Premier Gear and Machine Works designs, manufactures, and sell many products that enable work within the hardwood veneer industry. We are able to upgrade and retrofit any major brand of equipment in the slicing and peeling industry. Additionally, we are able to custom-build to your specifications. Below are just a few of the many items we can help you with. If your project is not covered below, contact us today.

Slicers

There are many brands and types of slicers. At PGW, we have you covered. Whether you are looking to upgrade, modify, or replace a part of your slicer, we can provide the components for your project.

- Helical Gear Conversion: This conversion upgrades your existing slicer gears to a helical design, putting the teeth on a 25 degree angle. This increases the contact area, extending the life and increasing the load carrying capacity of the gear set. The angle additionally cuts down on the noise and transmits the power more smoothly. Gears are cast from high strength ductile iron, while the pinion is made from hardened alloy steel.

- Roller Bearing Conversion: This is normally installed in conjunction with the helical gear conversion. It puts all of the rolling elements (gear shafts, pinion shaft and both ends of the tie rods) in double row spherical bearings. The gear and pinion shaft bearings are located in heavy-duty sealed pillow block housings, while the tie rod bearings are enclosed in a sealed cavity built into the end of the cast alloy rods.

- Hydraulic Knife Clamps: Excellent quality knife edges are imperative in the hardwood veneer industry. That's why we have found hydraulic knife clamps are a valuable addition to any veneer machine.On the average, this modification takes knife change times from 30 minutes to about 8 minutes. After getting the knife bed machined, the alloy steel knife clamps are hung on high strength pivot bolts. Behind each clamp is a heavy duty high pressure hydraulic cylinder. They are supplied with oil from your existing hydraulic unit, or if you choose, from a standalone hydraulic unit just for the clamping system.

- Hydraulic Flitch Pushers: This modification increases safety and eliminates the need for personnel entering the gap between the knife and the flitch as it is being loaded and dogged. Hydraulic cylinders with oversized rods are placed under the knife bed and actuated with a switch located at the operator's control panel. Oil is supplied from the existing hydraulic unit, or if you choose, from a standalone hydraulic unit just for the flitch pusher system.

- Control Systems: Our machine controller is a computer-based industrial control system that can be used on almost any system. Get all of the details along with the software and hardware specifications here.

- Automatic Greasing: This modification allows systems to be greased easily and rapidly.