

The Basics of Jewelry

by Stuller

TERMINOLOGY AND DESIGN GUIDE



STULLER

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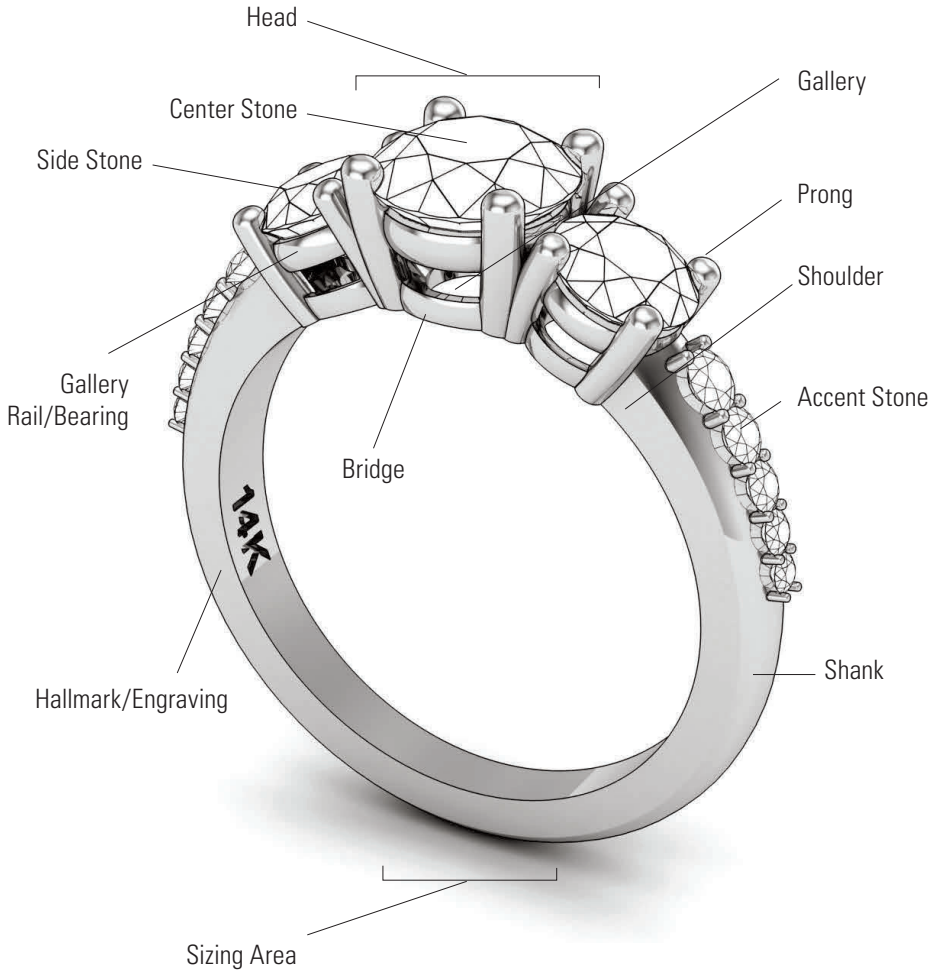
STULLER

