

Excalibur 12

A CNC automatic drilling line for structural steel sections and flats

With the introduction of the Excalibur 12, FICEP has once again extended their lead over the competition with the following unique new features:

- Reduced footprint. Only requires 50% of the space of a conventional beam drilling line.
- 25 horsepower “Direct Drive” spindle drive. This new technology has eliminated the need for a gearbox, pulleys or belts.
- 3,000 RPM spindle speed to facilitate the full utilization of today’s tool technology.
- Secondary “X Axis” spindle movement permits the drilling of typical hole patterns without the need to unclamp and reclamp the material.
- Since the material remains stationary while the spindle moves independently in the X and Y axis, the Excalibur can generate scribing for part number and layout locations.
- The secondary “X Axis” can be employed to also generate slots which are required by fabricators.
- Free Standing CNC control permits programming while the system is executing a different program.
- The maximum section size capability has been expanded to 47-1/4” deep sections.
- As an option, the Excalibur can now be provided with a six position automatic tool changer to change tooling without operator involvement. No longer is a user faced with the problem that the operator inserts the wrong size tool, etc.

SPECIFICATIONS

Maximum beam width	48”
Maximum spindle speed	3,000 RPM
Secondary “x” axis	Yes
Scribing	Four sides (optional)
Hydraulic material clamps	Two
Maximum beam width	Ball screw
Spindle stroke optimization	Yes
Axis positioning	Electric servos
Chip containment system	Yes
Maximum drill feed rate	25 IPM
Material storage structure	5” channel
Program memory	Solid state no hard drive required
End and surface probing	Laser
Production of slots	Yes
Countersinking	Yes
Tapping	Yes
CNC Control	Windows based
Wireless remote	Yes
Remote diagnostics	Yes
Production tracking	Yes
Production sorting	Yes
Interlocking enclosure for safety	Yes
Automatic tool changer	Optional
Programmable probe position	Yes