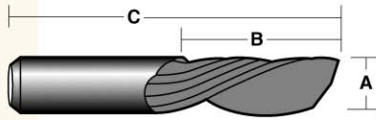


# STRAIGHT BITS

## FOR PLASTICS

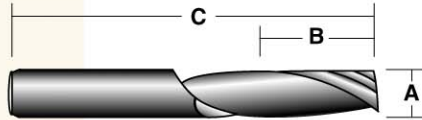
SOLID CARBIDE  
SINGLE FLUTE

For plastics including Bakelite, Acetate, Plexi, PVC, Nylon, etc.



UP CUT      DOWN CUT

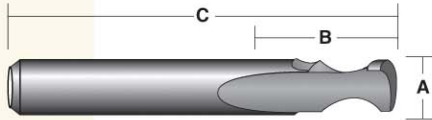
| PART No.   | PART No.   | A    |      | B   |      | C      |      | SHANK mm |
|------------|------------|------|------|-----|------|--------|------|----------|
|            |            | in.  | mm   | in. | mm   | in.    | mm   |          |
| TSPR 02 MS | TSPL 02 MS |      | 2    |     | 8    | 1-1/2  | 38.1 | 2        |
| TSPR 03 MS | TSPL 03 MS |      | 3    |     | 10   | 1-1/2  | 38.1 | 3        |
| TSPR 04 S  | TSPL 04 S  | 1/8  | 3.18 | 1/2 | 12.7 | 1-1/2  | 38.1 | 6.35     |
| TSPR 04 MS | TSPL 04 MS |      | 4    |     | 12   | 2      | 50.8 | 4        |
| TSPR 06 S  | TSPL 06 S  | 3/16 | 4.75 | 5/8 | 16   | 2      | 50.8 | 6.35     |
| TSPR 08 S  | TSPL 08 S  | 1/4  | 6.35 | 5/8 | 16   | 2      | 50.8 | 6.35     |
| TXSPR 08 S | TXSPL 08 S | 1/4  | 6.35 | 3/4 | 19   | 3-5/32 | 80   | 6.35     |



SOLID CARBIDE - SINGLE FLUTE

For hard plastics and Aluminium

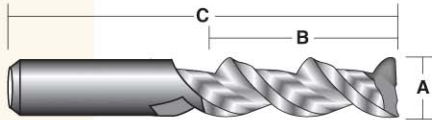
| PART No. | A   |      | B   |    | C     |      |
|----------|-----|------|-----|----|-------|------|
|          | in. | mm   | in. | mm | in.   | mm   |
| TSP08 SH | 1/4 | 6.35 | 3/4 | 19 | 2-1/2 | 63.5 |



SOLID CARBIDE - SINGLE FLUTE - EDGE ROUND FOR PLASTIC

For rounding the edge on plastic sheets or parts

| PART No. | A   |      | B   |     | C     |      | Radius |      |
|----------|-----|------|-----|-----|-------|------|--------|------|
|          | in. | mm   | in. | mm  | in.   | mm   | in.    | mm   |
| TSPER08S | 1/4 | 6.35 | 3/8 | 9.5 | 2-1/2 | 63.5 | 1/4    | 6.35 |

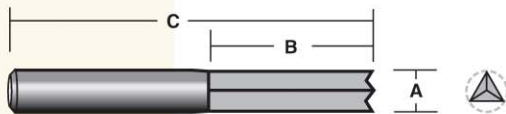


SOLID CARBIDE - 2 FLUTE FOAM CUTTER

Ideal for cutting low density foam materials at high feed rates

| PART No.    | A   |      | B   |      | C   |     |
|-------------|-----|------|-----|------|-----|-----|
|             | in. | mm   | in. | mm   | in. | mm  |
| TSFHH08     | 1/4 | 6.35 | 2   | 50.4 | 4   | 100 |
| TSFHH12 3/8 | 3/8 | 9.5  | 2   | 50.4 | 4   | 100 |

**NEW**



SOLID CARBIDE - 3 FLUTE POLYSTYRENE BIT

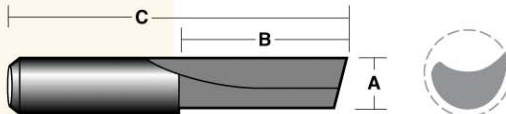
For polystyrene and soft foam products

| PART No.   | A   |      | B     |      | C   |       |
|------------|-----|------|-------|------|-----|-------|
|            | in. | mm   | in.   | mm   | in. | mm    |
| TSF 8      | 1/4 | 6.35 | 2 1/4 | 57.1 | 4   | 101.6 |
| TSF 12 3/8 | 3/8 | 9.5  | 2 1/4 | 57.1 | 4   | 101.6 |

SOLID CARBIDE - SINGLE "SPOON" FLUTE

For aluminium and some soft plastics.

