



KATANA

Automatic CNC
band sawing systems



FICEP



blade-tightening device

The latest in beam processing

The Katana range of saw lines represents the latest technology in High Performance band saws for structural steel industry. With the increased cutting speed the Katana saws are a significant step forward in beam processing. These extremely fast saws can carry out sawing operations at 90° or at miters. The saws can be installed as standalone sawing units or as combined lines with the Ficpe beam drilling units.

Strength and performance

The frame of the Katana saws is made of electro-welded tubular steel with stiffeners giving maximum torsion, stiffness and precise cutting results without vibrations. The body rotates on a toothed wheel to carry out mitred cuts.

Main features

The KATANA saws are the results from years of experience and continuous investments in R&D. All the latest innovations are implemented in to the features to provide the maximum cutting results:

- Hydraulic blade tightening
- Double blade-guides: the first guide is fixed on one side of the profile and the other one is mobile with its extension is hydraulically controlled.
- Synchronized brush to take off the swarf from the band teeth
- Hydraulic vertical hold-downs that manually slide on prismatic guides
- Blade lubricating/cooling system is included in the working cycle
- Two independent hydraulic vices to clamp the profile while being cut either at 90° and at mitred positions
- User friendly CNC



Hydraulic vertical hold-downs that manually slide on prismatic guides (optional)



Powered device for the rotation of the saw



Due to all these features all of the Ficpe Sawing Lines are able to use the latest bi-metal band saw blades that allow an increase in cutting cycle by up to 50%.



Brush for blade cleaning



Independent vices



Lean manufacturing

The KATANA saws are manufactured in Castronno plant near Varese. This plant is dedicated to the production of Ficep saw lines. The smaller components are made in the modern Ficep machining centers nearby and delivered to the Castronno plant with certified subassemblies for assembly. This allows the optimization of delivery to our final customers whether the saw is combined with a drilling unit or as a standalone machine.

Esthetics

The electrical system is on board of the machine in an advantageous position from both functional and esthetical point of view. The hydraulic system runs under a separate power pack. The body has been studied to contain all the cables on board in order to facilitate the after-sale maintenance.





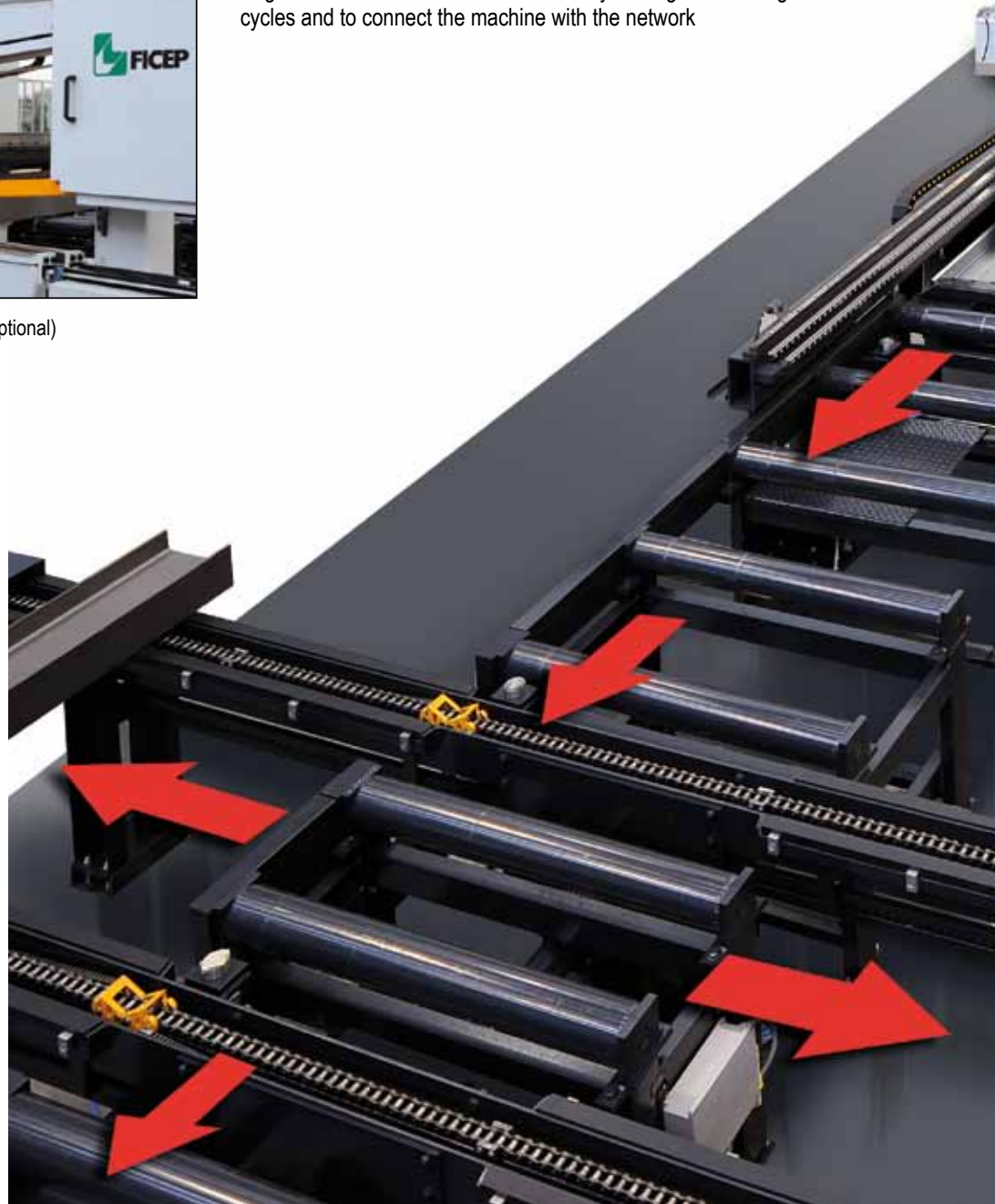
KATANA fully automatic band sawing systems



