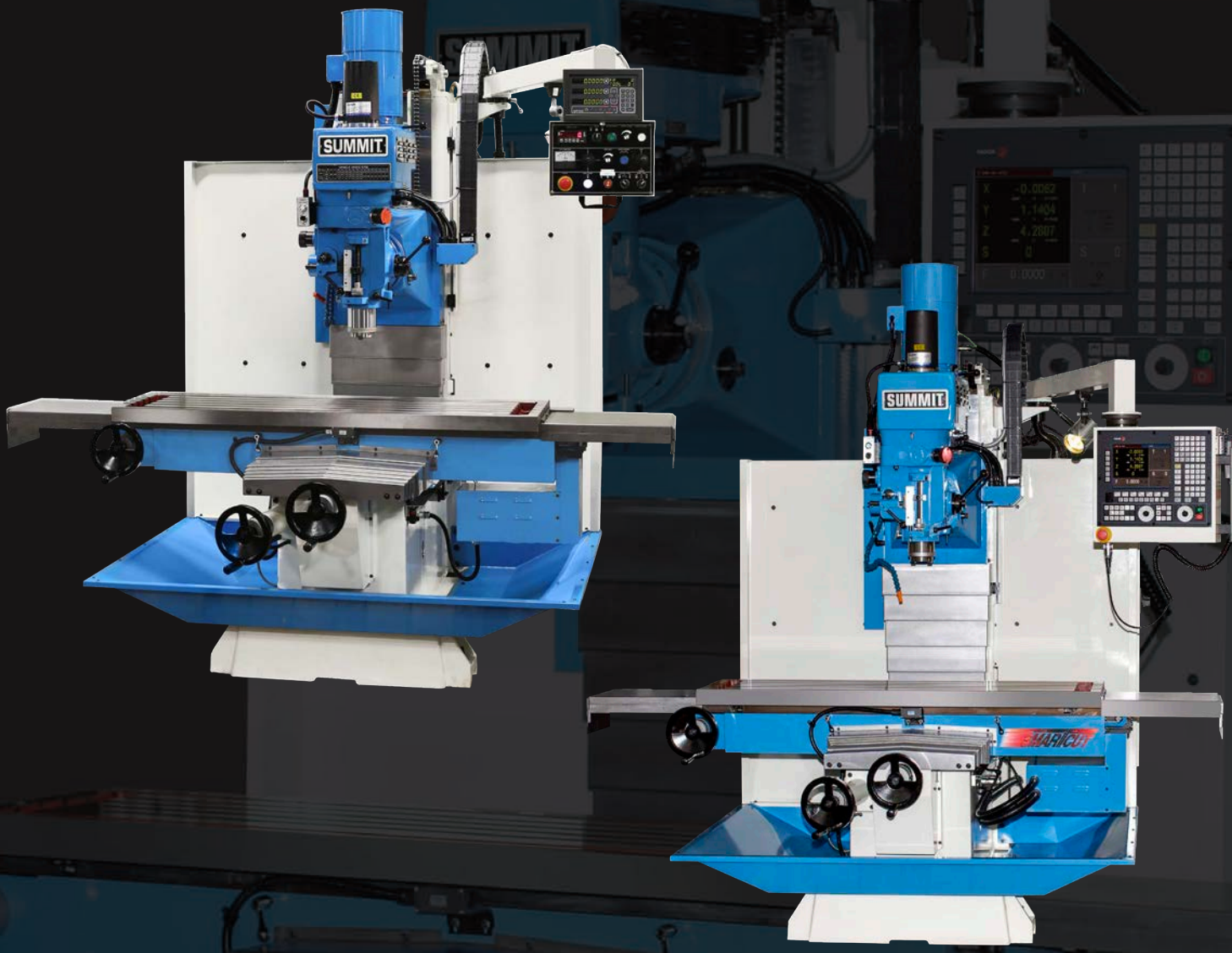
SUMMIT
MACHINE TOOL LLC



EVS SERIES 760-B VERTICAL BED MILLS

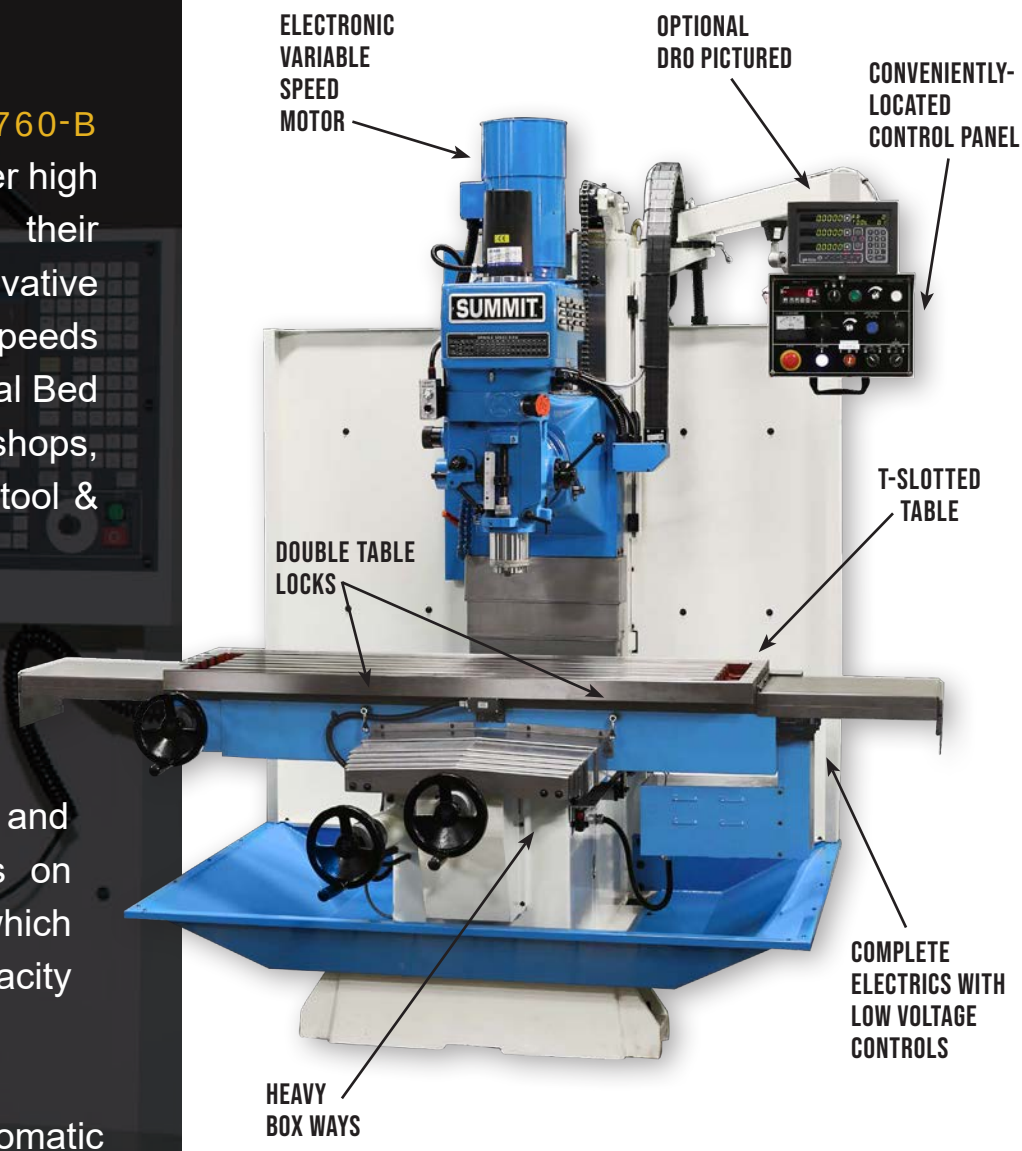
EVS 760B VBM & SMARTCUT SC EVS 760B CNC VBM

EVS SERIES 760-B

SUMMIT® EVS SERIES 760-B VERTICAL BED MILLS offer high production accuracy due to their heavy construction and innovative design. The large choice of speeds and feeds makes these Vertical Bed Mills the ideal choice for job shops, production shops, repair and tool & die shops.

