

**“—No Burned Steel, Very Little Breakage,  
Bits Drill Half as Much Again as Hand  
Sharpened Bits, and Give Infinitely  
Less Trouble in Following”**

*A mine manager in the Southwest summed up in these  
words the advantages he had found in his*

## **Sullivan Drill Sharpener**

This machine is making bits and shanks for  $1\frac{1}{4}$  round hollow drifter steel,  $\frac{7}{8}$ -in. hollow Rotator steel, and solid stoper steel.

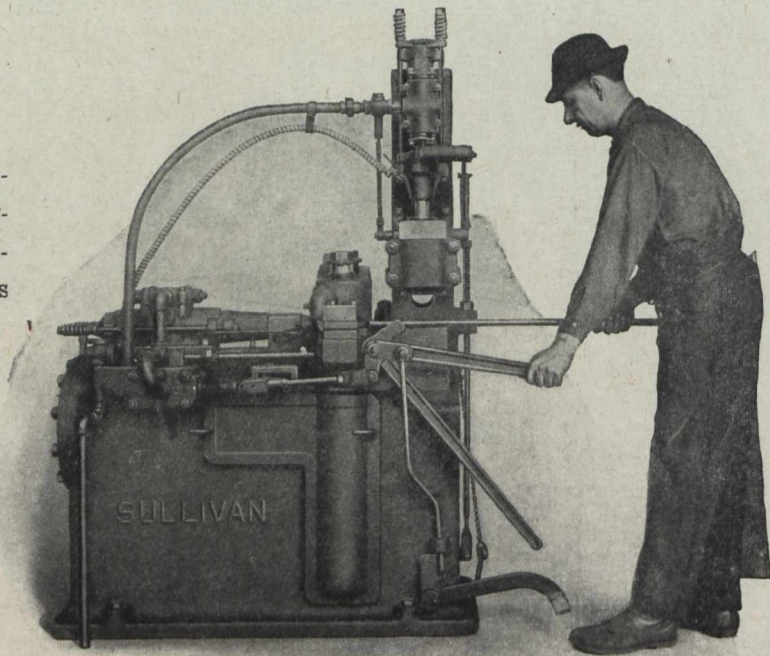
50 bits per hour of actual running time are sharpened by one smith and two helpers. The cost per steel, (bit and shank) is 4.89 cents for stoper steel, 6.13 cents for drifter steel (lugged shank) and 6.32 cents for Rotator steel.

### **“Hammer Your Drill Bits”**

is the slogan of the Sullivan Sharpener. The all-hammer process permits the use of safe heats, and continually toughens and strengthens the steel to resist wear.

In power, convenience and rapidity, Sullivan Sharpeners are second to none.

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**SULLIVAN MACHINERY COMPANY**

**122 South Michigan Avenue    ::    ::    ::    CHICAGO**

**Toronto, Nelson, London, Sydney, N.S.W., Spokane, Vancouver, Juneau, Seattle.**