

## **RMC RESURFACING TOOL DIRECTIONS**

1. Before beginning, be sure to follow all safety requirements in working with a tool of this nature.
2. Take the enclosed die grinder out of the box and attach the carbide bit to the grinder securely. The air supply will need to be attached to the end of the die grinder - we recommend a quick-connect fitting that is compatible with your shop.
3. Place the die grinder into the holder at the end of the "arm" of the Resurfacing Tool. Secure the grinder by tightening the allen screw on the side of the holder.
4. Once the grinder is secure in the holder, we are ready to place the Resurfacing Tool in the manhole ring that requires resurfacing. Do not attach air supply to the grinder at this point!
5. Loosen the knobs of the three "positioning legs" on the main body of the Resurfacing Tool. Move them to the "out" position and tighten.
6. Lift the entire Tool into the manhole opening with the legs in the out position. Try to place the legs in areas on the ring that are level. Don't place them in high or low spots.
7. Once the Tool is in a level position, extend the three "locking bolts" outward until they touch the inner wall of the manhole ring. When moving the locking bolts outward, making sure to center the resurfacing tool in the manhole ring.
8. Tighten the locking bolts so that they are snug but do not extend them out so much as to deform the manhole ring, just tight enough that they don't move during the resurfacing action.
9. To remove the three positioning legs from the Resurfacing Tool. Simply loosen the three silver knobs until they are out and place the legs nearby until needed.
10. Now that the base of the Resurfacing Tool is in place adjust the height of the die grinder in the holder so carbide bit is slightly higher than the highest point on the manhole ring.
11. Loosen the allen screw on the holder and move the grinder up or down within the holder. Look at the carbide bit in relation to the manhole ring surface. Visually follow the gap and turn the "arm" in the counterclockwise direction as indicated with an arrow on the base of the Resurfacing Tool.
12. When the die grinder is at the proper height, tighten it in the holder using the allen screw on the side of the holder so that it can't move.

13. Use the "height adjusting allen screw" located in the middle of the three screws on top of the die grinder holder to lower the die grinder as you resurface the manhole ring. The knob on the backside of the holder is the "lock knob."
14. Loosen the lock knob, adjust the height with top height adjusting allen screw, retighten the lock knob to lock holder in place.
15. We are now ready to begin the resurfacing process. Be sure to have all safety gear on before beginning. Attach air supply to the die grinder, making sure there is sufficient line to move the "arm" completely around the entire ring.
16. Activate the "on" lever of the die grinder and slowly make a pass around the ring. You should be hitting the high spots on the first pass. Make a total of two passes each time.
17. Loosen the lock knob, lower the grinder a small amount (maybe one turn of the height adjusting allen screw), and repeat the process.
18. Spraying WD-40 or similar product on the carbide bit every few passes will prevent the bit from gumming up with aluminum and give a better finish along with extended bit life.
19. After two times around lower the die grinder. When you have reached the lowest spot on the manhole ring, and you have a nice even surface - you are finished with this portion of the resurfacing process.
20. Disconnect the air supply to the die grinder and reattach the three positioning legs on the base of the Resurfacing Tool in the out position and tighten. Then loosen locking bolts inward and remove Resurfacing Tool from the manhole.
21. Be sure to reattach the positioning legs in the out position before loosening the locking bolts! Failure to do so may result in the Resurfacing Tool falling in the trailer tank!
22. In finishing the resurfacing process, use a small file or "deburr tool" to remove any sharp burrs on the inside and outside edges of the manhole ring being careful not to damage the top surface you have just machined.
23. Following these few, simple and easy steps will ensure a level surface on your manhole and create a superior seal plus extend the life of your gaskets.
24. Proper care and use of the RMC Resurfacing Tool will provide you with many years of reliability and time savings, along with an excellent result.