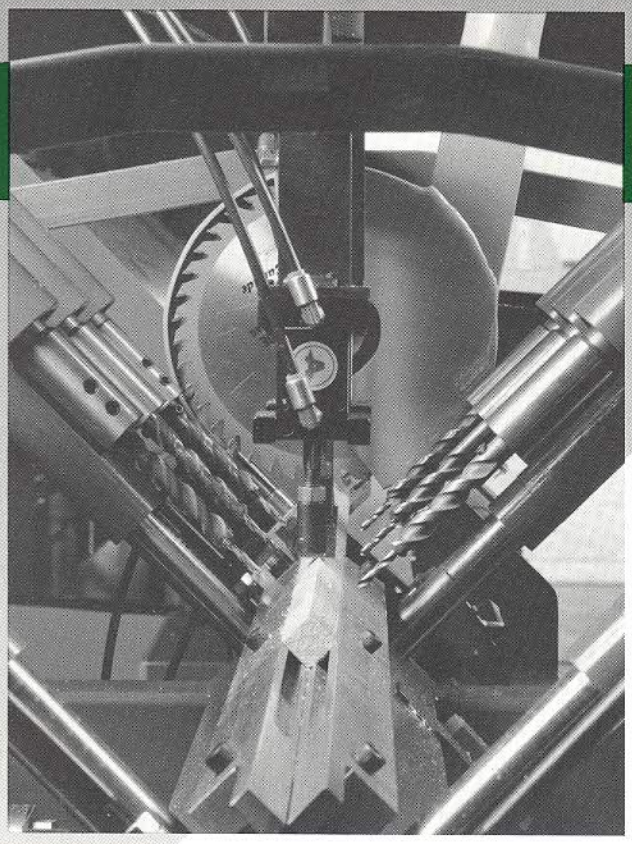
Specification



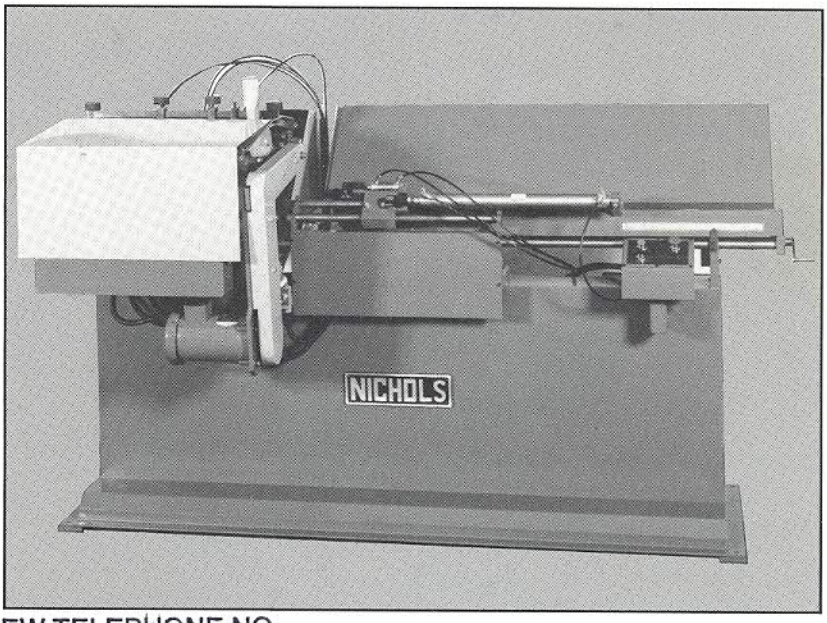
Cleat Machine

- **Combines Boring and Sawing Operations**
- **Hopper-Fed**

The Nichols Cleat Machine automates production of screw cleats by combining boring and sawing into one simple operation. Material is fed from a hopper that can accept both random length and precut stock. The elimination of multiple processes makes it more profitable than conventional methods.

