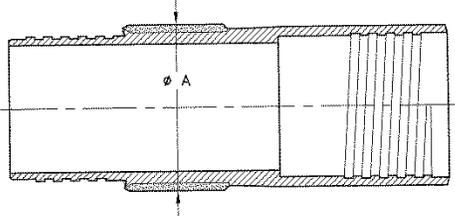


# Nominal Dimensions for Reaming Shells

## 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 reaming shell size and conforms to established industry standards. In addition to reaming shells with standard outside set diameters on their diamond-set gauge rings, Dimatec also offers a limited range of reaming shells with industry standard oversize outside set diameters for special applications.
- Dimatec is capable of manufacturing any reaming shell listed in the following tables. Reaming shell sizes that are not listed or reaming shells with non-standard set diameters may be available on request.
- Note that optional hard-metal strips on the steel body may not be available on some sizes of reaming shells due to physical dimensional limitations.

## Wireline Reaming Shells: Standard Length

Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
<b>AWL</b>	48.00 mm <i>1.890 inch</i>	-	✓	
<b>AWLTK</b>	48.00 mm <i>1.890 inch</i>	-	✓	
<b>ATW (AGM)</b>	48.00 mm <i>1.890 inch</i>	-	✓	
<b>BWL</b>	59.94 mm <i>2.360 inch</i>	60.96 mm <i>2.400 inch</i>	✓	
<b>BWLTK</b>	59.94 mm <i>2.360 inch</i>	60.96 mm <i>2.400 inch</i>	✓	
<b>BTW (BGM)</b>	59.94 mm <i>2.360 inch</i>	60.96 mm <i>2.400 inch</i>	✓	
<b>NWL</b>	75.69 mm <i>2.980 inch</i>	77.01 mm <i>3.032 inch</i>	✓	
<b>NTW (NGM)</b>	75.69 mm <i>2.980 inch</i>	77.01 mm <i>3.032 inch</i>	✓	
<b>76HD</b>	75.69 mm <i>2.980 inch</i>	77.01 mm <i>3.032 inch</i>	✓	
<b>HWL</b>	96.06 mm <i>3.782 inch</i>	97.28 mm <i>3.830 inch</i>	✓	
<b>HTW</b>	96.06 mm <i>3.782 inch</i>	97.28 mm <i>3.830 inch</i>	✓	
<b>101HD</b>	101.30 mm <i>3.988 inch</i>	-	✓	
<b>PWL</b>	122.61 mm <i>4.827 inch</i>	123.83 mm <i>4.875 inch</i>	✓	

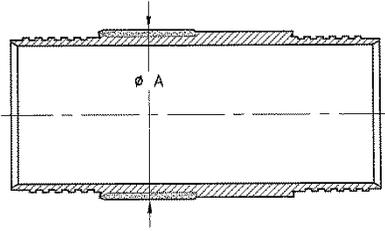
### Wireline Reaming Shells: Long-Ring Type

Reaming Shell Sizes	Nominal Dimensions (See Note 1)			Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)	B		
<b>BWL</b>	59.94 mm 2.360 inch	60.96 mm 2.400 inch	89.2 mm 3.51 inch	✓	
<b>BWLTK</b>	59.94 mm 2.360 inch	60.96 mm 2.400 inch	89.2 mm 3.51 inch	✓	
<b>BTW (BGM)</b>	59.94 mm 2.360 inch	60.96 mm 2.400 inch	89.2 mm 3.51 inch	✓	
<b>NWL</b>	75.69 mm 2.980 inch	77.01 mm 3.032 inch	91.2 mm 3.59 inch	✓	
<b>NTW (NGM)</b>	75.69 mm 2.980 inch	77.01 mm 3.032 inch	91.2 mm 3.59 inch	✓	
<b>HWL</b>	96.06 mm 3.782 inch	97.28 mm 3.830 inch	91.2 mm 3.59 inch	✓	

### T, TT and T2-Series Metric Reaming Shells

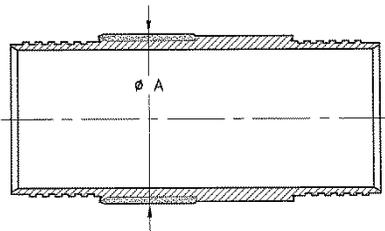
Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
<b>T36</b>	36.30 mm 1.429 inch	-	✗	
<b>TEW</b>	37.72 mm 1.485 inch	-	✗	
<b>TT46</b>	46.30 mm 1.823 inch	-	✗	
<b>T2-46</b>	46.30 mm 1.823 inch	-	✗	
<b>TAW</b>	48.00 mm 1.890 inch	-	✗	
<b>TT56</b>	56.30 mm 2.217 inch	-	✗	
<b>T2-56</b>	56.30 mm 2.217 inch	-	✗	
<b>TBW</b>	59.94 mm 2.360 inch	-	✗	
<b>T2-66</b>	66.30 mm 2.610 inch	-	✗	
<b>TNW</b>	75.69 mm 2.980 inch	-	✗	
<b>T2-76</b>	76.40 mm 3.008 inch	-	✗	
<b>T2-86</b>	86.40 mm 3.402 inch	-	✗	
<b>T2-101</b>	101.40 mm 3.992 inch	-	✓	

