

# Wiertła VHM

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## Solid carbide drills

**N-POL**  
cutting tools



# W001

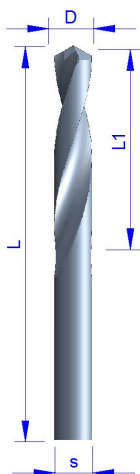
## Wiertła pełno węglkowe / Solid carbide drills

SW

MDF

PW

PY

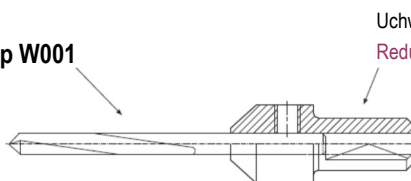


Pełno węglkowe wiertła do drewna. Do maszyn numerycznych CNC i wiertarek. Do drewna i tworzyw sztucznych.

Solid Carbide drills. For CNC machines and drilling machines. For wood and plastic materials.

| D   | L1 | L  | s   | Art. Nr R         | Art. Nr L         |
|-----|----|----|-----|-------------------|-------------------|
| 2   | 15 | 50 | 2   | W001.020.015.050R | W001.020.015.050L |
| 2,5 | 15 | 50 | 2,5 | W001.025.015.050R | W001.025.015.050L |
| 3   | 17 | 50 | 3   | W001.030.017.050R | W001.030.017.050L |
| 3,5 | 20 | 50 | 3,5 | W001.035.020.050R | W001.035.020.050L |
| 4   | 30 | 60 | 4   | W001.040.030.060R | W001.040.030.060L |
| 5   | 30 | 60 | 5   | W001.050.030.060R | W001.050.030.060L |

Typ W001



Uchwyt redukcji do wiertel na typ W001/

Reduction for drill bits for W001/

Na życzenie również inne wymiary /

Special dimension on request

# W002

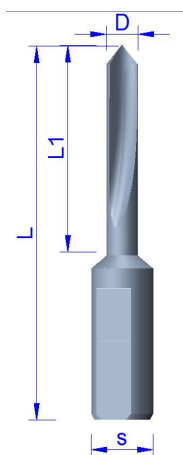
## Wiertła pełno węglkowe / Solid carbide drills

SW

MDF

PW

PY



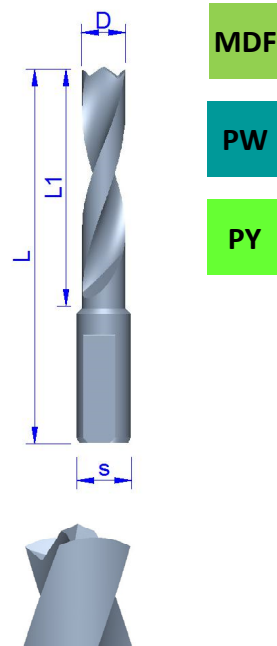
Pełno węglkowe wiertła do drewna. Do maszyn numerycznych CNC i wiertarek. Do drewna i tworzyw sztucznych.

Solid Carbide drills. For CNC machines and drilling machines. For wood and plastic materials.

| D  | L1 | L  | s  | Art. Nr          |
|----|----|----|----|------------------|
| 4  | 25 | 57 | 10 | W002.040.025.057 |
| 5  | 25 | 57 | 10 | W002.050.025.057 |
| 6  | 25 | 57 | 10 | W002.060.025.057 |
| 7  | 25 | 57 | 10 | W002.070.025.057 |
| 8  | 25 | 57 | 10 | W002.080.025.057 |
| 9  | 25 | 57 | 10 | W002.090.025.057 |
| 10 | 25 | 57 | 10 | W002.100.025.057 |
| 4  | 35 | 70 | 10 | W002.040.035.070 |
| 5  | 40 | 70 | 10 | W002.050.040.070 |
| 6  | 40 | 70 | 10 | W002.060.040.070 |
| 7  | 40 | 70 | 10 | W002.070.040.070 |
| 8  | 40 | 70 | 10 | W002.080.040.070 |
| 9  | 40 | 70 | 10 | W002.090.040.070 |
| 10 | 40 | 70 | 10 | W002.100.040.070 |

