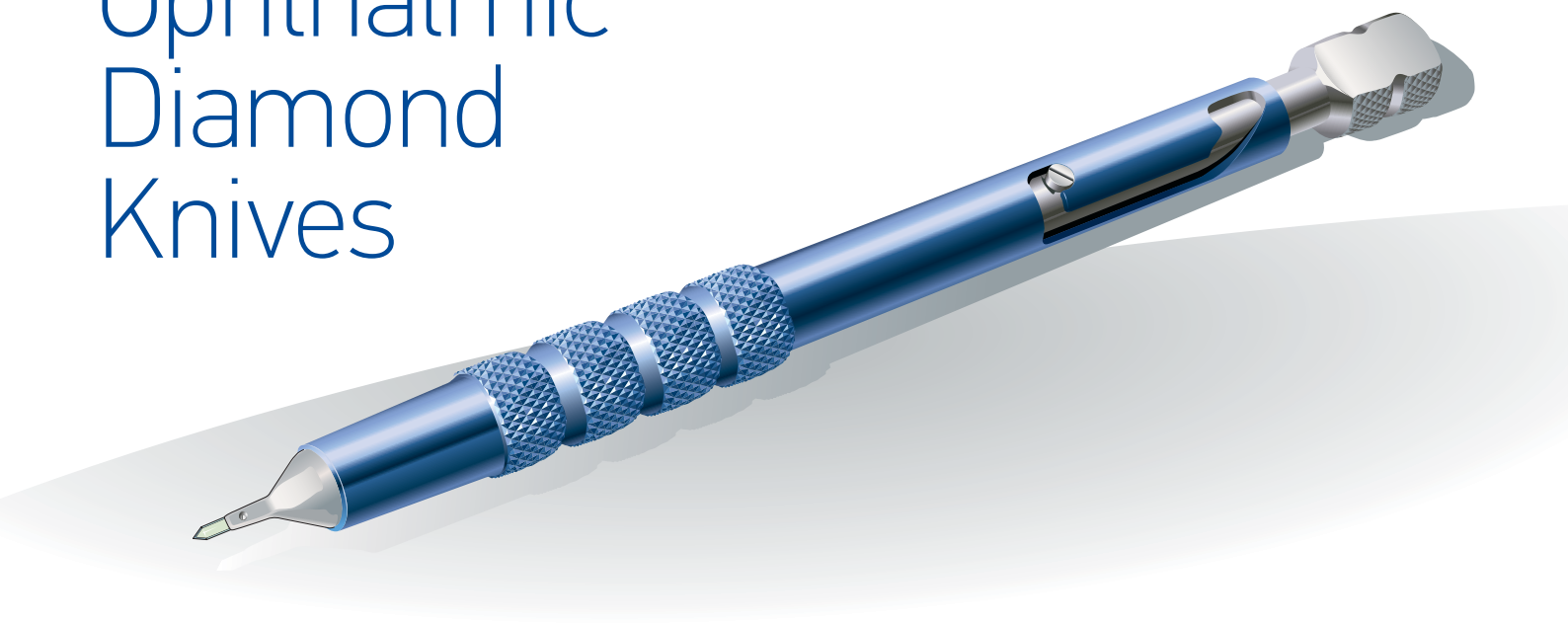
iCure

Ophthalmic Diamond Knives

Product catalogue

iCure specializes in the subcontract manufacture and repair of surgical diamond knives used primarily in ophthalmic surgery. Using a high-precision process, the company produces gem-quality diamond blades and knives for medical instrument manufacturers and suppliers from around the world to serve the direct needs of ophthalmic surgeons. iCure's diamond blades are also extensively used in plastic, cardio and vascular surgery.

Ophthalmic Diamond Knives



Diamond-Created Blades

To create these top-quality instruments, we select only high valued gem-quality flawless diamonds with stable and predictable properties. All incoming diamonds undergo an intensive evaluation process to confirm that they are of the necessary grade to produce some of the world's most resilient surgical knives. Diamond blades are also thoroughly checked for structural integrity multiple times throughout the production process. Every diamond used in production is guaranteed to be a conflict-free diamond from an environmentally friendly and ethically responsible source.

Over the past several decades, manufacturers have used a variety of materials including earth-mined and polycrystalline diamonds, steel, ceramic composites and corundum in the production of surgical blades. Through trial and error, manufacturers discovered that the harder and more durable the material, the sharper the blade that can be created. Diamond is the hardest substance known to man and helps form the sharpest blade edges. These precision edges are responsible for the exact, clean incisions required in the most complex surgeries. Other important benefits exclusive to diamond blades have been proven through decades of successful medical procedures:

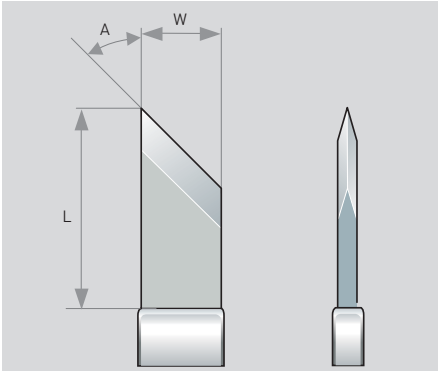
- Cut tissue heals more rapidly
- Leaks are prevented
- Less tissue trauma due to superior sharpness
- Ability to perform reproducible incisions
- More accurate incisions than blades of other materials
- Chemical and temperature resistant
- Cost-effective

Cost-effectiveness is the result of a diamond's **absolute hardness** (4 times more than sapphires and 20 times more than steel) and **the significantly increased amount of surgical incisions over time** (up to 800 times more than steel and 20 times more than sapphires).