RINGS

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THE ANATOMY OF A RING



RINGS | The Anatomy of a Ring



Top/Looking Down View



Through Finger View



Side View

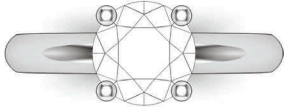
SHANK STYLES



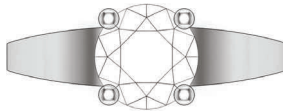
Traditional



Euro-Style



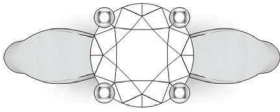
Straight



Tapered



Reverse Tapered



Pinched



Flair



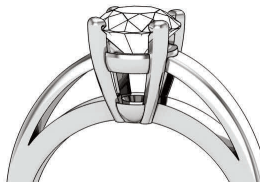
Bypass



Split

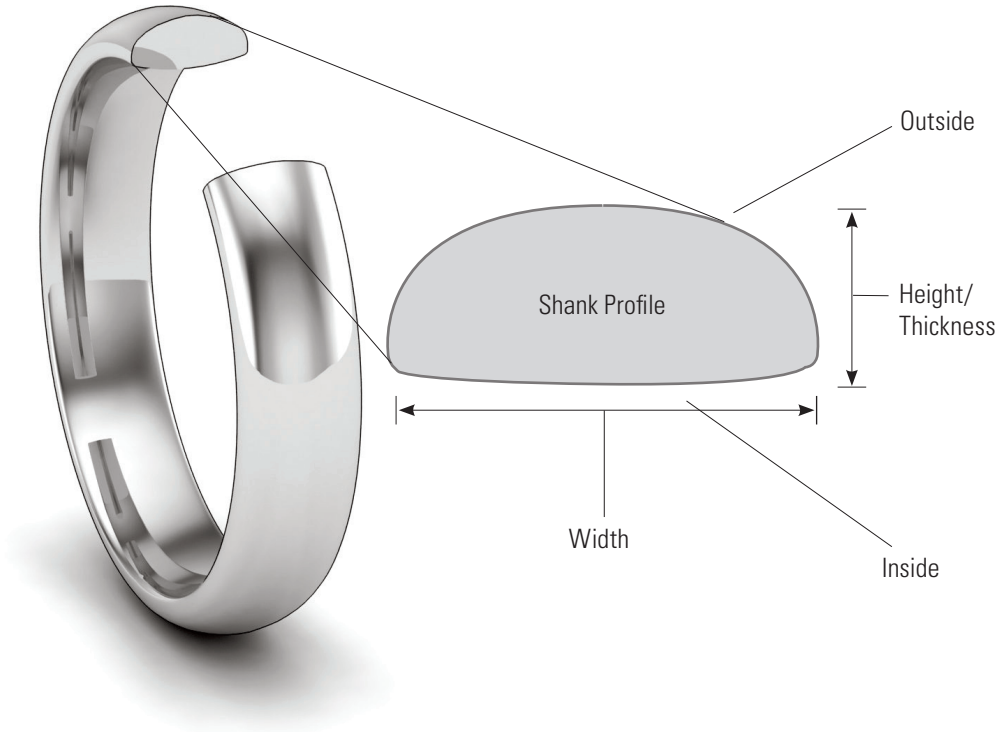


Freeform

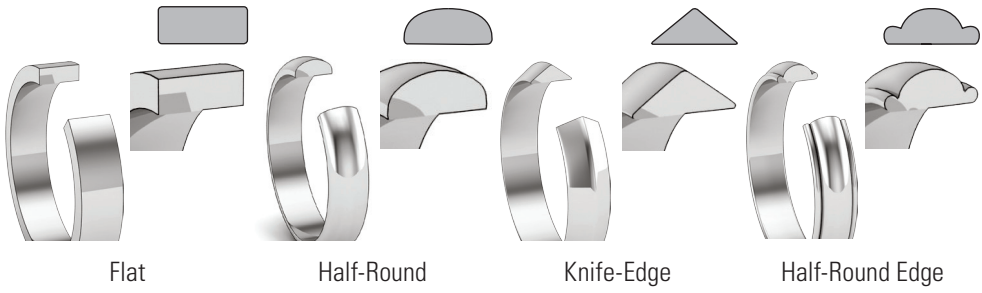


Cathedral

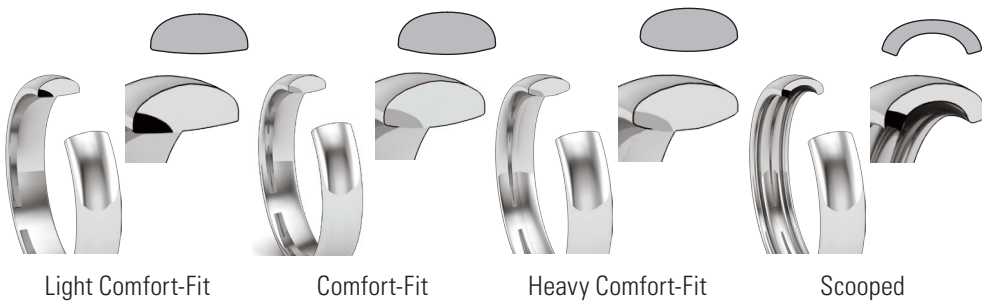
RING PROFILES



OUTSIDE PROFILES



INSIDE PROFILES



RING STYLES



Fashion



Halo



3-Stone



Promise



Semi-Mount



Award/Signet



Engagement



Solitaire



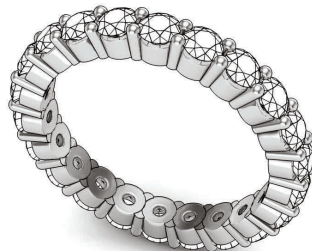
Bridal Set
(Engagement Ring and Wedding Band)



Wedding Band



Anniversary Band



Eternity Band



SHADOW BAND/NOTCHED BAND

A shadow band is masterfully crafted to shadow the engagement ring. The band is customized to perfectly accent the engagement ring so that no gap can be seen.

STRAIGHT BAND

A straight band is designed to complement and sit next to the engagement ring. One advantage of a straight band is that it can be worn independently from the engagement ring. A straight band can fit flush against the engagement ring. However, if the engagement ring has a center setting that prevents the band from sitting flush, a gap can be seen between the ring and band.



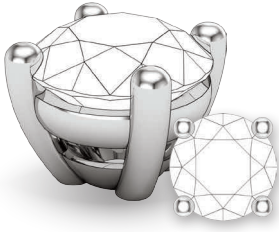
Straight Flush



Straight With Gap

PRONG STYLES

PRONG TYPES



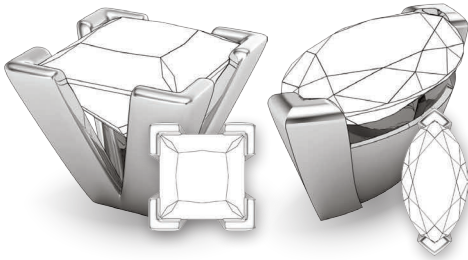
Single



Double



Triple



V-Prong/Chevron



Decorative Double

PRONG COUNT



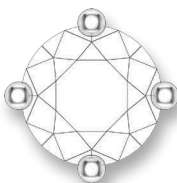
Four (Standard)



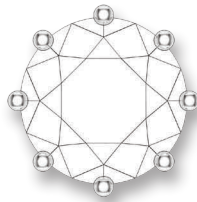
Six



Two (Vertical)



Four (Diagonal)