### T6-Series Metric Reaming Shells

Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
T6-76	76.40 mm 3.008 inch	-	✓	
T6-86	86.40 mm 3.402 inch	-	✓	
T6-H	99.24 mm 3.907 inch	-	✓	
T6-101	101.40 mm 3.992 inch	-	✓	
T6-116	116.40 mm 4.583 inch	-	✓	
T6-131	131.40 mm 5.173 inch	-	✓	
T6-146	146.40 mm 5.764 inch	-	✓	

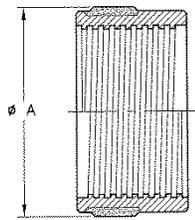
### WL-Series Reaming Shells

For metric wireline core barrel system

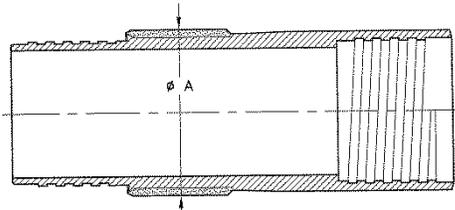
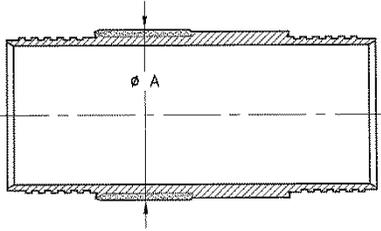
Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
WL56/39	56.80 mm 2.236 inch	-	✗	
WL56/42	56.80 mm 2.236 inch	-	✗	
WL66	67.30 mm 2.650 inch	-	✗	
WL76	77.30 mm 3.043 inch	-	✗	

### Reaming Shells for Directional Drilling

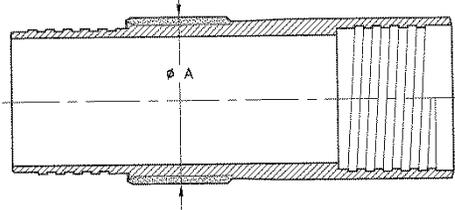
Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		

DeviDrill WL76 (N-Devico)	75.50 mm 2.972 inch	-	✗	
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### Miscellaneous Reaming Shells

Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
LTK48	48.00 mm 1.890 inch	-	✗	
LTK60	60.00 mm 2.362 inch	-	✗	
NMLC	75.69 mm 2.980 inch	77.01 mm 3.032 inch	✗	
ATK34 (AW34)	48.00 mm 1.890 inch	-	✗	
JKT48	48.00 mm 1.890 inch	-	✗	
NWD4	75.69 mm 2.980 inch	77.01 mm 3.032 inch	✗	
Geobor-S	146.40 mm 5.764 inch	-	✓	

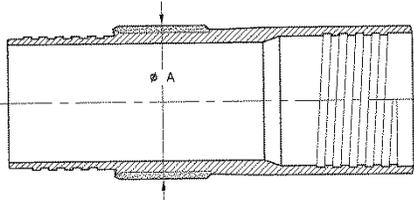
### I-Series Reaming Shells

Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
IEW	37.72 mm 1.485 inch	-	✗	
IEWS	37.72 mm 1.485 inch	-	✗	
IAW	48.00 mm 1.890 inch	-	✗	
IAWS	48.00 mm 1.890 inch	-	✗	

### Backend Reamers

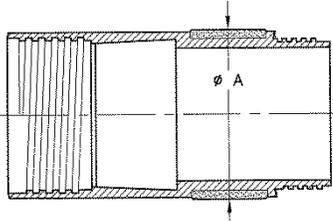
Used in place of an Adapter Coupling in a wireline core barrel system

	Nominal Dimensions (See Note 1)	Hard-Metal	Product Configuration
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Backend Reamer Sizes	Ø A (Standard)	Ø A (Oversize)	Strips Available? (See Note 3)	
NWL	75.69 mm 2.980 inch	77.01 mm 3.032 inch	✓	
HWL	96.06 mm 3.782 inch	97.28 mm 3.830 inch	✓	

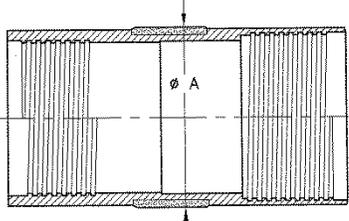
## B-Series Metric Reaming Shells

As per the ISO 3552-1 standard

Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
B36	36.30 mm 1.429 inch	-	✗	
B46	46.30 mm 1.823 inch	-	✗	
B56	56.30 mm 2.217 inch	-	✗	
B66	66.30 mm 2.610 inch	-	✗	
B76	76.30 mm 3.004 inch	-	✗	
B86	86.30 mm 3.398 inch	-	✗	
B101	101.30 mm 3.988 inch	-	✗	
B116	116.30 mm 4.579 inch	-	✗	
B131	131.30 mm 5.169 inch	-	✗	
B146	146.30 mm 5.760 inch	-	✗	