Any **iCure** blade may be placed in a straight freehand, angled freehand, stepped, calibrated or micrometer handle depending on the procedure for which they will be used.

Customized blade configurations are available upon request. To discover the benefits of our premier diamond and titanium created knives, please contact us and we will calculate your savings over time based on your desired blade model.

Straight 30°, 45°



Item №	W	L	A
S4510035	1.00	3.50	45°
S3010035	1.00	3.50	30°
S4510045	1.00	4.50	45°
S3010045	1.00	4.50	30°

The standard thickness of all the blade types is 0.17 mm.

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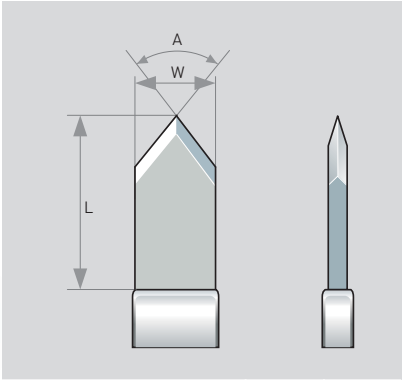
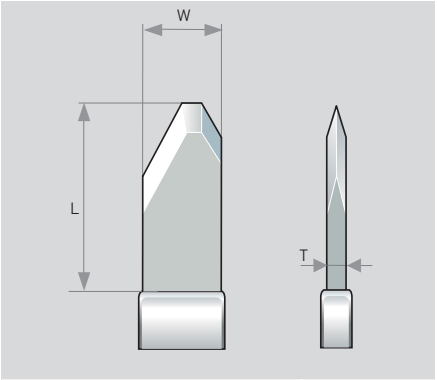
Double lancet



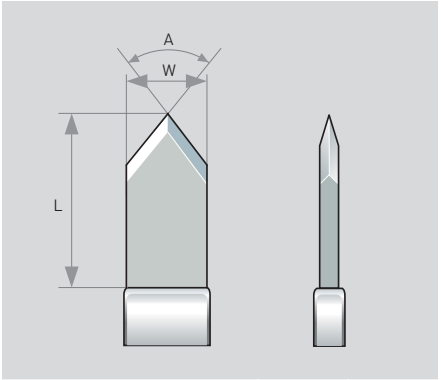
Item №	W	L	A
DLA10035	1.00	3.50	60°
DLA10045	1.00	4.50	60°
DLA15045	1.50	3.50	60°
DLA15045	1.50	4.50	60°

Tri-facet



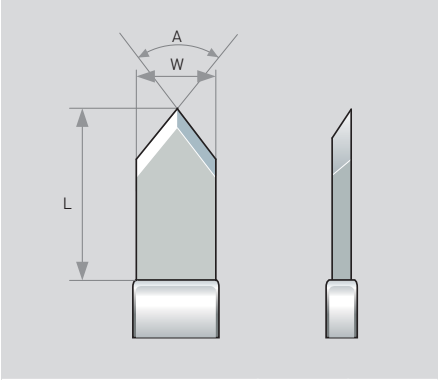
Item №	W	L
TRF10035	1.00	3.50
TRF10045	1.00	4.50
TRF15035	1.50	3.50
TRF15045	1.50	4.50

Double lancet with blunt sides



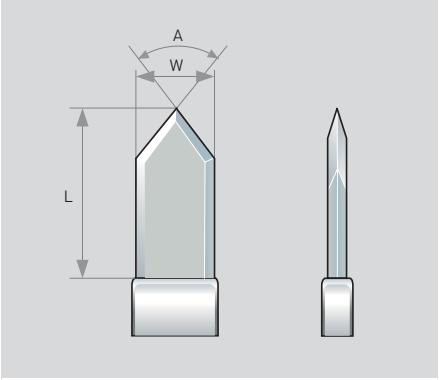
Item №	W	L	A
DLB20045	2.00	4.50	90°
DLB25045	2.50	4.50	90°
DLB28045	2.80	4.50	90°
DLB30045	3.00	4.50	90°
DLB32045	3.20	4.50	90°

Single lancet with blunt sides



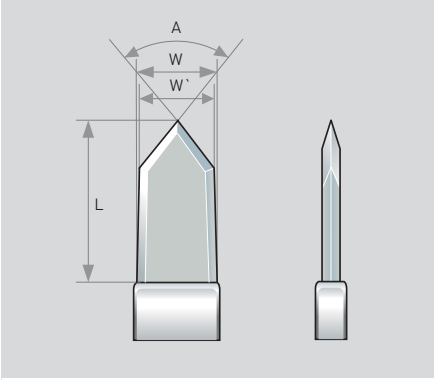
Item №	W	L	A
SLB20045	2.00	4.50	90°
SLB25045	2.50	4.50	90°
SLB28045	2.80	4.50	90°
SLB30045	3.00	4.50	90°
SLB32045	3.20	4.50	90°