Eight

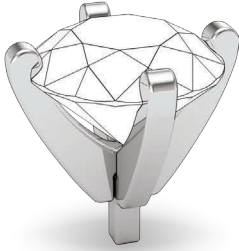


Two (Horizontal)

SETTING STYLES



Basket



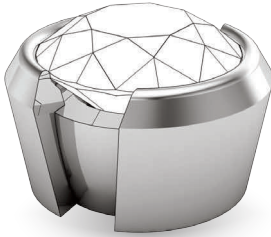
Peg Head



Decorative



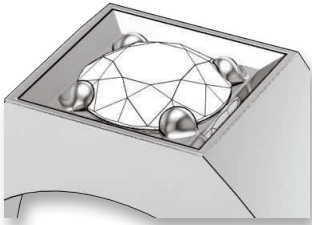
Bezel



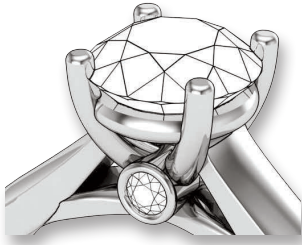
Half-Bezel



Bar/Channel



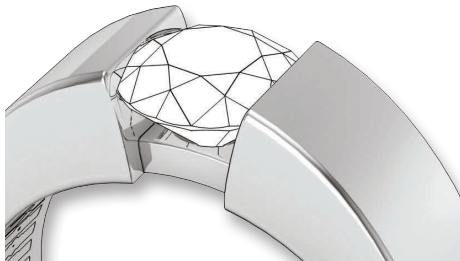
Bright-Cut



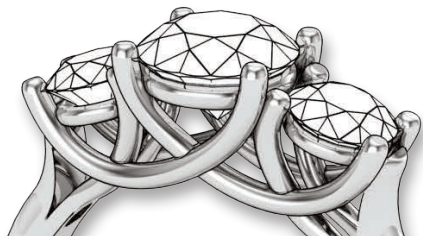
Bridge Accent



Illusion

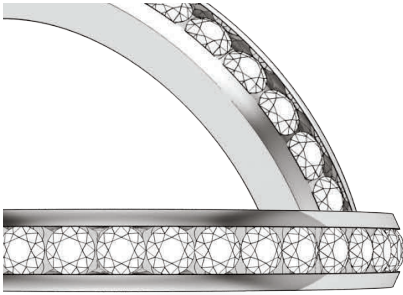


Channel

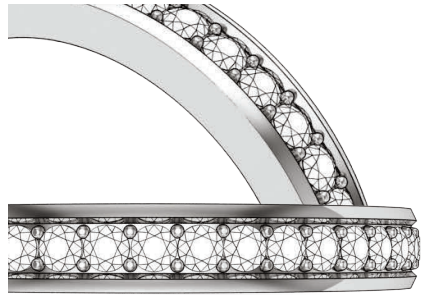


Trellis

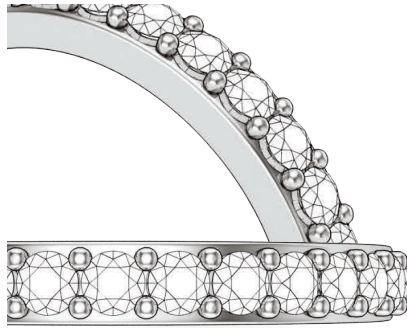
SETTING STYLES



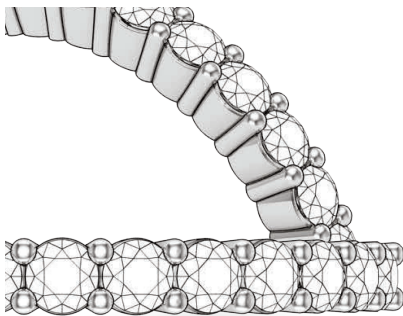
Channel



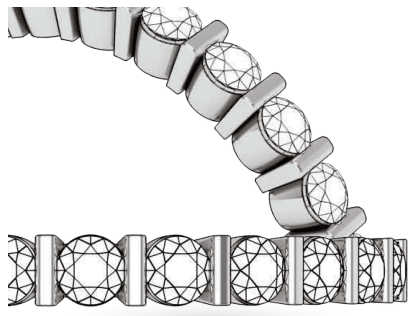
Bead and Bright-Cut/Pinpoint



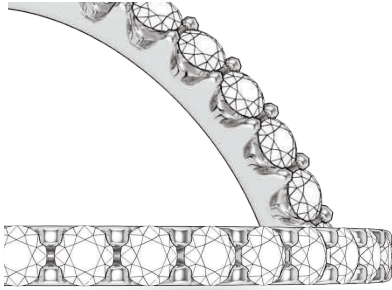
Surface Prong



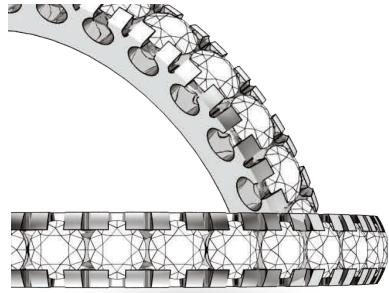
Shared Prong



Bar



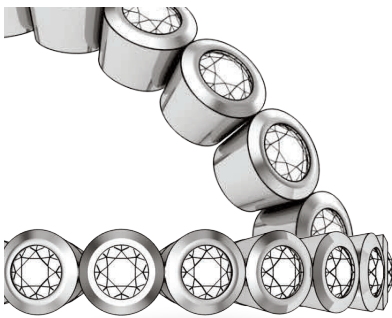
Scallop



Fishtail



Pavé



Bezel



Gypsy/Flush

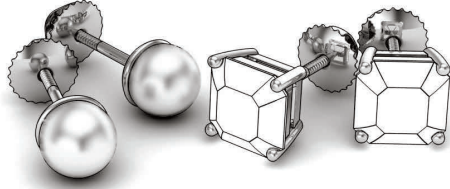
EARRINGS

23 Earring Styles

25 Earring Components



EARRING STYLES



Stud



Cluster



Jackets (with studs)



