

80 YEARS
1930 - 2010

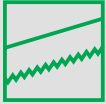


BH - LBH

Band saws and
Band sawing lines



FICEP
Sp.A.



Double-column band saws to cut at length steel construction profiles.

Thanks to this sawing line range, Ficep completes its portfolio of automatic lines for the steel construction industry becoming a unique and expert supplier even in the band saw cutting field, either for stand-alone saws or combined saws in line with the well-known drilling units DX / DZ.

Ficep provides three main features on the BH saw:

- **sturdiness**
- **technology**
- **reliability**

STURDINESS

The BH frame is sturdy and is made of electro-welded tubular steel with adequate stiffening ribs to give torsion, stiffness, no vibrations, noiseless and precise cutting.

The body rotates as standard on a toothed wheel controlled by an encoder in order to carry out mitred cuts. In the bigger models the toothed wheel is complete with a sliding bearing.

The arc is made of an electro-welded plate and moves on sliding prismatic guides. The arc movement is produced by a hydraulic cylinder controlled by a proportional valve to control the speed.

The arc supports the two flywheels to grant the band rotation. On one wheel there is the 3-phases motor equipped with an epicyclic reduction unit to obtain all the possible speeds in accordance with the kind of material, deformation and band wearing.

TECHNOLOGY

The BH saws are equipped with all the devices which after years of experience are considered essential to grant the best cutting result in steel construction:

- hydraulic blade tightening to tighten the band
- double blade-guides: the first guide is fixed on one side of the profile, and the other guide that is on the opposite side of the profile, this is mobile and its extension is hydraulically controlled. The blade-guides are equipped with a self-adjustable guiding system having hard steel plates to keep the band teeth always perpendicular to the cutting section
- powered brush synchronised with the blade to take off the swarf from the band teeth
- hydraulic vertical hold-downs that manually slide on prismatic guides
- blade lubricating/cooling system included in the working cycle
- group of two hydraulic independent vices to clamp the profile while being cut either at 90° and at mitred positions
- devices for saw rotation through a powered mechanical toothed wheel with survey of the rotation mitre thanks to an encoder
- easy electronic systems that can be extended to manage completely automatic sawing lines (LBH)



BH - LBH



Brush for blade cleaning



Independent vices



RELIABILITY

The BH saws are mass-manufactured on the basis of forefront criteria. Each component is entirely produced in the modern Ficep production units in Varese and in Crosio della Valle, the assembly instead, handled in certified subgroups, allows us to optimize the delivery to our final customers either if the saw will be combined with a drilling unit or instead a stand-alone machine.

The electrical system is on board of the machine in an

advantageous position from both functional and aesthetical 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.

Each BH saw is realized as stand-alone saw but already designed to become an automatic sawing centre upon customers request.





LBH





The BH saws are designed to be automated with the integration of:

- 6-9-12 mt long powered infeed and outfeed rollerways
- transfer tables with carts or catches
- CNC controlled measuring length gauges
- last generation Minosse CNC control unit to automatically manage the cutting cycle and to connect the machine with hardware of higher level





HARDWARE and SOFTWARE

TAURO control unit

“TAURO” control unit, with 2 controlled axes, complete with control panel and relevant electrical equipment.

The control unit is equipped with:

- ARM principal microprocessor at 200 Mhz with 128 MB RAM
- 10/100 RJ45 Ethernet port
- 2 USB ports
- Real-time processor
- Control panel with touch screen colour video TFT 12”
- Digital inputs (24V – optoinsulated)
- Digital outputs (24V – protected transistors)
- USB modem with teleservice software

The communication with the operator is done on a main window, and on different auxiliary windows. On the main page there are all the main controls of the machine, and from there it is possible to view and to control the length gauge positioning value, the sawing speed and the eventual alarm message. On the auxiliary pages there are all the necessary parameters for diagnostics and settings.

The standard equipment is manufactured according to EN 60204-1 standards. Special requests concerning both special rules and special protections will be considered upon Customer’s request.

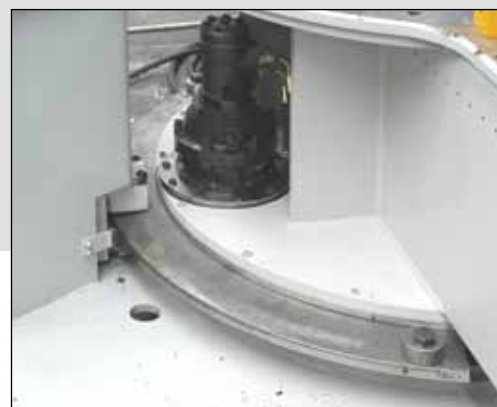
The power supply is 400 V - 50 HZ - 3 Phases.



Drilling and band sawing line
mod. 1003 DFB



blade-tightening device



Powered device for the rotation of the saw



hydraulic vertical hold-downs that manually slide on prismatic guides

MODEL		603 BH	1045 BH	1150 BH	1260 BH	1260 BHF
Sawing Capacity 90°	mm	610x310	1015x450	1100x510	1250x600	1250x600
Sawing Capacity 45°	mm	400x310	620x450	700x510	800x600	-
Sawing Capacity 60°	mm	250x250	350x350	500x500	500x500	-
Band motor power	kW	4	5,5	11	11	11

MODEL		603 LBH	1045 BH	1150 LBH	1260 LBH	1231 TD
Sawing Capacity 90°	mm	610x310	1015x450	1100x510	1250x600	1250x310 (450)
Sawing Capacity 45°	mm	400x310	620x450	700x510	800x600	830x310 (450)
Sawing Capacity 60°	mm	250x250	350x350	500x500	500x500	-
Mitering Angle	Degrees	+/-60°	+/-60°	+/-60°	+/-60°	+/-45°
Saw motor power	kW	4	5,5	11	7,5	4,5 / 4,5



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