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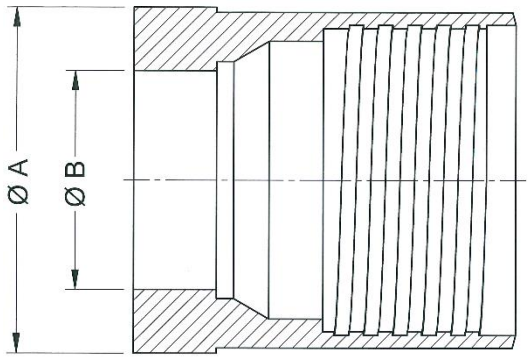
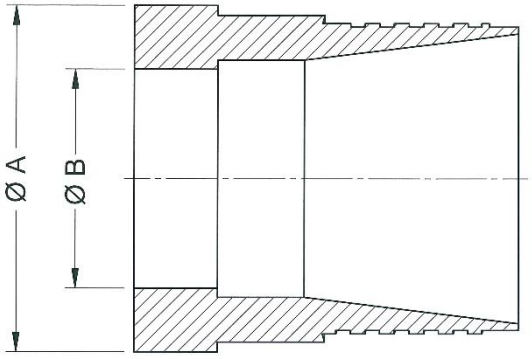
Nominal Set Diameters for Core Bits and Product Availability by Cutting Media Type



Core Bits with
Internal Thread Connections



Core Bits with
External Thread Connections

Notes

1. The dimensions given in this document are nominal. That is, they represent the mid-point dimension onto which a manufacturing tolerance is applied. This tolerance varies by bit size and conforms to established industry standards. In addition to core bits with standard outside set diameters, Dimatec also offers a limited range of core bits with Reaming Shell Gauge (RSG) and industry standard oversize outside set diameters for special applications.

2. Dimatec is capable of manufacturing any core bit listed in the following tables. Bit sizes that are not listed or bits with non-standard set diameters may be available on request. Note that some types of cutting media may not be available on some sizes of core bits due to the physical dimensional limitations of the bit crown.

   Key to product availability cutting media codes:
   - "Imp." represents: Impregnated synthetic diamond
   - "TSP" represents: Thermally stable polycrystalline synthetic diamond elements
   - "PDC" represents: Polycrystalline diamond compacts
   - "Carb Chip" represents: Tungsten-carbide granular chips
   - "Carb S/T" represents: Saw-tooth tungsten-carbide elements

E-Gauge Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
EWG, EWM	37.34 mm *1.470 inch*	-	-	21.46 mm *0.845 inch*	✓	✗	✗	✗	✗

TEW	37.34 mm *1.470 inch*	-	-	22.80 mm *0.898 inch*	✓	✗	✗	✗	✗
EWT (EXT)	37.34 mm *1.470 inch*	-	-	22.99 mm *0.905 inch*	✓	✗	✗	✗	✗
IEW, IEWS	37.34 mm *1.470 inch*	-	-	25.27 mm *0.995 inch*	✓	✗	✗	✗	✗

A-Gauge Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
AWL	47.62 mm *1.875 inch*	48.00 mm *1.890 inch*	-	26.97 mm *1.062 inch*	✓	✓	✗	✓	✗
ATW	47.62 mm *1.875 inch*	-	-	30.10 mm *1.185 inch*	✓	✓	✗	✓	✗
AWG, AWM	47.62 mm *1.875 inch*	48.00 mm *1.890 inch*	-	30.10 mm *1.185 inch*	✓	✓	✗	✓	✗
AGM	47.62 mm *1.875 inch*	-	-	30.30 mm *1.193 inch*	✓	✓	✗	✓	✗
AWLTK	47.62 mm *1.875 inch*	48.00 mm *1.890 inch*	-	30.50 mm *1.201 inch*	✓	✓	✗	✓	✗
AWT (AXT)	47.62 mm *1.875 inch*	-	-	32.54 mm *1.281 inch*	✓	✗	✗	✓	✗
TAW	47.62 mm *1.875 inch*	-	-	33.20 mm *1.307 inch*	✓	✗	✗	✓	✗
IAW, IAWS	47.62 mm *1.875 inch*	-	-	35.28 mm *1.389 inch*	✓	✗	✗	✗	✗
LTK48, JKT48	47.62 mm *1.875 inch*	-	-	35.28 mm *1.389 inch*	✓	✗	✗	✗	✗

B-Gauge Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
BWL	59.56 mm *2.345 inch*	59.94 mm *2.360 inch*	60.96 mm *2.400 inch*	36.40 mm *1.433 inch*	✓	✓	✓	✓	✓
BWL3	59.56 mm *2.345 inch*	59.94 mm *2.360 inch*	60.96 mm *2.400 inch*	33.53 mm *1.320 inch*	✓	✓	✓	✓	✓
BWLTK	59.56 mm *2.345 inch*	59.94 mm *2.360 inch*	60.96 mm *2.400 inch*	40.67 mm *1.601 inch*	✓	✓	✗	✓	✓
BTW (BGM)	59.56 mm *2.345 inch*	59.94 mm *2.360 inch*	60.96 mm *2.400 inch*	42.00 mm *1.654 inch*	✓	✓	✗	✓	✓
BWG, BWM	59.56 mm *2.345 inch*	59.94 mm *2.360 inch*	-	42.04 mm *1.655 inch*	✓	✓	✗	✓	✓
LTK60	59.56 mm *2.345 inch*	-	-	44.12 mm *1.737 inch*	✓	✗	✗	✓	✗

BWT	59.56 mm *2.345 inch*	-	-	44.45 mm *1.750 inch*	✓	✗	✗	✓	✗
TBW	59.56 mm *2.345 inch*	-	-	45.21 mm *1.780 inch*	✓	✗	✗	✓	✗

N-Gauge Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
NWL	75.31 mm *2.965 inch*	75.69 mm *2.980 inch*	77.01 mm *3.032 inch*	47.62 mm *1.875 inch*	✓	✓	✓	✓	✓
NWL2	75.31 mm *2.965 inch*	75.69 mm *2.980 inch*	77.01 mm *3.032 inch*	50.67 mm *1.995 inch*	✓	✓	✓	✓	✓
NWL3 (NWLTT)	75.31 mm *2.965 inch*	75.69 mm *2.980 inch*	77.01 mm *3.032 inch*	45.09 mm *1.775 inch*	✓	✓	✓	✓	✓
76HD	-	75.69 mm *2.980 inch*	77.01 mm *3.032 inch*	43.48 mm *1.712 inch*	✓	✓	✓	✓	✓
NMLC	75.31 mm *2.965 inch*	75.69 mm *2.980 inch*	77.01 mm *3.032 inch*	52.00 mm *2.047 inch*	✓	✓	✓	✓	✓
NWD4	-	75.69 mm *2.980 inch*	77.01 mm *3.032 inch*	52.32 mm *2.060 inch*	✓	✓	✓	✓	✓
NWG, NWM	75.31 mm *2.965 inch*	75.69 mm *2.980 inch*	-	54.74 mm *2.155 inch*	✓	✓	✗	✓	✓
NTW, NGM	75.31 mm *2.965 inch*	75.69 mm *2.980 inch*	77.01 mm *3.032 inch*	56.11 mm *2.209 inch*	✓	✗	✗	✓	✓
NWT	75.31 mm *2.965 inch*	-	-	58.75 mm *2.313 inch*	✓	✗	✗	✓	✗
TNW	75.31 mm *2.965 inch*	-	-	60.68 mm *2.389 inch*	✓	✗	✗	✓	✗
DeviDrill WL76 (N-Devico)	75.31 mm *2.965 inch*	-	-	31.60 mm *1.244 inch*	✓	✗	✗	✗	✗

H-Gauge Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
HWL	95.55 mm *3.762 inch*	96.06 mm *3.782 inch*	97.28 mm *3.830 inch*	63.50 mm *2.500 inch*	✓	✓	✓	✓	✓
HWL-3.895	-	-	98.93 mm *3.895 inch*	63.50 mm *2.500 inch*	✓	✓	✓	✓	✓
HWL3 (HWLTT)	95.55 mm *3.762 inch*	96.06 mm *3.782 inch*	97.28 mm *3.830 inch*	61.11 mm *2.406 inch*	✓	✓	✓	✓	✓
HWL3-3.895	-	-	98.93 mm *3.895 inch*	61.11 mm *2.406 inch*	✓	✓	✓	✓	✓
101HD	-	100.76 mm *3.967 inch*	-	63.50 mm *2.500 inch*	✓	✓	✓	✓	✓
HWD4	-	92.71 mm *3.650 inch*	95.55 mm *3.762 inch*	61.11 mm *2.406 inch*	✓	✓	✓	✓	✓

