



STEEL
CONSTRUCTION

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

KATANA

Automatic CNC band sawing lines for sections



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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

- Hydraulic blade tightening.
- Double 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-downs that adjust on prismatic guides.
- Blade lubricating/cooling system is included in the cutting cycle.
- Two independent hydraulic vices to clamp the profile while being cut either at 90° and at mitered position.
- 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-downs



Quick blade change



Automatic unloading device with magnet



K60 with integrated hold-down and rotating base at +45°/-60°





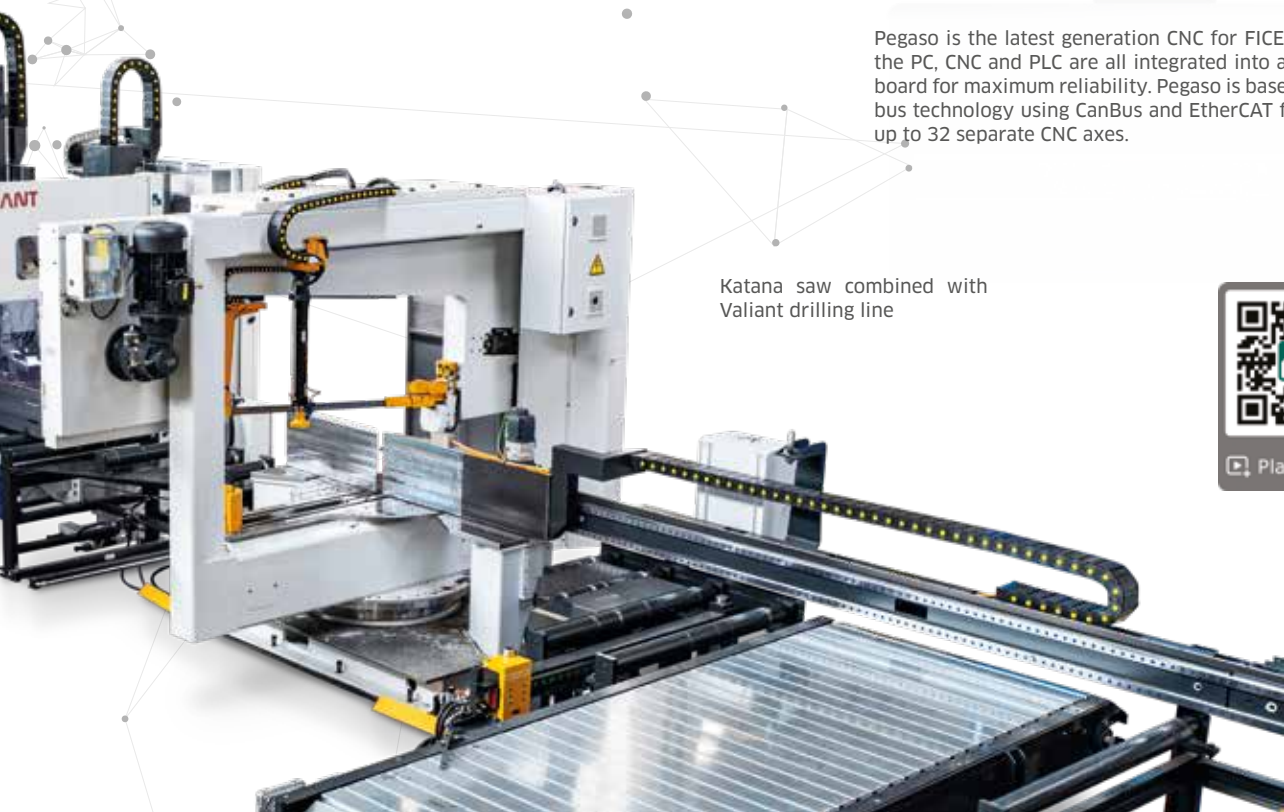
Automatic system layout



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

Pegaso 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. Pegaso 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



Play video

NEW

DISCOVER OUR NEW KATANA MODEL K100EL!

- Electric servos for fast saw adjustments to reduce non-productive movements
- Double vibration damping blade-guides: fixed side and mobile side automatically adjust to the section size
- Inclined blade wheels achieve enhanced blade life by reducing its twist
- Hydraulic vertical hold-down adjustment is guided on prismatic guides
- Three programmable cutting cycles – Standard, Max Power or Max Torque
- Horizontal clamping of the section at 90° or at a mitered position
- Integrated hydraulics, pneumatics and user-friendly CNC
- The cutting head of the saw is a casting to absorb vibrations generated during cutting



KATANA Automatic CNC band sawing lines for sections	K60L	K100L	K100EL	K115L	K126L	K206L	K208L
Section size at 90° [min. inch]	2-1/2" x 2-1/2"	3-1/4" x 3/8"	3-1/4"x3/8"	3-1/4" x 3/8"	3-1/4" x 3/8"	8" x 3/8"	8" x 3/8"
Section size at 90° [max. inch]	24" x 17-3/4"	40" x 17-3/4"	40"x17-3/4"	43-7/8" x 20"	48" x 24"	78-3/4" x 24"	78-3/4" x 31-1/2"
Section size at 45° [max. Inch]	15-3/4" x 17-3/4"	24-3/8" x 17-3/4"	27" x 17-3/4"	28" x 20"	31-7/8" x 24"	51-7/8" x 23-5/8"	51-7/8" x 31-1/2"
Section size at 60° [max. inch]	9-3/4" x 17-3/4"	16-1/2" x 17-3/4"	17-3/4" x 17-3/4"	18" x 20"	20" x 24"	74" x 23-5/8"	74" x 31-1/2"
Motor power [HP]	12	12	12	20	20	24	24
Band saw blade speed [max. FPM]	492	558	558	558	558	558	558
Band saw blade size [inch]	1.6" x .051" x 263-3/4"	1.6" x .051" x 310-1/4"	1.6" x .051" x 285"	2.12" x .062" x 390-1/2"	2.63" x .062" x 413-3/8"	2.63" x .062" x 476-3/8"	2.63" x .062" x 476-3/8"
Machine weight [lbs.]	6,835	13,200	9,920	25,350	27,775	36,375	38,580

TECH SPECS

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. The capabilities stated are subject to the ASTM A6/A6M standard as it relates to mill tolerances for straightness, thickness and surface conditions.



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