



Suitable for material groups
P, M, K, N (Endmill) / P, K, N, O (Drill)



SQUARE ENDMILLS

|  | EDP No. | Design | Z | Diameter Range | Page | Stock |
|---|---------|--------|---|----------------|------|-------|
| | C76 | DP/DH | 4 | 1.0 - 25.0 | 7 | • / ◊ |

DRILLS

|  | EDP No. | Design | Z | Diameter Range | Page | Stock |
|---|---------|-------------------|---|----------------|------|-------|
| | W16 | DIN 6537K - 3 x Ø | 2 | 1.0 - 16.0 | 10 | • / ◊ |
| | W17 | DIN 6537L - 5 x Ø | 2 | 1.0 - 16.0 | 12 | • / ◊ |

Legend : • Ex stock ◊ Upon Request

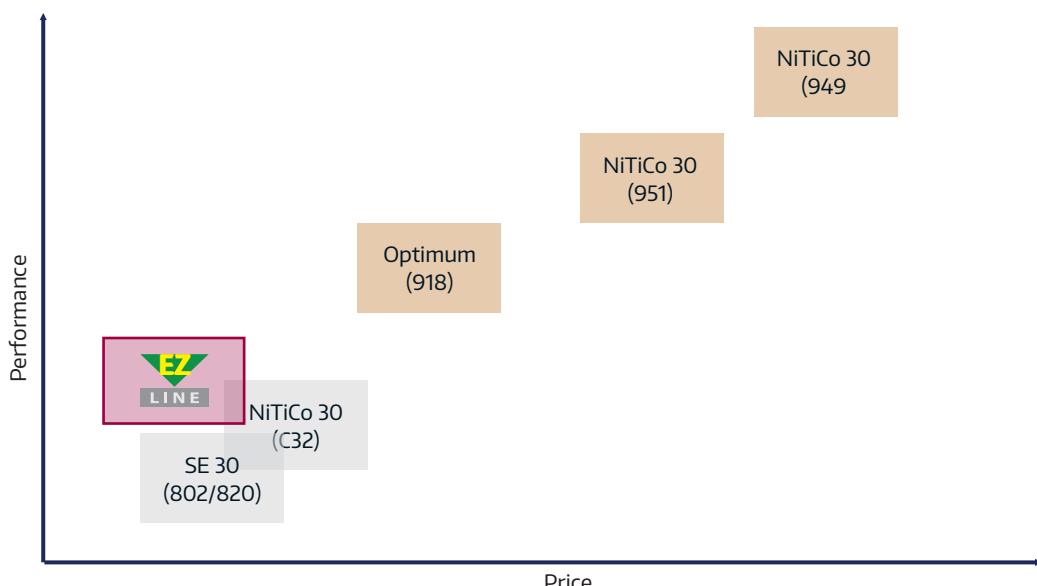
INTRODUCTION

HPMT

The EZ Line Endmill is the latest in HPMT's all-new economy series, designed for general machining. With a core focus on aggressive value for money proposition, our R&D team has equipped the EZ Line with tried-and-tested features like our Differential Pitch (DP) and Differential Helix (DH) for anti-vibration and our improved coating formula, for soft to medium hardened materials in both wet and dry machining conditions.

We hope for end-users to find the EZ Line experience to be accessible and cost-effective; quick and easy.

Positioning of key products for soft to medium hardened materials up to HRC 35.



Obsoleted Listing

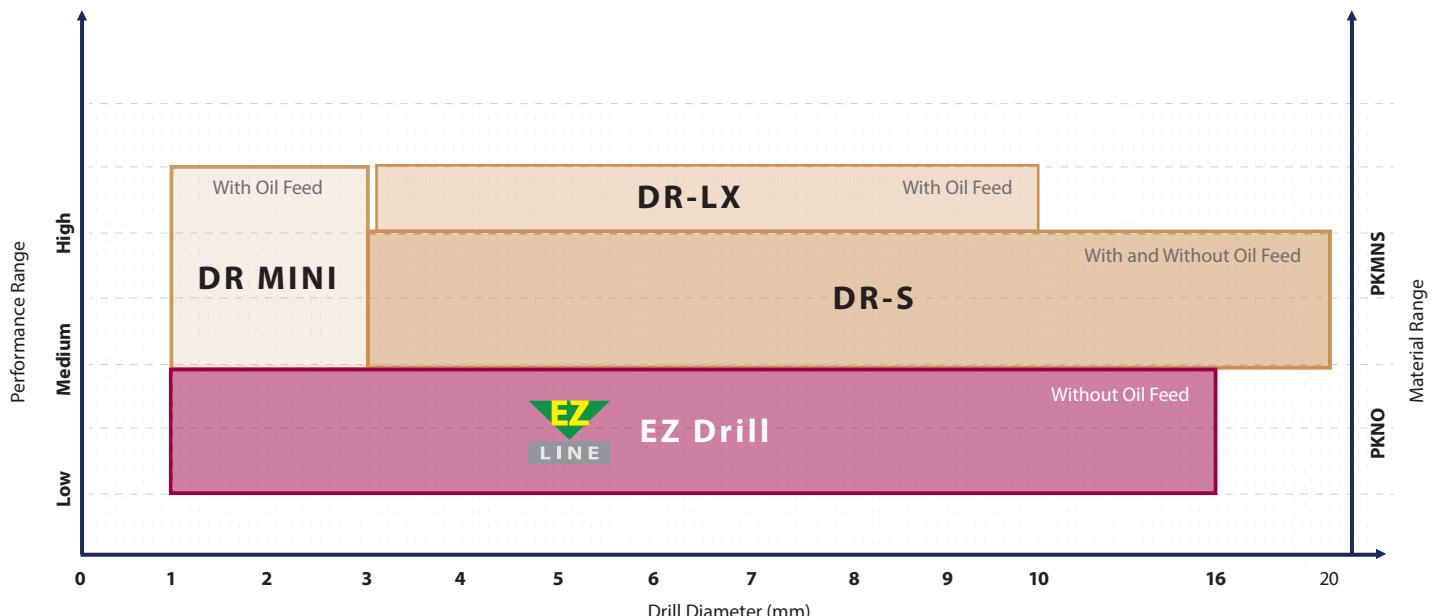
| Type | EZ Endmills | Type | SE 30 / NiTico 30 |
|-------|-------------|------|-------------------|
| DP/DH | C76 | HA | 802 |
| | | HA | 820 |
| | | HA | C32 |

INTRODUCTION

HPMT

The EZ Line Drill is the latest in HPMT's all-new economy series, designed for general machining. With a core focus on aggressive value for money proposition, our R&D team has equipped the EZ Line with tried-and-tested features like our edge protection technology for reduced chipping and our special edge treatment for increased tool life.

