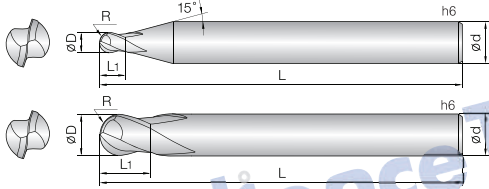


## 2 Flutes Wide Cut Short Length Ball End Mills



# 2WSB



- Ball Endmills for various work material (HRC 50~62) Pre-hardened steels and Hardened steels.
- Good wear resistance by Si-based W coating.
- High-Precise edge tolerance.
- Good surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2µm) grade.



Unit(mm)

| Model Number      | Cutting Dia.<br>D | Radius Of BN<br>R | Length Of Cut<br>L1 | Effective Length<br>L2 | Overall Length<br>L | Shank dia<br>d |
|-------------------|-------------------|-------------------|---------------------|------------------------|---------------------|----------------|
| 2WSB 005 005 445  | 0.5               | 0.25R             | 0.5                 | -                      | 45                  | 4              |
| 2WSB 005 0075 445 | 0.5               | 0.25R             | 0.75                | -                      | 45                  | 4              |
| 2WSB 006 006 445  | 0.6               | 0.3R              | 0.6                 | -                      | 45                  | 4              |
| 2WSB 006 009 445  | 0.6               | 0.3R              | 0.9                 | -                      | 45                  | 4              |
| 2WSB 007 007 445  | 0.7               | 0.35R             | 0.7                 | -                      | 45                  | 4              |
| 2WSB 007 010 445  | 0.7               | 0.35R             | 1                   | -                      | 45                  | 4              |
| 2WSB 008 008 445  | 0.8               | 0.4R              | 0.8                 | -                      | 45                  | 4              |
| 2WSB 008 012 445  | 0.8               | 0.4R              | 1.2                 | -                      | 45                  | 4              |
| 2WSB 009 009 445  | 0.9               | 0.45R             | 0.9                 | -                      | 45                  | 4              |
| 2WSB 009 013 445  | 0.9               | 0.45R             | 1.3                 | -                      | 45                  | 4              |
| 2WSB 010 010 445  | 1                 | 0.5R              | 1                   | -                      | 45                  | 4              |
| 2WSB 010 010 650  | 1                 | 0.5R              | 1                   | -                      | 50                  | 6              |
| 2WSB 010 015 445  | 1                 | 0.5R              | 1.5                 | -                      | 45                  | 4              |
| 2WSB 010 015 650  | 1                 | 0.5R              | 1.5                 | -                      | 50                  | 6              |
| 2WSB 012 012 445  | 1.2               | 0.6R              | 1.2                 | -                      | 45                  | 4              |
| 2WSB 015 015 445  | 1.5               | 0.75R             | 1.5                 | -                      | 45                  | 4              |
| 2WSB 015 015 650  | 1.5               | 0.75R             | 1.5                 | -                      | 50                  | 6              |
| 2WSB 015 023 445  | 1.5               | 0.75R             | 2.3                 | -                      | 45                  | 4              |
| 2WSB 015 023 650  | 1.5               | 0.75R             | 2.3                 | -                      | 50                  | 6              |
| 2WSB 020 020 445  | 2                 | 1R                | 2                   | -                      | 45                  | 4              |
| 2WSB 020 020 650  | 2                 | 1R                | 2                   | -                      | 50                  | 6              |
| 2WSB 020 030 445  | 2                 | 1R                | 3                   | -                      | 45                  | 4              |
| 2WSB 020 030 650  | 2                 | 1R                | 3                   | -                      | 50                  | 6              |
| 2WSB 025 025 445  | 2.5               | 1.25R             | 2.5                 | -                      | 45                  | 4              |
| 2WSB 025 025 650  | 2.5               | 1.25R             | 2.5                 | -                      | 50                  | 6              |
| 2WSB 030 030 445  | 3                 | 1.5R              | 3                   | -                      | 45                  | 4              |

## 2 Flutes Wide Cut Short Length Ball End Mills



Unit(mm)

| Model Number     | Cutting Dia.<br>D | Radius Of BN<br>R | Length Of Cut<br>L1 | Effective Length<br>L2 | Overall Length<br>L | Shank dia<br>d |
|------------------|-------------------|-------------------|---------------------|------------------------|---------------------|----------------|
| 2WSB 030 030 650 | 3                 | 1.5R              | 3                   | -                      | 50                  | 6              |
| 2WSB 030 045 445 | 3                 | 1.5R              | 4.5                 | -                      | 45                  | 4              |
| 2WSB 030 045 650 | 3                 | 1.5R              | 4.5                 | -                      | 50                  | 6              |
| 2WSB 040 040 445 | 4                 | 2R                | 4                   | -                      | 45                  | 4              |
| 2WSB 040 040 650 | 4                 | 2R                | 4                   | -                      | 50                  | 6              |
| 2WSB 040 060 445 | 4                 | 2R                | 6                   | -                      | 45                  | 4              |
| 2WSB 040 060 650 | 4                 | 2R                | 6                   | -                      | 50                  | 6              |
| 2WSB 050 050 650 | 5                 | 2.5R              | 5                   | -                      | 50                  | 6              |
| 2WSB 050 075 650 | 5                 | 2.5R              | 7.5                 | -                      | 50                  | 6              |
| 2WSB 060 060 650 | 6                 | 3R                | 6                   | -                      | 50                  | 6              |
| 2WSB 060 060 660 | 6                 | 3R                | 6                   | -                      | 60                  | 6              |
| 2WSB 080 080 850 | 8                 | 4R                | 8                   | -                      | 50                  | 8              |
| 2WSB 080 080 860 | 8                 | 4R                | 8                   | -                      | 60                  | 8              |
| 2WSB 100 100 A60 | 10                | 5R                | 10                  | -                      | 60                  | 10             |
| 2WSB 100 100 A75 | 10                | 5R                | 10                  | -                      | 75                  | 10             |
| 2WSB 120 120 C60 | 12                | 6R                | 12                  | -                      | 60                  | 12             |
| 2WSB 120 120 C75 | 12                | 6R                | 12                  | -                      | 75                  | 12             |

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS