# Universal Insert Router Bits

## Applications

- *Designed for use on C.N.C. router machines.*
- *Can also be used on stationary overhead routers.*
- *Use with mechanical feed operations.*
- *CNC router must have excellent hold downs to ensure the least possibility of part movement.*
- *To profile edges on decorative panels, doors, frames, etc.*

## Technical Information

- *Shank style cutter body design uses 2 non-turnable profiled carbide inserts.*
- *Available in a 2-wing (flute) design only.*
- *Requires the use of backing plates to support the profiled cutting region.*
- *Standard hook angle is 10° positive.*
- *Comes complete with cutter body, wedges, screws and allen wrench.*
- *Insert router bit is manufactured in right-hand rotation.*
- *Maximum RPM for 3/4" Shank = 10,000, 1" Shank = 12,000*

## Advantages

- *Cutterhead is able to produce numerous profiles by simply changing the insert.*
- *Extended tool life over brazed tooling due to insert accuracy and superior carbide grades.*
- *Produces a constant cutting circle so setup and machine adjustments are reduced to a minimum.*
- *Lower tooling costs due to decreased down time required for tooling changes.*

| Part No. | Max. Cutting Width mm | Max. Cutting Width in. | Max. Profile Cutting Depth mm | Max. Profile Cutting Depth in. | Shank Size in. | Overall Length mm | Overall Length in. | Cutting Circle Dia. mm | Cutting Circle Dia. in. | Uses Insert No. | Backing Plate No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NU111 | 35 | 1.38" | 17 | .67" | 3/4" | 109 | 4.29" | 90 | 3.54" | 6650 | NB123 |
| NU114 | 55 | 2.17" | 22 | .87" | 3/4" | 129 | 5.08" | 100 | 3.94" | 6660 | NB122 |
| NU117 | 35 | 1.38" | 17 | .67" | 1" | 109 | 4.29" | 90 | 3.54" | 6650 | NB123 |
| NU119 | 55 | 2.17" | 22 | .87" | 1" | 129 | 5.08" | 100 | 3.94" | 6660 | NB122 |

## Spare Parts

| Part No. | Description |
|---|---|
| NP111 | Clamping Wedge for 40mm Inserts |
| NP114 | Clamping Wedge for 60mm Inserts |
| NP117 | Wedge Screw M8x12 for all Cutters |
| NP119 | Allen Wrench SW4 for Screws |
| NB122 | 60mm x 41mm Backing Plate |
| NB123 | 40mm x 36mm Backing Plate |