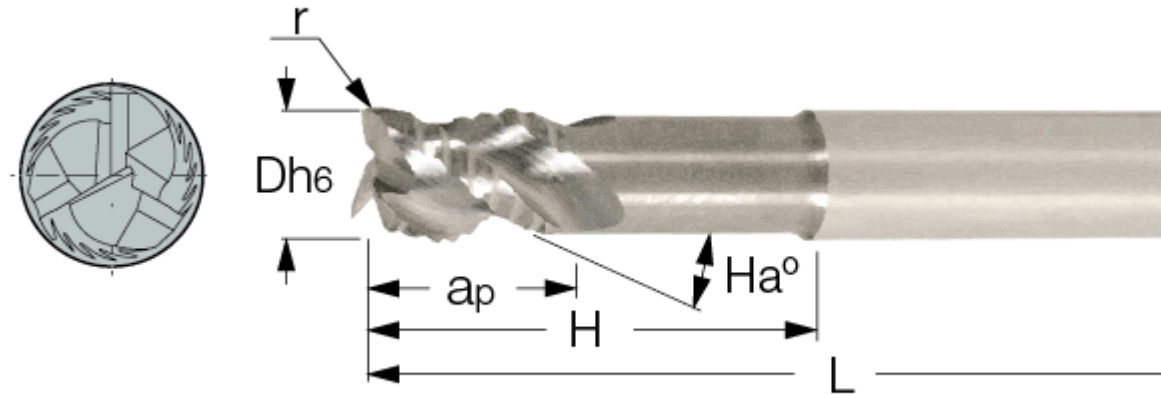
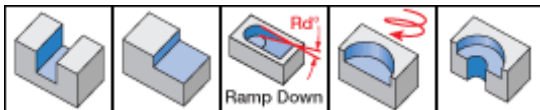




**ECR-B3-R** : 3 flute, 45°helix solid carbide roughing endmills. Used for high stock removal rates on aluminum.



Aluminum



| Designation               | D     | d     | H     | L      | Flute | Ha°/b> | Rd°/b> | ap    | Shank | r    | fz(min) | fz(max) | Grade |
|---------------------------|-------|-------|-------|--------|-------|--------|--------|-------|-------|------|---------|---------|-------|
| ECR-B3 06-09/21C06R02A57  | 6.00  | 6.00  | 21.00 | 57.00  | 3     | 45.0   | 20.0   | 9.00  | C     | 0.20 | 0.03    | 0.07    | IC08  |
| ECR-B3 06-09/21W06R02A57  | 6.00  | 6.00  | 21.00 | 57.00  | 3     | 45.0   | 20.0   | 9.00  | W     | 0.20 | 0.03    | 0.07    | IC08  |
| ECR-B3 06-09/30C06R02A65  | 6.00  | 6.00  | 30.00 | 65.00  | 3     | 45.0   | 20.0   | 9.00  | C     | 0.20 | 0.03    | 0.07    | IC08  |
| ECR-B3 06-09/30W06R02A65  | 6.00  | 6.00  | 30.00 | 65.00  | 3     | 45.0   | 20.0   | 9.00  | W     | 0.20 | 0.03    | 0.07    | IC08  |
| ECR-B3 08-12/27C08R02A63  | 8.00  | 8.00  | 27.00 | 63.00  | 3     | 45.0   | 20.0   | 12.00 | C     | 0.20 | 0.03    | 0.15    | IC08  |
| ECR-B3 08-12/27W08R02A63  | 8.00  | 8.00  | 27.00 | 63.00  | 3     | 45.0   | 20.0   | 12.00 | W     | 0.20 | 0.03    | 0.15    | IC08  |
| ECR-B3 08-12/40C08R02A78  | 8.00  | 8.00  | 40.00 | 78.00  | 3     | 45.0   | 20.0   | 12.00 | C     | 0.20 | 0.03    | 0.15    | IC08  |
| ECR-B3 08-12/40W08R02A78  | 8.00  | 8.00  | 40.00 | 78.00  | 3     | 45.0   | 20.0   | 12.00 | W     | 0.20 | 0.03    | 0.15    | IC08  |
| ECR-B3 10-12/31C10R02A72  | 10.00 | 10.00 | 31.00 | 72.00  | 3     | 45.0   | 20.0   | 12.00 | C     | 0.20 | 0.05    | 0.20    | IC08  |
| ECR-B3 10-12/31W10R02A72  | 10.00 | 10.00 | 31.00 | 72.00  | 3     | 45.0   | 20.0   | 12.00 | W     | 0.20 | 0.05    | 0.20    | IC08  |
| ECR-B3 10-12/50C10R02A100 | 10.00 | 10.00 | 50.00 | 100.00 | 3     | 45.0   | 20.0   | 12.00 | C     | 0.20 | 0.05    | 0.20    | IC08  |
| ECR-B3 10-12/50W10R02A100 | 10.00 | 10.00 | 50.00 | 100.00 | 3     | 45.0   | 20.0   | 12.00 | W     | 0.20 | 0.05    | 0.20    | IC08  |
| ECR-B3 12-12/37C12R02A83  | 12.00 | 12.00 | 37.00 | 83.00  | 3     | 45.0   | 20.0   | 12.00 | C     | 0.20 | 0.07    | 0.22    | IC08  |
| ECR-B3 12-12/37W12R02A83  | 12.00 | 12.00 | 37.00 | 83.00  | 3     | 45.0   | 20.0   | 12.00 | W     | 0.20 | 0.07    | 0.22    | IC08  |
| ECR-B3 12-14/55C12R02A100 | 12.00 | 12.00 | 55.00 | 100.00 | 3     | 45.0   | 20.0   | 14.00 | C     | 0.20 | 0.07    | 0.22    | IC08  |
| ECR-B3 12-14/55W12R02A100 | 12.00 | 12.00 | 55.00 | 100.00 | 3     | 45.0   | 20.0   | 14.00 | W     | 0.20 | 0.07    | 0.22    | IC08  |
| ECR-B3 16-14/43C16R02A92  | 16.00 | 16.00 | 43.00 | 92.00  | 3     | 45.0   | 20.0   | 14.00 | C     | 0.20 | 0.07    | 0.25    | IC08  |
| ECR-B3 16-14/43W16R02A92  | 16.00 | 16.00 | 43.00 | 92.00  | 3     | 45.0   | 20.0   | 14.00 | W     | 0.20 | 0.07    | 0.25    | IC08  |

|                           |       |       |       |        |   |      |      |       |   |      |      |      |      |
|---------------------------|-------|-------|-------|--------|---|------|------|-------|---|------|------|------|------|
| ECR-B3 16-18/80C16R02A150 | 16.00 | 16.00 | 80.00 | 150.00 | 3 | 45.0 | 20.0 | 18.00 | C | 0.20 | 0.07 | 0.25 | IC08 |
| ECR-B3 16-18/80W16R02A150 | 16.00 | 16.00 | 80.00 | 150.00 | 3 | 45.0 | 20.0 | 18.00 | W | 0.20 | 0.07 | 0.25 | IC08 |
| ECR-B3 20-17/53C20R02A104 | 20.00 | 20.00 | 53.00 | 104.00 | 3 | 45.0 | 20.0 | 17.00 | C | 0.20 | 0.07 | 0.25 | IC08 |
| ECR-B3 20-17/53W20R02A104 | 20.00 | 20.00 | 53.00 | 104.00 | 3 | 45.0 | 20.0 | 17.00 | W | 0.20 | 0.07 | 0.25 | IC08 |
| ECR-B3 20-22/80C20R02A150 | 20.00 | 20.00 | 80.00 | 150.00 | 3 | 45.0 | 20.0 | 22.00 | C | 0.20 | 0.07 | 0.25 | IC08 |
| ECR-B3 20-22/80W20R02A150 | 20.00 | 20.00 | 80.00 | 150.00 | 3 | 45.0 | 20.0 | 22.00 | W | 0.20 | 0.07 | 0.25 | IC08 |