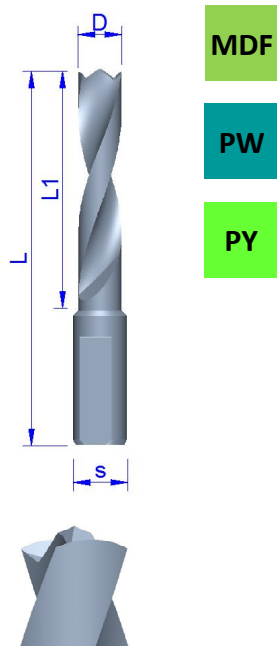
Pełno węglkowe wiertła do drewna typu HP. Do maszyn numerycznych CNC i wiertarek. Do obróbki twardych materiałów i tworzyw sztucznych. Nacinacze półokrągłe, długa żywotność wiertła, bardzo dobra jakość wiercenia.  
Solid carbide drills typ HP. For CNC machines and drilling machines. For drilling **abrasive material**. Rounded spurs with center point. Excellent finish, longer tool life.

| D | L1 | L  | s | Art. Nr R         | Art. Nr L         |
|---|----|----|---|-------------------|-------------------|
| 4 | 25 | 57 | 8 | W003.040.025.057R | W003.040.025.057L |
| 5 | 25 | 57 | 8 | W003.050.025.057R | W003.050.025.057L |
| 6 | 25 | 57 | 8 | W003.060.025.057R | W003.060.025.057L |
| 7 | 25 | 57 | 8 | W003.070.025.057R | W003.070.025.057L |
| 8 | 25 | 57 | 8 | W003.080.025.057R | W003.080.025.057L |
| 4 | 40 | 70 | 8 | W003.040.040.070R | W003.040.040.070L |
| 5 | 40 | 70 | 8 | W003.050.040.070R | W003.050.040.070L |
| 6 | 40 | 70 | 8 | W003.060.040.070R | W003.060.040.070L |
| 7 | 40 | 70 | 8 | W003.070.040.070R | W003.070.040.070L |
| 8 | 40 | 70 | 8 | W003.080.040.070R | W003.080.040.070L |



Pełno węglkowe wiertła do drewna typu HP. Do maszyn numerycznych CNC i wiertarek. Do obróbki twardych materiałów i tworzyw sztucznych. Nacinacze półokrągłe, długa żywotność wiertła, bardzo dobra jakość wiercenia.  
Solid carbide drills typ HP. For CNC machines and drilling machines. For drilling **abrasive material**. Rounded spurs with center point. Excellent finish, longer tool life.

| D  | L1 | L  | s  | Art. NR R         | Art. Nr L         |
|----|----|----|----|-------------------|-------------------|
| 4  | 25 | 57 | 10 | W004.040.025.057R | W004.040.025.057L |
| 5  | 25 | 57 | 10 | W004.050.025.057R | W004.050.025.057L |
| 6  | 25 | 57 | 10 | W004.060.025.057R | W004.060.025.057L |
| 7  | 25 | 57 | 10 | W004.070.025.057R | W004.070.025.057L |
| 8  | 25 | 57 | 10 | W004.080.025.057R | W004.080.025.057L |
| 9  | 25 | 57 | 10 | W004.090.025.057R | W004.090.025.057L |
| 10 | 25 | 57 | 10 | W004.100.025.057R | W004.100.025.057L |
| 4  | 40 | 70 | 10 | W004.040.040.070R | W004.040.040.070L |
| 5  | 40 | 70 | 10 | W004.050.040.070R | W004.050.040.070L |
| 6  | 40 | 70 | 10 | W004.060.040.070R | W004.060.040.070L |
| 7  | 40 | 70 | 10 | W004.070.040.070R | W004.070.040.070L |
| 8  | 40 | 70 | 10 | W004.080.040.070R | W004.080.040.070L |
| 9  | 40 | 70 | 10 | W004.090.040.070R | W004.090.040.070L |
| 10 | 40 | 70 | 10 | W004.100.040.070R | W004.100.040.070L |



# W005

## Wiertła pełno węglkowe / Solid carbide drills

MDF

PW

PY



Pełno węglkowe wiertła do drewna typu HP, 3 spirale. Do maszyn numerycznych CNC i wiertarek. Do obróbki twar-  
dych materiałów i tworzyw sztucznych. 3 nacinacze z fazą, długa żywotność wiertła, bardzo dobra jakość wiercenia.

