



ENDEAVOUR

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

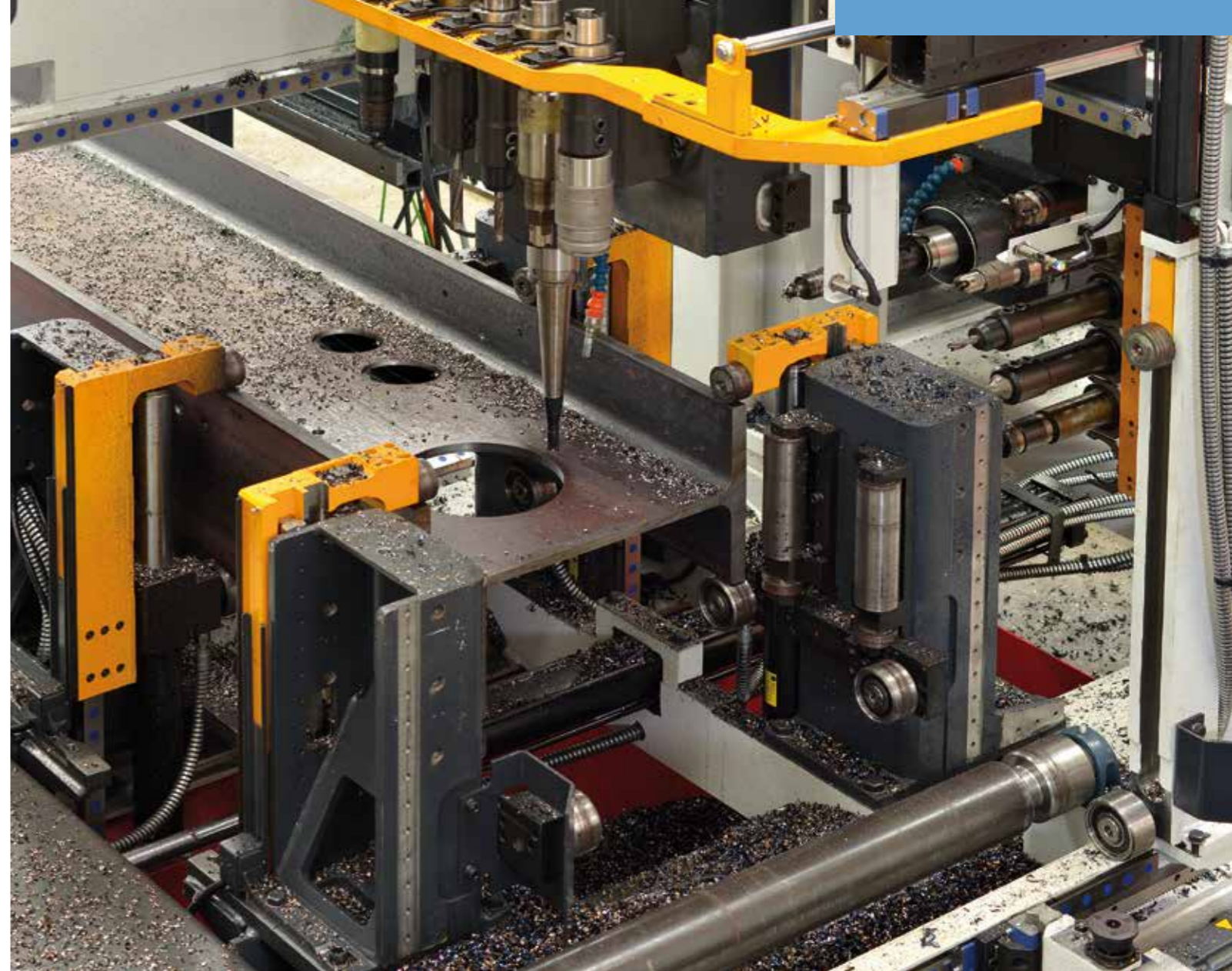
TECHNICAL CHARACTERISTICS

MODEL	ENDEAVOUR DRILLING						
	603 DD 603 DD LASER	1203 DD 1203DD LASER	2003/6 DD	2003/8 DD	2503/8 DD	2503/10 DD	
Web depth Min./Max.	Inch	3-1/4" / 24"	3-1/4" / 48"	3-1/4" / 80"			
Flange height Min./Max.	Inch	3/8" / 12"	3/8" / 24"	3/8" / 24"			
Drill heads	No.	3	3	3	3	3	3
Tools per spindle	No.	6	6	6	6	6	6
Maximum hole diameter	Inch	1-9/16"	1-9/16"	1-9/16"	1-9/16"	1-9/16"	1-9/16"
Spindle power	HP	41	41	41	41	41	41
Spindle speed	RPM	5,000	5,000	5,000	5,000	5,000	5,000
Spindle fast approach/ return speed	IPM	1,180	1,180	1,180	1,180	785	785
Aux. axes stroke	Inch	9-7/8"	9-7/8"	9-7/8"	9-7/8"	9-7/8" (opt)	9-7/8" (opt)
CNC axes	No.	7	7	7	7	7	7