Drop

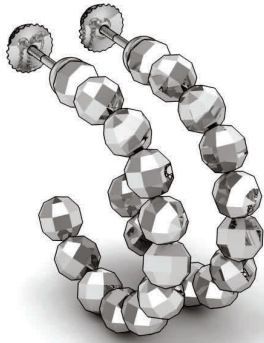


Dangle

EARRING STYLES



Chandelier



Hoops

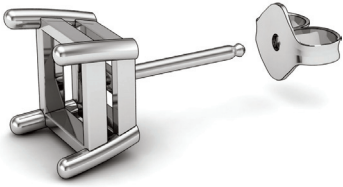


Hinged/Huggie

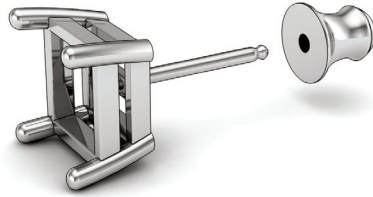


Ear Trim

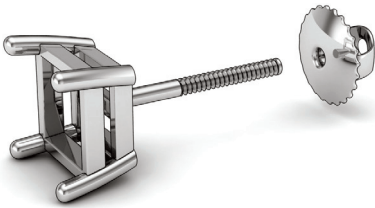
EARRING COMPONENTS



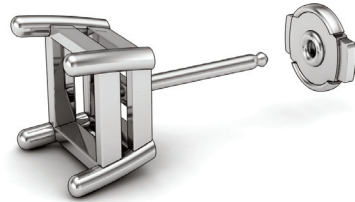
Friction Post/Tension Back



Friction Post/Clutch Back



Threaded Post/Threaded Back



Protector™ Post/Back



Omega Clip



Clip On



Lever Back



Hinged Earwire



Earwire/Shepherds Hook

NECKWEAR

- 29 Neckwear Styles
- 30 Bail Styles
- 31 Pendant Styles
- 32 Chain Styles
- 34 Clasp Assembly
- 35 Clasp Styles





Riviera



Chain



Pendant



Station



Lariat

NECKWEAR STYLES



Collar



Choker

BAIL STYLES



Standard



Rabbit Ear



Decorative

PENDANT STYLES



Pendant with Bail



Solitaire



Slide



Hidden Bail



Locket



Roundel/Rondelle

CHAIN STYLES

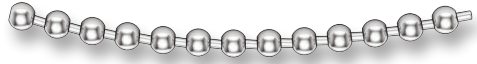
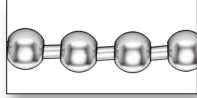
Anchor



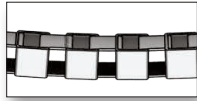
Byzantine



Bead/Ball



Box



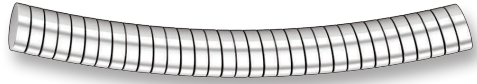
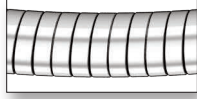
Cable



Cascade



Cocoon



Curb



Figaro



Foxtail



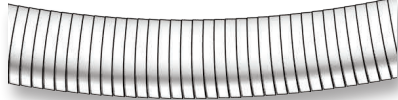
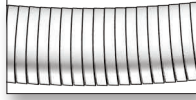
Herringbone



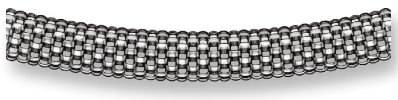
Leather Cord



Omega



Popcorn



Rolo



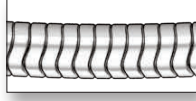
Rope



Serpentine



Snake



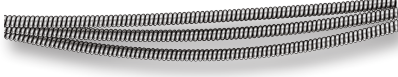
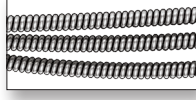
Snake with Bead



