

Articulating Work Rest System from Beaumont Metal Works Setup Instructions

The Articulating Work Rest System for the KMG, KMG-TX and other 2x72 belt grinders enables an enormous number of different configurations and positions for supporting work pieces during manual grinding operations. These setup instructions describe only **one** of the many setup possibilities. Use your imagination to find what is best for you!

<p>1. Attach the stub shaft to the bottom of the work table using four (4) 10-32 x ½" socket cap screws. These screws should be tightened with a 5/32" hex key or allen wrench.</p>	
<p>2. Insert steel pins into each end of one of the links, and secure each pin with a washer and a 3/8 -16 x 1" hex head cap screws. Tighten hex screws with a 9/16" wrench to firmly lock those two pins in position.</p>	
<p>3a. <u>If you are using the universal mounting bracket</u>, insert the threaded end of the black locking lever through a washer then screw it into the universal mounting bracket nearest the slit. The universal mounting bracket is designed to attach to any tool arm, such as the KMG classic tool arm, which has ½-13 threaded holes which are 1-1/2" apart on center.</p> <p>3b. Position the locking lever down on the underside of the universal mounting bracket, and attach it to the side of the grinder's tool arm, on the side opposite the installed attachment. Using the ½ -13 x 2" hex head cap screws and ½" flat washers to attach the bracket. This universal mount bracket forms the base and holds the pin connecting the rest of the articulating work rest system.</p>	
<p>4a. <u>If you are using the special TX 1-1/2" square tool arm</u>, insert the threaded end of the black locking lever through a washer then screw it into the special TX 1-1/2" square tool arm nearest the slit.</p> <p>4b. Slide this tool arm into the second tool bay on the grinder. For two tool bays, this setup uses the top bay for the main grinder attachment and the lower bay for the work rest tool arm, with the black locking lever down. This work rest tool arm, rather than the universal mount bracket, forms the base and holds the pin connecting the rest of the articulating work rest system. Use the work rest tool arm as the base, and not the universal mount bracket, in the following instructions.</p>	

<p>5. Take the first link with two steel pins secured to it from step 2 above and insert one of the pins into the base. The base is either the special TX 1-1/2" square tool arm or the universal mount bracket attached to the KMG tool arm as pictured.</p>	
<p>6a. Pick up the second link and two locking levers. Insert the threaded end of each black locking lever through a washer then screw both locking levers into the link in threaded holes nearest each slit.</p> <p>6b. Attach this link with two locking levers to the open pin in the first link. Both locking levers should be positioned closest to the operator, away from the grinder itself, as shown.</p>	
<p>7. Install one black locking lever with a washer in the 90 degree knuckle. Insert the third steel pin into the 1" hole opposite the one with the locking lever as shown, and secure it with a washer and a 3/8 -16 x 1" hex head cap screw. Tighten with a 9/16" wrench.</p>	
<p>8. Insert the pin connected to the 90 degree knuckle into the open 1" hole of the link. Install it with the locking lever on the right and closest to the grinder when facing the grinder as an operator. This 90 degree knuckle now provides a vertical 1" hole to hold the stub shaft attached to the work table in step 1.</p>	
<p>9. Using the assembly from step 1, insert the stub shaft into the open 1" hole of the 90 degree knuckle. This work table is now positioned in front of the abrasive belt operating area.</p>	

10. Each locking lever, when loosened, permits its pin to rotate. Thus each locking lever enables its subsequent part (link, knuckle, or stub shaft) to rotate 360 degrees. Loosening only one locking lever enables freedom at only a single joint of the articulating work rest system. Loosening two locking levers at the same time enables two joints to move freely. Loosening three locking levers at the same time enables three joints to move freely.

Start positioning the work rest system by loosening only one locking lever at a time to understand how the joint movement affects the table positioning. Then progress to manipulating 2 or 3 at the same time. Use the locking lever's adjustable release / reposition feature to rotate each locking lever into the best location for operator use.



The locking levers allow easy positioning, tightening and holding adjustments. Simply lift the adjustable handle away from its threaded center to rotate freely. Then release the handle to engage and tighten. The handle of the locking lever can thus be rotated for easy tighten / release operations. Locking levers and more are available at BeaumontMetalWorks.com



The 8x8 work table can be rotated around its stub shaft to use either a straight side, or its V-notched side for small wheel access, or its belt-notch side for belt closeness.



Beaumont offers a 16x4 Wide Work Rest for use in place of the 8x8 work table. This wide table can be used with either the KMG classic or the KMG-TX in both vertical and horizontal operation. Shop online at BeaumontMetalWorks.com



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