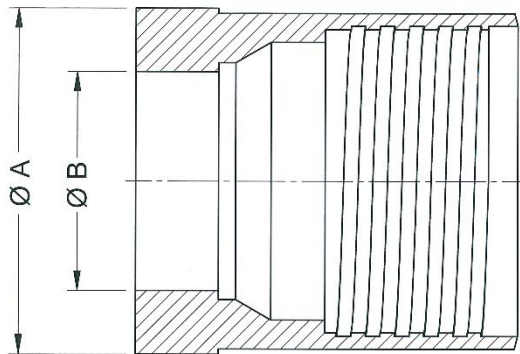
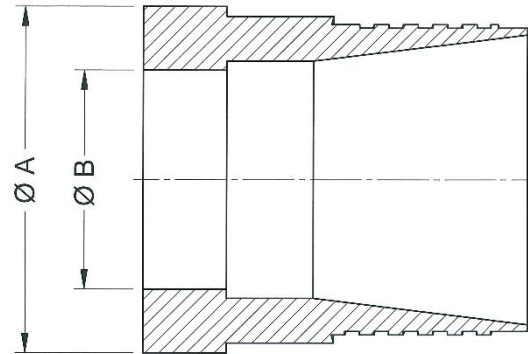


## Nominal Set Diameters for Core Bits and Product Availability by Cutting Media Type



Core Bits with Internal Thread Connections



Core Bits with External Thread Connections

### Notes

- 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.
- 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
<b>EWG, EWM</b>	37.34 mm 1.470 inch	-	-	21.46 mm 0.845 inch	✓	✗	✗	✗	✗

<b>TEW</b>	37.34 mm 1.470 inch	-	-	22.80 mm 0.898 inch	✓	✗	✗	✗	✗
<b>EWT (EXT)</b>	37.34 mm 1.470 inch	-	-	22.99 mm 0.905 inch	✓	✗	✗	✗	✗
<b>IEW, IEWS</b>	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
<b>AWL</b>	47.62 mm 1.875 inch	48.00 mm 1.890 inch	-	26.97 mm 1.062 inch	✓	✓	✗	✓	✗
<b>ATW</b>	47.62 mm 1.875 inch	-	-	30.10 mm 1.185 inch	✓	✓	✗	✓	✗
<b>AWG, AWM</b>	47.62 mm 1.875 inch	48.00 mm 1.890 inch	-	30.10 mm 1.185 inch	✓	✓	✗	✓	✗
<b>AGM</b>	47.62 mm 1.875 inch	-	-	30.30 mm 1.193 inch	✓	✓	✗	✓	✗
<b>AWLTK</b>	47.62 mm 1.875 inch	48.00 mm 1.890 inch	-	30.50 mm 1.201 inch	✓	✓	✗	✓	✗
<b>AWT (AXT)</b>	47.62 mm 1.875 inch	-	-	32.54 mm 1.281 inch	✓	✗	✗	✓	✗
<b>TAW</b>	47.62 mm 1.875 inch	-	-	33.20 mm 1.307 inch	✓	✗	✗	✓	✗
<b>IAW, IAWS</b>	47.62 mm 1.875 inch	-	-	35.28 mm 1.389 inch	✓	✗	✗	✗	✗
<b>LTK48, JKT48</b>	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
<b>BWL</b>	59.56 mm 2.345 inch	59.94 mm 2.360 inch	60.96 mm 2.400 inch	36.40 mm 1.433 inch	✓	✓	✓	✓	✓
<b>BWL3</b>	59.56 mm 2.345 inch	59.94 mm 2.360 inch	60.96 mm 2.400 inch	33.53 mm 1.320 inch	✓	✓	✓	✓	✓
<b>BWLTK</b>	59.56 mm 2.345 inch	59.94 mm 2.360 inch	60.96 mm 2.400 inch	40.67 mm 1.601 inch	✓	✓	✗	✓	✓
<b>BTW (BGM)</b>	59.56 mm 2.345 inch	59.94 mm 2.360 inch	60.96 mm 2.400 inch	42.00 mm 1.654 inch	✓	✓	✗	✓	✓
<b>BWG, BWM</b>	59.56 mm 2.345 inch	59.94 mm 2.360 inch	-	42.04 mm 1.655 inch	✓	✓	✗	✓	✓
<b>LTK60</b>	59.56 mm 2.345 inch	-	-	44.12 mm 1.737 inch	✓	✗	✗	✓	✗

