

# KZG – KNIVES AND GROOVERS



All USM Machine Knives and Groovers are accurately ground, beveled and properly tempered for efficient operation in USM machines.

Orders should specify knife number, machine name and symbol to avoid delays.

When sharpening, care should be taken to retain the original bevel or pitch of the cutting edge. Accurately ground knives reduce resistance and retain their cutting edges longer.

KZG index pages help you find the machine or knife you need.

**ECM  
ECONOMY INSOLE  
CHANNELING MACHINE  
MODEL B**



**KZG 9A**

Channel Knife. Square heel,  $\frac{1}{4}$ -inch straight cut.



**KZG 9F**

Channel Knife.  $\frac{5}{32}$ -inch straight cut with  $\frac{1}{2}$ -inch heel radius. For Leather Insoles.



**KZG 108**

Lip Knife. Regular straight cut.



**KZG 112**

Lip Knife. Regular straight cut.



**KZG 113**

Lip Reducing Knife. Used with Lip Knives KZG 108, 349, 834, 847, 616.



**KZG 163**

Channel Knife. Square heel,  $\frac{7}{32}$ -inch straight cut.



**KZG 259**

Chamfer Knife —  $40^\circ$

**KZG 1180**

Similar to KZG 259 except high speed steel.



**KZG 270A**

Lip Knife. Straight cut.



**KZG 349**

Lip Knife. Straight cut with  $8^\circ$  downward pitch to in-between substance.



**KZG 357**

Channel Knife. Square heel,  $\frac{7}{32}$ -inch straight cut,  $4^\circ$  downward pitch.



**KZG 361**

Channel Knife.  $\frac{3}{16}$ -inch straight cut with  $\frac{5}{32}$ -inch heel radius.



**KZG 613**

Channel Knife.  $\frac{1}{4}$ -inch straight cut,  $1^\circ$  downward to in-between substance and  $\frac{3}{32}$ -inch heel radius.



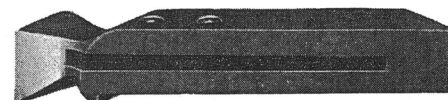
**KZG 616**

Feather Reducing Knife.  $\frac{1}{4}$ -inch straight cut from in-between substance with reducing edge of  $25^\circ$  angle.



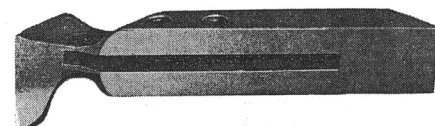
**KZG 746**

Channel Knife.  $\frac{5}{32}$ -inch straight cut with  $\frac{1}{2}$ -inch radius. For Composition Insoles.



**KZG 834**

Lip Knife.  $\frac{7}{16}$ -inch straight cut.



**KZG 847**

Lip Knife for Wing Shank Insoles.



**KZG 969**

Channel Knife.  $\frac{3}{16}$ -inch straight cut with  $6^\circ$  downward to in-between substance.