Burgess Edge Adjustable Bull Nose router bit

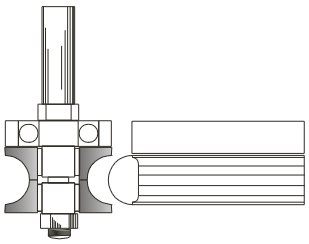
The Burgess Edge adjustable bull nose bit makes adding a bull nose to your edgebanded plywood quick and easy. The first step is to edgeband the plywood so that a strong 3/8" of wood is showing past the veneer of the plywood. Normally, you will find that the bit works well the way it comes to you with two .016" shims installed between the cutters. To determine if the bit is properly adjusted, hold the bit up to the plywood to be edgeanded and visually determine if the tip of the top and bottom cutters are touching the veneer on the plywood. If the bit is too wide or too narrow, adjust your bit by adding or subtracting gauged shims provided with your bit so that the cutting width of the bit matches the plywood you are edgebanding. If it is close, simply clamp a straight edge along the veneer of the plywood, adjust the router vertically, and form a perfect bullnose every time.

Commonly, a bull nose is formed on plywood using a 3/8" quarter round from both surfaces. The problem is, as we all have experienced, the bearing is past the center on the second pass and a ridge is formed at the apex of the curve.

All alternative full bull nose bits available today either have no bearing or use a bearing that corresponds with the inside apex of the bit's curve or the small diameter on the bit. Furthermore, the opening across the bit, at the large diameter, is tapered outward to a greater dimension than the material being cut to prevent the bit from making a ridge on the material. This design results from the fact that the material that requires a bull nose varies in thickness. The problem with this design is that when a straight edge is employed to guide the cut, the bit cuts into the straight edge. Secondly, the placement of the straight edge relative to the infill material on plywood has to be determined by trial and error because it is difficult to predict when the bit will cut just up to the veneer on the plywood and create a smooth curve.

The Burgess Edge Adjustable Bull Nose bit solves the shortcomings of the traditional bull nose methods. The Burgess Edge bits are adjustable from .690" to .790" by means of various shims which are provided with the bit. The bit comes with the two .016" shims inserted between the two cutters. Most American plywood is around .720" and when the bits are set up to cut this thickness, the straight edge guide can simply be clamped to the line corresponding with the plywood veneer and the bit will cut a bull nose on the infill material right up to the veneer.

The *innovative* **Burgess Edge Bit**



Old Style Bit