We hope for end-users to find the EZ Line experience to be accessible and cost-effective; quick and easy.



Obsoleted Listing

| Type | EZ Drills | Type | DR 30 / DR 45 |
|----------|-----------|----------|---------------|
| 3 X D | W16 | 3 X D | 644 |
| | | 3 X D | 958 |
| | | 3 X D | 965 |
| OF 3 X D | - | OF 3 X D | B48 |
| 5 X D | W17 | 5 X D | 729 |
| | | 5 X D | 960 |
| | | 5 X D | B47 |
| OF 5 X D | - | OF 5 X D | 967 |

SQUARE ENDMILLS



01

Gash Land Design

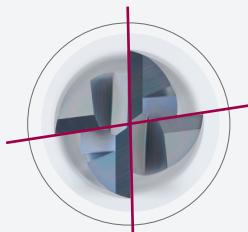
- Reinforce edge protection of the cutting tool corner
- Higher mechanical strength to withstand higher cutting force
- Greater process reliability and longer tool life



02

Differential Pitch (DP) Design

- Provides excellent surface finishing while eliminating chatter
- For chatter free machining and excellent surface finish



03

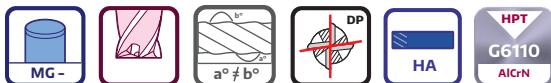
Differential Helix (DH) Design

- Minimized vibrations and harmonics oscillations during machining
- Excellent in surface finish, chatter free and wall straightness
- Increases tool life and productivity performance

04

Suitable for material groups :

P M K N



| Order Number | Dimension (mm) | | | | | C76 |
|-----------------|----------------|-----|----|-----|--------|-------|
| | D | l1 | l2 | L | d2(h6) | G6110 |
| C76 0100 040 03 | 1 | 3 | | 40 | 3 | • |
| C76 0150 040 03 | 1.5 | 4.5 | | 40 | 3 | • |
| C76 0200 040 03 | 2 | 6.5 | | 40 | 3 | • |
| C76 0250 040 03 | 2.5 | 6.5 | | 40 | 3 | • |
| C76 0300 | 3 | 9 | | 40 | 3 | • |
| C76 0400 | 4 | 12 | | 50 | 4 | • |
| C76 0500 | 5 | 15 | | 50 | 5 | • |
| C76 0600 060 | 6 | 16 | | 60 | 6 | • |
| C76 0800 | 8 | 20 | | 64 | 8 | • |
| C76 1000 | 10 | 22 | | 75 | 10 | • |
| C76 1200 | 12 | 25 | | 75 | 12 | • |
| C76 1400 | 14 | 32 | | 90 | 14 | • |
| C76 1600 | 16 | 32 | | 90 | 16 | • |
| C76 1800 | 18 | 38 | | 100 | 18 | • |
| C76 2000 | 20 | 38 | | 100 | 20 | • |
| C76 2500 | 25 | 40 | | 100 | 25 | ○ |

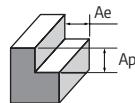
| | | | |
|----------------|-------------|--------------|----------------|
| | | | |
| ● Ex Stock | ab Lager | De Stock | Da Magazzino |
| ○ Upon Request | auf Anfrage | à la demande | Su ordinazione |

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

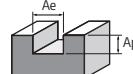
Cutting Parameter

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| N01 | N02 | N03 | K01 | K02 | P01 | P02 | P03 | M01 | M02 | S01 | S02 | S03 | H01 | H02 | 001 | 002 |
| ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | |

38

DP/DH Endmills, 4 Flutes - C76


| Side Milling | P01 | | P02 | | M01 | | K01 | | N01 | | N02 | | N03 | |
|------------------------|--------------|---------|-----------------|---------|--------------------|---------|----------------|---------|-------------------|---------|----------------|---------|--------------|---------|
| Working Material | Carbon Steel | | Alloy steel | | Stainless Steel | | Grey Cast Iron | | Wrought Aluminium | | Cast Aluminium | | Copper Alloy | |
| Properties | - | | 520 < Rm < 1200 | | High Machinability | | - | | Si < 9% | | Si ≥ 9% | | - | |
| Cutting Depth, Ap (mm) | 1.00 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | |
| Cutting Width, Ae (mm) | 0.25 × D | | 0.20 × D | | 0.18 × D | | 0.25 × D | | 0.30 × D | | 0.30 × D | | 0.30 × D | |
| D (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) |
| 1 | 165 | 0.003 | 130 | 0.003 | 110 | 0.003 | 140 | 0.004 | 275 | 0.005 | 240 | 0.004 | 200 | 0.003 |
| 2 | | 0.007 | | 0.007 | | 0.007 | | 0.008 | | 0.010 | | 0.009 | | 0.007 |
| 3 | | 0.012 | | 0.011 | | 0.012 | | 0.013 | | 0.016 | | 0.014 | | 0.012 |
| 4 | | 0.016 | | 0.015 | | 0.016 | | 0.017 | | 0.021 | | 0.019 | | 0.017 |
| 5 | | 0.021 | | 0.020 | | 0.021 | | 0.023 | | 0.027 | | 0.025 | | 0.022 |
| 6 | | 0.027 | | 0.025 | | 0.026 | | 0.028 | | 0.033 | | 0.031 | | 0.028 |
| 8 | | 0.039 | | 0.036 | | 0.038 | | 0.040 | | 0.046 | | 0.044 | | 0.042 |
| 10 | | 0.053 | | 0.047 | | 0.051 | | 0.053 | | 0.060 | | 0.058 | | 0.057 |
| 12 | | 0.069 | | 0.060 | | 0.065 | | 0.066 | | 0.075 | | 0.074 | | 0.074 |
| 14 | | 0.078 | | 0.068 | | 0.073 | | 0.076 | | 0.086 | | 0.084 | | 0.083 |
| 16 | | 0.085 | | 0.076 | | 0.080 | | 0.085 | | 0.096 | | 0.093 | | 0.091 |
| 18 | | 0.090 | | 0.083 | | 0.086 | | 0.092 | | 0.106 | | 0.101 | | 0.097 |
| 20 | | 0.095 | | 0.088 | | 0.093 | | 0.099 | | 0.115 | | 0.108 | | 0.103 |
| 22 | | 0.099 | | 0.093 | | 0.097 | | 0.105 | | 0.123 | | 0.114 | | 0.108 |
| 25 | | 0.103 | | 0.099 | | 0.104 | | 0.113 | | 0.134 | | 0.122 | | 0.110 |

DP/DH Endmills, 4 Flutes - C76


| Slotting | P01 | | P02 | | M01 | | K01 | | N01 | | N02 | | N03 | |
|------------------------|--------------|---------|-----------------|---------|--------------------|---------|----------------|---------|-------------------|---------|----------------|---------|--------------|---------|
| Working Material | Carbon Steel | | Alloy steel | | Stainless Steel | | Grey Cast Iron | | Wrought Aluminium | | Cast Aluminium | | Copper Alloy | |
| Properties | - | | 520 < Rm < 1200 | | High Machinability | | - | | Si < 9% | | Si ≥ 9% | | - | |
| Cutting Depth, Ap (mm) | 1.00 × D | | 1.00 × D | | 0.80 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | |
| Cutting Width, Ae (mm) | 1.00 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | | 1.00 × D | |
| D (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) | Vc (m/min) | Fz (mm) |
| 1 | 135 | 0.002 | 120 | 0.002 | 100 | 0.001 | 110 | 0.002 | 220 | 0.005 | 200 | 0.004 | 165 | 0.003 |
| 2 | | 0.006 | | 0.004 | | 0.003 | | 0.006 | | 0.008 | | 0.008 | | 0.008 |
| 3 | | 0.011 | | 0.006 | | 0.006 | | 0.011 | | 0.013 | | 0.013 | | 0.013 |
| 4 | | 0.015 | | 0.009 | | 0.009 | | 0.015 | | 0.018 | | 0.018 | | 0.017 |
| 5 | | 0.020 | | 0.013 | | 0.012 | | 0.021 | | 0.023 | | 0.023 | | 0.023 |
| 6 | | 0.026 | | 0.017 | | 0.016 | | 0.027 | | 0.029 | | 0.028 | | 0.028 |
| 8 | | 0.038 | | 0.027 | | 0.026 | | 0.041 | | 0.042 | | 0.040 | | 0.041 |
| 10 | | 0.053 | | 0.038 | | 0.037 | | 0.056 | | 0.056 | | 0.053 | | 0.055 |
| 12 | | 0.069 | | 0.051 | | 0.048 | | 0.075 | | 0.072 | | 0.066 | | 0.070 |
| 14 | | 0.077 | | 0.055 | | 0.053 | | 0.084 | | 0.081 | | 0.076 | | 0.079 |
| 16 | | 0.084 | | 0.059 | | 0.057 | | 0.091 | | 0.090 | | 0.084 | | 0.087 |
| 18 | | 0.090 | | 0.061 | | 0.060 | | 0.095 | | 0.097 | | 0.092 | | 0.093 |
| 20 | | 0.093 | | 0.063 | | 0.062 | | 0.099 | | 0.104 | | 0.099 | | 0.098 |
| 22 | | 0.096 | | 0.064 | | 0.062 | | 0.101 | | 0.109 | | 0.106 | | 0.103 |
| 25 | | 0.097 | | 0.063 | | 0.062 | | 0.102 | | 0.116 | | 0.113 | | 0.108 |



DRILLS



01

Chisel design

- Firmly engage the surface for self centering capability
- Reduces thrust load improving bite performance especially for thick K-value



02

C flute shape

- Improved chip evacuation rate to avoid chip jamming
- Chip ejection is improved during machining by chip pocket design
- Prevent breakage with high stiff-ness design
- Improved cooling and increases flow rate and flow velocity of corners and thinning

03

Effective clearance and gashing

- Lower cutting forces
- Improve chip formation and control

04

Corner Edge Chamfer

- Reduce burr formation during through hole machining
- Adds protection during the drilling process



05

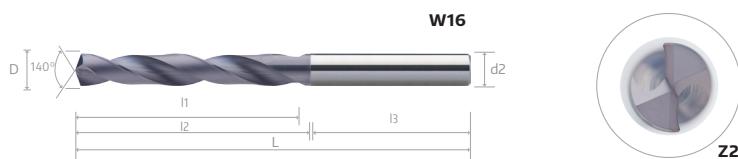
Corner chamfer on point design

- Reduce burr formation during through hole machining

06

Suitable for material groups :





| Order Number | Dimension (mm) | | | | | | W16 T8090 | Order Number | Dimension (mm) | | | | | | W16 T8090 |
|--------------|------------------|----|----|----|----|--------|--------------|--------------|------------------|----|----|----|-----|--------|--------------|
| | D | l1 | l2 | l3 | L | d2(h6) | | | D | l1 | l2 | l3 | L | d2(h6) | |
| W16 0100 | 1 | | | 33 | 45 | 3 | • | W16 0620 | 6.2 | | | 36 | 79 | 8 | • |
| W16 0110 | 1.1 | | | 33 | 45 | 3 | • | W16 0630 | 6.3 | | | 36 | 79 | 8 | • |
| W16 0120 | 1.2 | | | 33 | 45 | 3 | • | W16 0640 | 6.4 | | | 36 | 79 | 8 | ○ |
| W16 0130 | 1.3 | | | 33 | 45 | 3 | • | W16 0650 | 6.5 | | | 36 | 79 | 8 | • |
| W16 0140 | 1.4 | | | 33 | 45 | 3 | • | W16 0660 | 6.6 | | | 36 | 79 | 8 | • |
| W16 0150 | 1.5 | | | 35 | 50 | 3 | • | W16 0670 | 6.7 | | | 36 | 79 | 8 | • |
| W16 0160 | 1.6 | | | 35 | 50 | 3 | • | W16 0680 | 6.8 | | | 36 | 79 | 8 | • |
| W16 0170 | 1.7 | | | 35 | 50 | 3 | • | W16 0690 | 6.9 | | | 36 | 79 | 8 | • |
| W16 0180 | 1.8 | | | 35 | 50 | 3 | • | W16 0700 | 7 | | | 36 | 79 | 8 | • |
| W16 0190 | 1.9 | | | 35 | 50 | 3 | • | W16 0710 | 7.1 | | | 36 | 79 | 8 | ○ |
| W16 0200 | 2 | | | 36 | 55 | 4 | • | W16 0720 | 7.2 | | | 36 | 79 | 8 | ○ |
| W16 0210 | 2.1 | | | 36 | 55 | 4 | • | W16 0730 | 7.3 | | | 36 | 79 | 8 | ○ |
| W16 0220 | 2.2 | | | 36 | 55 | 4 | • | W16 0740 | 7.4 | | | 36 | 79 | 8 | ○ |
| W16 0230 | 2.3 | | | 36 | 55 | 4 | • | W16 0750 | 7.5 | | | 36 | 79 | 8 | • |
| W16 0240 | 2.4 | | | 36 | 55 | 4 | • | W16 0760 | 7.6 | | | 36 | 79 | 8 | • |
| W16 0250 | 2.5 | | | 36 | 55 | 4 | • | W16 0770 | 7.7 | | | 36 | 79 | 8 | ○ |
| W16 0260 | 2.6 | | | 36 | 55 | 4 | • | W16 0780 | 7.8 | | | 36 | 79 | 8 | • |
| W16 0270 | 2.7 | | | 36 | 55 | 4 | • | W16 0790 | 7.9 | | | 36 | 79 | 8 | • |
| W16 0280 | 2.8 | | | 36 | 55 | 4 | • | W16 0800 | 8 | | | 36 | 79 | 8 | • |
| W16 0290 | 2.9 | | | 36 | 55 | 4 | • | W16 0810 | 8.1 | | | 40 | 89 | 10 | • |
| W16 0300 | 3 | | | 36 | 62 | 6 | • | W16 0820 | 8.2 | | | 40 | 89 | 10 | • |
| W16 0310 | 3.1 | | | 36 | 62 | 6 | • | W16 0830 | 8.3 | | | 40 | 89 | 10 | • |
| W16 0320 | 3.2 | | | 36 | 62 | 6 | • | W16 0840 | 8.4 | | | 40 | 89 | 10 | ○ |
| W16 0330 | 3.3 | | | 36 | 62 | 6 | • | W16 0850 | 8.5 | | | 40 | 89 | 10 | • |
| W16 0340 | 3.4 | | | 36 | 62 | 6 | • | W16 0860 | 8.6 | | | 40 | 89 | 10 | ○ |
| W16 0350 | 3.5 | | | 36 | 62 | 6 | • | W16 0870 | 8.7 | | | 40 | 89 | 10 | ○ |
| W16 0360 | 3.6 | | | 36 | 62 | 6 | • | W16 0880 | 8.8 | | | 40 | 89 | 10 | ○ |
| W16 0370 | 3.7 | | | 36 | 62 | 6 | • | W16 0890 | 8.9 | | | 40 | 89 | 10 | ○ |
| W16 0380 | 3.8 | | | 36 | 66 | 6 | • | W16 0900 | 9 | | | 40 | 89 | 10 | • |
| W16 0390 | 3.9 | | | 36 | 66 | 6 | • | W16 0910 | 9.1 | | | 40 | 89 | 10 | ○ |
| W16 0400 | 4 | | | 36 | 66 | 6 | • | W16 0920 | 9.2 | | | 40 | 89 | 10 | ○ |
| W16 0410 | 4.1 | | | 36 | 66 | 6 | • | W16 0930 | 9.3 | | | 40 | 89 | 10 | ○ |
| W16 0420 | 4.2 | | | 36 | 66 | 6 | • | W16 0940 | 9.4 | | | 40 | 89 | 10 | ○ |
| W16 0430 | 4.3 | | | 36 | 66 | 6 | • | W16 0950 | 9.5 | | | 40 | 89 | 10 | ○ |
| W16 0440 | 4.4 | | | 36 | 66 | 6 | • | W16 0960 | 9.6 | | | 40 | 89 | 10 | ○ |
| W16 0450 | 4.5 | | | 36 | 66 | 6 | • | W16 0970 | 9.7 | | | 40 | 89 | 10 | ○ |
| W16 0460 | 4.6 | | | 36 | 66 | 6 | • | W16 0980 | 9.8 | | | 40 | 89 | 10 | • |
| W16 0470 | 4.7 | | | 36 | 66 | 6 | • | W16 0990 | 9.9 | | | 40 | 89 | 10 | ○ |
| W16 0480 | 4.8 | | | 36 | 66 | 6 | • | W16 1000 | 10 | | | 40 | 89 | 10 | • |
| W16 0490 | 4.9 | | | 36 | 66 | 6 | • | W16 1010 | 10.1 | | | 45 | 102 | 12 | ○ |
| W16 0500 | 5 | | | 36 | 66 | 6 | • | W16 1020 | 10.2 | | | 45 | 102 | 12 | • |
| W16 0510 | 5.1 | | | 36 | 66 | 6 | • | W16 1030 | 10.3 | | | 45 | 102 | 12 | ○ |
| W16 0520 | 5.2 | | | 36 | 66 | 6 | • | W16 1040 | 10.4 | | | 45 | 102 | 12 | ○ |
| W16 0530 | 5.3 | | | 36 | 66 | 6 | • | W16 1050 | 10.5 | | | 45 | 102 | 12 | • |
| W16 0540 | 5.4 | | | 36 | 66 | 6 | • | W16 1060 | 10.6 | | | 45 | 102 | 12 | ○ |
| W16 0550 | 5.5 | | | 36 | 66 | 6 | • | W16 1070 | 10.7 | | | 45 | 102 | 12 | ○ |
| W16 0560 | 5.6 | | | 36 | 66 | 6 | • | W16 1080 | 10.8 | | | 45 | 102 | 12 | ○ |
| W16 0570 | 5.7 | | | 36 | 66 | 6 | • | W16 1090 | 10.9 | | | 45 | 102 | 12 | ○ |
| W16 0580 | 5.8 | | | 36 | 66 | 6 | • | W16 1100 | 11 | | | 45 | 102 | 12 | • |
| W16 0590 | 5.9 | | | 36 | 66 | 6 | • | W16 1110 | 11.1 | | | 45 | 102 | 12 | ○ |
| W16 0600 | 6 | | | 36 | 66 | 6 | • | W16 1120 | 11.2 | | | 45 | 102 | 12 | ○ |
| W16 0610 | 6.1 | | | 36 | 79 | 8 | • | W16 1130 | 11.3 | | | 45 | 102 | 12 | ○ |