HMLC	98.42 mm *3.875 inch*	-	-	63.50 mm *2.500 inch*	✓	✓	✓	✓	✓
HTW	95.55 mm *3.762 inch*	96.06 mm *3.782 inch*	97.28 mm *3.830 inch*	70.92 mm *2.792 inch*	✓	✓	✓	✓	✓
HWG	98.80 mm *3.890 inch*	99.24 mm *3.907 inch*	-	76.20 mm *3.000 inch*	✓	✓	✓	✓	✓

H-Gauge Core Bits Continued ►

H-Gauge Core Bits (Continued)

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
HWF (Long Type)	-	99.24 mm *3.907 inch*	-	76.20 mm *3.000 inch*	✓	✓	✓	✓	✓
HWF Coreline (Long Type)	-	99.24 mm *3.907 inch*	-	72.00 mm *2.835 inch*	✓	✓	✓	✓	✓
HWAF	99.44 mm *3.915 inch*	-	-	70.23 mm *2.765 inch*	✓	✓	✓	✓	✓
HWAF Coreline	99.44 mm *3.915 inch*	-	-	68.00 mm *2.677 inch*	✓	✓	✓	✓	✓
412F	107.19 mm *4.220 inch*	-	-	74.50 mm *2.933 inch*	✓	✓	✓	✓	✓
412F Coreline	107.19 mm *4.220 inch*	-	-	73.00 mm *2.874 inch*	✓	✓	✓	✓	✓
T6-H	98.80 mm *3.890 inch*	-	-	79.00 mm *3.110 inch*	✓	✓	✓	✓	✓
T6-H Coreline	98.80 mm *3.890 inch*	-	-	76.00 mm *2.992 inch*	✓	✓	✓	✓	✓
94mm*	100.00 mm *3.937 inch*	-	-	60.96 mm *2.400 inch*	✓	✓	✓	✓	✓

* Core bits designed for use on the 94mm core barrel system are available in a number of different outside and inside set diameter options. The most common outside and inside set diameter combination is given here for information. Please contact Dimatec Inc. for the availability of other configurations.

P-Gauge Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
PWL	122.05 mm *4.805 inch*	122.61 mm *4.827 inch*	123.83 mm *4.875 inch*	84.96 mm *3.345 inch*	✓	✓	✓	✓	✓
PWL3 (PWLTT)	122.05 mm *4.805 inch*	122.61 mm *4.827 inch*	123.83 mm *4.875 inch*	83.06 mm *3.270 inch*	✓	✓	✓	✓	✓
PWF (Long Type)	-	120.60 mm *4.748 inch*	-	92.15 mm *3.628 inch*	✓	✓	✓	✓	✓
PWF Coreline (Long Type)	-	120.60 mm *4.748 inch*	-	87.00 mm *3.425 inch*	✓	✓	✓	✓	✓
4.62 x 3.00 CBC	123.83 mm *4.875 inch*	-	-	76.20 mm *3.000 inch*	✓	✓	✓	✓	✓

S-Gauge Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)	**Product Availability** (See Note 2)

	Ø A (Standard)	Ø A (RSG)	Ø A (Oversize)	Ø B	Imp.	TSP	PDC	Carb Chip	Carb S/T
SWF (Long Type)	-	146.00 mm *5.748 inch*	-	112.78 mm *4.440 inch*	✓	✓	✓	✓	✓
SWF Coreline (Long Type)	-	146.00 mm *5.748 inch*	-	107.00 mm *4.213 inch*	✓	✓	✓	✓	✓
Geobor-S, SK6L	146.00 mm *5.748 inch*	-	-	101.88 mm *4.011 inch*	✓	✓	✓	✓	✓