Singapore



Spiral



Wheat/Palma



CLASP ASSEMBLY



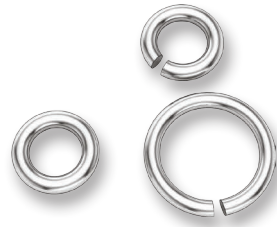
Chain Ends



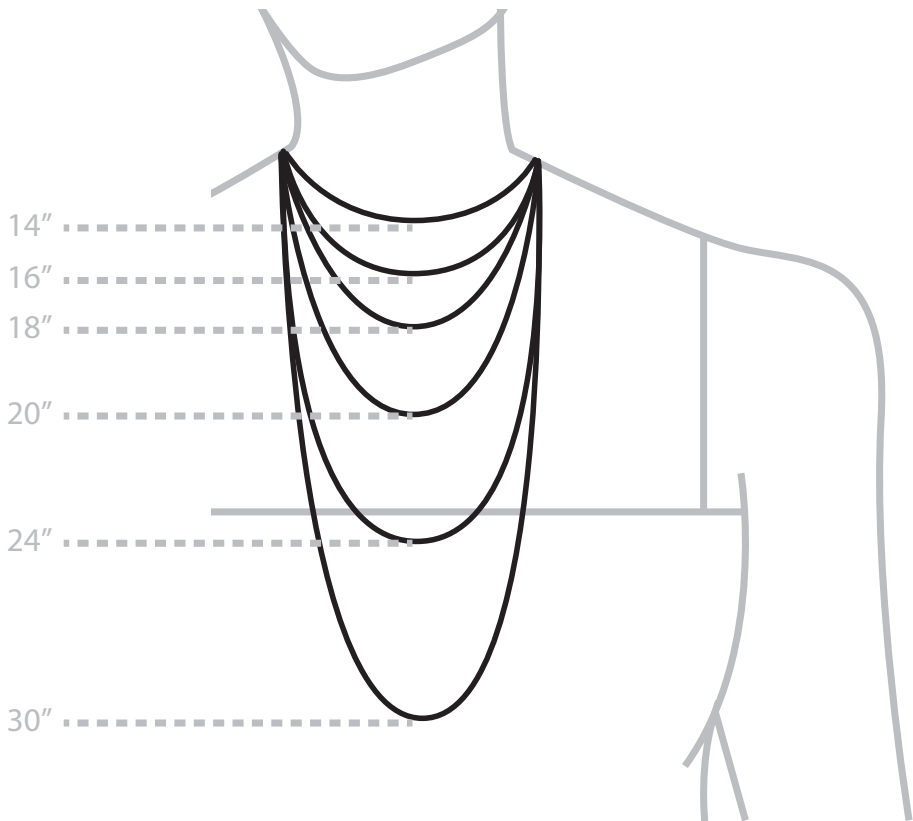
Chain Tags



Clasps



Jump Rings



CLASP STYLES



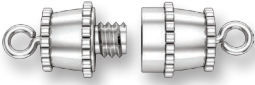
Spring Ring



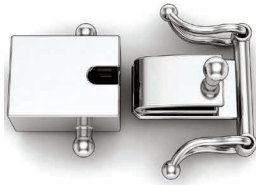
Lobster Claw



Bayonet



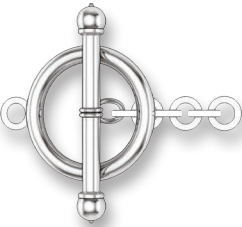
Barrel



Open Box



Figure 8 Safety



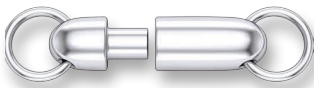
Toggle



S-Hook



Mystery



Magnetic



Pearl



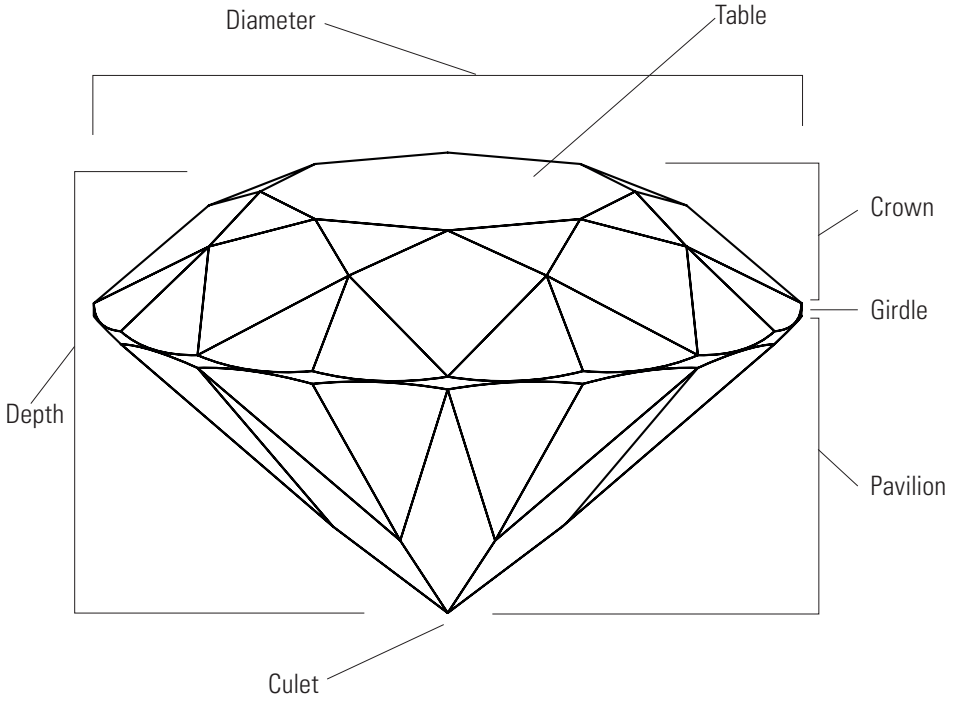
Bracelet Catch

DIAMONDS AND GEMSTONES

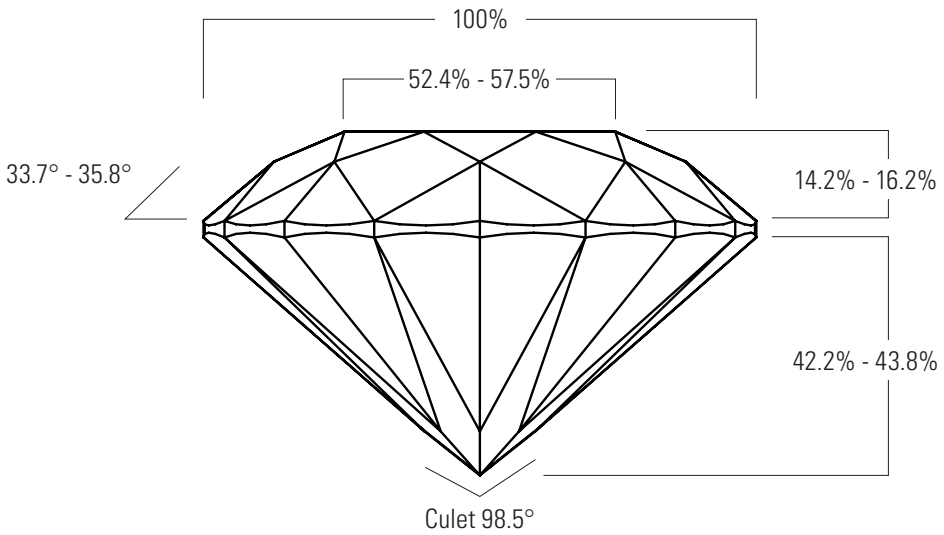
- 45 The Anatomy of a Diamond
- 45 Ideal Cut
- 46 The 4 Cs
- 48 Stone Shapes
- 50 Stone Cuts
- 52 Diamond Size Chart



THE ANATOMY OF A DIAMOND



AMERICAN GEMOLOGICAL SOCIETY (AGS®)
IDEAL CUT



GEMOLOGICAL INSTITUTE OF AMERICA (GIA®)
DIAMOND GRADING

COLOR

One factor that determines the value of a diamond is its color. With the exception of fancy-colored diamonds, the most valuable diamonds are those with the least color. Although many people think of gem quality diamonds as colorless, completely colorless diamonds are very rare. The diamond color scale ranges from D (colorless) to Z (light yellow or brown). A diamond's color is determined by a manual process of comparing the diamond to a master set. Each letter grade represents a range of color and is a measurement of how noticeable a color is.

When diamonds are formed with traces of other minerals, rare and beautiful colors can result. These "fancy" colors range from blue and brilliant yellow to red, brown, pale green, pink, and violet. Because of their rarity, colored diamonds are highly desirable and typically more valuable.

