



DIAMOND SEGMENTS

Matched to your material.
Engineered for your tool.



STONE SAW BLADES / CORE BITS / GANG SAWS

Seven application-focused systems for professional retipping and diamond tool manufacturing.

PRODUCT RANGE

Start with the material. Match the tool.

Choose the product family first. Then match segment dimensions, bond, diamond distribution and geometry to the machine and production target.

Material / application	Tool platform	Product code	Page
Granite	Circular blade / block saw	ALK-SEG-GRA-SAW	03
Marble / soft natural stone	Circular blade / block saw	ALK-SEG-MAR-SAW	04
Quartzite	Bridge saw; straight cutting	ALK-SEG-QTZ-BRG	05
Concrete / reinforced concrete	Core bit	ALK-SEG-CB-CON	06
Granite / marble / engineered stone	Stone core bit	ALK-SEG-CB-GRA-PRE	07
Black / selected granite	Diamond gang saw / frame saw	ALK-SEG-GS-GRA	08
Marble / limestone / travertine	Gang saw / frame saw	ALK-SEG-GS-MAR	09

03

Saw blade systems

Bridge saw, slab cutting and block processing.

02

Core bit systems

Construction coring and stone fabrication drilling.

02

Gang saw systems

Thin-blade, block-to-slab production.

Reference specification policy

Sizes in this catalog are typical reference configurations. Width, height, segment quantity and attachment process must be matched to the actual tool. Custom options are application dependent.

STONE SAW BLADE SEGMENTS

Granite Saw Blade Diamond Segments

ALK-SEG-GRA-SAW



A complete granite platform, from bridge saw fabrication to large-diameter and jumbo block cutting.

COVERAGE

Approx. 300-3500mm blade diameter; wet cutting.

FORMULA

G1 hard granite / G2 medium granite / G3 abrasive granite.

GRADES

Standard / Premium / Supreme. Professional brazing or matched OEM attachment.

Blade diameter (mm)	Typical length x width (mm)	Height options (mm)
300	40 × 3.0mm	10 / 12 / 15 / 20
350	40 × 3.2mm	10 / 12 / 15 / 20
400	40 × 3.6mm	10 / 12 / 15 / 20
450	40 × 4.0mm	10 / 12 / 15 / 20
500	40 × 4.2mm	10 / 12 / 15 / 20
600	40 × 4.6-5.0mm	10 / 12 / 15 / 20
700	40 × 5.2mm	10 / 12 / 15 / 20
800	40 × 6.0mm	10 / 12 / 15 / 20
900	24 × 7.0/6.4mm	15 / 20
1000	24 × 7.0-7.5/6.4-6.5mm	15 / 20
1200	24 × 7.8/7.0mm	15 / 20
1400	24 × 8.4/7.6-8.0mm	15 / 20
1600	24 × 9.2/8.4mm	15 / 20
1800	24 × 10.0/9.0-9.2mm	15 / 20
2000	24 × 10.5-10.6/9.5-9.8mm	15 / 20
2200	24 × 11.0-11.5/10.0-10.5mm	15 / 20
2500	24/30 × ~12/11mm	20 / 25 / 30
2700	24/30 × ~12.5/11.5mm	20 / 25 / 30
3000	24/30 × ~12.5/11.5mm	20 / 25 / 30
3500	24/30 × ~13.5/12.5mm	20 / 25 / 30

Bridge saw: 40mm typical length. Large diameter: tapered widths. Jumbo widths marked ~ are approximate; confirm against the core and machine.

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Reference dimensions; final specification by application.

STONE SAW BLADE SEGMENTS

Marble Saw Blade Diamond Segments

ALK-SEG-MAR-SAW



Material-specific systems for marble, limestone, travertine and onyx, designed around sharp cutting and controlled edge quality.

COVERAGE

Approx. 250-3500mm blade diameter; wet cutting.

CONSTRUCTION

Flat, sandwich, layered, patterned, W-top, tapered and custom designs.

GRADES

Standard / Premium / Supreme; professional high-frequency brazing or OEM process.

Blade dia. (mm)	Typical L x W (mm)	Height (mm)	Typical qty.
250	40 × 2.6-2.8	8 / 10 / 12	16-17
300	40 × 2.8-3.0	8 / 10 / 12	21-22
350	40 × 3.0-3.2	8 / 10 / 12	24-25
400	40 × 3.4-3.6	8 / 10 / 12	28-29
450	40 × 3.8-4.2	8 / 10 / 12	32
500	40 × 4.0-4.2	8 / 10 / 12	32-36
600	40 × 4.6-4.8	8 / 10 / 12	42
700	40 × 5.0-5.2	8 / 10 / 12	42-50
800	40 × 5.5-6.0	8 / 10 / 12	46-57
900	24 × 6.5-7.5	8 / 10 / 12	64
1000	24 × 7.0-7.5	8 / 10 / 12	70
1200	24 × 7.5-8.5	8 / 10 / 12	80
1400	24 × 8.5-9.0	10 / 12 / 15	92-96
1600	24 × 9.0-9.6	10 / 12 / 15 / 20	104-108
1800	24 × 9.5-10.0	10 / 12 / 15 / 20	120
2000	24 × 10.5-11.0	10 / 12 / 15 / 20	128
2200	24 × 11.0 approx.	12 / 15 / 20	132
2500	24 × 11.0-12.5	12 / 15 / 20	140
3000	24 × 11.5-13.0	12 / 15 / 20	160
3500	24 × 12.0-12.5	12 / 15 / 20	180

250-800mm: bridge saw / slab cutting. 900-3500mm: block cutting. Dimensions and quantities are reference values; match the core and machine.

