



L ANGLES

**RANGE OF MACHINES AND SYSTEMS
FOR THE STEEL CONSTRUCTION INDUSTRY**

CUSTOMERS ALL AROUND THE WORLD HAVE CHOSEN OUR HIGH-TECHNOLOGY SYSTEMS IN CONSTRUCTING THEIR FUTURE

Our CNC angle and flat line solution gives the opportunity to process not only angles but also channels and flats.

This type of automation enables a firm to process, in the most efficient manner, these miscellaneous shapes by going from stock length material to finished parts in one automated CNC operation. Our systems typically eliminate the manual layout and automate the production of holes, notches, part marking and cutting the finished part to length.

Our CNC lines for the processing of angles are predominant throughout the world.

Wherever you are, if you happen to see a line of pylons or telephone poles, they were probably constructed thanks to the substantial contribution of a Ficep angle machine.

In the structural steel industry, instead, the manufacturing of angle bracings, cleats, purlins, trusses, and the design of beam end connections, bracings, stiffeners, end plates, base plates requires operations that can all be addressed with our machines.





**RANGE OF MACHINES
AND SYSTEMS
FOR THE
STEEL CONSTRUCTION
INDUSTRY**

ANGLES



1930 - 1940



1940 - 1950



1950 - 1975



FICEP was founded in October 1930 in Gazzada Schianno, near Milan, as "Fabbrica Italiana Cesote E Punzonatrici" - Italian Shears and Punching Machines Factory.



Close to our Customers, at every latitude

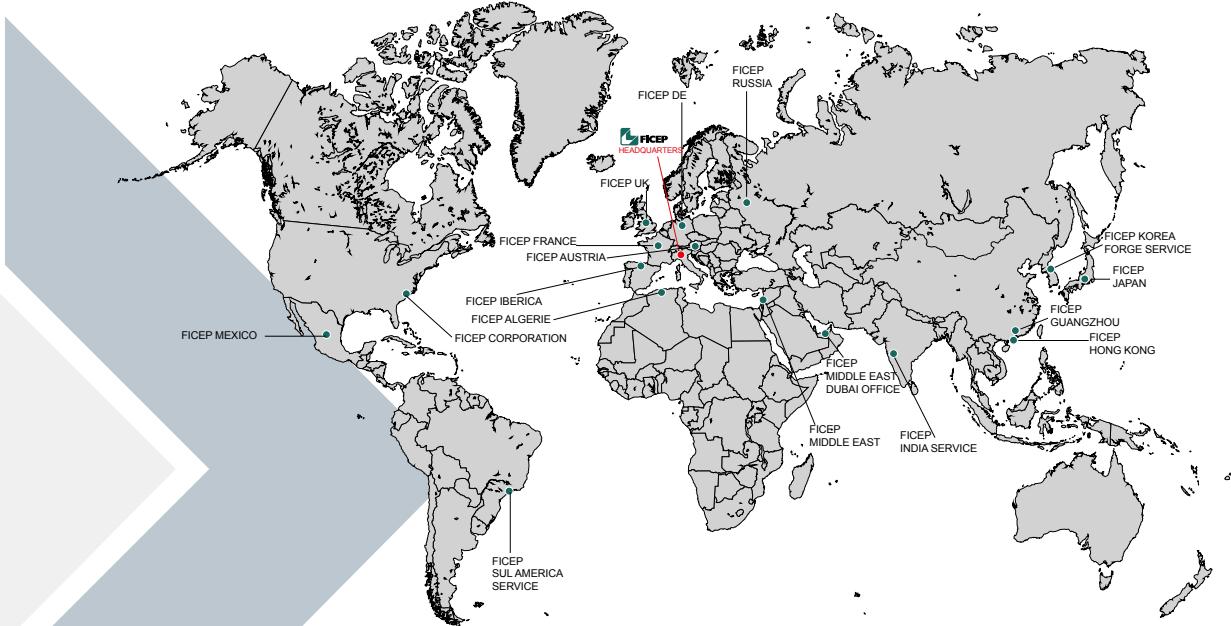
For over eight decades, the name Ficep has been synonymous with internationality and worldwide presence.