<b>BWT</b>	59.56 mm 2.345 inch	-	-	44.45 mm 1.750 inch	✓	✗	✗	✓	✗
<b>TBW</b>	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
<b>NWL</b>	75.31 mm 2.965 inch	75.69 mm 2.980 inch	77.01 mm 3.032 inch	47.62 mm 1.875 inch	✓	✓	✓	✓	✓
<b>NWL2</b>	75.31 mm 2.965 inch	75.69 mm 2.980 inch	77.01 mm 3.032 inch	50.67 mm 1.995 inch	✓	✓	✓	✓	✓
<b>NWL3 (NWLTT)</b>	75.31 mm 2.965 inch	75.69 mm 2.980 inch	77.01 mm 3.032 inch	45.09 mm 1.775 inch	✓	✓	✓	✓	✓
<b>76HD</b>	-	75.69 mm 2.980 inch	77.01 mm 3.032 inch	43.48 mm 1.712 inch	✓	✓	✓	✓	✓
<b>NMLC</b>	75.31 mm 2.965 inch	75.69 mm 2.980 inch	77.01 mm 3.032 inch	52.00 mm 2.047 inch	✓	✓	✓	✓	✓
<b>NWD4</b>	-	75.69 mm 2.980 inch	77.01 mm 3.032 inch	52.32 mm 2.060 inch	✓	✓	✓	✓	✓
<b>NWG, NWM</b>	75.31 mm 2.965 inch	75.69 mm 2.980 inch	-	54.74 mm 2.155 inch	✓	✓	✗	✓	✓
<b>NTW, NGM</b>	75.31 mm 2.965 inch	75.69 mm 2.980 inch	77.01 mm 3.032 inch	56.11 mm 2.209 inch	✓	✗	✗	✓	✓
<b>NWT</b>	75.31 mm 2.965 inch	-	-	58.75 mm 2.313 inch	✓	✗	✗	✓	✗
<b>TNW</b>	75.31 mm 2.965 inch	-	-	60.68 mm 2.389 inch	✓	✗	✗	✓	✗
<b>DeviDrill WL76 (N-Devico)</b>	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
<b>HWL</b>	95.55 mm 3.762 inch	96.06 mm 3.782 inch	97.28 mm 3.830 inch	63.50 mm 2.500 inch	✓	✓	✓	✓	✓
<b>HWL-3.895</b>	-	-	98.93 mm 3.895 inch	63.50 mm 2.500 inch	✓	✓	✓	✓	✓
<b>HWL3 (HWLTT)</b>	95.55 mm 3.762 inch	96.06 mm 3.782 inch	97.28 mm 3.830 inch	61.11 mm 2.406 inch	✓	✓	✓	✓	✓
<b>HWL3-3.895</b>	-	-	98.93 mm 3.895 inch	61.11 mm 2.406 inch	✓	✓	✓	✓	✓
<b>101HD</b>	-	100.76 mm 3.967 inch	-	63.50 mm 2.500 inch	✓	✓	✓	✓	✓
<b>HWD4</b>	-	92.71 mm 3.650 inch	95.55 mm 3.762 inch	61.11 mm 2.406 inch	✓	✓	✓	✓	✓