Solid carbide drills type HP, 3 flutes. For CNC machines and drilling machines. For drilling **abrasive material** 3-  
negative spurs and center point. **Excellent finish, longer tool life.**

| D | L1 | L  | s | Art. Nr R         | Art. Nr L         |  |
|---|----|----|---|-------------------|-------------------|--|
| 5 | 25 | 57 | 8 | W005.050.025.057R | W005.050.025.057L |  |
| 6 | 25 | 57 | 8 | W005.060.025.057R | W005.060.025.057L |  |
| 7 | 25 | 57 | 8 | W005.070.025.057R | W005.070.025.057L |  |
| 8 | 25 | 57 | 8 | W005.080.025.057R | W005.080.025.057L |  |
| 5 | 40 | 70 | 8 | W005.050.040.070R | W005.050.040.070L |  |
| 6 | 40 | 70 | 8 | W005.060.040.070R | W005.060.040.070L |  |
| 7 | 40 | 70 | 8 | W005.070.040.070R | W005.070.040.070L |  |
| 8 | 40 | 70 | 8 | W005.080.040.070R | W005.080.040.070L |  |

# W006

## Wiertła pełno węglkowe / Solid carbide drills

MDF

PW

PY



Pełno węglkowe wiertła do drewna typu HP, 3 spirale. Do maszyn numerycznych CNC i wiertarek. Do obróbki twar-  
dych materiałów i tworzyw sztucznych. 3 nacinacze z fazą, długa żywotność wiertła, bardzo dobra jakość wiercenia.

Solid carbide drills type HP, 3 flutes. For CNC machines and drilling machines. For drilling **abrasive material** 3-  
negative spurs and center point. **Excellent finish, longer tool life.**

| D  | L1 | L  | s  | Art. Nr R          | Art. Nr L          |  |
|----|----|----|----|--------------------|--------------------|--|
| 5  | 25 | 57 | 10 | W006.050.025.057R  | W006.050.025.057L  |  |
| 6  | 25 | 57 | 10 | W006.060.025.057R  | W006.060.025.057L  |  |
| 7  | 25 | 57 | 10 | W006.070.025.057R  | W006.070.025.057L  |  |
| 8  | 25 | 57 | 10 | W006.080.025.057R  | W006.080.025.057L  |  |
| 9  | 25 | 57 | 10 | W006.090.025.057R  | W006.090.025.057L  |  |
| 10 | 25 | 57 | 10 | W006.100.025.057R  | W006.100.025.057L  |  |
| 12 | 25 | 57 | 10 | W006.120.025.057R  | W006.120.025.057L  |  |
| 5  | 40 | 70 | 10 | W006.050.040.070R  | W006.050.040.070L  |  |
| 6  | 40 | 70 | 10 | W006.060.040.070R  | W006.060.040.070L  |  |
| 7  | 40 | 70 | 10 | W006.070.040.070R  | W006.070.040.070L  |  |
| 8  | 40 | 70 | 10 | W006.080.040.070R  | W006.080.040.070L  |  |
| 9  | 40 | 70 | 10 | W006.090.040.070R  | W006.090.040.070L  |  |
| 10 | 40 | 70 | 10 | W006.100.040.070.R | W006.100.040.070.L |  |
| 11 | 40 | 70 | 10 | W006.110.040.070.R | W006.110.040.070.L |  |
| 12 | 40 | 70 | 10 | W006.120.040.070.R | W006.120.040.070.L |  |

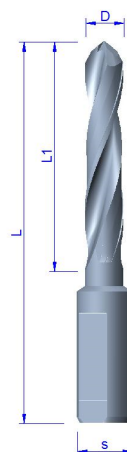
## Wiertła pełno węglkowe / Solid carbide drills

# W007

Pełno węglkowe wiertła do drewna typu **HP-V**. Do maszyn numerycznych CNC i wiertarek. Do obróbki twardych materiałów i tworzyw sztucznych. **2 stopniowa faza**, długa **żywność wiertła**, bardzo dobra jakość wiercenia.