Our footprint continued to grow on an international scale, with a wide network of subsidiaries and agencies for sales, after-sales, training, and spare parts supply, covering all continents to ensure close proximity to our customers.

FICEP. A growing family

Since 1930 the management of the company is committed to ensure continuity of vision and values between the past, present and future of our company, and to maintain the most suitable organization to follow the markets evolution.

Worldwide Network





The main location in Gazzada Schianno (Varese, Italy), which comprises over 100.000 square meters, contains Corporate Headquarters, Research & Development, Academy of Technology, Showroom and the main after sales service departments. Additional plants nearby are focused on the assembly of the CNC lines for the processing of angles and plates, and of sawing equipments, as well as on the machining of small and medium size mechanical components thanks to an ultra modern machining center that works non-stop seven days a week.

At the main plant there are two machining divisions for processing welded frames for Ficep's plate and forging machines and four assembly lines for Ficep drills, copers, forging presses and plate processing equipment.

The Ficep Manufacturing Process reduces or eliminates waste in the production process and follows lean principles which have a proven track record of operational and strategic success which ultimately translates into increased value for the end customer.

Ficep is the world leader in developing and supplying automatic, intelligent steel fabrication systems.

The continuous understanding of the customer's processes allows us to keep on developing the best solutions currently available for the structural steel fabrication industry. We have a dedicated engineering department and 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.

Headquarters

Ficep manufactures the machines and develops the production management software for structural steel fabricators. Today there is around 70000 m² of covered manufacturing facilities across 5 plants. The headquarters and main plant is located in Gazzada Schianno Italy with three additional plants nearby. There is also an additional plant in Bordeaux, France.



By investing in and owning the complete manufacturing process, Ficep is able to optimize its processes and offer extremely high quality equipment. It also enables Ficep to be more flexible and innovative in its approach enabling rapid prototyping and a faster response to variable market demands



ANGLES



RANGE OF MACHINES AND SYSTEMS FOR THE STEEL CONSTRUCTION INDUSTRY



Automatic CNC
punching, drilling,
notching, shearing
and sawing
systems



Automatic CNC
drilling systems

Automatic CNC
drilling and sawing
or coping systems

Automatic CNC
coping systems

Automatic CNC
band and disc
sawing systems



Automatic CNC
punching, drilling,
milling, plasma and
oxy cutting systems

Automatic CNC
punching, drilling
and shearing
systems



Surface treatment
and shot blasting
systems



Automatic systems
solutions for
Intelligent Steel
Fabrication

CNC PUNCHING AND SHEARING LINES FOR THE PROCESSING OF ANGLES A





38 characters rotary marking unit



Quick-change blade holder



Angles infeed system with roller



CNC PUNCHING AND SHEARING LINE FOR ANGLES - A	A102	A162	A164	A166	A204	A206
Angle size (410 N/mm ²) [min.mm]	30x30x3	30x30x3	30x30x3	30x30x3	40x40x4	40x40x4
Angle size (410 N/mm ²) [max.mm]	100x100x10	160x160x15	160x160x19	160x160x19	200x200x25	200x200x25
Diameter per flange [no.]	1	1	2	3	2	3
Punching force [kN]	500	650	720	720	1000	1000
Punching diameter [max.mm]	32	32	32	32	32	32
Shearing force [kN]	500 (1000)	800(1800)	900 (2000)	900 (2000)	4500	4500