## WG-Series Reaming Shells

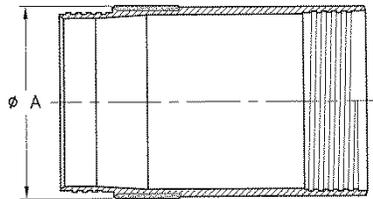
For use with double tube or single tube core barrels

Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
EWG ▲	37.72 mm 1.485 inch	-	✗	
AWG ▲	48.00 mm 1.890 inch	-	✗	
BWG ▲	59.94 mm 2.360 inch	-	✗	
NWG ▲	75.69 mm 2.980 inch	-	✗	

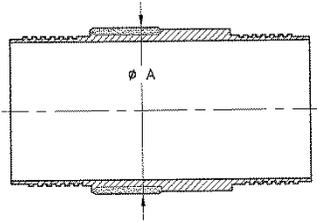
<b>HWG ▲</b>	99.24 mm 3.907 inch	-	<b>×</b>	
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▲ There are physical and dimensional differences between the double tube and single tube designs. When ordering, please specify whether the double tube or single tube type is required.

### WF-Series Reaming Shells

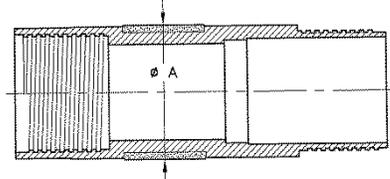
Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
<b>HWF</b>	99.24 mm 3.907 inch	-	✓	
<b>PWF</b>	120.60 mm 4.748 inch	-	✓	
<b>SWF</b>	146.00 mm 5.748 inch	-	✓	

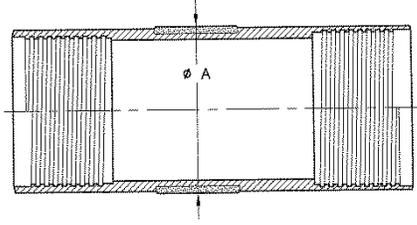
### WM-Series Reaming Shells

Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
<b>EWM</b>	37.72 mm 1.485 inch	-	×	
<b>AWM</b>	48.00 mm 1.890 inch	-	×	
<b>BWM</b>	59.94 mm 2.360 inch	-	×	
<b>NWM</b>	75.69 mm 2.980 inch	-	×	

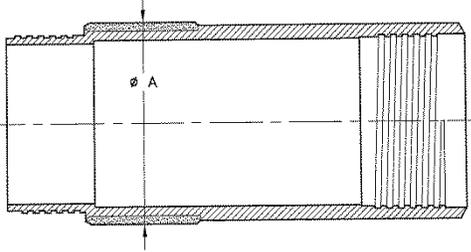
### WT-Series Reaming Shells

For use with double tube core barrels

Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
<b>EWT (EXT)</b>	37.72 mm 1.485 inch	-	×	
<b>AWT (AXT)</b>	48.00 mm 1.890 inch	-	×	

<b>BWT</b>	59.94 mm 2.360 inch	-	✗	
<b>NWT</b>	75.69 mm 2.980 inch	-	✗	
<b>HWT</b>	99.24 mm 3.907 inch	-	✗	

### Reaming Shells for Large Diameter DCDMA Core Barrels

Reaming Shell Sizes	Nominal Dimensions (See Note 1)		Hard-Metal Strips Available? (See Note 3)	Product Configuration
	Ø A (Standard)	Ø A (Oversize)		
<b>2-3/4 x 3-7/8</b>	98.42 mm 3.875 inch	-	✓	
<b>4 x 5-1/2</b>	139.57 mm 5.495 inch	-	✓	
<b>6 x 7-3/4</b>	196.85 mm 7.750 inch	-	✓	

Revision 4

Document Release Date: March 12, 2013 ~ Reviewed: June 24, 2019

The technical application data in this document is intended as a basic guideline for the selection of the appropriate tools for your job. As drilling conditions and the capabilities of drilling equipment vary considerably from site to site, it is impossible to define absolute parameters for the application of our drilling tools. Some experimentation on the part of the end user may be required as parameters outside of those recommended in Dimatec's product literature may be applicable. Every effort has been made to ensure the accuracy of the data contained in this document. Dimatec Inc. cannot accept any liability due to errors or omissions in the data that we provide. Dimatec Inc. is constantly working to improve our products and therefore reserve the right to make changes to materials, specifications, prices and technical data without prior notice.

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