Solid carbide drills type **HP-V**. For CNC machines and drilling machines. For drilling **abrasive material**. Two-step phase, **excellent finish**, **longer tool life**.

| D | L1 | L  | s | Art. Nr R         | Art. Nr L         |  |
|---|----|----|---|-------------------|-------------------|--|
| 4 | 25 | 57 | 8 | W007.040.025.057R | W007.040.025.057L |  |
| 5 | 25 | 57 | 8 | W007.050.025.057R | W007.050.025.057L |  |
| 6 | 25 | 57 | 8 | W007.060.025.057R | W007.060.025.057L |  |
| 7 | 25 | 57 | 8 | W007.070.025.057R | W007.070.025.057L |  |
| 8 | 25 | 57 | 8 | W007.080.025.057R | W007.080.025.057L |  |
| 4 | 40 | 70 | 8 | W007.040.040.070R | W007.040.040.070L |  |
| 5 | 40 | 70 | 8 | W007.050.040.070R | W007.050.040.070L |  |
| 6 | 40 | 70 | 8 | W007.060.040.070R | W007.060.040.070L |  |
| 7 | 40 | 70 | 8 | W007.070.040.070R | W007.070.040.070L |  |
| 8 | 40 | 70 | 8 | W007.080.040.070R | W007.080.040.070L |  |



MDF

PW

PY

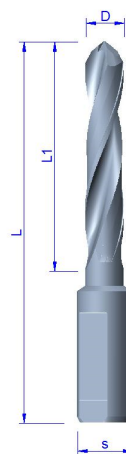
## Wiertła pełno węglkowe / Solid carbide drills

# W008

Pełno węglkowe wiertła do drewna typu **HP-V**. Do maszyn numerycznych CNC i wiertarek. Do obróbki twardych materiałów i tworzyw sztucznych. **2 stopniowa faza**, długa **żywność wiertła**, bardzo dobra jakość wiercenia.

Solid carbide drills type **HP-V**. For CNC machines and drilling machines. For drilling **abrasive material**. Two-step phase, **excellent finish**, **longer tool life**.

| D  | L1 | L  | s  | Art. Nr R         | Art. Nr L         |  |
|----|----|----|----|-------------------|-------------------|--|
| 4  | 25 | 57 | 10 | W008.040.025.057R | W008.040.025.057L |  |
| 5  | 25 | 57 | 10 | W008.050.025.057R | W008.050.025.057L |  |
| 6  | 25 | 57 | 10 | W008.060.025.057R | W008.060.025.057L |  |
| 7  | 25 | 57 | 10 | W008.070.025.057R | W008.070.025.057L |  |
| 8  | 25 | 57 | 10 | W008.080.025.057R | W008.080.025.057L |  |
| 9  | 25 | 57 | 10 | W008.090.025.057R | W008.090.025.057L |  |
| 10 | 25 | 57 | 10 | W008.100.025.057R | W008.100.025.057L |  |
| 4  | 40 | 70 | 10 | W008.040.040.070R | W008.040.040.070L |  |
| 5  | 40 | 70 | 10 | W008.050.040.070R | W008.050.040.070L |  |
| 6  | 40 | 70 | 10 | W008.060.040.070R | W008.060.040.070L |  |
| 7  | 40 | 70 | 10 | W008.070.040.070R | W008.070.040.070L |  |
| 8  | 40 | 70 | 10 | W008.080.040.070R | W008.080.040.070L |  |
| 9  | 40 | 70 | 10 | W008.090.040.070R | W008.090.040.070L |  |
| 10 | 40 | 70 | 10 | W008.100.040.070R | W008.100.040.070L |  |



MDF

PW

PY

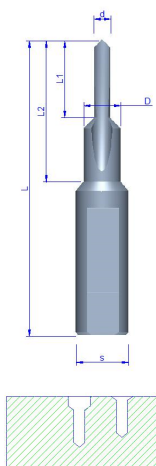
## W009

### Wiertła pełno węglkowe / Solid carbide drills

MDF

PW

PY



Dwustopniowe wiertła pełno węglkowe do drewna z prostym rowkiem. Do maszyn numerycznych CNC i wiertarek. Do obróbki twardych materiałów i tworzyw sztucznych. Kierunek obrotów prawo/lewo.