Color Grading Scale

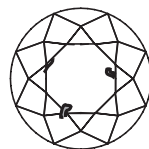
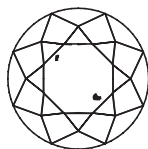
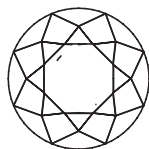
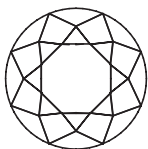
D E F	G H I J	K L M	N O P Q R	S T U V W X Y	Z+
colorless	nearly colorless	faint yellow	very light yellow	light yellow	fancy

CLARITY

A diamond's clarity is measured by the existence or absence of visible flaws. Tiny surface blemishes or internal inclusions, even those seen only under magnification, can alter the brilliance of the diamond and thus affect its value. Clarity levels begin with flawless (FL, IF), followed by very, very slight (VVS₁, VVS₂), very slight (VS₁, VS₂), slightly included (SI₁, SI₂), and included (I₁, I₂, and I₃).

Clarity Grading Scale

FL	VVS ₁	VVS ₂	VS ₁	VS ₂	SI ₁	SI ₂	I ₁	I ₂	I ₃
flawless no blemishes	very, very slightly included		very slightly included		slightly included		imperfect, eye visible		



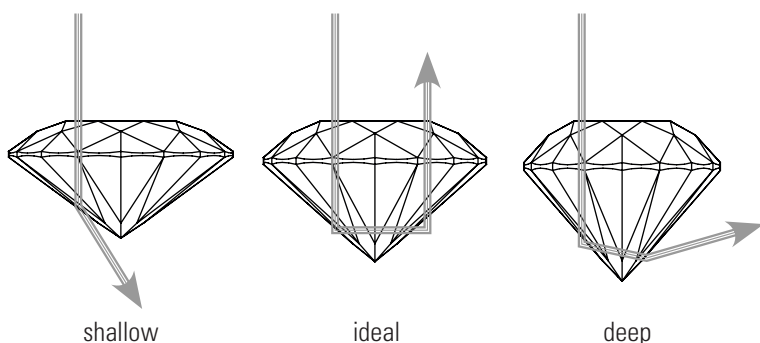
| visible under magnification only | | eye visible |

CUT

While cut does include shape, in terms of the 4 Cs it refers to the proportions of the cut. A diamond's cut grade is an objective measure of a diamond's light performance, or the amount of sparkle a diamond has.

A diamond's overall proportions, as well as the size and position of its facets, make up the cut. The consistency and balance of these can greatly affect how the stone captures light and reflects it back to the eye. When a diamond is cut with the proper proportions, light enters the diamond and is returned through the top of the diamond. If a diamond is too shallow, light will escape from the bottom of the stone. If it is cut too deep, light will escape out the sides.

