

HARDWARE & SOFTWARE

FICEP MINOSSE CONTROL UNIT

The new generation control unit, with controlled axes, is based on a field bus CANopen technology.

The CNC is positioned in a mobile control panel to let the operator have a complete system overview. All the input and output cards are connected to the bus and positioned, where possible, directly on the machine.

The CNC is equipped with:

- digital inputs (24V – optoinsulated)
- digital outputs (24V – protected transistors)

The control panel is an industrial PC containing the CNC and having the following specifications:

- 600 Mhz CPU with L2 512 KB “cache”
- 512 MB RAM memory
- Touch screen colour video TFT 12.1”
- Keyboard panel and auxiliary pushbutton panel
- 10/100 RJ45 Ethernet port
- USB modem
- 1 additional USB port
- WINDOWS XP Embedded operative system
- Teleservice software

Programming

- Simplified data input (with tables and workpiece on-screen graphics)
- Absolute and incremental values
- Diameters programming
- Linear, matrix and flange patterns

Processing

- Automatic tool assignment

Execution

- Automatic cycle stop for “setup” modification, and on-screen indication of the tools to be changed.
- Possibility for the drill heads to operate in “multitasking” mode in their working areas (even with automatic tool changer).
- Automatic control to prevent any possible collision of the drills.
- Drilling parameters table.

All the indications are clearly displayed on the screen, and concern:

- Current program indication, with clear description of the program running at the moment.
- CNC inside and outside alarms.
- Registration of the date and time of the last 100 alarm messages.
- Diagnostic messages to the operator.

“WIN-NEST” Software Package, specifically studied for nesting of the piece programs into the large plate after having imported them either from a CAD application, or from the software package “WIN-STEEL”. The package runs on an IBM PC or compatibles.



via Matteotti, 21
21045 GAZZADA SCHIANNO VA - ITALY
Tel. +39 0332 876.111 - Fax +39 0332 462.459
www.ficepgroup.com
E-mail: ficep@ficep.it



Z.I. "Les Platanes" - B.P. 20
33360 CAMBLANES - FRANCE
Tel. +33 (0) 556.20.15.55
Telefax +33 (0) 556.20.15.56
E-mail: ficep@ficep-france.fr



2301 Industry Court - Forest Hill Industrial Park
FOREST HILL, MD 21050 USA
Tel. 1-410-588-5800
Fax 1-410-588-5900
E-mail: info@ficepcorp.com



Poligono Industrial Ali-Gobeo
Calle Becolarra, N2 - Pabellón 30
01010 VITORIA (ALAVA) - SPAIN
Tel. +34 945.14.83.11
Fax: +34 945.14.81.37
E-mail: ficep@ficepiberica.com



Unit 204, 2nd Floor - Block C
DB Plaza Discovery Bay - HONG KONG
Tel. +852-2544 6888
Fax +852-2544 5123
E-mail: info@ficep.com.hk



3 Gilcar Way Valencia Park
Wakefield Europort
Normanton WF 10 5QS
UNITED KINGDOM
Tel: 0044 1924 223530
Fax: 0044 1924 223666
E-mail: info@ficep.co.uk



144 El-Alam Str. Forest Bldg., Badaro
P.O.Box 2019/116 Beirut Court House Beirut
LEBANON
Tel. +961 1 386664
Fax +961 1 386011
Mobile: +961 70126826
E-mail: info@ficep-me.com



Otto Hahn Strasse 46
48529 Nordhorn Deutschland
Telefon: +49 5921 30457-10
Telefax: +49 5921 30457-29
Mobil.: +49 171 120 9932
E-mail: info@ficep.de



Av. Vital Brasil n° 540 - Centro -
08557-000 Poá - São Paulo - BRASIL
Tel./Fax: +55-11-4636-8798
E-mail: info@ficepsulamerica.com.br



Office, Tele/fax 0044-2886751150
Mobile 0044-7711610244
Mobile 0044-7876591176



127051, Москва, ул. Петровка, 20/1, офис 36.
Тел.: +7 (495) 642-37-94, 642-36-24
Факс: +7 (495) 583-96-96
E-mail: pmcm@mail.ru



FICEP INDIA SERVICE
Pradman Engineering Services Pvt. Ltd.
Plot No A-190, Road U, Opp. DGP Windsor,
Next to Imra, Wasle Industrial Estate,
Thane (W) - 400604 India
(Tel) +91 22 25806179 / 80
Gaurang Trivedi - Technical Services
(Mob) +91 9702701730

