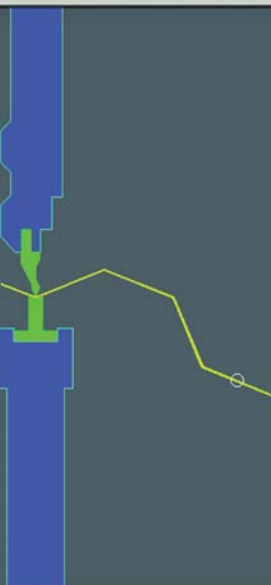




Modena Italy

esa Calculation



N	S	P/S	V
1	1	1	1
2	1	2	1
3	1	3	1
4	1	4	1

Develop. 445.07

Upsetting

Rotations

Criterion

X 240.22
Piezr. 101
R 0

11 Sect 1 Bend 4 Scale 1:1

Simulate Optimize All the solution Draft Wkp Rotate Bend Reset Bend Change Section



CNC S 550N PC

CNC S 550N PC

S550PC, 具备创新的设计, 模块化的架构, 换句话说, 可以从一个基本的控制结构获取最大性能, 交互式的2D图形编程和模具, 能够直接连接CAD/CAM WINDOWS平台允许控制器更加容易的接入工厂局域网, 连接特定一起的角度校正数据库可以获取很好的折弯角度近似值

典型应用

- 传统折弯机 (机械和液压), 电液同步折弯机, 伺服控制液压单缸折弯机, 电力驱动折弯机, 双机联动折弯机
- 美式液压-机械折弯机
- 海默尔折弯机

软件特色

- 交互式2D图形编辑和模具输入
- 2D图形显示机架, 工件和模具
- 2D自动生成最佳折弯步骤
- 实时自动检查的填表式编程模式, 直接角度编程, 自动计算R轴和Z轴位置, 自动计算机械补偿A轴位置
- Windows XP 操作系统
- 提供完整的离线编程软件
- IEC 61131-3 PLC编程语言功能效用, 包含使用IL或者C/C++语言编程
- 自定义用户报警信息
- 3D图形管理 (通过外部CAD/CAM生成)

特殊功能

- 提供控制轴及其辅助功能的编程功能
- 可驱动带比例阀或伺服阀的开/闭环阀组, 交/直流伺服驱动器, 带变频器或不带变频器的交流电机, 可驱动最常见现场总线 (Sercos, CANopen, Mechatrolin...)
- 前托料, 厚度检测, 同步角度测量仪, 机械手, 双机联动折弯机
- 安全PLC通讯 (PILZ, LAZER SAFE)

基本配置

- 最大功率 DC24V 100W
- 15" TFT SVGA 可斜视显示屏
- 工程铝制包边外壳, 并带有可安装开关和按钮的操作托盘
- 专用的IP65等级28键防刮伤, 防油污键盘
- 2.5寸20GB或更高容量硬盘
- 预设标准PC键盘

技术

- CPU PC: Intel Atom N270 1.6GHz 带1GB RAM
- CPU CNC: Amd Geode ETX-LX800 500MH, 带128MB RAM
- FPGA一体成型, 平面架构, 光纤接口

通讯接口

- PC端带1个RS232接口, 3个USB接口, 2个以太网接口
- CNC端带2个RS232接口, 2个USB接口, 1个以太网接口, 1个CANOPEN接口
- 光纤接口
- 局域网

用户存储

- 硬盘存储超过2,000,000个程序, U盘存储超过50,000个程序

用户存储

- 远程协助
- 用于编辑和修正的远程手持式终端
- 连接扩展的角度计和厚度计 (PS2) 接口
- 管理一系列测量信号输入, 比如材料厚度和宽度或抗性, 测量机架尺寸等
- 角度校正和板料反弹数据库
- 附加可折叠式QWERTY键盘和鼠标
- 补偿激活
- 使用角度进行补偿校正
- LAZER SAFE实时角度测量系统
- 集成角度测量数据库
- 弹性形变测量系统

轴

- 标配4+1轴, 可按需要扩展到16+1轴
- 5V或12V增量型编码器输入 (标配5V)
- 编码器出错诊断, 最大编码器输入频率500KHz
- 4路模拟量输入用于机械补偿反馈或其他测量型号

输入/输出

- 标配32点输入, 32点输出
- 远程I/O系统, 可通过光纤扩展
- I/O点数可扩展到最多2048点
- 直流24V PNP光电隔离输入, 直流DC24V 1A光电隔离输出, 并带有短路保护
- 特殊的输入/输出板用于控制压力和补偿阀组 (可达3A)

S 550N PC, an innovative design, a modular hardware structure, in other words what's necessary to obtain the maximum from an essential control. Interactive 2D graphic editor for part programs and tools, direct connection to CAD/CAM systems are some features available on the controller. Windows permits to easily integrate the controller into the factory local area network. Angle corrections data base in conjunction with specific sensors management achieve a good bending angle approximation.