cont'd ►

| | | | | |
|--------------|-------------|--------------|----------------|-----|
| Ex Stock | ab Lager | De Stock | Da Magazzino | 有存库 |
| Upon Request | auf Anfrage | à la demande | Su ordinazione | 无存库 |

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

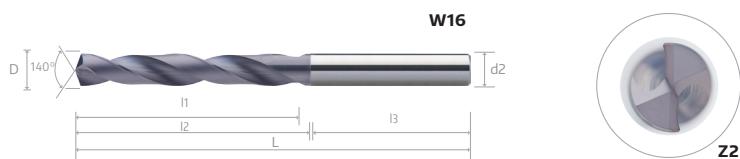
Cutting Parameter

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| N01 | N02 | N03 | K01 | K02 | P01 | P02 | P03 | M01 | M02 | S01 | S02 | S03 | H01 | H02 | 001 | 002 |
| ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ● | ● | ● | ● | ● | ● | ● | ● | ● |

14

W16 EZ TWIST DRILLS - DIN 6537K - 3 x Ø, 2 FLUTES

HPMT



| Order Number | Dimension (mm) | | | | | | W16 | Order Number | Dimension (mm) | | | | | | W16 |
|--------------|------------------|----|----|----|-----|--------|-------|--------------|------------------|----|----|----|---|--------|-------|
| | D | l1 | l2 | l3 | L | d2(h6) | T8090 | | D | l1 | l2 | l3 | L | d2(h6) | T8090 |
| W16 1140 | 11.4 | | | 45 | 102 | 12 | ○ | | | | | | | | |
| W16 1150 | 11.5 | | | 45 | 102 | 12 | ○ | | | | | | | | |
| W16 1160 | 11.6 | | | 45 | 102 | 12 | ○ | | | | | | | | |
| W16 1170 | 11.7 | | | 45 | 102 | 12 | ○ | | | | | | | | |
| W16 1180 | 11.8 | | | 45 | 102 | 12 | ○ | | | | | | | | |
| W16 1190 | 11.9 | | | 45 | 102 | 12 | ○ | | | | | | | | |
| W16 1200 | 12 | | | 45 | 102 | 12 | ● | | | | | | | | |
| W16 1220 | 12.2 | | | 45 | 107 | 14 | ○ | | | | | | | | |
| W16 1250 | 12.5 | | | 45 | 107 | 14 | ● | | | | | | | | |
| W16 1270 | 12.7 | | | 45 | 107 | 14 | ○ | | | | | | | | |
| W16 1280 | 12.8 | | | 45 | 107 | 14 | ○ | | | | | | | | |
| W16 1300 | 13 | | | 45 | 107 | 14 | ○ | | | | | | | | |
| W16 1350 | 13.5 | | | 45 | 107 | 14 | ○ | | | | | | | | |
| W16 1370 | 13.7 | | | 45 | 107 | 14 | ○ | | | | | | | | |
| W16 1380 | 13.8 | | | 45 | 107 | 14 | ○ | | | | | | | | |
| W16 1400 | 14 | | | 45 | 107 | 14 | ○ | | | | | | | | |
| W16 1420 | 14.2 | | | 48 | 115 | 16 | ○ | | | | | | | | |
| W16 1450 | 14.5 | | | 48 | 115 | 16 | ○ | | | | | | | | |
| W16 1480 | 14.8 | | | 48 | 115 | 16 | ○ | | | | | | | | |
| W16 1500 | 15 | | | 48 | 115 | 16 | ○ | | | | | | | | |
| W16 1550 | 15.5 | | | 48 | 115 | 16 | ○ | | | | | | | | |
| W16 1580 | 15.8 | | | 48 | 115 | 16 | ○ | | | | | | | | |
| W16 1600 | 16 | | | 48 | 115 | 16 | ○ | | | | | | | | |

