

NESTED BASED MANUFACTURING

WHAT IS NBM?

A manufacturing system used to produce groups of components nested together on sheets of material.

HOW DOES NBM WORK?

- Parts are designed on a computer and cutting instructions are sent to the router.
- Parts that were traditionally processed on a saw are now cut on the router.
- The router profiles, drills and cuts the parts, all in a single process.

BENEFITS OF NBM

- Lower Capital Cost
- Reduced Handling
- Increased Flexibility
- Consistent Quality
- Shorter Manufacturing Cycles
- Reduced Inventory
- Improved Productivity

WHAT PRODUCTS ARE CURRENTLY BEING PRODUCED USING NBM?

- Kitchen cabinets and doors
- Ready to assemble furniture
- Store fixtures and displays
- Boats and other alloy / metal products
- Engineering components

BENEFITS OF NBM

More efficient use of operators time.

- Operations such as edge banding of components from the first sheet can be done while the next sheet is routed

More efficient material usage.

- The nesting of shapes to be cut on a router can take advantage of the machines ability to cut odd shaped components out of a sheet of material in a single, full depth, through cut. The result is a gain in material yield.

BENEFITS OF NBM

Machinery is easy to use.

- All of the machine instructions are made by the computer, for the job at hand. The effect of this is to reduce the skill required of the machine operator. All that has to be done is select the job, load a sheet of material, and press START.

No programming is done at the machine.

- Quicker to commission and learn - Easier to train staff.

WHAT ABOUT DUST ?

Because of high production rates efficient dust extraction is required. Benefits of this are:

- No clean down between unloading and reloading of sheets.
- Cleaner work area.
- Reduces dust particles in the air.
- Meets OH&S obligations.
- More content workers.

IS NBM RIGHT FOR ME?

You need NBM if:

- You build two or more kitchens per week.
- You think you need more staff.
- You want to decrease work load without reducing production.
- You want to be more responsive to customer needs.
- You want to reduce double handling, costly mistakes and risk of damage.

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