easy to operate man-machine interface.
- Perfect programming can improve the efficiency of batch multi-step bending
- One-step bending of the page is very convenient.
- Online help and pop-up prompts make the software interface veryfriendly.
- Using PCs or laptops, data can be upgraded and transmitted through wireless software.
- Support multiple languages
- USB interface transfers/backups up data.



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