

# SAFETY GUIDE FOR BUFFING WHEEL USERS

To assure safety in the operation of buffing wheels, be sure that these guidelines are observed.

1. Be sure that the arbor hole is the correct size for the shaft it is being used on.
2. Be sure that end flanges are sturdy and can exert adequate pressure to clamp the buff securely.
3. Be sure that end flanges are sufficient in diameter to extend to the outer tips of the metal clinch ring.

## **DO NOT USE AN END FLANGE THAT IS SMALLER THAN THE CLINCH RING**

### FLANGES NECESSARY FOR SAFE OPERATION

4" diameter flange for 3" diameter clinch ring  
8" diameter flange for 5" diameter clinch ring  
8" diameter flange for 7" diameter clinch ring  
10" diameter flange for 9" diameter clinch ring

4. Be sure thread on arbor shaft is in good condition, that nut can be screwed on freely and that threaded portion of shaft is sufficient to allow firm clamping of buff with end flanges.
  5. Tighten shaft nut securely with an adequate wrench.
  6. Be sure nut remains tight. Re-tighten occasionally if necessary.
  7. If spacers are used between buff sections:
    - a. Outside diameter of spacer must be large enough to cover outside tips of clinch ring.
    - b. If spacer supports buff center, be sure that support area is the entire inside diameter of the clinch ring.
    - c. Be sure that flange areas of spacer will securely clamp the buff and are not designed so that support area or interlock portions prevent flange pressure on buff.
- \*\*\*BUFF MUST NOT SPIN ON SPACER OR HUB\*\*\***  
**\*\*\*THIS CAN CAUSE CLINCH RING TO BREAK\*\*\***
8. Be sure buffing wheel is adequately guarded. See machine manufacturer's recommendations.
  9. Proper holding devices should be used for small and irregular shaped parts.
  10. Never reach or permit clothing to get between rotating buff and machine or work piece fixture.
  11. Do not leave running machine unattended.

12. Observe all safety recommendations of machine manufacturer, compound supplier and your own safety Engineering Department, including the following:
- Do not wear jewelry or loose fitting clothing, especially loose sleeves, cuffs, of shirts or jackets, or neckties. Hair, which is long enough to be caught by moving parts, should be covered.
  - Do not wear gloves. A glove can snag and pull your hand into the machine.
  - Always wear eye protection when operating this machine or when in the area of this machine.
  - Clear obstructions from the work area. Allow ample space around the machine for free movement.
  - The floor should be clean and dry for solid non-skid footing.
  - Make certain that the proper wheels are installed for the work to be performed. Always follow the wheel manufacturer's recommendations when selecting a wheel for a given application. Check the wheel to be sure they are in good condition. Do not use wheels which are excessively frayed, torn, damaged, or out of balance.
13. If excessive vibration occurs, shut machine down immediately.

### NOTICE

Buff should never be run at speeds exceeding those shown on the chart below.

Safe wheel speeds when properly clamped with recommended end flanges.

Maximum speeds in rev. per minute:

<i>Buff Diameter</i>	<i>3"</i>	<i>5"</i>	<i>7"</i>	<i>9"</i>
<b>6– 8"</b>	3600 RPM	---	---	---
<b>9 – 10"</b>	3450 RPM	---	---	---
<b>11 – 12"</b>	3000 RPM	3450 RPM	---	---
<b>13 – 15"</b>	*	2700 RPM	3000 RPM	---
<b>16 – 18"</b>	*	1800 RPM	2400 RPM	2400 RPM
<b>19 – 20"</b>	---	1200 RPM	2000 RPM	2000 RPM
<b>21 – 24"</b>	---	*	1500 RPM	1800 RPM

\* Made only in special constructions for slow RPM machines.

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