- **Easy Set-Up**
- **Separates Cleats from Scrap Automatically**

The Nichols Cleat Machine is designed for quick and easy set-up. The three standard drill spindles in each direction can be quickly adjusted for different centers. The cleat length is adjusted from 3" to 18" by simply turning a hand-crank on the end of the hopper. As an added design feature, the finished cleats and the scrap blocks are automatically separated.



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Operation Descriptions

1 To begin cleat production, the operator stacks the random length square stock in the hopper and positions it against the front fence.

The drill and saw motors are started by pushing the start button on the control panel. The auto selector is then turned on, beginning the automatic cycle.

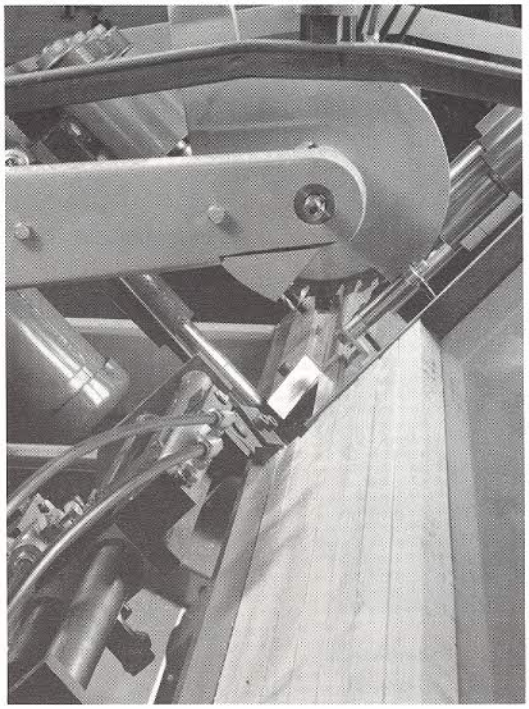
2 As the feed mechanism moves each stick to the initial trim position, the saw skims the front of the stick.

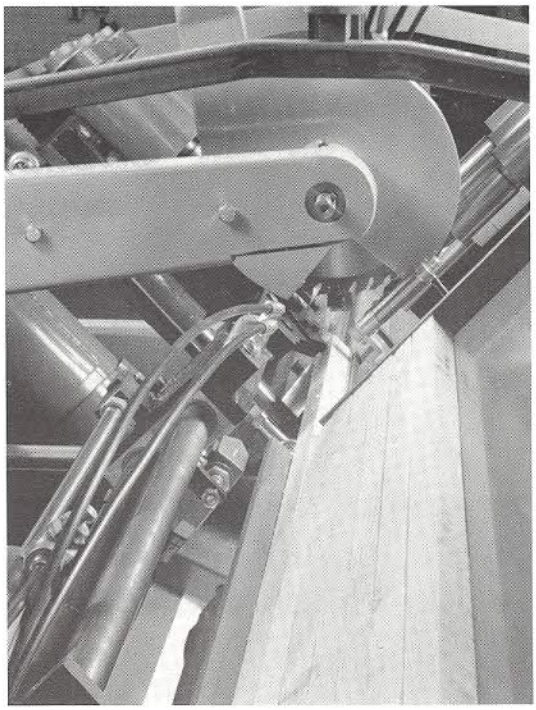
3 The stroke of the feed mechanism inserts the stick into the boring station where it is clamped in preparation for the boring and sawing operations.

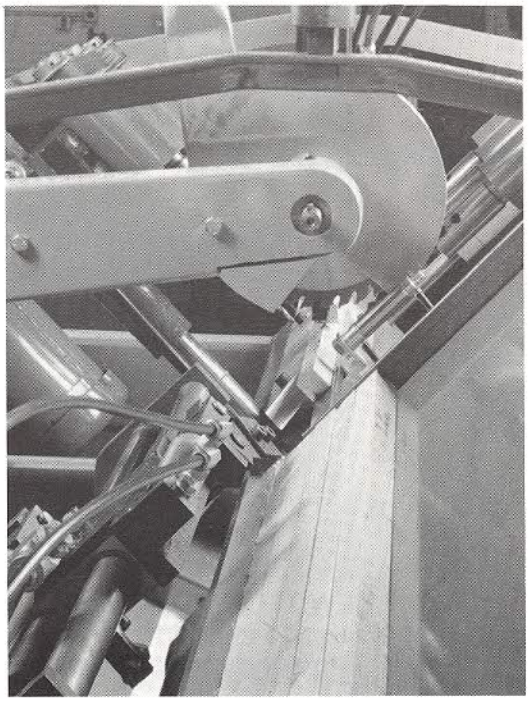
4 Up to three holes are bored in each edge, and the finished cleat is sawed to the specified length. The machine then continues to cycle until the stick is consumed.