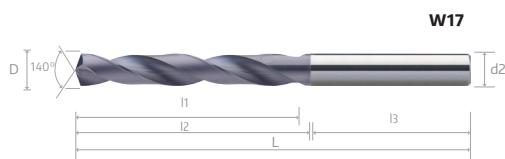
| | | | | |
|----------------|-------------|--------------|----------------|-----|
| ● Ex Stock | ab Lager | De Stock | Da Magazzino | 有存库 |
| ○ Upon Request | auf Anfrage | à la demande | Su ordinazione | 无存库 |

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

Cutting Parameter

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| N01 | N02 | N03 | K01 | K02 | P01 | P02 | P03 | M01 | M02 | S01 | S02 | S03 | H01 | H02 | 001 | 002 |
| ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

14



| Order Number | Dimension (mm) | | | | | | W17 | Order Number | Dimension (mm) | | | | | | W17 |
|--------------|------------------|----|----|----|----|--------|-------|--------------|------------------|----|----|----|-----|--------|-------|
| | D | l1 | l2 | l3 | L | d2(h6) | T8090 | | D | l1 | l2 | l3 | L | d2(h6) | T8090 |
| W17 0100 | 1 | 8 | | 33 | 55 | 3 | ● | W17 0620 | 6.2 | | | 36 | 91 | 8 | ○ |
| W17 0110 | 1.1 | | | 33 | 55 | 3 | ○ | W17 0630 | 6.3 | | | 36 | 91 | 8 | ○ |
| W17 0120 | 1.2 | | | 33 | 55 | 3 | ● | W17 0640 | 6.4 | | | 36 | 91 | 8 | ○ |
| W17 0130 | 1.3 | | | 33 | 55 | 3 | ○ | W17 0650 | 6.5 | | | 36 | 91 | 8 | ○ |
| W17 0140 | 1.4 | | | 33 | 55 | 3 | ○ | W17 0660 | 6.6 | | | 36 | 91 | 8 | ○ |
| W17 0150 | 1.5 | | | 35 | 55 | 3 | ● | W17 0670 | 6.7 | | | 36 | 91 | 8 | ○ |
| W17 0160 | 1.6 | | | 35 | 55 | 3 | ○ | W17 0680 | 6.8 | | | 36 | 91 | 8 | ● |
| W17 0170 | 1.7 | | | 35 | 55 | 3 | ● | W17 0690 | 6.9 | | | 36 | 91 | 8 | ○ |
| W17 0180 | 1.8 | | | 35 | 55 | 3 | ● | W17 0700 | 7 | | | 36 | 91 | 8 | ○ |
| W17 0190 | 1.9 | | | 35 | 55 | 3 | ○ | W17 0710 | 7.1 | | | 36 | 91 | 8 | ○ |
| W17 0200 | 2 | | | 36 | 57 | 4 | ● | W17 0720 | 7.2 | | | 36 | 91 | 8 | ○ |
| W17 0210 | 2.1 | | | 36 | 57 | 4 | ● | W17 0730 | 7.3 | | | 36 | 91 | 8 | ○ |
| W17 0220 | 2.2 | | | 36 | 57 | 4 | ○ | W17 0740 | 7.4 | | | 36 | 91 | 8 | ○ |
| W17 0230 | 2.3 | | | 36 | 57 | 4 | ● | W17 0750 | 7.5 | | | 36 | 91 | 8 | ○ |
| W17 0240 | 2.4 | | | 36 | 57 | 4 | ○ | W17 0760 | 7.6 | | | 36 | 91 | 8 | ○ |
| W17 0250 | 2.5 | | | 36 | 57 | 4 | ● | W17 0770 | 7.7 | | | 36 | 91 | 8 | ○ |
| W17 0260 | 2.6 | | | 36 | 57 | 4 | ● | W17 0780 | 7.8 | | | 36 | 91 | 8 | ○ |
| W17 0270 | 2.7 | | | 36 | 57 | 4 | ● | W17 0790 | 7.9 | | | 36 | 91 | 8 | ○ |
| W17 0280 | 2.8 | | | 36 | 57 | 4 | ○ | W17 0800 | 8 | | | 36 | 91 | 8 | ○ |
| W17 0290 | 2.9 | | | 36 | 57 | 4 | ○ | W17 0810 | 8.1 | | | 40 | 103 | 10 | ○ |
| W17 0300 | 3 | | | 36 | 66 | 6 | ● | W17 0820 | 8.2 | | | 40 | 103 | 10 | ○ |
| W17 0310 | 3.1 | | | 36 | 66 | 6 | ● | W17 0830 | 8.3 | | | 40 | 103 | 10 | ○ |
| W17 0320 | 3.2 | | | 36 | 66 | 6 | ● | W17 0840 | 8.4 | | | 40 | 103 | 10 | ○ |
| W17 0330 | 3.3 | | | 36 | 66 | 6 | ● | W17 0850 | 8.5 | | | 40 | 103 | 10 | ● |
| W17 0340 | 3.4 | | | 36 | 66 | 6 | ● | W17 0860 | 8.6 | | | 40 | 103 | 10 | ○ |
| W17 0350 | 3.5 | | | 36 | 66 | 6 | ○ | W17 0870 | 8.7 | | | 40 | 103 | 10 | ○ |
| W17 0360 | 3.6 | | | 36 | 66 | 6 | ○ | W17 0880 | 8.8 | | | 40 | 103 | 10 | ○ |
| W17 0370 | 3.7 | | | 36 | 66 | 6 | ○ | W17 0890 | 8.9 | | | 40 | 103 | 10 | ○ |
| W17 0380 | 3.8 | | | 36 | 74 | 6 | ○ | W17 0900 | 9 | | | 40 | 103 | 10 | ○ |
| W17 0390 | 3.9 | | | 36 | 74 | 6 | ○ | W17 0910 | 9.1 | | | 40 | 103 | 10 | ○ |
| W17 0400 | 4 | | | 36 | 74 | 6 | ● | W17 0920 | 9.2 | | | 40 | 103 | 10 | ○ |
| W17 0410 | 4.1 | | | 36 | 74 | 6 | ○ | W17 0930 | 9.3 | | | 40 | 103 | 10 | ○ |
| W17 0420 | 4.2 | | | 36 | 74 | 6 | ● | W17 0940 | 9.4 | | | 40 | 103 | 10 | ○ |
| W17 0430 | 4.3 | | | 36 | 74 | 6 | ○ | W17 0950 | 9.5 | | | 40 | 103 | 10 | ○ |
| W17 0440 | 4.4 | | | 36 | 74 | 6 | ○ | W17 0960 | 9.6 | | | 40 | 103 | 10 | ○ |
| W17 0450 | 4.5 | | | 36 | 74 | 6 | ● | W17 0970 | 9.7 | | | 40 | 103 | 10 | ○ |
| W17 0460 | 4.6 | | | 36 | 74 | 6 | ○ | W17 0980 | 9.8 | | | 40 | 103 | 10 | ○ |
| W17 0470 | 4.7 | | | 36 | 74 | 6 | ○ | W17 0990 | 9.9 | | | 40 | 103 | 10 | ○ |
| W17 0480 | 4.8 | | | 36 | 82 | 6 | ● | W17 1000 | 10 | | | 40 | 103 | 10 | ○ |
| W17 0490 | 4.9 | | | 36 | 82 | 6 | ○ | W17 1010 | 10.1 | | | 45 | 118 | 12 | ○ |
| W17 0500 | 5 | | | 36 | 82 | 6 | ● | W17 1020 | 10.2 | | | 45 | 118 | 12 | ○ |
| W17 0510 | 5.1 | | | 36 | 82 | 6 | ● | W17 1030 | 10.3 | | | 45 | 118 | 12 | ○ |
| W17 0520 | 5.2 | | | 36 | 82 | 6 | ● | W17 1040 | 10.4 | | | 45 | 118 | 12 | ○ |
| W17 0530 | 5.3 | | | 36 | 82 | 6 | ○ | W17 1050 | 10.5 | | | 45 | 118 | 12 | ○ |
| W17 0540 | 5.4 | | | 36 | 82 | 6 | ○ | W17 1060 | 10.6 | | | 45 | 118 | 12 | ○ |
| W17 0550 | 5.5 | | | 36 | 82 | 6 | ○ | W17 1070 | 10.7 | | | 45 | 118 | 12 | ○ |
| W17 0560 | 5.6 | | | 36 | 82 | 6 | ○ | W17 1080 | 10.8 | | | 45 | 118 | 12 | ○ |
| W17 0570 | 5.7 | | | 36 | 82 | 6 | ○ | W17 1090 | 10.9 | | | 45 | 118 | 12 | ○ |
| W17 0580 | 5.8 | | | 36 | 82 | 6 | ● | W17 1100 | 11 | | | 45 | 118 | 12 | ○ |
| W17 0590 | 5.9 | | | 36 | 82 | 6 | ○ | W17 1110 | 11.1 | | | 45 | 118 | 12 | ○ |
| W17 0600 | 6 | | | 36 | 82 | 6 | ● | W17 1120 | 11.2 | | | 45 | 118 | 12 | ○ |
| W17 0610 | 6.1 | | | 36 | 91 | 8 | ○ | W17 1130 | 11.3 | | | 45 | 118 | 12 | ○ |