MODEL	ENDEAVOUR - DRILLING & BAND SAWING							
	603 DDB	1003 DDB	1103 DDB	1203 DDB	2003/6 DDB	2003/8 DDB	2503/8 DDB	
Drill heads	No.	3	3	3	3	3	3	
Spindle power	HP	41	41	41	41	41	41	
Sawing capacity at 90°	Min.Inch	2-1/4" x 3/8"	3-1/4" x 3/8"	3-1/4" x 3/8"	3-1/4" x 3/8"	7-7/8" x 3/8"	7-7/8"	7-7/8"
	Max.Inch	24" x 12"	40" x 17-3/4"	43-1/4" x 20"	49-1/4" x 24"	78-3/4" x 23-5/8"	78-3/4"	98-3/8"
Blade size	Inch	1.34" x .043"	1.61" x .051"	2.12" x .063"	2.63" x .063"	2.63" x .063"	2.63" x .063"	2.63" x .063"
Blade speed	FPM	492	557	557	557	557	557	557
Band saw motor	HP	9	12	20	20	24	25	25
CNC axes	No.	7+2	7+2	7+2	7+2	7+2	7+2	7+2

MODEL	ENDEAVOUR - DRILLING & COPING						
	604 DDFRC	1204 DDFRC	2004/6 DDFRC	2004/8 DDFRC	2504/8 DDFRC	2504/10 DDFRC	
Web depth Min./Max.	Inch	3-1/4" / 24"	3-1/4" / 48"	3-1/4" / 80"	3-1/4" / 80"	7-7/8" / 99"	7-7/8" / 99"
Flange height Min./Max.	Inch	3/8" / 12"	3/8" / 24"	3/8" / 24"	3" / 31-7/8"	3" / 31-7/8"	4" / 40"
Drill heads	No.	3	3	3	3	3	3
Oxy-fuel torch	No.	1	1	1	1	1	1
Plasma torch (option)	No.	1	1	1	1	1	1
CNC axes	No.	7+6	7+6	7+6	7+6	7+6	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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ENDEAVOUR is our most recently introduced three spindle drilling line for the processing of structural sections with a diverse range of capabilities. This revolutionary design represents one of the most significant developments in structural steel processing by Ficep in recent years.

The ENDEAVOUR features a robust, yet simple, design to minimize the number of parts to reduce the cost with such industry firsts as DIRECT DRIVE spindles.

The power of the spindle motors without gearboxes, in conjunction with the axis speed that is accomplished with rack and pinion positioning systems, makes this the most innovative drill line design to-date.



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.



Auxiliary axes

New auxiliary axes

The three spindles are each equipped with a new additional sub axis that allows independent control of the spindles over a 9-7/8" stroke in the longitudinal axis. This, in conjunction with the full independent positioning of each spindle, increases the productivity of the ENDEAVOUR over any three spindle drill line without a sub axis. Even if the required operations of drilling or scribing, for example, do not share the same length axis dimension, all three spindles can be engaged for unequalled productivity.

The sub axis, in conjunction with the robust HSK-80 tool holders, permit such operations as helical milling, pocketing, the creation of weld preps, rat holes, coping and the creation of slots at unbelievable speeds as the section is securely clamped during the milling process since the spindles move independently to the required geometry.

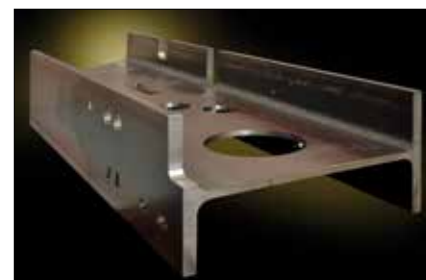
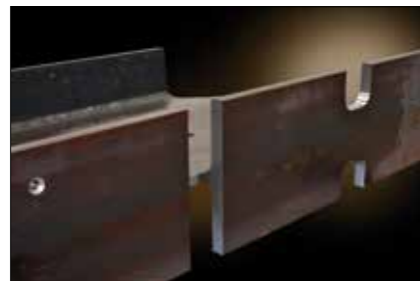
Drilling, sawing and coping with combined machines

The Endeavour can be easily combined with Ficep band saws and coping robots to create an extremely productive work cell with a minimal footprint. Regardless if the drill is combined with a saw or coping robot, the same CNC control operates the integrated system.

This system allows a drill to be integrated with a saw for straight or miter cuts or with a coping robot for both oxy and plasma cutting of structural shapes for copes, flange thinning, rat holes, weld preps, beam splitting, etc.



Endeavour drilling line combined with band saw



Underside web scribing device



Endeavour drilling line combined with coping robot