The alloy steel main spindle is thermally treated and precision ground, then fixed on high accuracy bearings and the saddle assembly travels on precision ground slides which ensure rigidity for large capacity table loads.

This machine also has an automatic lube system which ensures consistent lubrication of the speed and feed boxes. Changing of feeds and speeds is easy and efficient, combined with centralized operator controls, these machines are designed for virtually uninterrupted operation.



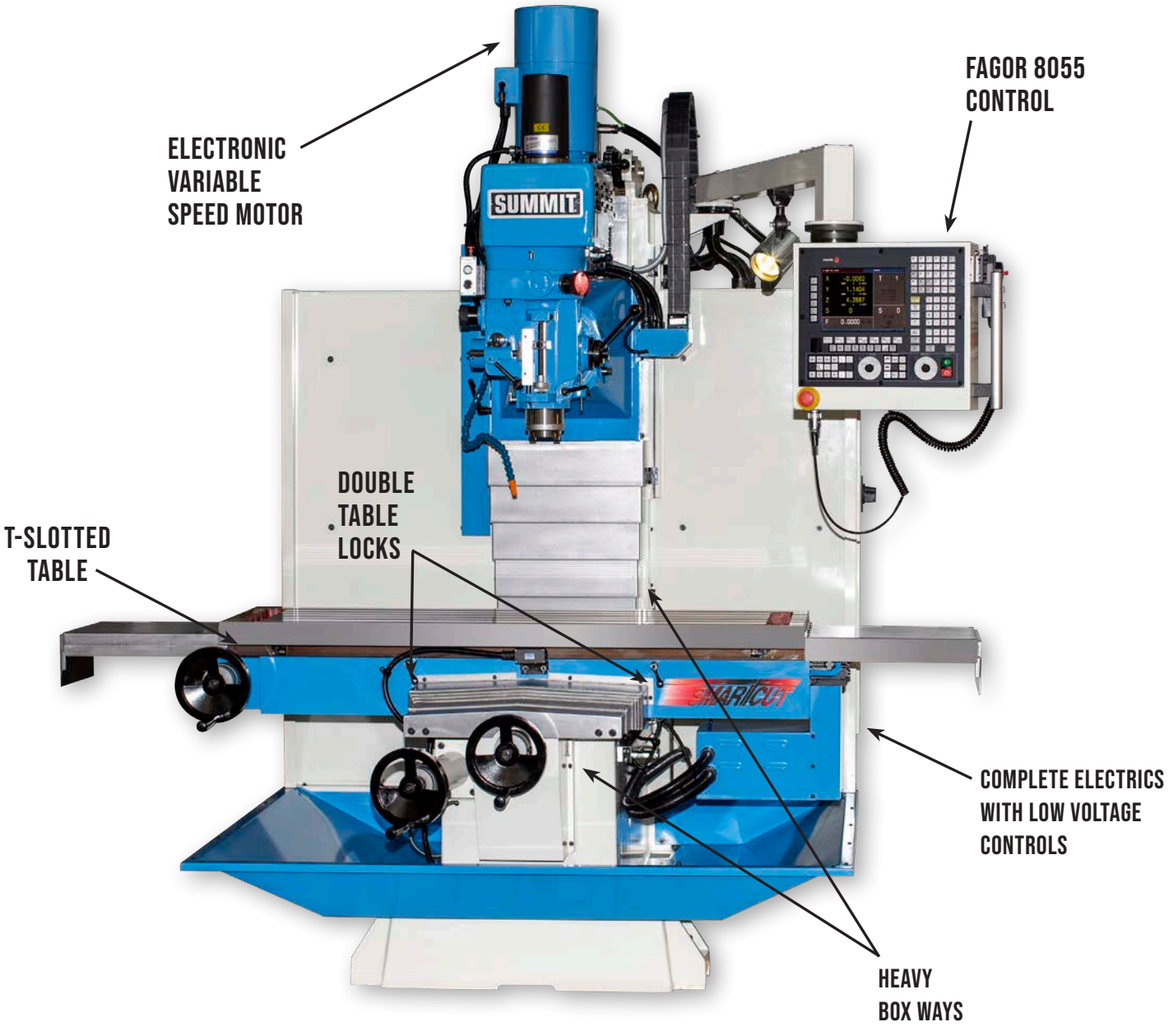
INCLUDED ACCESSORIES

- Oil Gun
- Clamping Kit
- Anchor Holts
- Open End Wrench Set
- Hex Key Wrench Set
- Steel Way Covers
- Halogen Work Light
- Air-Operated Power Draw Bar
- Automatic Lubrication System

VERTICAL BED MILLS

STANDARD FEATURES

- Heavy Meehanite Cast Iron Construction For Excellent Damping
- Heavy Box Saddle
- Huge Box Ways On Column
- "Turcite- B" Inserted Guideways
- Double Table Locks
- Power Cogged Drive Belt To Prevent Belt Slippage and Extend Tool Life
- Wipers On Saddle and Column
- Head Swivels Left and Right
- Built-In Coolant System
- Automatic Lubrication
- Precision Ground Ball Screws With Double-Nut Design
- Complete Electrics With Low-Voltage Controls For Safer Machine Operation
- Inverter Duty, High Evergy - High Efficiency Motors For Lower Utility Costs
- Compact AC Inverter Spindle Drive
- AC Servos And Drives
- Electronic Inverter-Controlled Braking Fan-Cooled Electrical Enclosure
- Fagor Glass Scale Feed Back (760-B CNC)





26 Total Cycles Including:

- Icon Conversational Programming
- Rectangular Boss cycle
- Round Boss cycle
- Rectangular Pocket cycle
- Circular Pocket cycles