cont'd ►

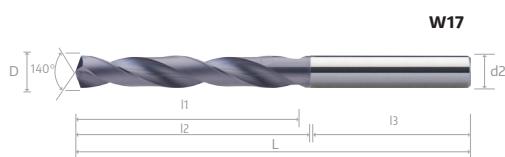
| | | | | |
|----------------|-------------|--------------|----------------|-----|
| ● Ex Stock | ab Lager | De Stock | Da Magazzino | 有存库 |
| ○ Upon Request | auf Anfrage | à la demande | Su ordinazione | 无存库 |

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

Cutting Parameter

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| N01 | N02 | N03 | K01 | K02 | P01 | P02 | P03 | M01 | M02 | S01 | S02 | S03 | H01 | H02 | 001 | 002 |
| ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

14



| Order Number | Dimension (mm) | | | | | | W17 | Order Number | Dimension (mm) | | | | | | W17 |
|--------------|------------------|----|----|----|-----|--------|-------|--------------|------------------|----|----|----|---|--------|-------|
| | D | l1 | l2 | l3 | L | d2(h6) | T8090 | | D | l1 | l2 | l3 | L | d2(h6) | T8090 |
| W17 1140 | 11.4 | | 71 | 45 | 118 | 12 | ○ | | | | | | | | |
| W17 1150 | 11.5 | | 71 | 45 | 118 | 12 | ○ | | | | | | | | |
| W17 1160 | 11.6 | | 71 | 45 | 118 | 12 | ○ | | | | | | | | |
| W17 1170 | 11.7 | | 71 | 45 | 118 | 12 | ○ | | | | | | | | |
| W17 1180 | 11.8 | | 71 | 45 | 118 | 12 | ○ | | | | | | | | |
| W17 1190 | 11.9 | | 71 | 45 | 118 | 12 | ○ | | | | | | | | |
| W17 1200 | 12 | | 71 | 45 | 118 | 12 | ○ | | | | | | | | |
| W17 1220 | 12.2 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1250 | 12.5 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1270 | 12.7 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1280 | 12.8 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1300 | 13 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1330 | 13.3 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1350 | 13.5 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1370 | 13.7 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1380 | 13.8 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1400 | 14 | | 77 | 45 | 124 | 14 | ○ | | | | | | | | |
| W17 1420 | 14.2 | | 83 | 48 | 133 | 16 | ○ | | | | | | | | |
| W17 1450 | 14.5 | | 83 | 48 | 133 | 16 | ○ | | | | | | | | |
| W17 1480 | 14.8 | | 83 | 48 | 133 | 16 | ○ | | | | | | | | |
| W17 1500 | 15 | | 83 | 48 | 133 | 16 | ○ | | | | | | | | |
| W17 1510 | 15.1 | | 83 | 48 | 133 | 16 | ○ | | | | | | | | |
| W17 1530 | 15.3 | | 83 | 48 | 133 | 16 | ○ | | | | | | | | |
| W17 1550 | 15.5 | | 83 | 48 | 133 | 16 | ○ | | | | | | | | |
| W17 1580 | 15.8 | | 83 | 48 | 133 | 16 | ○ | | | | | | | | |
| W17 1600 | 16 | | 83 | 48 | 133 | 16 | ○ | | | | | | | | |

