



LIBERTY

Automatic CNC drilling, drilling & band sawing, drilling & coping lines for sections

TECHNICAL CHARACTERISTICS

MODEL		LIBERTY - DRILLING	
		1203 DDE	2003 DDE
Section depth Min./Max.	Inch	3-1/4" x 48"	3-1/4" x 80"
Flange height Min./Max.	Inch	3/8" / 24"	3/8" / 24"
Drill heads	No.	3	3
Tools per spindle	No.	6	6
Maximum hole diameter	Inch	1-9/16"	1-9/16"
Spindle power at the tool	HP	36	36
Spindle speed	RPM	5,000	5,000
Spindle fast approach/return speed	IPM	472	472
CNC axes	No.	7	7

MODEL		LIBERTY - DRILLING & BAND SAWING		
		1003 DDEB	1203 DDEB	2003 DDEB
Drill heads	No.	3	3	3
Spindle power at tool	HP	36	36	36
Sawing capacity at 90°	Min.Inch	3-1/4" x 3/8"	3-1/4" x 3/8"	3-1/4" x 3/8"
	Max.Inch	40" x 17-3/4"	49-1/4" x 24"	78-3/4" x 24"
Blade size	Inch	1.61" x .051"	2.12" x .063"	2.63" x .063"
Blade speed	FPM	557	557	557
Band saw motor	HP	12	20	20
CNC axes	No.	7+2	7+2	7+2

MODEL		LIBERTY - DRILLING & COPING	
		1204 DDEFRC	
Section depth Min./Max.	Inch	3-1/4" / 48"	
Flange height Min./Max.	Inch	3/8" / 24"	
Drill heads	No.	3	
Oxy-fuel torch	No.	1	
Plasma torch (option)	No.	1	
CNC axes	No.	7+6	

Please review FICEP's terms and conditions of sale and system specifications that are in our formal proposal. The manufacturer reserves the right to change specifications and features from those indicated in this brochure. Current specifications and features are part of the formal quotation.



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MADE IN ITALY

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The Liberty is the most recent addition to the family of Ficep three spindle drilling lines for processing from small to large sections. The Liberty, like the rest of the Ficep three spindle drilling lines, features DIRECT DRIVE spindles so the power of the spindle motor is what is delivered to the actual tool. There is no power loss by having to transmit power through a gearbox.

The Liberty is constructed on the same mechanical platform as the rest of the Ficep three spindle drilling lines to achieve commonality of parts to reduce manufacturing cost. The simplicity of the entire range of multiple spindle drilling lines is a major reason for their exceptional reliability and performance.

All Liberty models are available with a comprehensive list of optional accessories such as four-side scribing, chip conveyors placed under the machine (without the need for a pit), marking units and more.

The Liberty design features rack and pinion positioning and measuring systems for all linear axes for reduced maintenance and enhanced durability. Spindle rapid advance and retraction speeds of up to 472 IPM are achieved.

The ISO 40 DIRECT DRIVE spindle develops 36 horsepower at the actual tool as there is no power loss by having to go through a gearbox to achieve the desired RPM. The Ficep DIRECT DRIVE spindle develops up to 5,000 RPM to take full advantage of today's high tech tooling.

The Liberty drilling lines can be combined with a band saw or coping robot.



Pegaso is the new generation CNC for Ficep machines. PC, CNC and PLC are all integrated on a single board, to have the maximum reliability and simplicity. Pegaso is based on field bus technology: CAN bus and EtherCAT, with up to 32 axes controlled.



Underside web scribing device



LIBERTY drilling line combined with a band saw



Automatic material handling system



Vertical hold downs



Higher productivity

Many unique and innovative design solutions have been engineered and implemented into the LIBERTY design to increase the productivity such as:

- Industry leading drilling speeds.
- Higher RPM's to take advantage of today's high tech tooling designs.
- New universal tool holder.
- Automatic detection of the section size.
- Ability to process tapered welded sections.
- Easy access to the drill spindles and their tool changers.
- New efficient chip collection system centralizes their location.
- Efficient clamping system for increased performance.