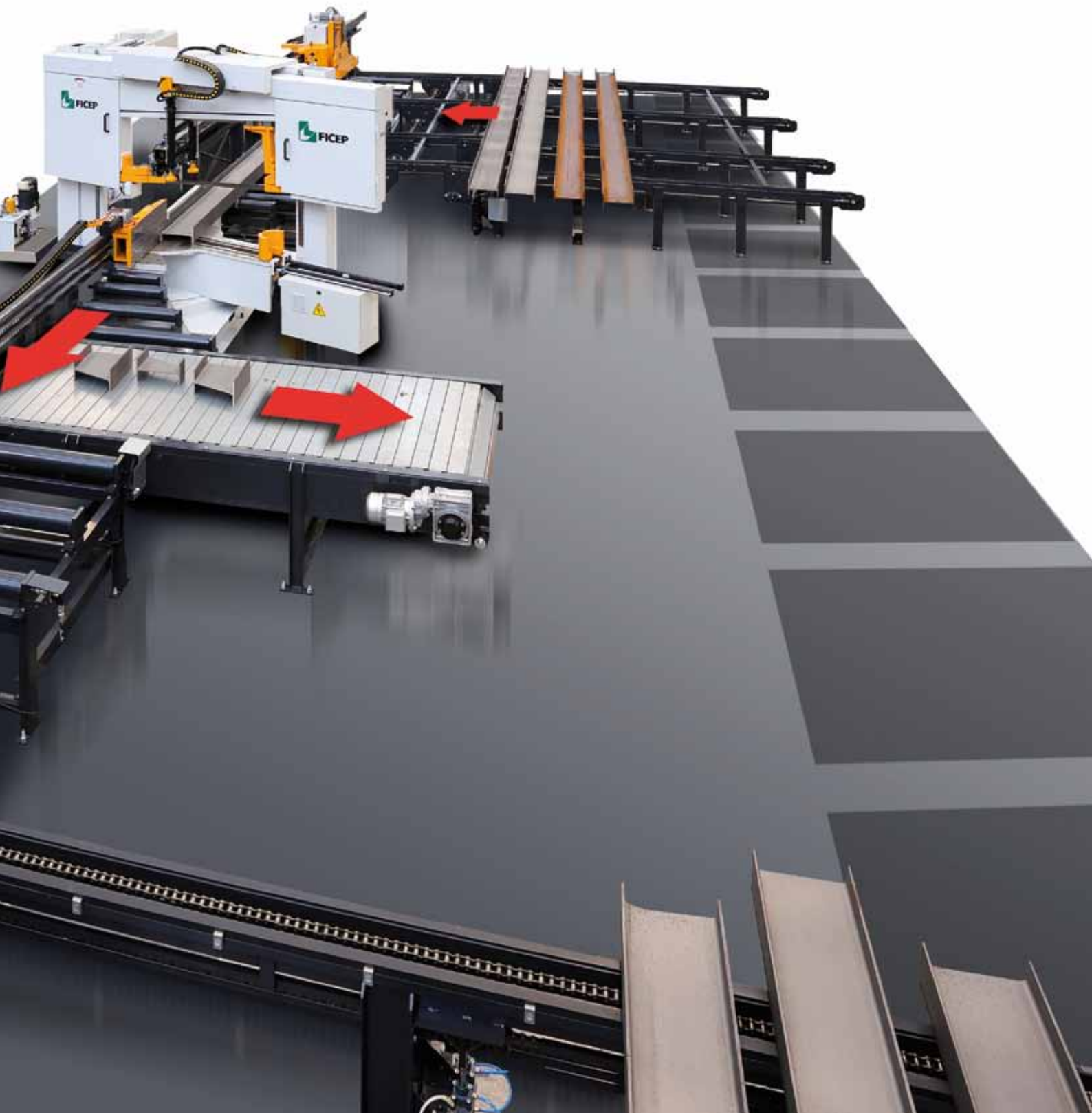
Automatic unloading device with magnet (optional)