WL-Series Core Bits

For metric wireline core barrel system

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	Ø A (RSG)	Ø A (Oversize)	Ø B	Imp.	TSP	PDC	Carb Chip	Carb S/T
WL46	46.86 mm *1.845 inch*	-	-	28.75 mm *1.132 inch*	✓	✓	✗	✓	✗
WL56/39	56.52 mm *2.225 inch*	-	-	39.00 mm *1.535 inch*	✓	✓	✗	✓	✗
WL56/42	56.52 mm *2.225 inch*	-	-	41.07 mm *1.617 inch*	✓	✗	✗	✓	✗
WL66	66.90 mm *2.634 inch*	-	-	50.39 mm *1.984 inch*	✓	✓	✗	✓	✗
WL76	76.00 mm *2.992 inch*	-	-	57.50 mm *2.264 inch*	✓	✓	✗	✓	✗
WL76/3	76.00 mm *2.992 inch*	-	-	51.00 mm *2.008 inch*	✓	✓	✓	✓	✓

T, TT and T2-Series Metric Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	Ø A (RSG)	Ø A (Oversize)	Ø B	Imp.	TSP	PDC	Carb Chip	Carb S/T
T36	36.00 mm *1.417 inch*	-	-	21.70 mm *0.854 inch*	✓	✗	✗	✓	✗
TT46	46.00 mm *1.811 inch*	-	-	35.28 mm *1.389 inch*	✓	✗	✗	✓	✗
T2-46	46.00 mm *1.811 inch*	-	-	31.70 mm *1.248 inch*	✓	✓	✗	✓	✗
TT56	56.00 mm *2.205 inch*	-	-	45.28 mm *1.783 inch*	✓	✗	✗	✓	✗
T2-56	56.00 mm *2.205 inch*	-	-	41.70 mm *1.642 inch*	✓	✓	✗	✓	✗
T2-66	66.00 mm *2.598 inch*	-	-	51.70 mm *2.035 inch*	✓	✓	✗	✓	✗
T2-76	76.00 mm *2.992 inch*	-	-	61.70 mm *2.429 inch*	✓	✓	✗	✓	✗
T2-76 Coreline	76.00 mm *2.992 inch*	-	-	58.00 mm *2.283 inch*	✓	✓	✓	✓	✓
T2-86	86.00 mm *3.386 inch*	-	-	71.70 mm *2.823 inch*	✓	✓	✗	✓	✗
T2-86 Coreline	86.00 mm *3.386 inch*	-	-	68.00 mm *2.677 inch*	✓	✓	✓	✓	✓

T2-101	101.00 mm *3.976 inch*	-	-	83.70 mm *3.295 inch*	✓	✓	✓	✓	✓
T2-101 Coreline	101.00 mm *3.976 inch*	-	-	80.00 mm *3.150 inch*	✓	✓	✓	✓	✓

T6-Series Metric Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
T6-76	76.00 mm *2.992 inch*	-	-	57.00 mm *2.244 inch*	✓	✓	✓	✓	✓
T6-86	86.00 mm *3.386 inch*	-	-	67.00 mm *2.638 inch*	✓	✓	✓	✓	✓
T6-86 Coreline	86.00 mm *3.386 inch*	-	-	64.00 mm *2.520 inch*	✓	✓	✓	✓	✓
T6-101	101.00 mm *3.976 inch*	-	-	79.00 mm *3.110 inch*	✓	✓	✓	✓	✓
T6-101 Coreline	101.00 mm *3.976 inch*	-	-	76.00 mm *2.992 inch*	✓	✓	✓	✓	✓
T6-116	116.00 mm *4.567 inch*	-	-	93.00 mm *3.661 inch*	✓	✓	✓	✓	✓
T6-116 Coreline	116.00 mm *4.567 inch*	-	-	90.00 mm *3.543 inch*	✓	✓	✓	✓	✓
T6-131	131.00 mm *5.157 inch*	-	-	108.00 mm *4.252 inch*	✓	✓	✓	✓	✓
T6-131 Coreline	131.00 mm *5.157 inch*	-	-	103.50 mm *4.075 inch*	✓	✓	✓	✓	✓
T6-146	146.00 mm *5.748 inch*	-	-	123.00 mm *4.843 inch*	✓	✓	✓	✓	✓
T6-146 Coreline	146.00 mm *5.748 inch*	-	-	118.00 mm *4.646 inch*	✓	✓	✓	✓	✓

