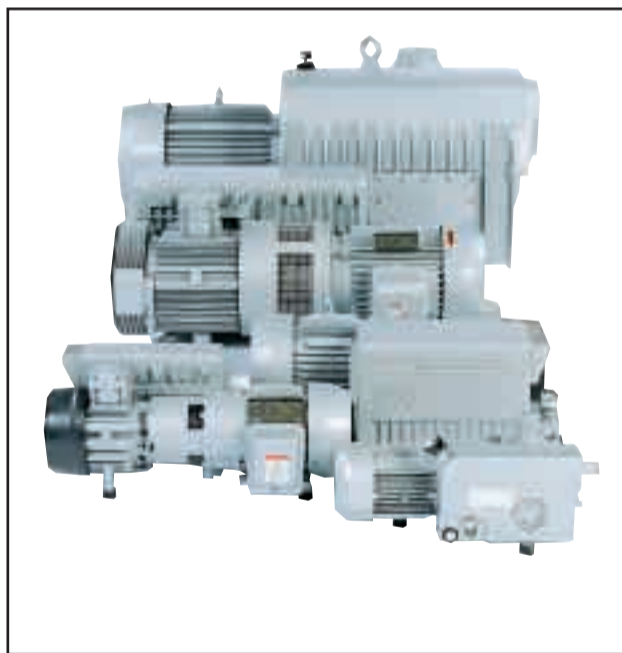


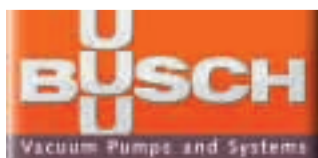
# Vacuum Pump Improves Router Productivity

## Max/Min

### Maximum Vacuum Hold Down Minimum Scrap in CNC Routing



- **Maximum** hold down with consistent vacuum levels
- **Maximum** efficiency
- **Maximum** production
- **Maximum** reliability
- **Minimum** wasted pieces because of slippage
- **Minimum** maintenance
- **Minimum** energy cost
- **Minimum** floor space



Charlie Hutchens of Promotional Wood Products with the Busch vacuum pump he selected for his router.

Charlie Hutchens, co-owner of Promotional Wood Products in Boston, Kentucky, selected a rotary vane vacuum pump for his new CNC router because it offered better work-piece hold down and more efficient operation compared to other pump choices.

In CNC routing, the vacuum pump that provides work-piece hold down is usually either a liquid ring pump or rotary vane pump.

After thorough examination of the two pump types, Hutchens chose a rotary vane pump manufactured by Busch, Inc. He said, "Tight vacuum hold down prevents the work piece from moving, resulting in less scrap and preventing damage to the router tools." The Busch pump provides maximum hold down with consistent vacuum levels which is exactly what Hutchens needed.

He continued, "You really need a good, reliable vacuum hold down when you are working with small, intricate parts." A break in the vacuum, allowing a work piece to move, could cause a cutter to snap resulting in downtime, lost production, and expensive parts replacement.

Often, liquid ring vacuum pumps are used because of their lower initial cost than rotary vane pumps. But, during his evaluation, Hutchens found that the Busch rotary vane pump offered more than just consistent vacuum – it offered greater efficiency. The Busch vacuum pump uses a smaller motor (15hp) which saves energy and floor space compared to the liquid ring pump (25hp).

Hutchens concluded, "The Busch vacuum pump is more compact, uses less horsepower, holds a truer vacuum and is efficient. It delivers the vacuum hold down I need."

Promotional Wood products manufacturers speciality wooden containers and display units for many different industries.