SUPER PERFORMANCE CNC PUNCHING AND SHEARING LINES FOR ANGLES - SP



Rotating loading system to transfer the profiles onto the infeed table





Pincher for precise material clamping



Bar length survey device



Quick change punch holders



Cartridge type marking unit



CNC PUNCHING AND SHEARING LINE FOR ANGLES - SP	SP10T2	SP10T4	SP12T4	SP16T6	SP20T6	SP25T6
Angle size (410 N/mm ²) [min.mm]	35x35x3	35x35x3	35x35x3	40x40x4	40x40x4	40x40x4
Angle size (410 N/mm ²) [max.mm]	100x100x10	100x100x10	120x120x13	160x160x19	200x200x25	250x250x25
Diameter per flange [no.]	1	2	2	3	3	3
Punching force [kN]	500	500	650	800	1000	1000
Punching diameter [max.mm]	32	32	32	32	32	32
Shearing force [kN]	1000	1000	1800	2200	4500	4800

CNC PUNCHING AND SHEARING LINE FOR ANGLES - HP





Quick change shear tooling
for flats and channels



Automatic programmable
marking unit



Punching units



CNC PUNCHING AND SHEARING LINE FOR ANGLES- HP	HP10T4	HP12T4	HP16T4	HP16T6	HP20T4	HP20T6	HP25T6
Angle size (410 N/mm ²) [min.mm]	30x30x3	30x30x3	40x40x4	40x40x4	40x40x4	40x40x4	40x40x4
Angle size (410 N/mm ²) [max.mm]	100x100x10	120x120x13	160x160x19	160x160x19	200x200x25	200x200x25	250x250x25
Diameter per flange [no.]	2	2	2	3	2	3	3
Punching force [kN]	500	650	800	800	1000	1000	1000
Punching diameter [max.mm]	32	32	32	32	32	32	32
Shearing force [kN]	1000	1800	2200	2200	4500	4500	4800

HIGH PERFORMANCE CNC PUNCHING AND SHEARING LINES FOR ANGLES - XP

*The fastest
angle processing line ever!*





CNC PUNCHING AND SHEARING LINE FOR ANGLES - XP

	XP10T2	XP10T4	XP12T4	XP12T6	XP16T4	XP16T6
Angle size (410 N/mm ²) [min.mm]	30x30x3	30x30x3	30x30x3	30x30x3	40x40x4	40x40x4
Angle size (410 N/mm ²) [max.mm]	100x100x10	100x100x10	120x120x13	120x120x13	160x160x19	160x160x19
Diameter per flange [no.]	1	2	2	3	2	3
Punching force [kN]	500	500	650	650	800	800
Punching diameter [max.mm]	32	32	32	32	32	32
Shearing force [kN]	1000	1000	1800	1800	2200	2200



Daisy-wheel marking unit



On-board manifolds



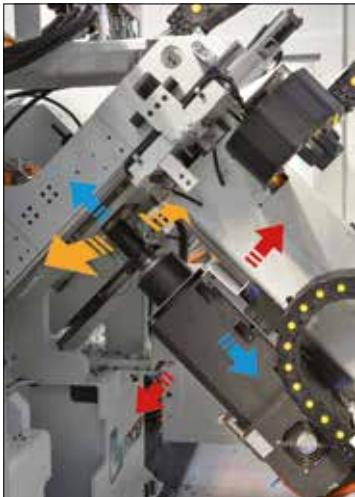
Quick change punch holders



Single cut shearing unit

AUTOMATIC CNC HIGH SPEED DRILLING AND CUTTING LINES FOR ANGLES - RAPID





Complementary axes



Hydraulic shearing unit



Circular saw



HIGH SPEED CNC DRILLING LINE FOR ANGLES - RAPID

	RAPID 16T	RAPID 20T	RAPID 25T	RAPID 35T
Angle size (410 N/mm ²) [min.mm]	40x40x4	40x40x4	60x60x6	60x60x6
Angle size (410 N/mm ²) [max.mm]	160x160x20	200x200x25	250x250x40	350x350x40
Drilling heads [no.]	2	2	2	2
Drilling tools per head [no.]	3 (6)	3 (6)	3 (6)	3 (6)
Drilling diameter [max.mm]	40	40	40	40
Spindle speed [max.RPM]	3500	3500	3500	3500
Spindle power [kW]	11 (15)	11 (15)	19 (27)	19 (27)
Spindle sub-axis stroke [mm]	200	200	200	200
Cutting unit	Shear (circular saw)	Circular saw (shear)	(Circular saw - Shear)	(Circular saw)



