Workpiece not feeding in and out of the RAVEN

Workpieces not feeding in and out of the RAVEN are the result of an overload in X. This overload can be caused by

1. The workpiece being installed on top of the squaring plate and or the sliding plate resulting in a clamping force on the belts.
2. The workpiece being wedged in the machine. Wedging will occur if the width of the workpiece varies significantly along its length or the thickness varies significantly over its length.

An overload will result in one of three results.

1. The belts are moving but the workpiece is not.
2. The X drive has triggered the over current protection and shut down.
3. The X Drive Gears are damaged or stripped. Usually, this will be accompanied by a grating noise from the X- gear enclosure on the right side of the machine.

If the belts appear to be moving but the workpiece is not. Determine and remove the cause of the overload. Run the X drive test while pressing down on each of the belts to see if you can stop one of the belts from moving. If one of the belts can be prevented from moving the X drive gears are damaged and will have to be replaced.

If the belts are not moving and there is no noise from the X- gear enclosure on the right side of the machine. Determine and remove the cause of the overload. Cycle the power to reset the overload. Run the X drive test while pressing down on each of the belts to see if you can stop the belts from moving. If one of the belts can be prevented from moving the X drive gears are damaged and will have to be replaced.

If the belts are not moving and there is noise from the X- gear enclosure on the right side of the machine. Determine and remove the cause of the overload. Cycle the power to reset the overload. Run the X drive test while pressing down on each of the belts to see if you can stop the belts from moving. If one of the belts can be prevented from moving the X drive gears are damaged and will have to be replaced.

Preventing Overloads in X

1. Always check the measurements of the workpiece to be sure there is not a significant variance in the width or the thickness of the workpiece.
2. Whenever possible move the workpiece by hand in and out of the machine looking to see if it wedges between the squaring plate and the sliding plate.
3. Check to see that the board you were carving does not vary in thickness over its length.

4. The RAVEN will always move to the far end of the workpiece to begin the project. Always listen to the X drive as it moves the board. If the X drive is bogging down, stop immediately and determine the source of the overload.