Advanced Agency 07/2011



TIPO A

Automatic CNC drilling and thermal cutting line for large plates



TIPO A

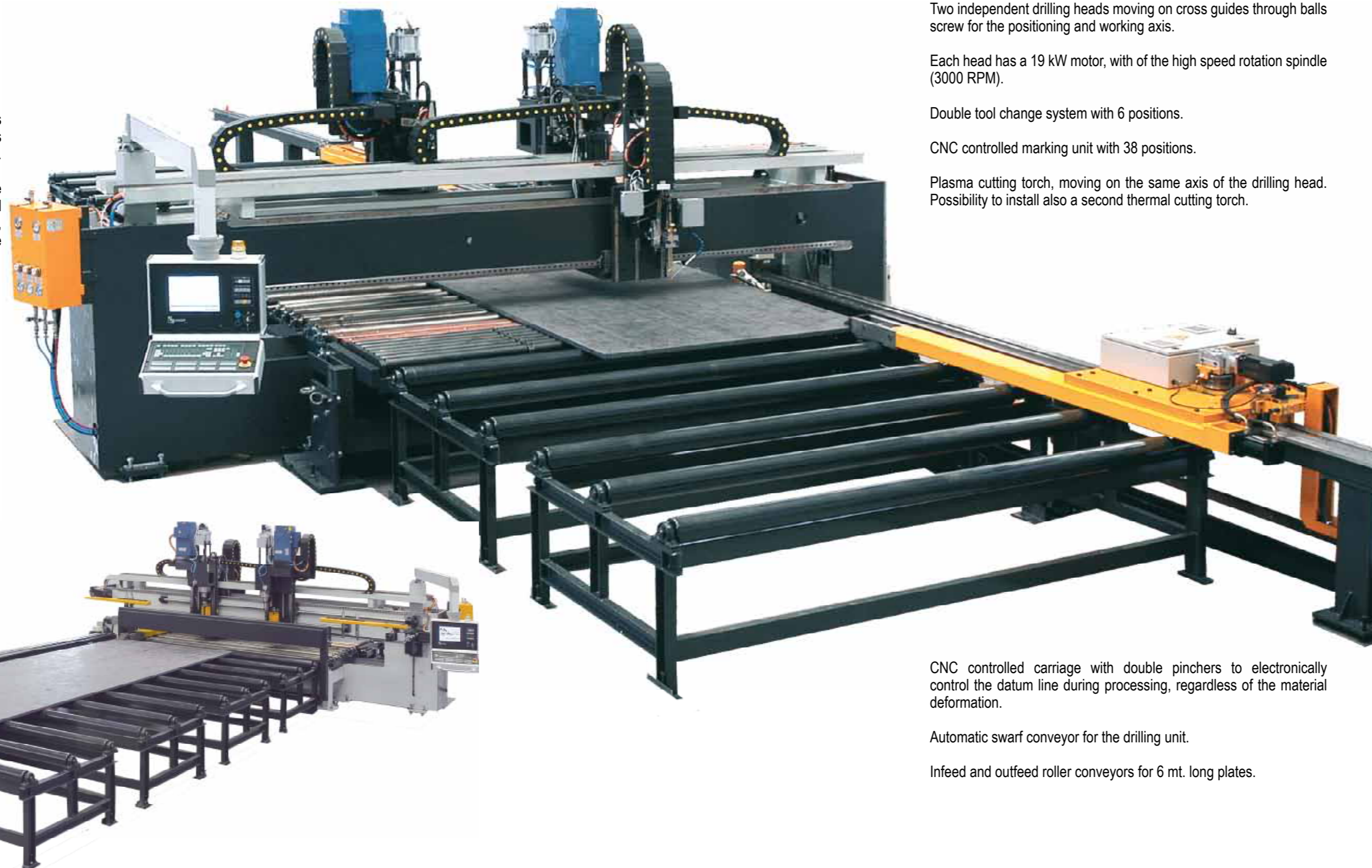
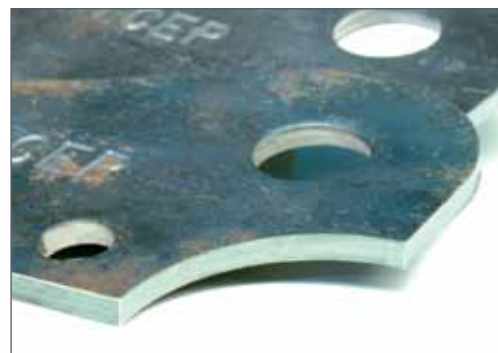
Suitable for:

- Manufacturers of bridges and viaducts
- Shipyards
- Manufactures of agricultural and earth moving machinery
- Heavy structural steel manufactures

The main feature of Ficep CNC working centers is to automatically process the largest plates available on the market without thickness limits.