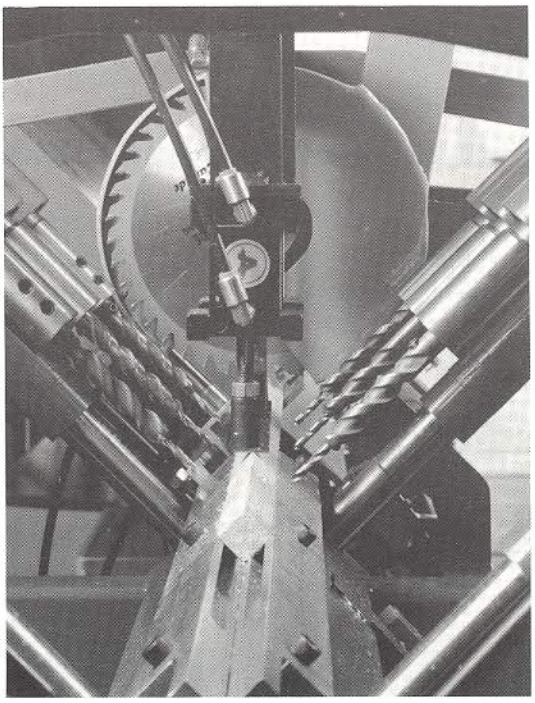
If there is not enough material to make another cleat at the end of the stick, the machine trims this scrap and ejects it out the back of the machine. The feed mechanism returns to the stacker for another stick to repeat the operation.

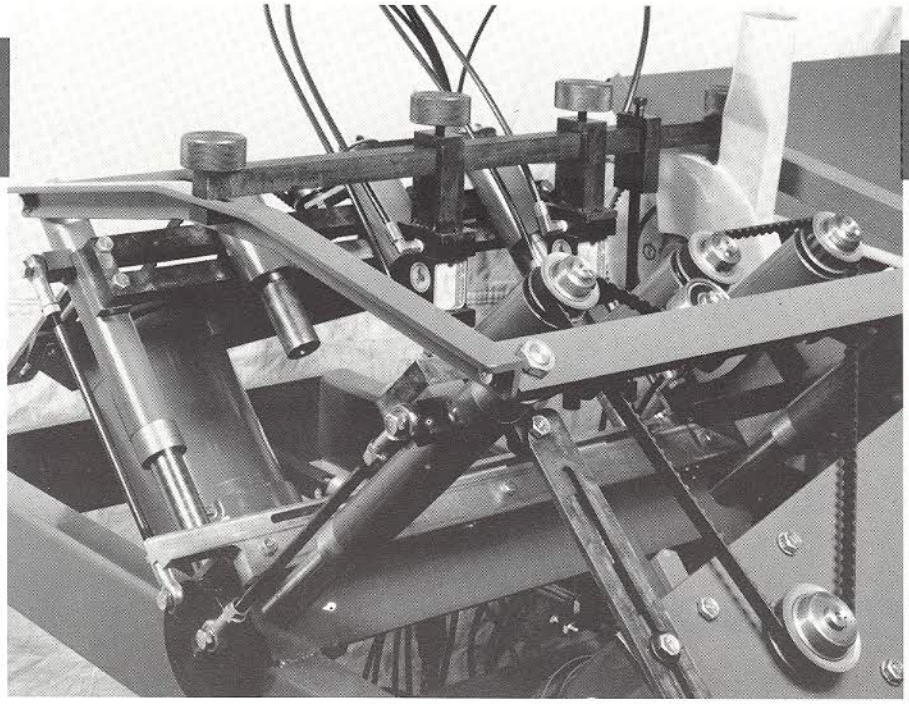
The feed cycle can be stopped by turning the auto cycle selector off. The current cycle will finish and then stop.











