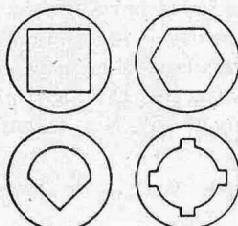


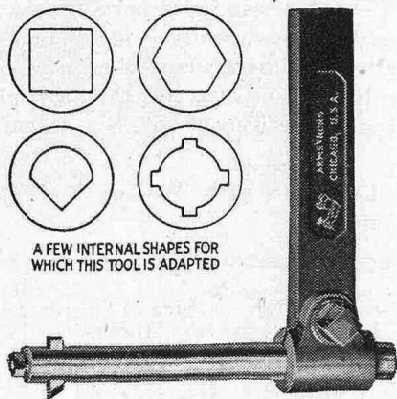


ARMSTRONG Extension Shaper Tool

This is an extremely rigid and convenient tool, well adapted for cutting internal key ways, or for any kind of work on the Shaper in which extra clearance is needed.



A FEW INTERNAL SHAPES FOR WHICH THIS TOOL IS ADAPTED



Price List—Complete with Holder and one Bar, one High Speed Cutter and Wrench

No.	Size Shank Inches	Size Bar Inches	Size Cutter Inch Square	
*46	$\frac{3}{8} \times \frac{7}{8}$	$\frac{1}{2} \times 7\frac{1}{2}$	$\frac{3}{16}$	
47	$\frac{1}{2} \times 1\frac{1}{8}$	$\frac{3}{4} \times 10$	$\frac{5}{16}$	
48	$\frac{5}{8} \times 1\frac{3}{8}$	$\frac{15}{16} \times 12$	$\frac{3}{8}$	
49	$\frac{3}{4} \times 1\frac{5}{8}$	$1\frac{1}{8} \times 14$	$\frac{7}{16}$	

*No. 46 Bar held by two hollow set screws.

Extra Bars and Bushings—Price includes Bar, one Bushing, a High Speed Cutter and Wrench

Dimensions of Bar		Size of Cutter Inches Square	With Bushing to Fit Shank Number	
Diam. Inches	Length Inches			
$\frac{1}{2}$	$7\frac{1}{2}$	$\frac{3}{16}$	47, 48 or 49	
$\frac{5}{8}$	$8\frac{1}{2}$	$\frac{1}{4}$	47, 48 or 49	
$\frac{3}{4}$	10	$\frac{5}{16}$	48 or 49	
$\frac{15}{16}$	12	$\frac{3}{8}$	49	
$1\frac{1}{8}$	14	$\frac{7}{16}$	Without Bush.	

Note—In ordering be careful to give size of shank (or number of tool) in which bar is to be used. When this information is not given no bushing will be included.