KATANA saws can be equipped with automatic:

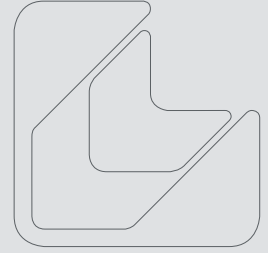
- powered infeed and outfeed rollerways
- transfer tables with carts or catches
- CNC controlled length measuring gauges
- Pegaso CNC control unit to automatically manage the cutting cycles and to connect the machine with the network



Complete automatic
system







Lenght gauge



Short piece unloading device



MAIN TECHNICAL SPECIFICATION



KATANA STAND ALONE BAND SAWS

MODEL		K 60	K 100	K 115	K 126 F	K 126	K 206	K 258
Sawing Capacity 90°	mm	610x310	1015x450	1100x510	1250x600	1250x600	2000x600	2540x815
Saw Mitering	Degrees	± 60°	± 60°	± 60°	no mitering	± 60°	± 45°	± 45°
Blade dimensions	mm	34 x 1.1	41 x 1.3	54 x 1.3	67 x 1.6	67 x 1.6	67 x 1.6	67 x 1.6
Motor power	kW	7	9	15	15	15	15	18

KATANA CN BAND SAWING SYSTEMS

MODEL		K 60L	K 100L	K 115L	K 126L	K 206L	K 258L
Sawing Capacity 90°	mm	610x310	1015x450	1100x510	1250x600	2000x600	2540x815
Saw Mitering	Degrees	± 60°	± 60°	± 60°	± 60°	± 45°	± 45°
Blade dimension	mm	34 x 1.1	41 x 1.3	54 x 1.3	67 x 1.6	67 x 1.6	67 x 1.6
Motor power	kW	7	9	15	15	15	18
CNC Axes	no.	3	3	3	3	3	3

The manufacturer reserves the right to make changes to the indicated specifications without notice. All the specifications in this catalog are not binding on the manufacturer.



HARDWARE & SOFTWARE

PEGASO SYSTEM

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

The CNC is positioned on a mobile control panel, so the operator can have a complete view of the machine. The most of input / output interface devices and brushless motors drives are located on the machine.