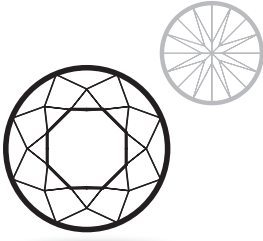
Studies have been conducted to find the optimum proportions of a diamond's cut so that it has the greatest amount of sparkle. If its cut falls within these parameters, it is considered an ideal cut. Diamonds with fine proportions, symmetry and polish optimize their interaction with light and have increased brilliance, dispersion, and scintillation.



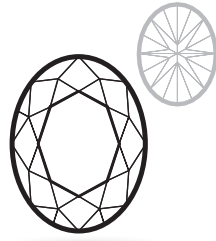
CARAT

Carat refers to a diamond's weight. One carat, the traditional unit of measurement for diamonds, is approximately 0.2 grams. You may also hear the weight of a diamond referred to in points. One carat is equivalent to 100 points, so a 75-point diamond is equal to 0.75 carats. Because they are rarer, larger diamonds have greater value per carat, so the price of a diamond rises exponentially to its size. (Refer to diamond size chart, page 52).

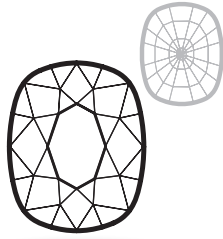
STONE SHAPES



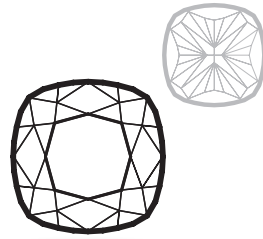
Round



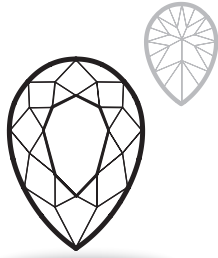
Oval



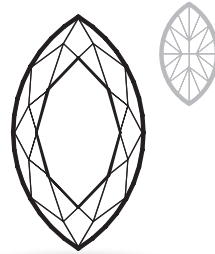
Cushion



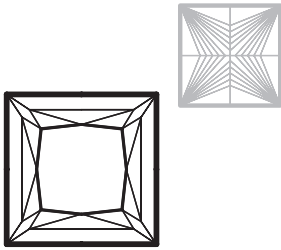
Square Cushion



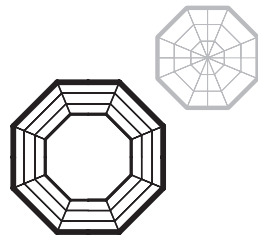
Pear



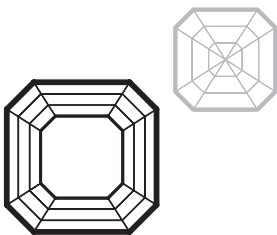
Marquise



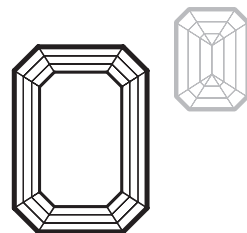
Square/Princess



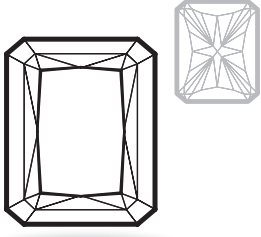
Octagonal



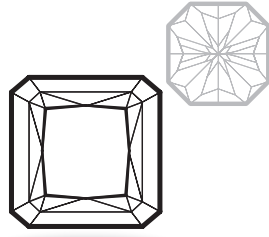
Asscher/Square Emerald



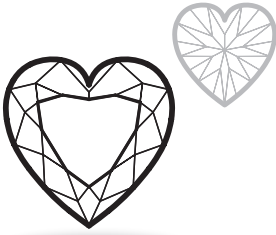
Emerald



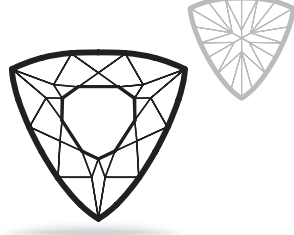
Radiant



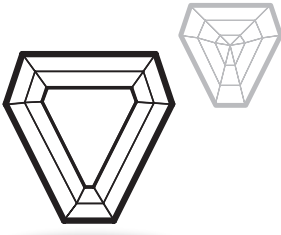
Square Radiant



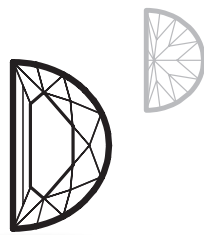
Heart



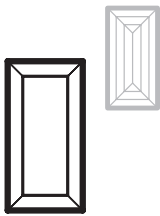
Trilliant/Trillion



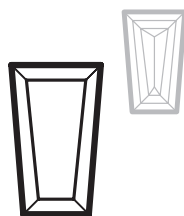
Shield/Calf



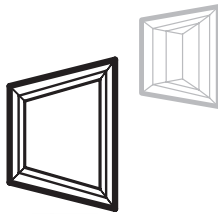
Half-Moon



Straight Baguette

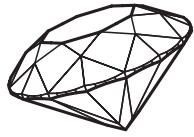


Tapered Baguette



Trapezoid

STONE CUTS



Brilliant



Side



Crown



Pavilion



Old European



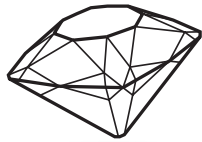
Side



Crown



Pavilion



Old Mine



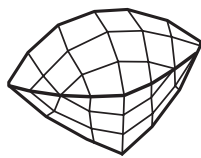
Side



Crown



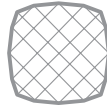
Pavilion



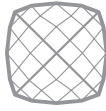
Checkerboard



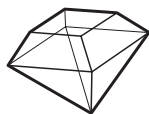
Side



Crown



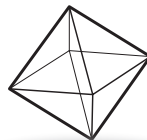
Pavilion



Table



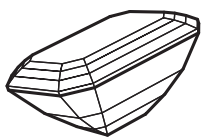
Crown



Point



Crown



Step



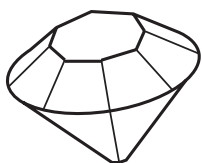
Side



Crown



Pavilion



Eight



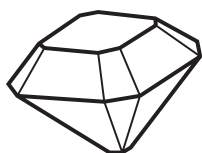
Side