<b>HMLC</b>	98.42 mm 3.875 inch	-	-	63.50 mm 2.500 inch	✓	✓	✓	✓	✓
<b>HTW</b>	95.55 mm 3.762 inch	96.06 mm 3.782 inch	97.28 mm 3.830 inch	70.92 mm 2.792 inch	✓	✓	✓	✓	✓
<b>HWG</b>	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
<b>HWF</b> (Long Type)	-	99.24 mm 3.907 inch	-	76.20 mm 3.000 inch	✓	✓	✓	✓	✓
<b>HWF Coreline</b> (Long Type)	-	99.24 mm 3.907 inch	-	72.00 mm 2.835 inch	✓	✓	✓	✓	✓
<b>HWAF</b>	99.44 mm 3.915 inch	-	-	70.23 mm 2.765 inch	✓	✓	✓	✓	✓
<b>HWAF Coreline</b>	99.44 mm 3.915 inch	-	-	68.00 mm 2.677 inch	✓	✓	✓	✓	✓
<b>412F</b>	107.19 mm 4.220 inch	-	-	74.50 mm 2.933 inch	✓	✓	✓	✓	✓
<b>412F Coreline</b>	107.19 mm 4.220 inch	-	-	73.00 mm 2.874 inch	✓	✓	✓	✓	✓
<b>T6-H</b>	98.80 mm 3.890 inch	-	-	79.00 mm 3.110 inch	✓	✓	✓	✓	✓
<b>T6-H Coreline</b>	98.80 mm 3.890 inch	-	-	76.00 mm 2.992 inch	✓	✓	✓	✓	✓
<b>94mm*</b>	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
<b>PWL</b>	122.05 mm 4.805 inch	122.61 mm 4.827 inch	123.83 mm 4.875 inch	84.96 mm 3.345 inch	✓	✓	✓	✓	✓
<b>PWL3 (PWLTT)</b>	122.05 mm 4.805 inch	122.61 mm 4.827 inch	123.83 mm 4.875 inch	83.06 mm 3.270 inch	✓	✓	✓	✓	✓
<b>PWF</b> (Long Type)	-	120.60 mm 4.748 inch	-	92.15 mm 3.628 inch	✓	✓	✓	✓	✓
<b>PWF Coreline</b> (Long Type)	-	120.60 mm 4.748 inch	-	87.00 mm 3.425 inch	✓	✓	✓	✓	✓
<b>4.62 x 3.00 CBC</b>	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)
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	Ø A (Standard)	Ø A (RSG)	Ø A (Oversize)	Ø B	Imp.	TSP	PDC	Carb Chip	Carb S/T
<b>SWF</b> (Long Type)	-	146.00 mm 5.748 inch	-	112.78 mm 4.440 inch	✓	✓	✓	✓	✓
<b>SWF Coreline</b> (Long Type)	-	146.00 mm 5.748 inch	-	107.00 mm 4.213 inch	✓	✓	✓	✓	✓
<b>Geobor-S, SK6L</b>	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
<b>WL46</b>	46.86 mm 1.845 inch	-	-	28.75 mm 1.132 inch	✓	✓	✗	✓	✗
<b>WL56/39</b>	56.52 mm 2.225 inch	-	-	39.00 mm 1.535 inch	✓	✓	✗	✓	✗
<b>WL56/42</b>	56.52 mm 2.225 inch	-	-	41.07 mm 1.617 inch	✓	✗	✗	✓	✗
<b>WL66</b>	66.90 mm 2.634 inch	-	-	50.39 mm 1.984 inch	✓	✓	✗	✓	✗
<b>WL76</b>	76.00 mm 2.992 inch	-	-	57.50 mm 2.264 inch	✓	✓	✗	✓	✗
<b>WL76/3</b>	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
<b>T36</b>	36.00 mm 1.417 inch	-	-	21.70 mm 0.854 inch	✓	✗	✗	✓	✗
<b>TT46</b>	46.00 mm 1.811 inch	-	-	35.28 mm 1.389 inch	✓	✗	✗	✓	✗
<b>T2-46</b>	46.00 mm 1.811 inch	-	-	31.70 mm 1.248 inch	✓	✓	✗	✓	✗
<b>TT56</b>	56.00 mm 2.205 inch	-	-	45.28 mm 1.783 inch	✓	✗	✗	✓	✗
<b>T2-56</b>	56.00 mm 2.205 inch	-	-	41.70 mm 1.642 inch	✓	✓	✗	✓	✗
<b>T2-66</b>	66.00 mm 2.598 inch	-	-	51.70 mm 2.035 inch	✓	✓	✗	✓	✗
<b>T2-76</b>	76.00 mm 2.992 inch	-	-	61.70 mm 2.429 inch	✓	✓	✗	✓	✗
<b>T2-76 Coreline</b>	76.00 mm 2.992 inch	-	-	58.00 mm 2.283 inch	✓	✓	✓	✓	✓
<b>T2-86</b>	86.00 mm 3.386 inch	-	-	71.70 mm 2.823 inch	✓	✓	✗	✓	✗
<b>T2-86 Coreline</b>	86.00 mm 3.386 inch	-	-	68.00 mm 2.677 inch	✓	✓	✓	✓	✓