- Profile Pocket 2D & 3D cycles
- Engraving
- Slot Milling
- Ring Milling
- Profile Milling
- Multiple Drillng cycles
- Boring cycles
- Reaming cycles
- Arc Bolt Hole cycles
- Random Position cycles
- Grid Pattern cycles



AXIS SERVO DRIVES

All SmartCut models are designed with ruggedness in mind. They are fitted with independent servos on each axis. These servos are sized to allow maximum material removal while providing the quick response necessary for smooth transition while doing simultaneous cuts. Distance coded linear scales provide positioning feedback information to the control.

FAGOR CNC 8055MC CONTROL FEATURES

The Fagor 8055 MC Control System is perhaps the most versatile CNC in existence due to its Dual Operating System. In one mode, it is a very powerful ISO G-code control system and in the other mode, icon conversational programming with highly interactive graphics. This makes even complex tasks easy to program - regardless of the operators' experience level.

Features:

- Up to 4 Axis CNC + spindle control via CNC
- 10.4" High Resolution LCD color monitor
- Linear, Circular and Helical Interpolation
- Tool Radius & Length compensation, 255 offsets
- Simulation dry run mode & Solid Graphics 3D with zoom
- Jog Mode & MDI Mode
- Tool offset and Zero offset tables
- Win DNC offline software program
- Fagor Intelligent Profile Editor
- G-codes & M-Functions online
- Tele-diagnosis: Remote Instant Service capability through modem (optional)
- Ethernet TCP/IP (optional)

Versatility:

- It is a DRO when working manually
- It is a motion controller when performing semi-automatic operations
- It is a full-powered CNC control for automatic operation