TYPICAL APPLICATIONS

- Conventional press-brakes (Mechanical and Hydraulic), Synchro Hydraulic press-brakes, Servo controlled hydraulic single cylinder press-brakes, Electrically driven press-brakes, Tandem press-brakes
- Hydro-mechanical press-brakes American style
- Hämmerle press-brakes

SOFTWARE SPECIFICATIONS

- Interactive 2D graphic editor for work-pieces and tools data entry
- 2D graphic display of machine frame, work-piece and tools
- 2D automatic identification of the best bending sequence
- Programming of the axes positions in tabular mode with automatic syntactical checks, auto-matic calculation of the R, Z and A positions and of the bending and crowning tonnage
- Windows XP Professional operating system
- Complete off-line programming on a standard PC
- IEC 61131-3 PLC programming language with function utilities either written in IL or "C" language, are available for manufacturers
- Customizable alarm messages
- 3D graphic images managing (generated by external CAD/CAM)

SPECIAL FEATURES

- Selectable and programmable axes and auxiliary functions
- Drivers for hydraulic axes with proportional valves Closed Loop or Open Loop or servo valves, servo drivers (a.c./d.c.), and a.c. motors with or without inverter; drivers for the most common field buses (Sercos, CANopen, Mechatrolink...)
- Following arms, thickness detector, in-process angle measurement units, robotic interfacing, controlling for tandem press-brakes
- Safety PLC communication (PILZ, LAZER SAFE)

GENERAL SPECIFICATIONS

- 24Vdc 100W max power supply
- 15" TFT XGA colour display with antiglare screen
- Ergonomic aluminium housing, with a panel suitable for machine operational selector-switches and push-buttons
- Dedicated scratchproof, oil-proof IP65 keyboard with 28 keys
- 2.5" Hard disk drive 20GBytes or more
- Preset for standard PC keyboard and mouse (PS2 standard connectors)

TECHNOLOGY

- CPU PC: Intel Atom N270 1,6GHz, with 1Gb of RAM
- CPU CNC: Amd Geode ETX-LX800 500MHz, with 128Mb of RAM
- FPGA integrated logics, surface mounting, fiber optic

COMMUNICATION PORTS

- 1 serial ports RS-232, 3 USB ports, 2 Ethernet port on the PC
- 2 serial ports RS-232, 2 USB, 1 Ethernet port, 1 Can Open Port on CNC
- Fiber optic interface
- Local area network

USER MEMORY

- Hard disk for more than 2.000.000 part programs, USB stick for more than 50.000 programs

OPTIONS

- Modem for telecommunication assistance
- Remote handheld terminal for editing and correctional operations
- Connection to external electronic goniometer and calibre (PS2)
- Management of several sensors inputs for measuring sizes like material thickness and width or resistance; measuring the machine frame deformation and so on
- Angle corrections and material stretching database
- Additional fold-back QWERTY keyboard and mouse
- Active crowning
- Crowning corrections in degrees
- Lazersafe angle measurement system integrated on system
- DataM angle measurement system integrated on system
- Spring back measuring system

AXES

- Standard 4+wila, on request up to 16+wila
- 5V or 12V incremental encoder inputs (line-driver or single ended)
- Encoder fault diagnosis; maximum encoder input frequency 500KHz
- 4 Analog inputs suitable for mechanical crowning systems management or sensors

INPUTS/OUTPUTS

- Standard 32 inputs and 32 outputs
- Remote I/O system, connected through optic fiber link
- The I/O number could be expanded up to 2048
- 24Vdc PNP opto-insulated inputs, 24Vdc 1A opto-insulated static outputs protected against short circuit
- Special I/O board for pressure and crowning valves (up to 3A)