Crown



Pavilion



Old Single



Side



Crown



Pavilion



Rose



Crown



Briolette



Crown



Cabochon



Crown



Bullet



Crown














































































Master gem cutters, mathematicians, scientists, and jewelers have been developing unique and proprietary cuts to draw the beauty out of gemstone material. Some gem cuts are created to maximize the sparkle, while other gem cuts are created to draw the viewer into the gemstone.

DIAMOND SIZE CHART

Diamonds illustrated to scale

carat weight		¼	½	¾	1.00	1¼	1½
ROUND	10						
	5 mm:	4.1	5.2	5.9	6.5	7.0	7.4
SQUARE	10						
	5 mm:	3.0	4.35	4.95	5.5	6.0	6.5
OVAL	10						
	5 mm:	5x3	6x4	6.5x4.5	7x5	7.5x5.5	8x6
MARQUISE	15						
	10 5 mm:	6x3	8x4	9x4.5	10x5	10.5x5.25	11x5.5
PEAR	15						
	10 5 mm:	5x3	6x4	7x5	8x5	8.5x5.5	9x6
CUSHION	10						
	5 mm:	3.4	4.35	4.95	5.5	6.0	6.5
EMERALD	10						
	5 mm:	5x3	6x4	6.5x4.5	7x5	7.5x5.5	8x6
ASSCHER	10						
	5 mm:	3.4	4.35	4.95	5.5	6.0	6.5
RADIANT	10						
	5 mm:	3.9	4.9	5.6	6.2	6.65	7.0
TRILLIANT	10						
	5 mm:	4.0	5.0	5.75	6.5	6.75	7.0
HEART	10						
	5 mm:	3.9	4.9	5.6	6.2	6.65	7.0

Diamonds illustrated to scale

carat weight	1¾	2.00	2¼	2½	2¾	3.00	4.00
ROUND							
	7.8	8.2	8.6	8.8	9.1	9.4	10.4
SQUARE							
	7.0	7.5	7.75	8.0	8.15	8.3	9.0
OVAL							
	8.25x6.25	8.5x6.5	8.75x6.75	9x7	9.5x7.5	10x8	11x9
MARQUISE							
	11.5x5.75	12x6	12.5x6.25	13x6.5	13.5x6.75	14x7	16x8
PEAR							
	9.5x6.5	10x7	10.5x7.25	11x7.5	11.5x7.75	12x8	14x9
CUSHION							
	7.0	7.5	7.75	8.0	8.15	8.3	9.0
EMERALD							
	8.25x6.25	8.5x6.5	8.75x6.75	9x7	9.5x7.5	10x8	11x9
ASSCHER							
	7.0	7.5	7.75	8.0	8.15	8.3	9.0
RADIANT							
	7.4	7.8	8.1	8.35	8.65	8.9	9.9
TRILLIANT							
	7.5	8.0	8.25	8.5	8.75	9.0	10.0
HEART							
	7.4	7.8	8.1	8.35	8.65	8.9	9.9

JEWELRY ATTRIBUTES

57 Design Details

58 Finishes

59 Levels of Finish

60 Jewelry Metal Types



DESIGN DETAILS



Engraving



Filigree



Milgrain



Pierced/Openwork



Carved



Enamel/Resin Inlay



Raised Text



Recessed Text



Inside Engraving

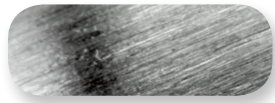
FINISHES



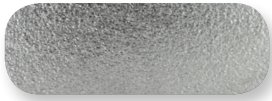
Bright Polished



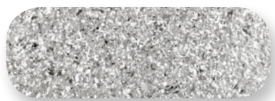
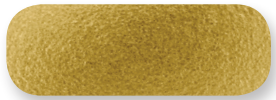
Semi-Polished



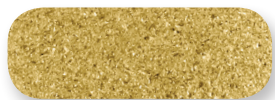
Satin/Brushed



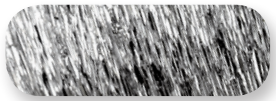
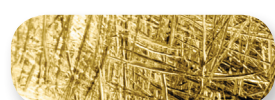
Bead Blast/Matte



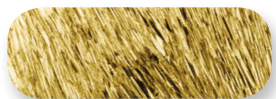
Glass Blast



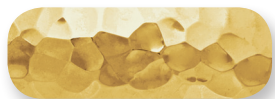
Ice



Stone



Hammered



Florentine