Programming

- Simplified data input with graphical direct preview
- 3D piece view
- Diameter programming with automatic tool assignment
- Linear, matrix and flange patterns
- Programming with millimeters or inches (also fractions)
- Linear nesting

Processing

- Automatic tool assignment
- Unit offset automatic summing
- Automatic grouping and ordering of operations
- Setup modification lines generation
- Rototraslation of executing program to follow sheet orientation

Execution

- Automatic cycle stop for tool setup modification
- Probing capability to adjust program quotes to actual material position
- Automatic software to prevent machine unit collisions
- Automatic software to prevent tool collisions against material
- Tool management with operating parameters and tool life management
- Messages and alarm notifications to the operator using customer language with history log
- Graphic screens to display machine pieces handling tables
- Production times recording



PC characteristics

- CPU AMD Ontario 1.6 GHz Dual Core
- Ram 2 Gb
- Disk Compact Flash 8 Gb
- USB 6 High Speed 2.0 (one on the front)
- LAN Ethernet 10/100/100 Mbit
- Keyboard Industrial PS2
- Display LCD Led technology 15 " with touch screen
- Industrial panel with 42 push buttons
- Op. Sys. Windows 7 Embedded with EWF filter
- Teleservice software for remote diagnostics

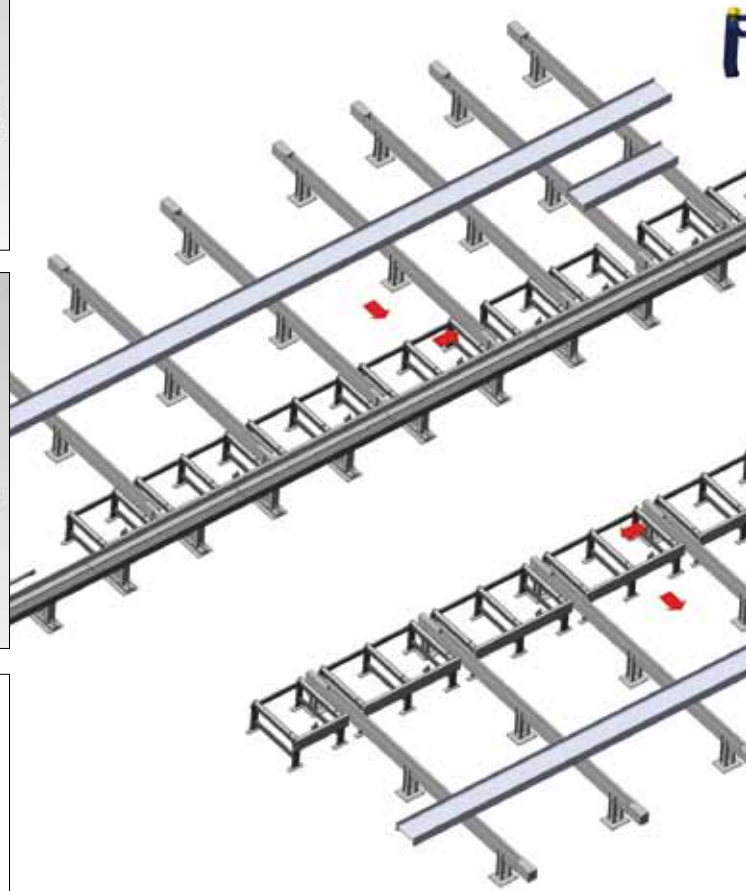
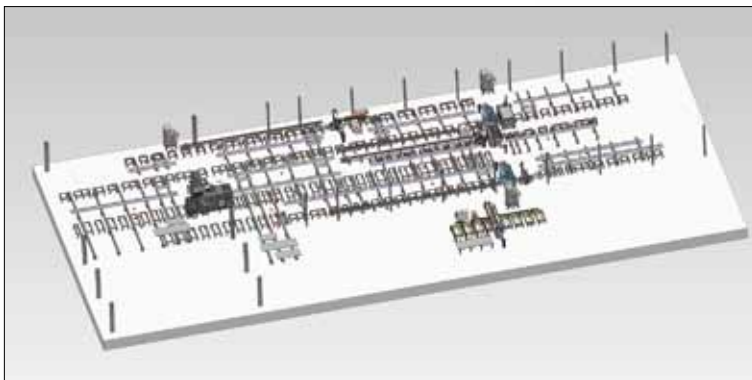
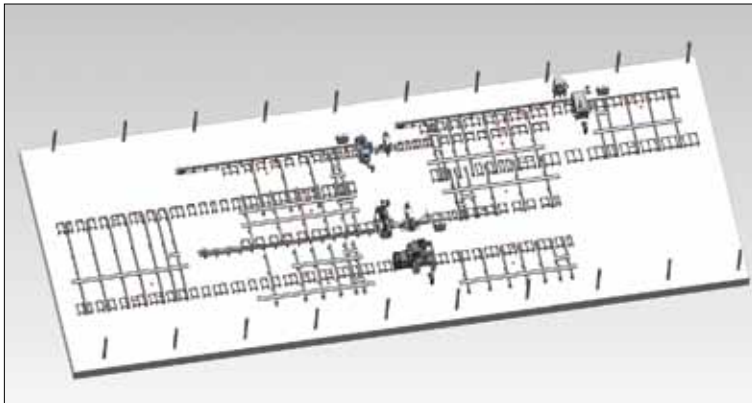