Drill Spindle Adjustment

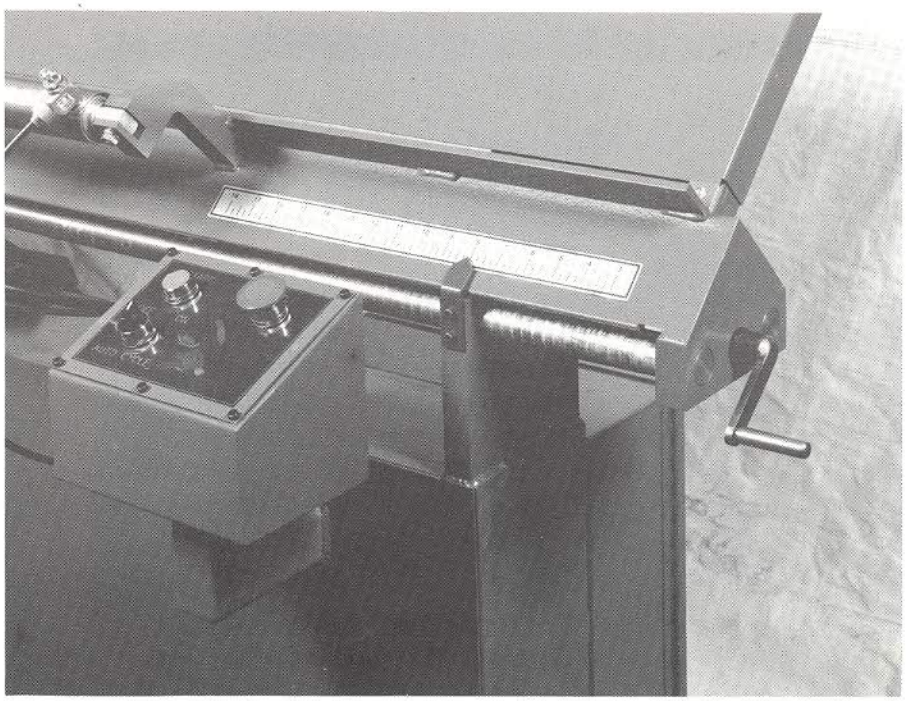
The hole centers are easily adjusted by unlocking the motor mount bolt and by loosening the drive belt. The individual drill spindles can then be moved by unlocking the securing bolt under each spindle and adjusting the spindle along the bar to the new position. Before operation, the spindle must be relocked by the securing bolt, and the drive belt retightened.

Control Panel

The machine is controlled from one panel which contains the start and stop buttons for the motors, along with the selector switch for the automatic cycle.

Cleat Length Adjustment

The cleat length is quickly changed by first loosening the locking lever on the back of the hopper. The hand-crank is turned to move the pointer to the desired position on the length scale. The lock is then retightened.



Options Available

The Nichols Cleat Machine can be modified from standard specifications to meet special applications. The design can be further enhanced by the following range of standard options.

Fourth Drill

A fourth drill option is available on each bank.

Counter

A set counter with machine cut-off capability can be installed to stop the machine after reaching a predetermined quantity of cleats.

Features

- 3"-18" cleat lengths possible.
- ¾" square standard stock, ± ⅛" can be processed.
- 3 spindles on each bank are belt driven by a 1 H.P. motor.
- 1½ H.P. 8" diameter saw with 2" dust pipe opening.
- 220/440/3/60 electrics have 110 V. controls
- Average of approximately 20 block per minute, depending on the cleat length.
- 80 psi air requirement.

Machinery Designed to...Turn Profits