| | | | | |
|----------------|-------------|--------------|----------------|-----|
| ● Ex Stock | ab Lager | De Stock | Da Magazzino | 有存库 |
| ○ Upon Request | auf Anfrage | à la demande | Su ordinazione | 无存库 |

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

Cutting Parameter

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| N01 | N02 | N03 | K01 | K02 | P01 | P02 | P03 | M01 | M02 | S01 | S02 | S03 | H01 | H02 | 001 | 002 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ● | ● | ● | ○ | ○ | ○ | ○ | ○ |
|---|---|---|---|---|---|---|---|

14

Twist Drills , 2 Flute - W16, W17

| Drilling | P01 | | P02 | | P03 | | K01 | | K02 | | N01 | | N02 | | N03 | |
|------------------|---------------|----------------|-----------------|----------------|-------------------|----------------|----------------|----------------|-------------------|----------------|-------------------|----------------|-----------------|----------------|---------------|----------------|
| Working Material | Carbon Steel | | Alloy Steel | | Prehardened Steel | | Grey Cast iron | | Ductile Cast Iron | | Wrought Aluminium | | Cast Aluminium | | Copper Alloy | |
| Properties | - | | 520 < Rm < 1200 | | 35 ≤ HRC < 45 | | - | | - | | - | | 520 < Rm < 1200 | | 35 ≤ HRC < 45 | |
| D (mm) | Vc (m/min) | fn (mm/rev) | Vc (m/min) | fn (mm/rev) | Vc (m/min) | fn (mm/rev) | Vc (m/min) | fn (mm/rev) | Vc (m/min) | fn (mm/rev) | Vc (m/min) | fn (mm/rev) | Vc (m/min) | fn (mm/rev) | Vc (m/min) | fn (mm/rev) |
| 1 | 80 | 0.021 | 65 | 0.015 | 35 | 0.016 | 75 | 0.020 | 60 | 0.012 | 150 | 0.019 | 130 | 0.018 | 100 | 0.018 |
| 2 | | 0.043 | | 0.032 | | 0.032 | | 0.042 | | 0.025 | | 0.040 | | 0.038 | | 0.038 |
| 3 | | 0.068 | | 0.051 | | 0.050 | | 0.064 | | 0.039 | | 0.062 | | 0.060 | | 0.060 |
| 4 | | 0.094 | | 0.069 | | 0.068 | | 0.088 | | 0.056 | | 0.085 | | 0.083 | | 0.083 |
| 5 | | 0.122 | | 0.088 | | 0.083 | | 0.115 | | 0.074 | | 0.110 | | 0.107 | | 0.108 |
| 6 | | 0.149 | | 0.109 | | 0.105 | | 0.140 | | 0.094 | | 0.138 | | 0.133 | | 0.131 |
| 7 | | 0.178 | | 0.130 | | 0.125 | | 0.166 | | 0.114 | | 0.165 | | 0.158 | | 0.161 |
| 8 | | 0.216 | | 0.154 | | 0.150 | | 0.200 | | 0.142 | | 0.195 | | 0.190 | | 0.190 |
| 9 | | 0.245 | | 0.178 | | 0.162 | | 0.226 | | 0.159 | | 0.224 | | 0.222 | | 0.219 |
| 10 | | 0.281 | | 0.200 | | 0.183 | | 0.263 | | 0.185 | | 0.260 | | 0.250 | | 0.253 |
| 11 | | 0.313 | | 0.226 | | 0.200 | | 0.295 | | 0.217 | | 0.293 | | 0.284 | | 0.290 |
| 12 | | 0.355 | | 0.250 | | 0.230 | | 0.330 | | 0.250 | | 0.333 | | 0.320 | | 0.322 |
| 13 | | 0.380 | | 0.275 | | 0.244 | | 0.342 | | 0.260 | | 0.349 | | 0.341 | | 0.336 |
| 14 | | 0.395 | | 0.287 | | 0.275 | | 0.350 | | 0.271 | | 0.360 | | 0.353 | | 0.357 |
| 15 | | 0.435 | | 0.307 | | 0.275 | | 0.381 | | 0.285 | | 0.384 | | 0.371 | | 0.364 |
| 16 | | 0.450 | | 0.323 | | 0.300 | | 0.393 | | 0.300 | | 0.400 | | 0.388 | | 0.385 |



Recommended Cutting Data

Note: These recommended cutting data indicators are just for reference. They should be adjusted according to the different cutting condition

Certificate

Standard

ISO 9001:2015

Certificate Registr. No.

01 100 053515

Certificate Holder:



HPMT Industries Sdn. Bhd.

No. 5, Jalan Sungai Kayu Ara 32/39, Taman Berjaya,
Seksyen 32, Shah Alam, Selangor Darul Ehsan, Malaysia

Scope:

Manufacturing of Standard and Custom-made Metal Removing
Cutting Tools

Proof has been furnished by means of an audit that the
requirements of ISO 9001:2015 are met.

Validity:

The certificate is valid from 2021-08-15 until 2022-02-14.
First certification 2005

2021-08-16



TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln



HPMT

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