



DIAMOND DRILLING PRODUCTS

EHWA

For drillers who demand the Best

EHWA Diamond Industrial Co. Ltd has developed Drilling Tools to achieve maximum performance for all drilling applications.



EHWA DRILLING PRODUCTS



Impregnated Core bits



Reaming shells



Casing shoes



Diamond blades
for cutting core samples

Core Bit RPM & Water Flow Chart

Core Bit Size	RPM Range	Optimum RPM	Suggested Water Flow (GPM)
A	1500 – 1700	1600	4 – 5
B	1200 – 1450	1350	8 – 10
N	900 – 1200	1100	10 – 12
H	750 – 950	850	13 – 16
P	600 – 750	650	20 – 22



Impregnated Core Bit Dimension Chart Standard & RSG Gauge

Bit Description	Set Bit Dimensions (+/- .005)				Reaming Shell Dimensions (+/- .005) Outside Diameter	
	Outside Diameter		Inside Diameter			
	Inches	mm	Inches	mm	Inches	mm
AO	1.875	47.6	1.062	27.0	1.890	48.0
BO	2.345	59.6	1.433	36.4	2.360	59.9
NO-3	2.965	75.3	1.775	45.1	2.980	75.7
NO	2.965	75.3	1.875	47.6	2.980	75.7
NO-2	2.965	75.3	1.995	50.7	2.980	75.7
NO-2 Oversize	3.032	77.0	1.995	50.7	3.032	77.0
HO-3	3.763	95.6	2.406	61.1	3.783	96.1
HO-3 Oversize	3.830	97.3	2.406	61.1	3.830	97.3
HO	3.763	95.6	2.500	63.5	3.783	96.1
HO-Oversize	3.830	97.3	2.500	63.5	3.830	97.3
HO-Oversize	3.850	97.8	2.500	63.5	3.850	97.8
PO-3	4.805	122.0	3.270	83.1	4.828	122.6
PO	4.805	122.0	3.345	85.0	4.828	122.6

* Other sizes are available upon request

MINING CORE BITS

EXPLORER SERIES

The Explorer Series of Impregnated Core Bits is a unique blend of components and ultra high quality diamonds designed for the most demanding drilling applications. Each core bit is manufactured under controlled conditions to ensure consistency and repeatability. The Explorer Series provides a variety of matrices for all rock formations.

Water way configuration

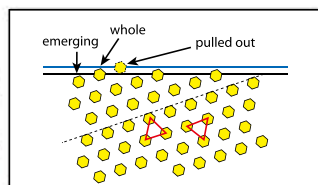




EHWA offers bits for all drilling applications. It has a standard diamond depth of 13mm, controlled distribution of diamond, a pre-conditioned matrix for reduced break-in time, advanced engineered waterways for enhanced flow, and precise placement of natural diamonds, TC pads, and TSP diamond for ID and OD wear protection.

ZENESIS®

Zenesis is a platform technology that brings to life dramatic improvement in diamond tool performance by its ability to custom design and mass produce optimal patterns of diamonds based on application needs.



- Delivers optimally customized patterns of diamonds for specific applications.
- Maximizes product consistency.
- Significantly improves both cutting speed and life.
- Enables cost-effective mass production.
- Protected by patented technologies.





CORE CUTTING BLADES

- **Application:** Core Samples
- **Equipment:** Table Saw, Bridge Saw

Diameter	Length	Thickness	Height	Max. Operating speed
12" (300)	40	2.8 / 3.2	10 / 12	63m/s
14" (350)	40	2.8 / 3.2		
16" (400)	40	3.2		
18" (450)	40	3.2		

* Other sizes are available upon request

Standard size

The Explorer Series, available in both standard sizes (DCDMA) and oversize, is manufactured with high grade diamonds in high concentrations for severe applications. 0.250" diamond depth, select grade natural diamonds and precision set wear pads guarantee OD and ID gauge protection.

- **Available sizes:** BW, NW, HW, PW

Oversize

The Explorer Oversize Casing Shoe is designed for use with Wire Line Casing Advancers. (0.315" diamond depth)

- **Available sizes :** NW and HW.
- **Set sizes are as follows:**
 - NW OD 3.875" x 2.992"
 - HW OD 4.875" x 3.975"



CASING SHOES

REAMING SHELLS



EHWA's Heavy Duty Grade Reaming Shells are manufactured with an engineered abrasive resistance matrix. Additional features include premium grade natural diamonds, carbide wear pads and TSP's, precision set for maximum wear.

Standard size

- **Available sizes:** B, N, H, P

Oversize

- **Available sizes:** N-3.032", H-3.830", 3.850" P-4.900"



EHWA series selection chart

Hardness	Soft	Medium	Medium hard	Hard	Extremely Hard	
Zenesis	#2	#4	#6	#8	#10	
Explorer	1	2	3	4	5	6
Rock formation	Claystone	Dolomite	Basalt	Pegmatite	Jasterite	
	Calcite	Schist	Diorite	Gneiss	Rhyolite	
	Sandstone	Peridotite	Quartz	Granite	Quartzite	
	Serpentine	Barite	Volcanics	Porphyry	Chert	
	Series comparison					
	1-3	4-5	6-7	8-10	11-12	13-15

Abrasive

Competent





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