



STEEL
CONSTRUCTION

ANGLES & FLATS
BEAMS & PIPES
PLATES
SURFACE TREATMENT
SOFTWARE & AUTOMATION

EXCALIBUR & VICTORY

Automatic CNC single spindle
drilling lines for sections

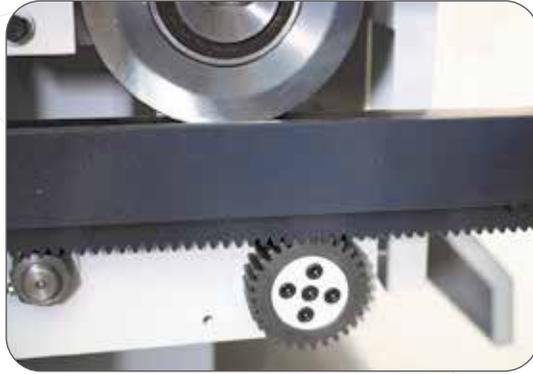


H EXCALIBUR & VICTORY

Automatic CNC single spindle drilling lines for sections

FICEP was the first to engineer a CNC controlled horizontal single spindle drilling line to process flats and sections for the steel fabrication industry. The Excalibur and Victory are the most recent developments in the family

of traveling column CNC drills where the part remains stationary. Thanks to their exclusive design, the Excalibur and Victory represent an economically justifiable, versatile and productive solution for small to mid-size firms.



The powerful DIRECT DRIVE spindle ensures high performance as 100% of the motor's power is delivered to the tool. The spindle's advanced technology minimizes the number of parts for reduced maintenance and enhanced reliability.

The drilling unit with its on board hydraulic unit and electrical cabinet is positioned along the length of the material support table. This self-contained design eliminates the need for trailing hydraulic lines and reduces the electrical cables needed to travel back and forth with the drill unit. Exceptional accuracy is achieved with a rack and pinion system to position the drill head assembly to the required location.



Pegaso is the latest generation CNC for Ficep lines where the PC, CNC and PLC are all integrated into a single circuit board for maximum reliability. Pegaso is based upon a field bus technology using CanBus and EtherCAT for controlling up to 32 separate CNC axes.

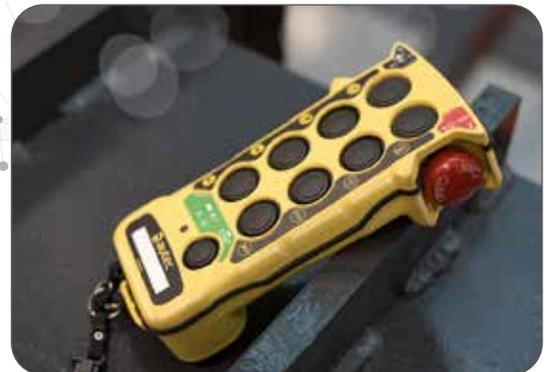




The auxiliary sub-axis of the Excalibur allows diverse milling and scribing operations. Hole patterns can also be drilled without the need to unclamp, position the drill head assembly and re-clamp the material when drilling a group of holes.



Non-contact lasers are utilized to sense the reference end of the part and the horizontal material surface to establish the proper hole location.



A wireless remote control is integrated into the system so the operator can be actively engaged in material loading and unloading while the line is fully productive



The movable drilling assembly contains sensors on both sides to stop operations should the movement of the drilling assembly come in contact with an object. The wireless remote also has an emergency stop should it become necessary for the operator to stop all axis movement.

- The Excalibur and Victory only require 50% of the floor space of a conventional beam drilling.
- The drill assembly is cantilevered off the material support table so it is not in contact with the floor.
- The positive ball screw spindle feed enables carbide tools for drilling which outperform HSS drills 10 to 1.
- The unique spindle sub-axis on the Excalibur allows operations to be performed without unclamping, moving the drill assembly and re-clamping the material.
- Remote diagnosis is possible through a network connection that allows our service team to perform system diagnostics.

These are only few of the great benefits that this system can achieve!



Automatic tool changer with 9 positions



Device for the processing of flats

| EXCALIBUR- VICTORY Automatic CNC single spindle drilling lines for sections | VICTORY 1001 EX | EXCALIBUR 1201 EX |
|---|------------------------|--------------------------|
| Profile size [min. inch] | 2" | 2" |
| Profile size [max. inch] | 39-3/8" | 47" |
| Drilling heads [no.] | 1 | 1 |
| Drilling tools per head [no.] | 1 | 1 (9) |
| Drilling diameter [max. inch] | 1-9/16" | 1-9/16" |
| Spindle power [HP] | 23 | 25 |
| Spindle speed [max. RPM] | 5,000 | 5,000 |
| Spindle sub-axis stroke [inch] | - | 7-7/8" |

TECH SPECS

Please review FICEP's terms and conditions of sale and system specifications that are in our formal proposal. The manufacturer reserves the right to change specifications and features from those indicated in this brochure. Current specifications and features are part of the formal quotation. The capabilities stated are subject to the ASTM A6/A6M standard as it relates to mill tolerances for straightness, thickness and surface conditions.



FICEP S.p.A. - HEADQUARTERS
 via Matteotti, 21 - 21045 Gazzada Schianno (VA) ITALY
 Tel +39 0332 876111 • Fax +39 0332 462459
 email: ficep@ficep.it • www.ficepgroup.com



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 • www.ficepcorp.com