Two-step solid carbide drills with countersink straight cutting edges. For CNC machines and drilling machines. Ideal for drilling highly **abrasive material**. Right/left rotation.

| d   | D  | L1 | L2 | L  | s  | Art. nr          |  |
|-----|----|----|----|----|----|------------------|--|
| 4   | 8  | 15 | 25 | 70 | 10 | W009.040.080.070 |  |
| 5   | 8  | 20 | 45 | 70 | 10 | W009.050.080.070 |  |
| 5,5 | 8  | 20 | 45 | 70 | 10 | W009.055.080.070 |  |
| 6   | 10 | 20 | 45 | 70 | 10 | W009.060.100.070 |  |
| 6,5 | 10 | 25 | 45 | 70 | 10 | W009.065.100.070 |  |
| 7   | 10 | 25 | 45 | 70 | 10 | W009.070.100.070 |  |
| 7,5 | 10 | 25 | 45 | 70 | 10 | W009.075.100.070 |  |
| 8   | 10 | 25 | 45 | 70 | 10 | W009.080.100.070 |  |
| 8,5 | 10 | 25 | 45 | 70 | 10 | W009.085.100.070 |  |
| 5   | 12 | 20 | 45 | 70 | 10 | W009.050.120.070 |  |
| 5,5 | 12 | 20 | 45 | 70 | 10 | W009.055.120.070 |  |
| 6   | 12 | 20 | 45 | 70 | 10 | W009.060.120.070 |  |
| 6,5 | 12 | 25 | 45 | 70 | 10 | W009.065.120.070 |  |
| 7   | 12 | 25 | 45 | 70 | 10 | W009.070.120.070 |  |
| 7,5 | 12 | 25 | 45 | 70 | 10 | W009.075.120.070 |  |
| 8   | 12 | 25 | 45 | 70 | 10 | W009.080.120.070 |  |
| 8,5 | 12 | 25 | 45 | 70 | 10 | W009.085.120.070 |  |

## W010

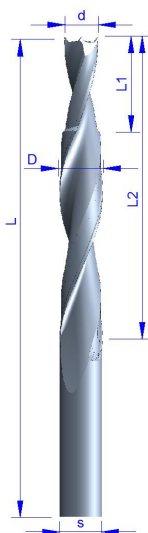
### Wiertła pełno węglkowe / Solid carbide drills

MDF

PW

PY

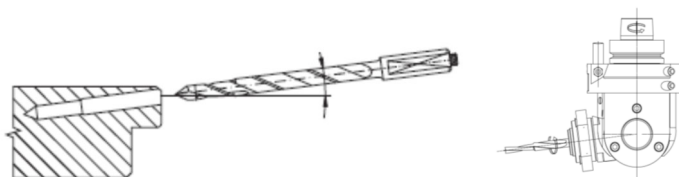
SW



Pełno węglkowe wiertła do drewna typu ANUBA. Do maszyn numerycznych CNC i wiertarek. Do wiercenia pod osadzenie zawiasów, bardzo dobra jakość wiercenia i żywotność.

Full carbide drills type ANUBA. For CNC numeric machines and drilling machines. For hinge drilling, very good drilling quality and long service life.

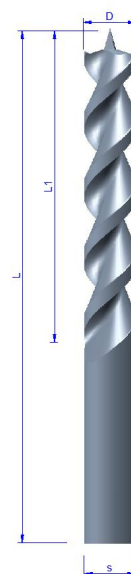
| d   | D   | L1 | L2 | L   | s  | Anuba | Art. nr |  |
|-----|-----|----|----|-----|----|-------|---------|--|
| 3,8 | 5   | 20 | 40 | 75  | 10 | 9     | W010.01 |  |
| 4,2 | 5,7 | 20 | 45 | 80  | 10 | 11    | W010.02 |  |
| 5,2 | 6,5 | 15 | 50 | 85  | 10 | 13    | W010.03 |  |
| 5,5 | 7   | 15 | 55 | 90  | 10 | 14    | W010.04 |  |
| 6   | 7,7 | 15 | 60 | 95  | 10 | 16    | W010.05 |  |
| 6,6 | 8,2 | 20 | 70 | 105 | 10 | 18    | W010.06 |  |
| 7,2 | 8,7 | 20 | 80 | 115 | 10 | 20    | W010.07 |  |



Wiertła VHM do głębokiego wiercenia. Do obróbki drewna. Wysoka sztywność, wykonanie z pełnego węglika, szybkie i czyste odprowadzenie wióra dzięki głębokiej spirali.