**NEW**



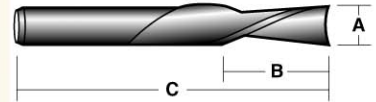
| Part No.  | A    |      | B    |       | C     |       |
|-----------|------|------|------|-------|-------|-------|
|           | in.  | mm   | in.  | mm    | in.   | mm    |
| TSP 04 S  | 1/8  | 3.18 | 5/16 | 7.94  | 1-1/2 | 38.10 |
| TSP 04 MS | 5/32 | 4    | 1/2  | 12.7  | 2-1/4 | 57.15 |
| TSP 06 S  | 3/16 | 4.75 | 1/2  | 12.70 | 2-1/4 | 57.15 |
| TSP 08 S  | 1/4  | 6.35 | 5/8  | 16    | 2-1/4 | 57.15 |

## FOR NON FERROUS METALS,

(ALUMINIUM, LAMINATES, ETC)

For aluminium, laminates, etc. Down cut pushes chips below the work. Ideal for trimming laminates and through cutting. Up cuts are ideal for grooving, slotting and routing.

SOLID CARBIDE - TWO FLUTE



UP CUT      DOWN CUT

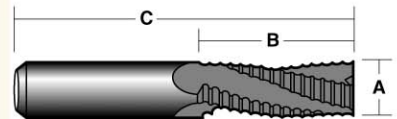
| PART No.   | PART No.   | A   |      | B     |       | C     |       |
|------------|------------|-----|------|-------|-------|-------|-------|
|            |            | in. | mm   | in.   | mm    | in.   | mm    |
| TSR 8      | TSL 8      | 1/4 | 6.35 | 3/4   | 19    | 2-1/2 | 63.5  |
| TXSR 8     | TXSL 8     | 1/4 | 6.35 | 1     | 25.40 | 2-1/2 | 63.5  |
| TSR 12 3/8 | TSL 12 3/8 | 3/8 | 9.53 | 1     | 25.40 | 2-1/2 | 63.5  |
| TSR 16 1/2 | TSL 16 1/2 | 1/2 | 12.7 | 1-1/4 | 31.75 | 3     | 76.20 |

## WOOD CUTTING

### ROUGHING SPIRAL BITS

SOLID CARBIDE - THREE FLUTE

For increased feed rates to give fast routing of hard materials.



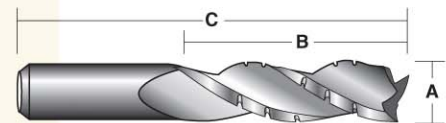
UP CUT      DOWN CUT

| PART No.    | PART No.    | A   |      | B     |       | C     |      |
|-------------|-------------|-----|------|-------|-------|-------|------|
|             |             | in. | mm   | in.   | mm    | in.   | mm   |
| TSRR 8      |             | 1/4 | 6.35 | 3/4   | 19.05 | 2-1/2 | 63.5 |
| TSRR 8 M    |             |     | 8    |       | 25.   |       | 63   |
| TSRR 12 3/8 | TSLR 12 3/8 | 3/8 | 9.53 | 1     | 25.4  | 2-1/2 | 63.5 |
| TSRR 10 M   |             |     | 10   |       | 25    |       | 75   |
| TSRR 12 M   |             |     | 12   |       | 32    |       | 75   |
| TSRR 16 1/2 | TSLR 16 1/2 | 1/2 | 12.7 | 1-1/4 | 31.75 | 3     | 76.2 |
| TSRR 16 M   | TSLR 16 M   |     | 16   |       | 35    |       | 92   |
| TSRR 20 M   |             |     | 20   |       | 40    |       | 104  |

### 3 FLUTE CHIPBREAKER SPIRAL

SOLID CARBIDE

The chipbreaker grind is staggered on each flute which produces small chips and leaves a clean cut at high feed rates as well as minimising vibration. For hardwoods and dense materials.

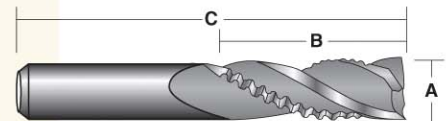


UP CUT      DOWN CUT

| PART No.      | PART No.      | A   |      | B     |      | C     |    |
|---------------|---------------|-----|------|-------|------|-------|----|
|               |               | in. | mm   | in.   | mm   | in.   | mm |
| TSRCB 12 3/8  | TSLCB 12 3/8  | 3/8 | 9.5  | 1-1/4 | 31.8 | 3     | 76 |
| TXSRCB 16 1/2 | TXSLCB 16 1/2 | 1/2 | 12.7 | 1-3/4 | 44.4 | 3-5/8 | 92 |
| TSRCB 16 M    | TSLCB 16 M    |     | 16   |       | 41   |       | 92 |

### 4 FLUTE ROUGHER FINISHER

SOLID CARBIDE



UP CUT      DOWN CUT

| PART No.       | PART No.       | A   |      | B     |       | C     |    |
|----------------|----------------|-----|------|-------|-------|-------|----|
|                |                | in. | mm   | in.   | mm    | in.   | mm |
| T4SRRF 12 3/8  | T4SLRF 12 3/8  | 3/8 | 9.5  | 1-1/4 | 31.75 | 3     | 76 |
| T4SRRF 16 1/2  | T4SLRF 16 1/2  | 1/2 | 12.7 | 1-1/4 | 31.8  | 3     | 76 |
| T4XSRRF 16 1/2 | T4XSRLF 16 1/2 | 1/2 | 12.7 | 1-1/2 | 38    | 3-5/8 | 92 |

