



STEEL  
CONSTRUCTION

ANGLES & FLATS  
BEAMS & PIPES  
PLATES  
SURFACE TREATMENT  
ROBOTIC WELDING  
SOFTWARE & AUTOMATION



**KATANA**

Automatic CNC band sawing  
lines for sections



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Montfort International Itée

## Automatic CNC band sawing lines for sections

The new Katana is the latest FICEP development in the field of band sawing. This product can carry out extremely fast and top quality operations when processing structural steel sections with up to 60° mitered cuts. The Katana is available as a stand-alone saw, complete sawing line and as a combined solution with our drilling lines.

### Main features

- Electric servos for fast saw adjustments to reduce non-productive movements
- Inclined blade wheels achieve enhanced blade life by reducing its twist
- Three programmable cutting cycles - Standard, Max Power or Max Torque
- The cutting head of the saw is a casting to absorb vibrations generated during cutting
- Hydraulic blade tightening.
- Double vibration damping blade-guides: fixed side and mobile side automatically adjust to the section size
- Synchronized brush to remove the chips from the saw band teeth.
- Hydraulic vertical hold-down adjustment is guided on prismatic guides
- Blade lubricating/cooling system is included in the cutting cycle.

- Horizontal clamping of the section at 90° or at a mitered position
- Integrated hydraulics, pneumatics and user-friendly CNC

Katana saws can be equipped with automatic:

- Powered infeed and outfeed conveyors.
- Transfer tables with carts or catches.
- Material positioning carriage and measuring system.
- Magnetic device to quickly and efficiently transfer small processed parts, trim cuts and drops to the outfeed conveyor or to the unloading table.
- Special unloading table to remove small processed parts, trim cuts and drops.



Vertical hold-down and horizontal clamping



Automatic unloading device with magnet







Katana band saws can be equipped with our Pegasus CNC control unit to automatically manage the cutting cycles and to connect to the firm's network. When combined with drilling lines, there is no need to add a CNC unit as the entire system is controlled by a single CNC.



Pegasus is the latest generation CNC for FICEP lines where the PC, CNC and PLC are all integrated into a single circuit board for maximum reliability. Pegasus is based upon a field bus technology using CanBus and EtherCAT for controlling up to 32 separate CNC axes.



Katana saw combined with Valiant drilling line

KATANA Automatic CNC band sawing lines for sections	K60L	K100EL	K115L	K115EL	K126L	K206L	K208L
Section size at 90° [min. inch]	2" x 3/8"	2" x 3/8"	2" x 3/8"	2" x 3/8"	2" x 3/8"	8" x 3/8"	8" x 3/8"
Section size at 90° [max. inch]	24" x 18"	40" x 18"	43-1/4" x 20"	43-1/4" x 24"	49-3/4" x 24"	78-3/4" x 24"	78-3/4" x 32"
Section size at 45° [max. Inch]	24" x 18"	27" x 18"	28" x 20"	33-1/2" x 24"	31-1/2" x 24"	51-7/8" x 24"	51-7/8" x 32"
Section size at 60° [max. inch]	17-3/4" x 18"	18" x 18"	18" x 20"	23" x 24"	23" x 24"	74" x 24"	74" x 32"
Motor power [HP]	12	12	20	20	20	24	24
Band saw blade speed [max. FPM]	558	558	558	558	558	558	558
Band saw blade size [inch]	1.61" x .051" x 286"	1.61" x .051" x 286"	2.12" x .063" x 390-1/2"	2.12" x .063 x 354"	2-5/8" x .063" x 354"	2-5/8" x .063" x 476-3/8"	2-5/8" x .063" x 476-3/8"
Machine weight [lbs.]	8,375	9,920	25,350	14,110	14,110	36,375	38,580

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