Service is our Power



The secret of excellence is the ability to maintain it over time. For our clients, after-sales service, training and technical assistance are at least as important as the products we produce in order to keep a high level of availability during the product life cycle.

Ficep Customer Service is managed by an accurately trained team to respond in real time to requests from all over the world.

Professionalism, know-how and communication skills are essential requirements for all the people involved in the technical assistance and after-sales service.

With our 87 years of experience in the field, we can rely on a team of professional technicians specialized in recognizing, analysing and diagnosing a technical and/or application issue remotely thanks to their special training.

Support is offered through our Help-Line Service, active from Monday to Friday, and through Ficep Tele-Service, a telemetric assistance used to resolve software related or configuration issues, which enables anytime the remote interaction with the machine.

For more complex technical situations, our proximity to the client is guaranteed by a worldwide network of engineers and specialized technicians, ready to intervene on-site, to analyse each situation and define the most appropriate solution.

Visit our website www.ficepgroup.com for more information about our Customer Service, Spare Parts and Consumables.



PROBLEM DETECTION

TELE-ASSISTANCE AND
SOFTWARE UPDATE

SPARE PARTS
DETECTION

ON-SITE
TECHNICAL VISITS

PREVENTATIVE
MAINTENANCE
EXTRA-ORDINARY
MAINTENANCE



START UP

TRAINING SES-
SION
AT FICEP SPA

INSTALLATION
AND
ASSEMBLY AT
CUSTOMER SITE

TRIAL TEST

INTEGRATION
WITH
CUSTOMERS
MANAGEMENT
SYSTEM



**CUSTOMER
SERVICE**

SUPPLY OF
SPARE PARTS
TOOL & CONSUMABLES

RANGE OF MACHINES AND SYSTEMS FOR THE STEEL CONSTRUCTION INDUSTRY



BEAM PROCESSING



EXCALIBUR-VICTORY
Mono spindle CNC
Horizontal Drilling Systems



ORIENT range
Mono spindle CNC
Profile Processing Center



VANGUARD range
Three spindle CNC
Profile Processing Lines



LIBERTY range
Three spindle CNC
Profile Processing Lines



PLATE PROCESSING



P range
CNC Punching, Drilling
and Marking Systems



TIPO D range
CNC Punching, Drilling,
and Cutting Lines



KRONOS range
CNC High definition
Plasma and Oxy Cutting
Systems



GEMINI range
CNC Drilling, Milling
and Thermal Cutting Systems



ANGLE and FLAT PROCESSING



A range
CNC Punching, Drilling,
Marking and Shearing Systems



SP range
Super Performance
CNC Punching and Shearing Lines



HP range
CNC Punching, Drilling, Notching
Marking and Shearing Systems



XP range
High performance CNC Punching and
Shearing Lines



VALIANT range
Three spindle CNC
Profile Processing Lines



ENTERPRISE range
CNC Gantry Drilling Lines



FLEX range
CNC Coping Systems



PLANETARIUM range
Automatic 9 axis CNC thermal
coping robot



KATANA range
Band Sawing Systems



TIPO G range
CNC Drilling, Milling and Thermal
Cutting Systems



TIPO B range
CNC Punching, Marking and
Thermal Cutting Systems



TIPO C range
CNC Punching, Drilling and Thermal
Cutting Systems



RAPID range
CNC Drilling,
Marking and Cutting Systems



SURFACE TREATMENT



Shot blasting System
Surface treatment systems



THE FLEET



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