Solid carbide drill for deep drilling. For solid wood. High stiffness, fast and clean chip ejection so deep spiral.

| D  | L <sub>1</sub> | L   | s     | Art.. Nr R        | Art.. Nr L        |  |
|----|----------------|-----|-------|-------------------|-------------------|--|
| 4  | 50             | 90  | 4x40  | W011.040.050.090R | W011.040.050.090L |  |
| 5  | 60             | 100 | 5x40  | W011.050.060.100R | W011.050.060.100L |  |
| 6  | 80             | 120 | 6x40  | W011.060.080.120R | W011.060.080.120L |  |
| 7  | 80             | 120 | 8x40  | W011.070.080.120R | W011.070.080.120L |  |
| 8  | 90             | 130 | 8x40  | W011.080.090.130R | W011.080.090.130L |  |
| 9  | 90             | 130 | 10x40 | W011.090.090.130R | W011.090.090.130L |  |
| 10 | 90             | 130 | 10x40 | W011.100.090.130R | W011.100.090.130L |  |
| 11 | 90             | 130 | 12x40 | W011.110.090.130R | W011.110.090.130L |  |
| 12 | 90             | 130 | 12x40 | W011.120.090.130R | W011.120.090.130L |  |
| 13 | 90             | 130 | 14x40 | W011.130.090.130R | W011.130.090.130L |  |
| 14 | 90             | 130 | 14x40 | W011.140.090.130R | W011.140.090.130L |  |
| 15 | 90             | 130 | 16x40 | W011.150.090.130R | W011.150.090.130L |  |
| 16 | 90             | 130 | 16x40 | W011.160.090.130R | W011.160.090.130L |  |
| 17 | 90             | 130 | 18x40 | W011.170.090.130R | W011.170.090.130L |  |
| 18 | 90             | 130 | 18x40 | W011.180.090.130R | W011.180.090.130L |  |
| 20 | 100            | 140 | 20x40 | W011.200.100.140R | W011.200.100.140L |  |



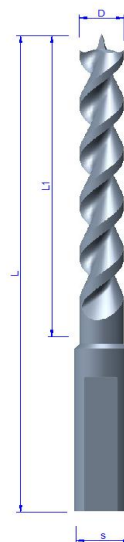
SW

PY

Wiertła VHM do głębokiego wiercenia. Do obróbki drewna. Wysoka sztywność, wykonanie z pełnego węglika, szybkie i czyste odprowadzenie wióra dzięki głębokiej spirali.

Solid carbide drill for deep drilling. For solid wood. High stiffness, fast and clean chip ejection so deep spiral.

| D    | L <sub>1</sub> | L   | s     | Art.. Nr P       | Art.. Nr L       |  |
|------|----------------|-----|-------|------------------|------------------|--|
| 4    | 65             | 100 | 10x35 | W012.040.060.100 | W012.040.060.100 |  |
| 5    | 65             | 100 | 10x35 | W012.050.060.100 | W012.050.060.100 |  |
| 6    | 65             | 100 | 10x35 | W012.060.060.100 | W012.060.060.100 |  |
| 7    | 65             | 100 | 10x35 | W012.070.060.100 | W012.070.060.100 |  |
| 8    | 65             | 100 | 10x35 | W012.080.060.100 | W012.080.060.100 |  |
| 8,2  | 65             | 100 | 10x35 | W012.082.060.100 | W012.082.060.100 |  |
| 10   | 65             | 100 | 10x35 | W012.100.060.100 | W012.100.060.100 |  |
| 10,2 | 65             | 100 | 10x35 | W012.102.060.100 | W012.102.060.100 |  |
| 12   | 65             | 100 | 10x35 | W012.120.060.100 | W012.120.060.100 |  |



SW

PY

# W030

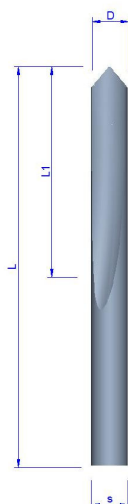
## Wiertła pełno węglkowe do szczotek / Solid carbide drills for Bush

MDF

PW

PY

SW



Pełno węglkowe wiertła do drewna z prostym rowkiem . Do maszyn automatycznych do produkcji szczotek.

