



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. H45.07
Upsetting
Rotations
Criterion
X: 240.22
Retr: 101
R: 0

11 Sect: 1 Bend: 4 Scale: 1:1

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

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C

Usb

N

N

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STU 7	VWX 8	YZ 9	Home	↑	PgUp
JKL 4	MNO 5	PQR 6	←	Tab	→
ABC 1	DEF 2	GHI 3	↖	↓	PgDn
/ * + -	Space 0	.	↙	↘	☒

CNC S 540N

CNC S 540N

典型应用

- 传统折弯机（机械和液压），电压同步折弯机，伺服控制的液压单缸折弯机，电力驱动折弯机，双机联动折弯机
- 美式液压机械折弯机
- 交互式2D工件图形编程和模具编辑
- 2D图形显示机床框架，工件，以及模具
- 可手动进行2D图形折弯，以识别最佳折弯步骤
- 以填表方式对各轴位置进行编程，操作简单，并自动检查，自动计算R，Z，A的折弯位置，并自动计算折弯吨位和挠度补偿
- 类似Windows的操作页面
- 提供完整的PC离线编程软件
- IEC 61131-3 PLC编程语言，也可使用IL或者C/C++语言编程
- 用户自定义报警信息功能

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，Mechatrolink...）
- 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
- 10" 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50键防刮伤，防油污键盘
- 固态硬盘
- 预设标准PC键盘（选配）

技术

- CPU AMD Geode ETX-LX800 500Mhz 带128M的RAM
- FPGA一体成型，平面架构，光纤接口

通讯接口

- 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

- 固态硬盘可存储操作30,000个工件程序

可选项

- 远程协助
- 2D图形编程自动优化（标准配置）
- 比例阀直接驱动放大器
- 外部电子角度计接口（PS2）
- 角度校正和材料反弹数据库
- 挠度补偿直接角度校正

轴

- 标配4+1轴，可扩展到6+1或8+1轴
- 5V或12V增量型编码器输入（标配5V）
- 编码器错误诊断，编码器最大输入频率500KHz
- 4路模拟量输入，适用于机械补偿反馈或其他信号

输入/输出

- 标配32点输入和32点输出
- 24V直流PNP光电隔离输入，24V直流1A光电隔离输出，带短路保护
- 特别用于控制主压力和挠度补偿阀的输出（可达3A）

TYPICAL APPLICATIONS

- Conventional press-brakes (Mechanical and Hydraulic), Synchro Hydraulic press-brakes, Servo controlled hydraulic single cylinder press-brakes, Electrically driven press-brakes
- Hydro-mechanical press-brakes American style Software specifications
- Interactive 2D graphic editor for work-pieces and tools data entry
- 2D graphic display of machine frame, work-piece and tools
- Manual 2D graphic identification of the best bending sequence
- Programming of the axes positions in tabular mode with automatic syntactical checks, automatic calculation of the R, Z and A positions and of the bending and crowning tonnage
- Windows® like user interface
- 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

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
- 10" TFT SVGA 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 50 keys
- Silicon hard disk (flash disk)
- Preset for standard PC keyboard

TECHNOLOGY

- CPU AMD Geode ETX-LX800 500Mhz with 128Mb of RAM
- FPGA integrated logics, surface mounting, fiber optic

COMMUNICATION PORTS

- 2 serial ports RS-232
- 2 USB port for memory stick
- 1 Ethernet port
- 1 Can Open port
- Fiber optic interface
- Local area network

USER MEMORY

- Silicon hard disk (flash disk) for more than 30.000 part programs

OPTIONS

- Modem for telecommunication assistance
- 2D automatic identification of the best bending sequence
- Proportional valves driver (Y1-Y2) with or without cursor position feedback
- Connection to external electronic goniometer (PS2)
- Angle corrections and material stretching database
- Crowning corrections in degrees

AXES

- Standard 4+1wila, on request up to 6+1wila
- 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
- 24Vdc PNP opto-insulated inputs, 24Vdc 1A optoinsulated static outputs protected against short circuit
- Special I/O board for pressure and crowning valves (up to 3A)