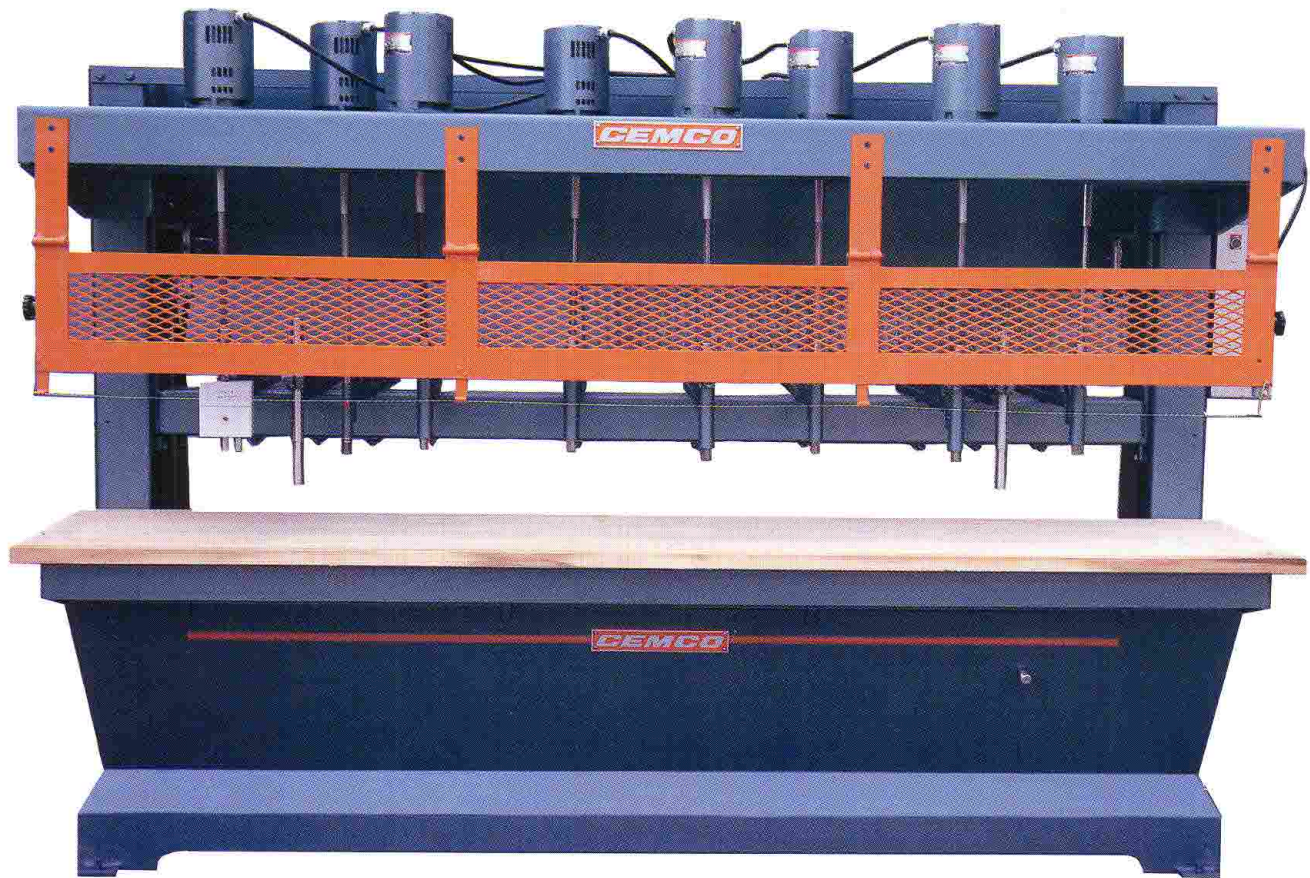


CEMCO
Quality Machines

Multiple Spindle
Vertical Boring Machine



Built Right The First Time

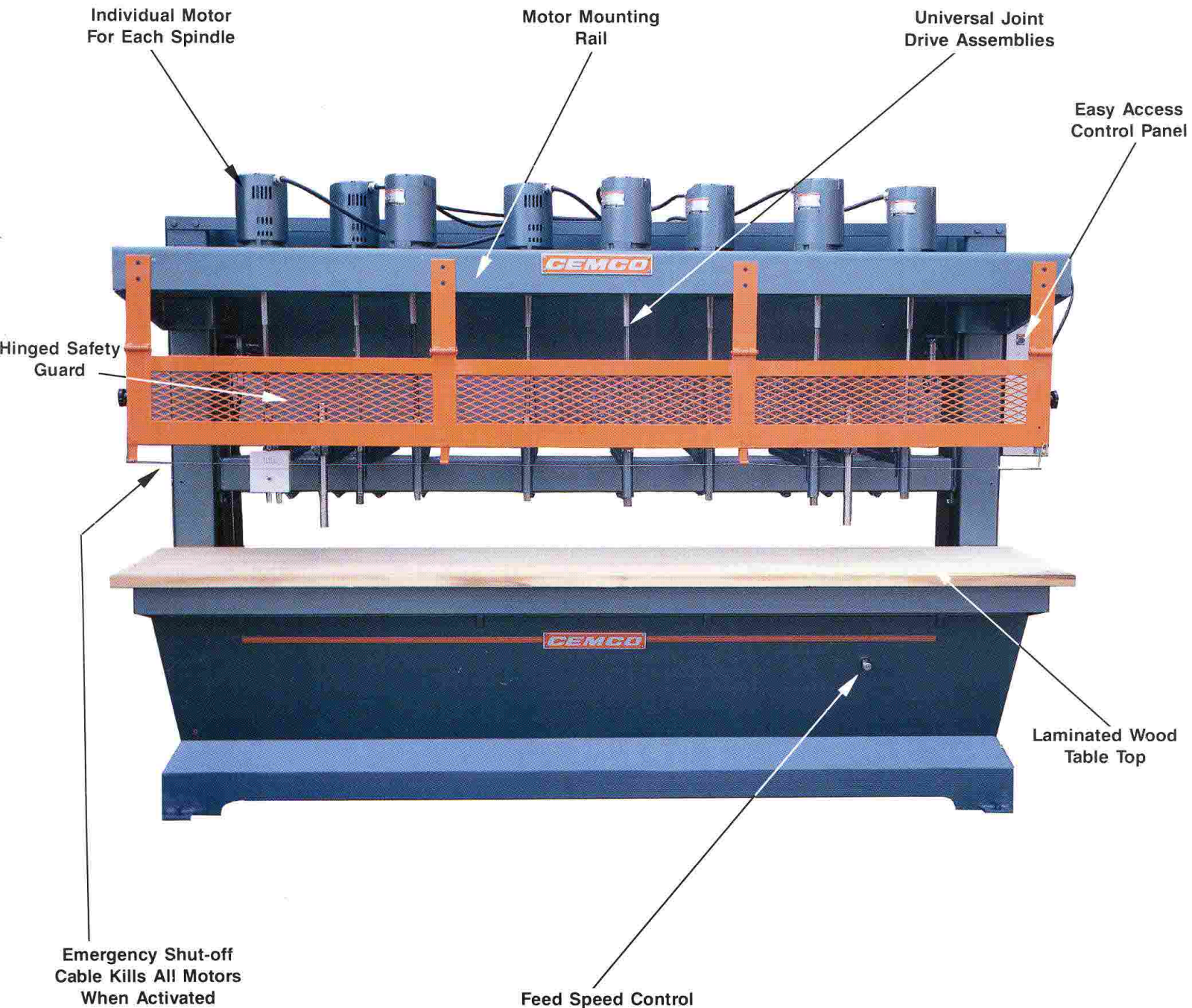
Multiple Spindle Vert

TABLE

The table is constructed of laminated plywood and is secured to the frame of the machine at the most convenient working elevation. A constant, convenient work height enables easier set-up and reduces operator fatigue. The table can be removed to provide clearance for hopper feed mechanisms.

EQUALIZING

Equalizing is accomplished with a tubular torque bar rigidly mounted to the vertical columns in ball bearing pillow blocks. The torque bar is connected on each side to the spindle carriage by self-aligning, connecting rods thus assuring that the carriage moves absolutely parallel to the table at all times.



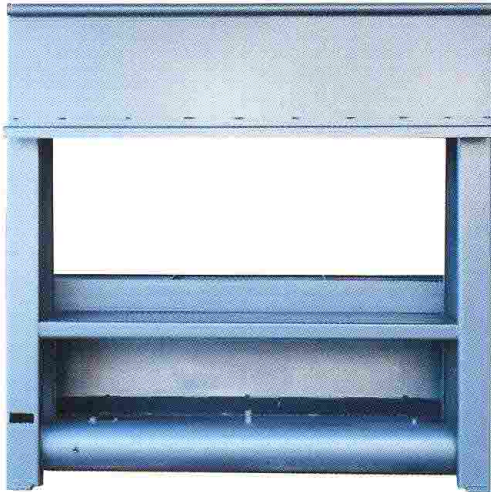
Drill Boring Machine

CHIP BLOWOFF

A chip blowoff with 3 nozzle positions can be furnished as optional equipment. Chips are automatically blown off the table on return stroke of the drilling carriage.