T6S-Series Metric Core Bits

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
T6S-76	-	76.30 mm *3.004 inch*	-	47.70 mm *1.878 inch*	✓	✓	✓	✓	✓
T6S-86	-	86.30 mm *3.398 inch*	-	57.70 mm *2.272 inch*	✓	✓	✓	✓	✓
T6S-101	-	101.30 mm *3.988 inch*	-	71.70 mm *2.823 inch*	✓	✓	✓	✓	✓
T6S-116	-	116.30 mm *4.579 inch*	-	85.70 mm *3.374 inch*	✓	✓	✓	✓	✓
T6S-131	-	131.30 mm *5.169 inch*	-	100.70 mm *3.965 inch*	✓	✓	✓	✓	✓

T6S-146	-	146.30 mm *5.760 inch*	-	115.70 mm *4.555 inch*	✓	✓	✓	✓	✓

B-Series Metric Core Bits

As per the ISO 3552-1 standard

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
B36	36.00 mm *1.417 inch*	-	-	21.70 mm *0.854 inch*	✓	✗	✗	✓	✗
B46	46.00 mm *1.811 inch*	-	-	31.70 mm *1.248 inch*	✓	✓	✗	✓	✗
B56	56.00 mm *2.205 inch*	-	-	41.70 mm *1.642 inch*	✓	✓	✗	✓	✗
B66	66.00 mm *2.598 inch*	-	-	51.70 mm *2.035 inch*	✓	✓	✗	✓	✗
B76	76.00 mm *2.992 inch*	-	-	61.70 mm *2.429 inch*	✓	✓	✗	✓	✗
B86	86.00 mm *3.386 inch*	-	-	71.70 mm *2.823 inch*	✓	✓	✗	✓	✗
B101	101.00 mm *3.976 inch*	-	-	86.70 mm *3.413 inch*	✓	✓	✗	✓	✗
B116	116.00 mm *4.567 inch*	-	-	101.70 mm *4.004 inch*	✓	✓	✗	✓	✗
B131	131.00 mm *5.157 inch*	-	-	116.70 mm *4.594 inch*	✓	✓	✗	✓	✗
B146	146.00 mm *5.748 inch*	-	-	131.70 mm *5.185 inch*	✓	✓	✗	✓	✗
B168▲	168.00 mm *6.614 inch*	-	-	148.00 mm *5.827 inch*	✓	✓	✗	✓	✗

▲ B168 is not standardised by ISO.

D-Series Metric Core Bits: DIN Standard

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
D101	101.00 mm *3.976 inch*	-	-	81.00 mm *3.189 inch*	✓	✓	✓	✓	✓
D116	116.00 mm *4.567 inch*	-	-	96.00 mm *3.780 inch*	✓	✓	✓	✓	✓

D131	131.00 mm *5.157 inch*	-	-	110.00 mm *4.331 inch*	✓	✓	✓	✓	✓
D146	146.00 mm *5.748 inch*	-	-	121.87 mm *4.798 inch*	✓	✓	✓	✓	✓

RUS-Series Metric Core Bits: Russian Standard

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
RUS-59	59.05 mm *2.325 inch*	-	-	42.00 mm *1.654 inch*	✓	✓	✗	✓	✓
RUS-76	76.05 mm *2.994 inch*	-	-	58.05 mm *2.285 inch*	✓	✓	✗	✓	✓
RUS-93	93.05 mm *3.663 inch*	-	-	73.05 mm *2.876 inch*	✓	✓	✓	✓	✓
RUS-112	112.05 mm *4.411 inch*	-	-	92.05 mm *3.624 inch*	✓	✓	✓	✓	✓

Bits for Large Diameter DCDMA Core Barrels

Bit Sizes	**Nominal Set Diameters** (See Note 1)				**Product Availability** (See Note 2)				
	Ø A (Standard)	**Ø A** (RSG)	**Ø A** (Oversize)	**Ø B**	Imp.	TSP	PDC	Carb Chip	Carb S/T
2-3/4 x 3-7/8	97.54 mm *3.840 inch*	-	-	68.33 mm *2.690 inch*	✓	✓	✓	✓	✓
4 x 5-1/2	138.05 mm *5.435 inch*	-	-	100.84 mm *3.970 inch*	✓	✓	✓	✓	✓
6 x 7-3/4	194.44 mm *7.655 inch*	-	-	151.64 mm *5.970 inch*	✓	✓	✓	✓	✓

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