Solid carbide drills straight cutting edges. For **Brush Manufacturers** industry.

| D    | L1 | L  | s    | Z | Art. nr      |  |
|------|----|----|------|---|--------------|--|
| 2,0  | 10 | 45 | 2,0  | 1 | W030.020.045 |  |
| 2,5  | 10 | 45 | 2,5  | 1 | W030.025.045 |  |
| 3,0  | 10 | 45 | 3,0  | 1 | W030.030.045 |  |
| 3,5  | 13 | 45 | 3,5  | 1 | W030.035.045 |  |
| 4,0  | 13 | 45 | 4,0  | 1 | W030.040.045 |  |
| 4,5  | 13 | 45 | 5,0  | 1 | W030.045.045 |  |
| 5,0  | 20 | 50 | 5,0  | 1 | W030.050.050 |  |
| 5,5  | 20 | 50 | 6,0  | 1 | W030.055.050 |  |
| 6,0  | 20 | 50 | 6,0  | 1 | W030.060.050 |  |
| 6,5  | 20 | 50 | 7,0  | 1 | W030.065.050 |  |
| 7,0  | 28 | 60 | 7,0  | 1 | W030.070.060 |  |
| 7,5  | 28 | 60 | 8,0  | 1 | W030.075.060 |  |
| 8,0  | 28 | 60 | 8,0  | 1 | W030.080.060 |  |
| 8,5  | 28 | 60 | 9,0  | 1 | W030.085.060 |  |
| 9,0  | 28 | 60 | 9,0  | 1 | W030.090.060 |  |
| 9,5  | 28 | 60 | 10,0 | 1 | W030.095.060 |  |
| 10,0 | 28 | 60 | 10,0 | 1 | W030.100.060 |  |

# W031

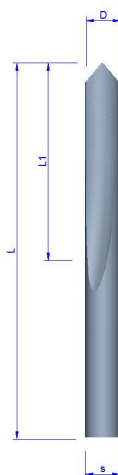
## Wiertła pełno węglkowe do szczotek / Solid carbide drills for Bush

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Pełno węglkowe wiertła do drewna z prostym rowkiem . Do maszyn automatycznych do produkcji szczotek.

Solid carbide drills with double straight cutting edges. For **Brush Manufacturers** industry.

| D    | L1 | L  | s    | Z | Art. nr      |  |
|------|----|----|------|---|--------------|--|
| 2,0  | 10 | 45 | 2,0  | 2 | W031.020.045 |  |
| 2,5  | 10 | 45 | 2,5  | 2 | W031.025.045 |  |
| 3,0  | 10 | 45 | 3,0  | 2 | W031.030.045 |  |
| 3,5  | 13 | 45 | 3,5  | 2 | W031.035.045 |  |
| 4,0  | 13 | 45 | 4,0  | 2 | W031.040.045 |  |
| 4,5  | 13 | 45 | 5,0  | 2 | W031.045.045 |  |
| 5,0  | 20 | 50 | 5,0  | 2 | W031.050.050 |  |
| 5,5  | 20 | 50 | 6,0  | 2 | W031.055.050 |  |
| 6,0  | 20 | 50 | 6,0  | 2 | W031.060.050 |  |
| 6,5  | 20 | 50 | 7,0  | 2 | W031.065.050 |  |
| 7,0  | 28 | 60 | 7,0  | 2 | W031.070.060 |  |
| 7,5  | 28 | 60 | 8,0  | 2 | W031.075.060 |  |
| 8,0  | 28 | 60 | 8,0  | 2 | W031.080.060 |  |
| 8,5  | 28 | 60 | 9,0  | 2 | W031.085.060 |  |
| 9,0  | 28 | 60 | 9,0  | 2 | W031.090.060 |  |
| 9,5  | 28 | 60 | 10,0 | 2 | W031.095.060 |  |
| 10,0 | 28 | 60 | 10,0 | 2 | W031.100.060 |  |



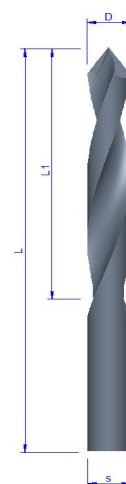
## Wiertła pełno węglkowe do szczotek / Solid carbide drills for Bush

# W032

Pełno węglkowe wiertła do drewna z spiralnym rowkiem . Do maszyn automatycznych do produkcji szczotek.