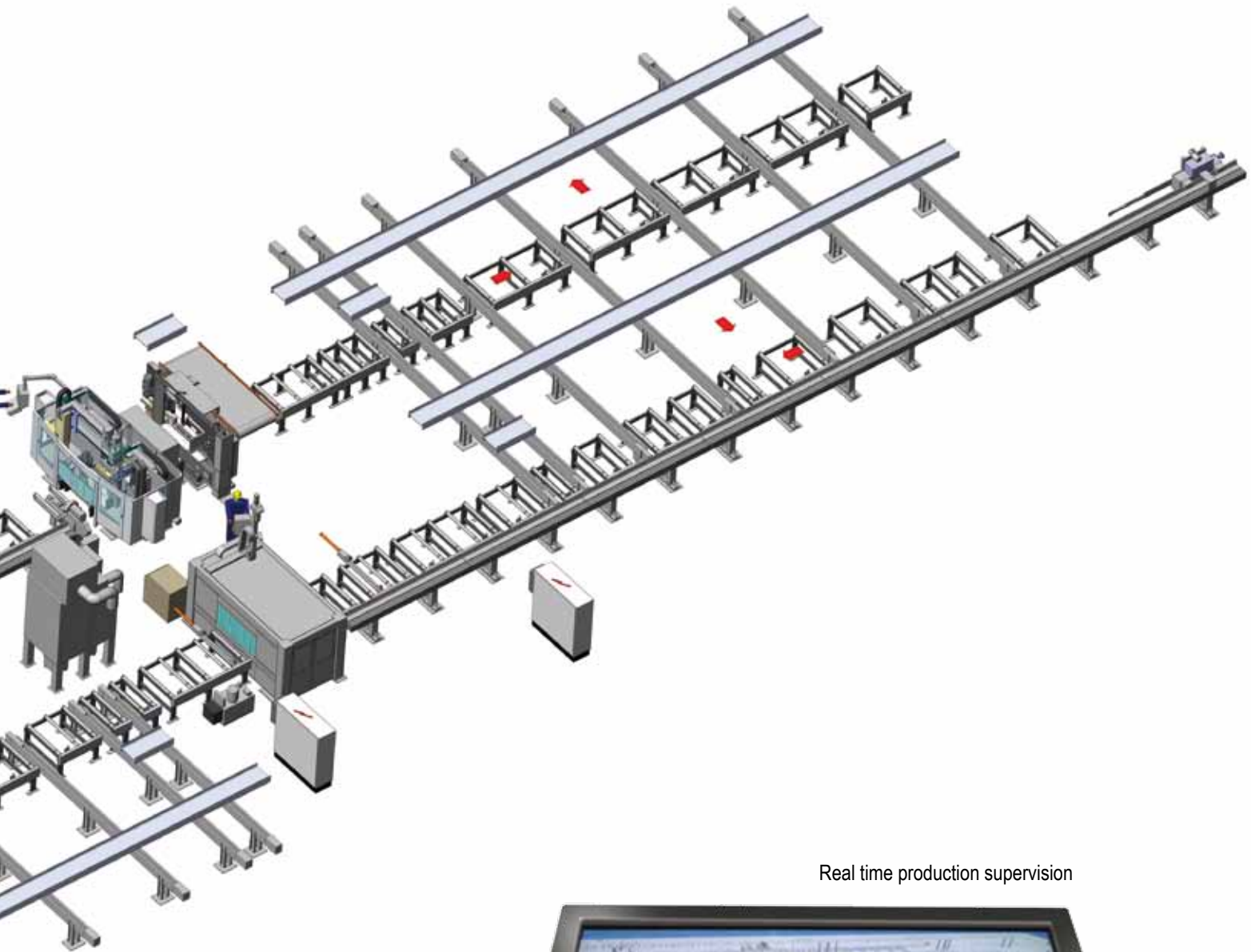
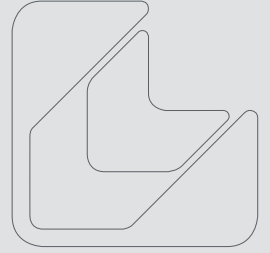
AUTOMATIC SYSTEMS

Ficpe is the world leading supplier of fully automatic systems for structural steel industry. We have sophisticated software in use to carry out challenging production capacity calculations based on each project's requirements and layout proposals. This way we can study the optimal solution for each type of customer.

For operating sophisticated automatic systems FICEP Group has a software division, Steel Projects. The PLM software is an integrated solution is to Manage, Automate and Optimize the steel fabrication workflow from the BIM (Building Information Model) through Production planning and Management of logistics to the erection site.

The real-time information feedback from the workshop can be used to create reports of individual machines or the overall workshop. This data is invaluable for managing revisions, time scheduling, stock control, purchasing, nesting, cost analysis and to be able to get most out of the CNC machinery.





Real time production supervision



since 1930



HEADQUARTERS
via Matteotti, 21
21045 GAZZADA SCHIANNO VA - ITALY
Tel +39 0332 876111
Fax +39 0332 462459
Email: ficep@ficep.it

FICEP France
Z.I. "Les Platanes" – CS 80101
33360 Camblanes – FRANCE
Tel. +33 (0) 556 201555
Fax +33 (0) 556 201555
Email: ficep@ficep-france.fr

FICEP Corporation
2301 Industry Court - Forest Hill Industrial Park
Forest Hill, MD 21050 – USA
Tel. +1 410 588 5800
Fax +1 410 588 5900
Email: info@ficepcorp.com

FICEP Iberica
Poligono Industrial Ali-Gobeo
Calle Becolarra, N2 - Pabellón 30
01010 Vitoria (Alava) – SPAIN
Tel. +34 945 148311
Fax +34 945 148137
Email: ficep@ficepiberica.com

FICEP Hong Kong
Unit 204, 2nd floor - Block C
DB Plaza Discovery Bay - HONG KONG
Tel. +852 2544 6888
Fax +852 2544 5123
Email: info@ficep.com.hk

FICEP UK
3 Gilcar Way Victoria Park
Wakefield Europort
Normanton WF10 5QS – UK
Tel. +44 192 4223530
Fax +44 192 4223666
Email: info@ficep.co.uk

FICEP DE
Otto Hahn Strasse 46
48529 Nordhorn – GERMANY
Tel. +49 5921 304570
Fax +49 5921 3045729
Email: info@ficep.de

FICEP Middle East
144 El-Alam Str. Forest Bldg., Badaro
Beirut Court House P.O. Box 2019/116
Beirut – LEBANON
Tel. +961 1 386664
Fax +961 1 386011
Email: info@ficep-me.com

FICEP Ireland
Tel. +44 192 422 3530
Mobile +44 771 161 0244
Mobile +44 773 959 0022
Email: info@ficep.co.uk

FICEP Mexico
Valle Umbrio 123
San Luis Potosi – MEXICO
Tel. +52 444 825 6377
Mobile +521 444 204 4227
Email: joseba@ficepmexico.com.mx

FICEP Sul America Service
Av. Vital Brasil n° 540 - Centro – Poà
Sao Paolo – BRASIL
Tel/Fax +55 11 4636 8798
Email: import@ficepsulamerica.com.br

FICEP India Service
Pradman Engineering Services Pvt. Ltd.
Plot No A-490, Road U, Opp. DGP Windsor,
Next to Irmra, Wagle Industrial Estate,
Thane (W) - 400604 INDIA
Tel. +91 2225806179 / 80
Mobile +91 9702701730

FICEP Russia
МОСКОВСКИЙ ОФИС
127051, Москва, ул. Петровка, 20/1, офис 36.
Тел. +7 4956423794, +7 4956423624
Факс: +7 4955858696
Email: pmcm@mail.ru

www.ficepgroup.com