Ease of operation:

- Operations defined by symbol keys
- Interactive graphic data entry
- Fully automatic operating modes

Profitability:

- Minimum setup time
- Tool data back-up while CNC off
- Part operation sequence storage
- Automatic part repetition for lot work

ELECTRONIC VARIABLE SPEED HEAD

The EVS 760 Series Mills feature an electronic variable speed head that is designed to be virtually trouble free. The use of a frequency inverter eliminates many of the normal wear parts found in mechanical variable speed designs. On the CNC models, the spindle speed is programmable through the CNC control with override capability.





EVS-760B ELECTRICAL CABINET



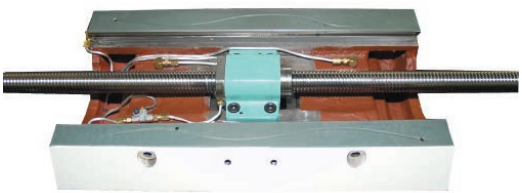
EVS-760B CNC ELECTRICAL CABINET

ELECTRICS

The SmartCut EVS CNC Series mills incorporate state-of-the-art electrics inside a Nema-type enclosure. All components are U/L listed. DC servo axis drives and a frequency inverter spindle drive are used to compliment the Fagor control. The electrical cabinet features forced air cooling and is designed with a safety interlock to prevent machine operation when open.

CONSTRUCTION

The 760 Series mills are constructed of high grade Meehenite™ alloyed cast iron, normalized and aged to achieve maximum stability. The design features heavy cross ribbing for rigidity and vibration dampening. Ways are hardened (HRC 48-56), precision ground and mated to Turcite-B coated guideways for accuracy and long life.



FEATURES AND BENEFITS
EVS SERIES 760-B VERTICAL BED MILLS

SPECIFICATIONS	EVS-760B VERTICAL BED MILL	SC EVS-760B CNC VERTICAL BED MILL
TABLE		
Table Size	16.9" x 60" x 3 1/8"	16.9" x 60" x 3 1/8"
Table Top to Floor	36.25"	36.25"
Number of T-Slots	5	5
Number of Feeds	Infinitely Variable	Infinitely Variable
Maximum Weight of Workpiece	2,200 lbs	2,200 lbs.
TRAVERSE		
Table Longitudinal Travel (X)	51.1"	51.1"
Saddle Cross Travel (Y)	23.62"	23.62"
Vertical Head Travel (Z)	23.6"	23.6"
VERTICAL SPINDLE HEAD		
Motor Size	7.5 HP	7.5 HP
Spindle Speeds (no.) range	(Infinitely Varible) 0 - 3650	(Infinitely Varible) 70 - 3800
Spindle Feeds (no.) range	(Infinitely Variable) 0 - 43.7	(Infinitely Variable) 0 - 200
Spindle Nose to Table Top	2.5" - 30"	2.5" - 30"
Spindle Nose to Column	23.62"	23.62"
Spindle Taper	#40	#40
Quill Traverse	5.5"	(Manual) 5.5"
Quill Feed	.0016 - .0031 - .0059 IPR	.0016 - .0031 - .0059 IPR
SHIPPING WEIGHTS, DIMENSIONS, ELECTRICS		
Length x Width x Height	88" x 97" x 96"	88" x 97" x 96"
Weight	7,040 lbs	7,040 lbs
Voltage	220/3/60	220/3/60
Maximum Overall Height with Head Raised	109"	109"

WARRANTY: A copy of Summit Machine Tool LLC's standard written warranty is attached to each Summit Machine. Call or write to Summit for a copy or for further information concerning Summit's standard warranty. All purchases are subject to Summit's standard written warranty. Specifications are subject to change without notice.

POINT OF OPERATION GUARDING is the responsibility of the end user. For information contact your local OSHA office.

04-2024

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WWW.SUMMITMACHINETOOL.COM