Solid carbide drills spiral cutting edges. For **Brush Manufacturers** industry.

| D    | L1 | L  | s    | Art. nr      |  |
|------|----|----|------|--------------|--|
| 2,0  | 10 | 45 | 2,0  | W032.020.045 |  |
| 2,5  | 10 | 45 | 2,5  | W032.025.045 |  |
| 3,0  | 10 | 45 | 3,0  | W032.030.045 |  |
| 3,5  | 13 | 45 | 3,5  | W032.035.045 |  |
| 4,0  | 13 | 45 | 4,0  | W032.040.045 |  |
| 4,5  | 13 | 45 | 5,0  | W032.045.045 |  |
| 5,0  | 20 | 50 | 5,0  | W032.050.050 |  |
| 5,5  | 20 | 50 | 6,0  | W032.055.050 |  |
| 6,0  | 20 | 50 | 6,0  | W032.060.050 |  |
| 6,5  | 20 | 50 | 7,0  | W032.065.050 |  |
| 7,0  | 28 | 60 | 7,0  | W032.070.050 |  |
| 7,5  | 28 | 60 | 8,0  | W032.075.050 |  |
| 8,0  | 28 | 60 | 8,0  | W032.080.050 |  |
| 8,5  | 28 | 60 | 9,0  | W032.085.050 |  |
| 9,0  | 28 | 60 | 9,0  | W032.090.050 |  |
| 9,5  | 28 | 60 | 10,0 | W032.095.050 |  |
| 10,0 | 28 | 60 | 10,0 | W032.100.050 |  |



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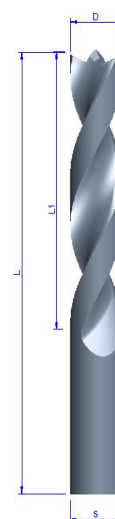
## Wiertła pełno węglkowe do szczotek / Solid carbide drills for Bush

# W033

Pełno węglkowe wiertła do drewna z prostym rowkiem . Do maszyn automatycznych do produkcji szczotek.

Solid carbide drills with double straight cutting edges. For **Brush Manufacturers** industry.

| D    | L1 | L  | s    | Art. nr      |  |
|------|----|----|------|--------------|--|
| 2,0  | 10 | 45 | 2,0  | W033.020.045 |  |
| 2,5  | 10 | 45 | 2,5  | W033.025.045 |  |
| 3,0  | 10 | 45 | 3,0  | W033.030.045 |  |
| 3,5  | 13 | 45 | 3,5  | W033.035.045 |  |
| 4,0  | 13 | 45 | 4,0  | W033.040.045 |  |
| 4,5  | 13 | 45 | 5,0  | W033.045.045 |  |
| 5,0  | 20 | 50 | 5,0  | W033.050.050 |  |
| 5,5  | 20 | 50 | 6,0  | W033.055.050 |  |
| 6,0  | 20 | 50 | 6,0  | W033.060.050 |  |
| 6,5  | 20 | 50 | 7,0  | W033.065.050 |  |
| 7,0  | 28 | 60 | 7,0  | W033.070.060 |  |
| 7,5  | 28 | 60 | 8,0  | W033.075.060 |  |
| 8,0  | 28 | 60 | 8,0  | W033.080.060 |  |
| 8,5  | 28 | 60 | 9,0  | W033.085.060 |  |
| 9,0  | 28 | 60 | 9,0  | W033.090.060 |  |
| 9,5  | 28 | 60 | 10,0 | W033.095.060 |  |
| 10,0 | 28 | 60 | 10,0 | W033.100.060 |  |



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