<b>T2-101</b>	101.00 mm 3.976 inch	-	-	83.70 mm 3.295 inch	✓	✓	✓	✓	✓
<b>T2-101 Coreline</b>	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
<b>T6-76</b>	76.00 mm 2.992 inch	-	-	57.00 mm 2.244 inch	✓	✓	✓	✓	✓
<b>T6-86</b>	86.00 mm 3.386 inch	-	-	67.00 mm 2.638 inch	✓	✓	✓	✓	✓
<b>T6-86 Coreline</b>	86.00 mm 3.386 inch	-	-	64.00 mm 2.520 inch	✓	✓	✓	✓	✓
<b>T6-101</b>	101.00 mm 3.976 inch	-	-	79.00 mm 3.110 inch	✓	✓	✓	✓	✓
<b>T6-101 Coreline</b>	101.00 mm 3.976 inch	-	-	76.00 mm 2.992 inch	✓	✓	✓	✓	✓
<b>T6-116</b>	116.00 mm 4.567 inch	-	-	93.00 mm 3.661 inch	✓	✓	✓	✓	✓
<b>T6-116 Coreline</b>	116.00 mm 4.567 inch	-	-	90.00 mm 3.543 inch	✓	✓	✓	✓	✓
<b>T6-131</b>	131.00 mm 5.157 inch	-	-	108.00 mm 4.252 inch	✓	✓	✓	✓	✓
<b>T6-131 Coreline</b>	131.00 mm 5.157 inch	-	-	103.50 mm 4.075 inch	✓	✓	✓	✓	✓
<b>T6-146</b>	146.00 mm 5.748 inch	-	-	123.00 mm 4.843 inch	✓	✓	✓	✓	✓
<b>T6-146 Coreline</b>	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
<b>T6S-76</b>	-	76.30 mm 3.004 inch	-	47.70 mm 1.878 inch	✓	✓	✓	✓	✓
<b>T6S-86</b>	-	86.30 mm 3.398 inch	-	57.70 mm 2.272 inch	✓	✓	✓	✓	✓
<b>T6S-101</b>	-	101.30 mm 3.988 inch	-	71.70 mm 2.823 inch	✓	✓	✓	✓	✓
<b>T6S-116</b>	-	116.30 mm 4.579 inch	-	85.70 mm 3.374 inch	✓	✓	✓	✓	✓
<b>T6S-131</b>	-	131.30 mm 5.169 inch	-	100.70 mm 3.965 inch	✓	✓	✓	✓	✓

<b>T6S-146</b>	-	146.30 mm 5.760 inch	-	115.70 mm 4.555 inch	✓	✓	✓	✓	✓
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## 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
<b>B36</b>	36.00 mm 1.417 inch	-	-	21.70 mm 0.854 inch	✓	✗	✗	✓	✗
<b>B46</b>	46.00 mm 1.811 inch	-	-	31.70 mm 1.248 inch	✓	✓	✗	✓	✗
<b>B56</b>	56.00 mm 2.205 inch	-	-	41.70 mm 1.642 inch	✓	✓	✗	✓	✗
<b>B66</b>	66.00 mm 2.598 inch	-	-	51.70 mm 2.035 inch	✓	✓	✗	✓	✗
<b>B76</b>	76.00 mm 2.992 inch	-	-	61.70 mm 2.429 inch	✓	✓	✗	✓	✗
<b>B86</b>	86.00 mm 3.386 inch	-	-	71.70 mm 2.823 inch	✓	✓	✗	✓	✗
<b>B101</b>	101.00 mm 3.976 inch	-	-	86.70 mm 3.413 inch	✓	✓	✗	✓	✗
<b>B116</b>	116.00 mm 4.567 inch	-	-	101.70 mm 4.004 inch	✓	✓	✗	✓	✗
<b>B131</b>	131.00 mm 5.157 inch	-	-	116.70 mm 4.594 inch	✓	✓	✗	✓	✗
<b>B146</b>	146.00 mm 5.748 inch	-	-	131.70 mm 5.185 inch	✓	✓	✗	✓	✗
<b>B168<sup>▲</sup></b>	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
<b>D101</b>	101.00 mm 3.976 inch	-	-	81.00 mm 3.189 inch	✓	✓	✓	✓	✓
<b>D116</b>	116.00 mm 4.567 inch	-	-	96.00 mm 3.780 inch	✓	✓	✓	✓	✓



<b>D131</b>	131.00 mm 5.157 inch	-	-	110.00 mm 4.331 inch	✓	✓	✓	✓	✓
<b>D146</b>	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
<b>RUS-59</b>	59.05 mm 2.325 inch	-	-	42.00 mm 1.654 inch	✓	✓	✗	✓	✓
<b>RUS-76</b>	76.05 mm 2.994 inch	-	-	58.05 mm 2.285 inch	✓	✓	✗	✓	✓
<b>RUS-93</b>	93.05 mm 3.663 inch	-	-	73.05 mm 2.876 inch	✓	✓	✓	✓	✓
<b>RUS-112</b>	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
<b>2-3/4 x 3-7/8</b>	97.54 mm 3.840 inch	-	-	68.33 mm 2.690 inch	✓	✓	✓	✓	✓
<b>4 x 5-1/2</b>	138.05 mm 5.435 inch	-	-	100.84 mm 3.970 inch	✓	✓	✓	✓	✓
<b>6 x 7-3/4</b>	194.44 mm 7.655 inch	-	-	151.64 mm 5.970 inch	✓	✓	✓	✓	✓

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