FRAME

The frame is of formed and structural all-welded steel construction engineered for maximum rigidity.



Frame

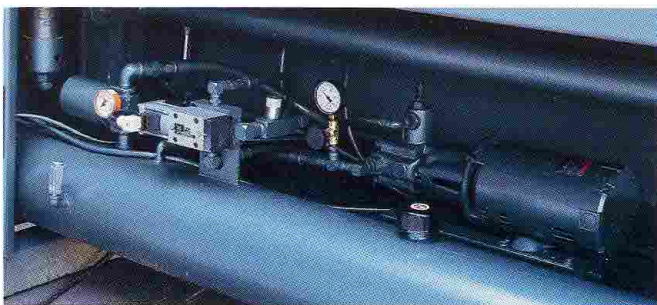
SINGLE CYCLE OPERATION OR CONTINUOUS CYCLE OPERATION

Continuous cycling is accomplished by simply depressing the foot switch and engaging the mechanical latch which is part of the foot switch.

Automatic cycling can be stopped instantly by touching the mechanical latch, or by touching the emergency stop button on the front of the machine.

FIXED CENTER BORING HEADS

These Heads will fit all CEMCO boring machines and are interchangeable with other standard boring machines.



Hydraulic Systems

VARIABLE FEED RATE

The feed rate of the bits, while drilling, infinitely variable from zero to top drilling speed. Basically, a variable volume pump supplies oil to a hydraulic cylinder which motivates the bits downward. Movement of the control knob on the front of the machine instantly changes this feed rate. The pump supplies only the amount of oil required for proper drilling speed. Thus there is no wasted H.P. and unnecessary heat is not generated in the hydraulic system.

COMPRESSION SPRING

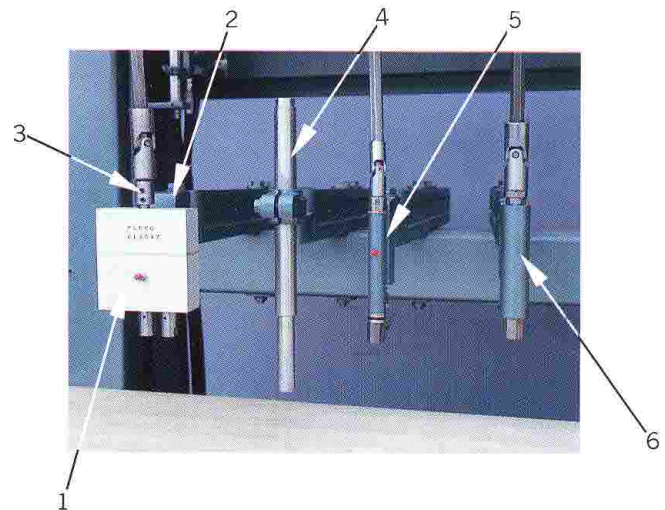
Powerful compression springs serve to counterbalance the spindle carriage. The rate of return of the bits is uniformly quick regardless of drilling speed.



Heavy Duty Counter Balance Springs

SPINDLES

Assembly and 1 1/4" diameter u-joint. Fixed center heads are available with most any center(s) (3/4" minimum). Needle bearing spindles are used when centers of 1" minimum to 1 1/2" are required. Ball bearing spindles are used when centers of 1 1/2" or more are required. All spindles can be equipped for either 7/16"-14 screw shank or 1/2" straight shank bits. Three jaw chucks are also available.



Spindle with Spring Loaded Holddown

1-Fixed center boring head / 2-Fixed center head mounting bracket / 3-Fixed center head universal adapter / 4-Hold-down assembly / 5-Needle bearing spindle assembly and 7/8" diameter u-joint / 6-Ball bearing spindle

ELECTRICAL PANEL

The electric panel is mounted on the back of the machine and contains overload relays for each motor. A transformer provides 110V A.C. for the control circuit for maximum operator protection. Toggle switches for controlling spindle motors are readily accessible on machine column. If the foot switch is released while bits are moving downward, the carriage instantly reverses and moves to top position. Thus the operator may stop the drilling cycle at any point simply by releasing the foot switch.