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Reference dimensions; final specification by application.

STONE SAW BLADE SEGMENTS

Quartzite Bridge Saw Diamond Segments

ALK-SEG-QTZ-BRG



A dedicated quartzite system for demanding slab fabrication and sustained diamond exposure.

COVERAGE

Approx. 250-600mm; primary sizes 350 / 400 / 450mm.

HEIGHT

15 / 20mm; 20mm recommended standard for straight cutting.

OPERATION

Wet cutting. Premium / Supreme; patterned or precision diamond distribution.

Blade Diameter	Typical Segment L × W	Recommended Height
250mm / 10 in	40 × ~3.0mm	15 / 20mm
300mm / 12 in	40 × ~3.2mm	15 / 20mm
350mm / 14 in	40 × 3.2-3.3mm	15 / 20mm
400mm / 16 in	40 × 3.3-3.4mm	15 / 20mm
450mm / 18 in	40 × ~3.6mm	15 / 20mm
500mm / 20 in	40 × ~3.6mm	15 / 20mm
600mm / 24 in	40 × ~4.0mm	15 / 20mm

QUARTZITE FORMULAS

- Q1 Hard quartzite: balanced speed and life.
- Q2 Extreme quartzite: faster exposure for difficult slabs.
- Q3 Clean edge: cutting control and reduced chipping.

Standard configurations are positioned for straight cutting. Evaluate miter cutting and other specialty applications separately. Final width must match core thickness and side clearance.

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Reference dimensions; final specification by application.

CORE BIT SEGMENTS

Concrete & Reinforced Concrete Core Bit Diamond Segments

ALK-SEG-CB-CON



Replacement and OEM segments matched to concrete, aggregate hardness, reinforcement and drill power.

COVERAGE

Approx. 25-300mm standard platform; larger sizes by request.

HEIGHT

9 / 10 / 12mm standard; 15mm custom option.

OPERATION

Wet drilling as standard. Selected dry formulas by request; brazing / laser welding is application dependent.

Core Bit Diameter	Typical Segment Length	Typical Width Range	Height Options
25-52mm	20-23mm	~3.0-3.5mm	9 / 10mm
62-82mm	23-24mm	~3.5-4.0mm	9 / 10 / 12mm
92-127mm	23-24mm	~3.8-4.0mm	9 / 10 / 12mm
132-182mm	24mm	~3.8-4.2mm	10 / 12mm
200-250mm	24mm	~4.0-4.5mm	10 / 12mm
300mm+	Custom	Custom	10 / 12 / Custom

APPLICATION FORMULAS

C1 General concrete / C2 Regular reinforcement
C3 Heavy reinforcement / C4 Hard aggregate

Geometry: Flat, roof-top, turbo, turbo-roof, dimpled, patterned and precision options. Match segment quantity and width to the barrel design and required clearance.

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Reference dimensions; final specification by application.

CORE BIT SEGMENTS

Stone Core Bit Diamond Segments

ALK-SEG-CB-GRA-PRE



Granite configuration shown.

Stone-specific formulas for granite, marble and engineered stone, selected around drilling speed and hole-edge quality.

COVERAGE

Approx. 20-200mm standard; custom diameters up to approx. 600mm.

HEIGHT

7 / 8 / 10mm; 8mm balanced standard.

OPERATION

Wet drilling recommended. Selected dry formulas and compatible equipment; brazing / laser welding as specified.

Core Bit Diameter	Typical Segment Length	Typical Width	Height Options
20-25mm	14-20mm	~3.0mm	7 / 8 / 10mm
28-38mm	14-20mm	~3.0-3.2mm	7 / 8 / 10mm
42-55mm	20-24mm	~3.5mm	7 / 8 / 10mm
60-92mm	24mm	~3.5mm	7 / 8 / 10mm
102-168mm	24mm	~4.0mm	7 / 8 / 10mm
180-273mm	24mm	~4.5mm	7 / 8 / 10mm
300-600mm	24mm	~5.0mm	7 / 8 / 10mm / Custom

MATERIAL FORMULAS

- S1 Granite / hard natural stone
- S2 Marble / limestone / travertine
- S3 Quartz / engineered stone / artificial stone

Standard / Premium / Supreme grades are separate from the S1-S3 material formula. Final width and quantity depend on barrel diameter, wall thickness and side clearance.