The CNC line A 31 can carry out in one cycle the main operations required in the steel construction industry such as drilling, milling, pointing, tapping, marking and cutting with the following advantages:

- Reduced overall dimensions
- Reduced material handling
- High processing speed
- Variety of operations
- Precision
- Productivity
- Optimization



Over dimensioned portal frame.

Two independent drilling heads moving on cross guides through balls screw for the positioning and working axis.

Each head has a 19 kW motor, with of the high speed rotation spindle (3000 RPM).

Double tool change system with 6 positions.

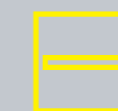
CNC controlled marking unit with 38 positions.

Plasma cutting torch, moving on the same axis of the drilling head. Possibility to install also a second thermal cutting torch.

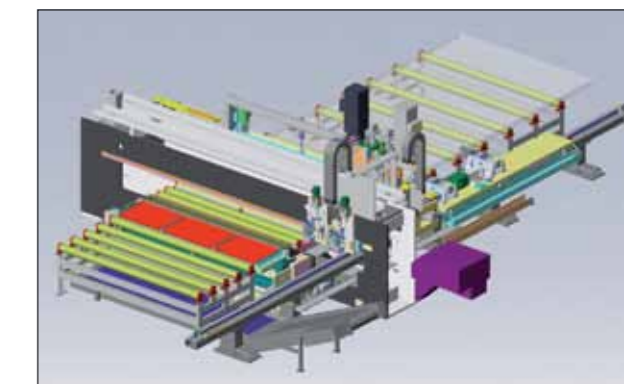
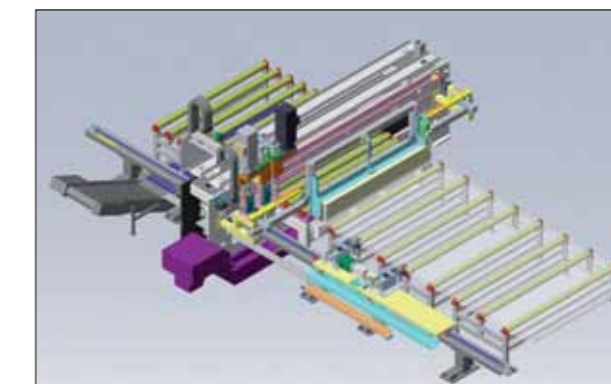
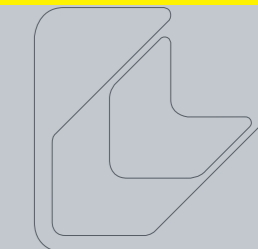
CNC controlled carriage with double pinchers to electronically control the datum line during processing, regardless of the material deformation.

Automatic swarf conveyor for the drilling unit.

Infeed and outfeed roller conveyors for 6 mt. long plates.



MAIN TECHNICAL SPECIFICATIONS



MODEL		Tipo A25 LG	Tipo A16	Tipo A 31
Specifications of the large plate to be processed (entry side):				
Length	max.mm	6000 (20')	3000 (118")	6000 (20')
	min. mm	2500 (98.5")	1500 (59")	2500 (98.5")
Width	max.mm	2540 (100")	1600 (63")	3100 (10')
	min. mm	500 (20")	400 (15.75")	400 (15.75")
Specifications of the processed piece (exit side):				
Length	mm	200 (8")	200 (8")	200 (8")
Width	mm	150 (6")	150 (6")	150 (6")
Max. positioning weight	Kg	5000 (11,000 lbs)	5000 (11,000 lbs)	7500 (16,500 lbs)
Longitudinal transferring speed	m/mm	30 (98 FPM)	30 (98 FPM)	30 (98 FPM)
Vertical drill head	no.	1 (2)	1	1 (2)
Spindle per vertical drill head	no.	1	1	1
Maximum hole diameter	mm	40 (50) - 1 9/16" (2")	40 (50) - 1 9/16" (2")	40 (50) - 1 9/16" (2")
Maximum thickness that can be drilled	mm	100 (4")	130 (5")	130 (5")
Spindle rotation motor (a.c.)	kW	19 (25 HP)	19 (25 HP)	19 (25 HP)
Spindle rotation speed with continuous adjustment from program	RPM	180 ÷ 3000	180 ÷ 3000	180 ÷ 3000
Automatic tool changer at 6 positions	no.	1 (2)	1	1 (2)
Optional marking unit at 38 stations	kN	80 (9.7 US tons)	80 (9.7 US tons)	80 (9.7 US tons)
Oxycutting torch	no.	1 (2)	1	1 (2)