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Reference dimensions; final specification by application.

GANG SAW SEGMENTS

Granite Gang Saw Diamond Segments

ALK-SEG-GS-GRA



Specialized tapered segments for black granite and selected granite suitable for diamond frame-saw production.

BLADE PLATFORM

Approx. 2.5 / 3.0 / 3.5 / 4.0mm blade thickness.

SEGMENT CONFIGURATION

20mm typical length; 8 / 10mm height; approx. 25-32 pieces per blade.

OPERATION

Wet cutting; Premium / Supreme. Professional high-frequency brazing.

Gang Saw Blade Thickness	Recommended Segment Size	Height Options	Position
2.5mm	20 × 4.2/3.7 × 8mm	8 / 10mm	Thin blade
3.0mm	20 × 4.5/4.0 × 8mm	8 / 10mm	Standard
3.5mm	20 × 5.0/4.5 × 8mm	8 / 10mm	Heavy duty
4.0mm	20 × 5.5/5.0 × 8mm	8 / 10mm	Selected machines

GRANITE FRAME-SAW FORMULAS

- GG1 Black granite: sharpness and stable exposure.
- GG2 Medium-hard granite: balanced speed and life.
- GG3 Difficult granite: application review required.

Tapered, sandwich and custom constructions. Match width, segment spacing and quantity to blade thickness, blade length, machine stroke and the stone being processed.

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Reference dimensions; final specification by application.

GANG SAW SEGMENTS

Marble Gang Saw Diamond Segments

ALK-SEG-GS-MAR



Thin-kerf systems for marble, limestone and travertine block-to-slab production.

BLADE PLATFORM

Approx. 2.0-4.0mm blade thickness; 20mm typical segment length.

HEIGHT & CONSTRUCTION

8 / 10mm standard; custom 7-11mm. Single-layer, 3-layer sandwich or multi-layer.

OPERATION

Wet cutting. Standard / Premium / Supreme; professional brazing.

Steel Blade Thickness	Recommended Segment Size	Height Options	Positioning
2.0mm	20 × 3.7/3.2mm	7 / 8 / 10mm	Ultra-thin kerf
2.5mm	20 × 4.2/3.7mm	8 / 10mm	Standard thin blade
3.0mm	20 × 4.5-5.0/4.0-4.5mm	8 / 10mm	Main professional range
3.5mm	20 × 5.2-5.4/4.8mm	8 / 10mm	Heavy-duty frame
4.0mm	20 × 5.5/5.0mm	8 / 10mm	Selected machines

MARBLE FRAME-SAW FORMULAS

- MG1 Soft / abrasive marble and travertine.
- MG2 General marble: speed, life and surface finish.
- MG3 Dense / hard marble: sharpness and lower cutting pressure.

Typical segment quantity: Approx. 14-37 pieces per blade across reference blade lengths of 2000-4500mm. Final quantity depends on blade length, stroke and spacing.

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Reference dimensions; final specification by application.

SPECIFICATION MATCHING

Build the specification around the application.

01 MATERIAL

Identify the stone type and origin, or the concrete aggregate and reinforcement level. Include photos or samples when available.

02 TOOL

Provide blade or core bit diameter, steel core or barrel thickness, existing segment dimensions and segment quantity. For gang saws, include blade length.

03 MACHINE

Provide the machine model and power, cutting depth, feed conditions and cooling method. Confirm the intended attachment process.

04 PERFORMANCE

Choose the priority: speed, usable life, edge quality, slab finish or balanced production. Describe current wear or cutting problems.

Performance grade	Positioning
Standard	Dependable application performance and cost control.
Premium	Higher-grade diamond and optimized segment structure.
Supreme	Precision diamond placement or advanced, application-specific formulations.

Available grades vary by product. Segment height alone does not define quality grade. Match formula, geometry and diamond system as a complete specification.

REQUEST A RECOMMENDATION

Tell us about your tool
and your material.

Complete the fields below and send them with tool photos or a dimensional drawing to info@alskardiamond.com.

Company / contact

Email / country

Tool type / product code

Material / stone origin

Tool diameter / blade length

Core or barrel wall thickness

Segment L x W x H

Segment quantity / spacing

Machine model / power

Wet or dry / cooling method

Current cutting performance

Performance target

Required quantity

Attachment process

SUPPORTING INFORMATION

Attach a clear product photo, a side profile and a dimensioned drawing if available. For gang saw systems, include blade thickness, blade length and machine stroke.



The right segment starts with the right information.

Material. Tool. Machine. Performance.



ALSKAR DIAMOND LLC

Professional diamond segments for retipping
and OEM tool manufacturing.

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Product information: alskardiamond.com/diamond-segments/

2026 edition | Prepared from Alskar product pages, 7 October 2026.
Reference specifications are subject to application matching and quotation confirmation.