Double lancet with sharp sides



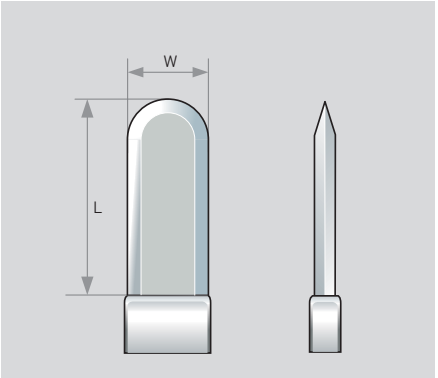
Item №	W	L	A
DLS20045	2.00	4.50	90°
DLS25045	2.50	4.50	90°
DLS28045	2.80	4.50	90°
DLS30045	3.00	4.50	90°
DLS32045	3.20	4.50	90°

Trapezoid with sharp sides



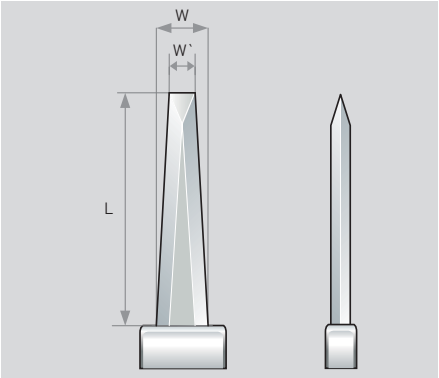
Item №	W`	W	L	A
TRP29025050	2.50	2.90	5.00	90°
TRP31028050	2.80	3.10	5.00	90°
TRP33030050	3.00	3.30	5.00	90°

Crescent-shaped with sharp sides



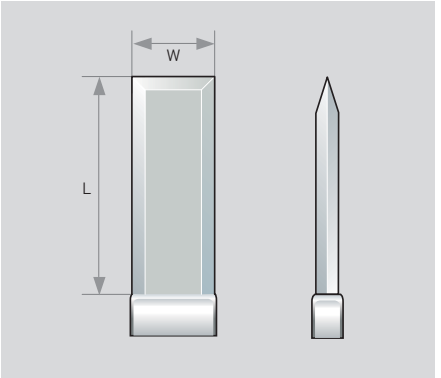
Item №	W	L
CRS10045	1.00	4.50
CRS20045	2.00	4.50

Triamond



Item №	W`	W	L
TRM10005545	0.55	1.00	4.50
TRM10003045	0.30	1.00	4.50

Triple edged



Item №	W	L
TRE07545	0.75	4.50
TRE10045	1.00	4.50

Titanium Grade

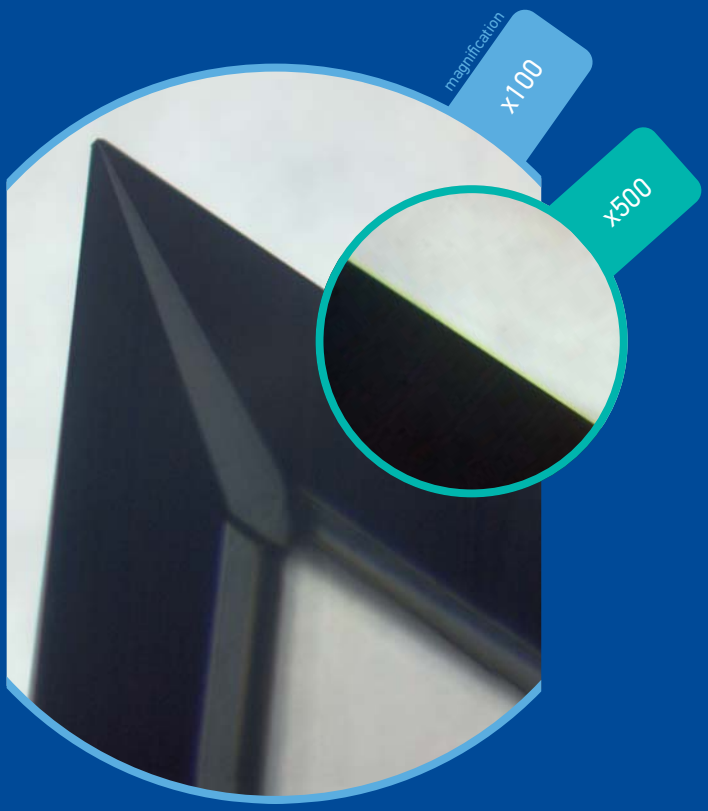
Titanium alloy is another important material used to produce high-quality ophthalmic surgical instruments is titanium alloy. Its natural durability makes it an ideal component of precision surgical knives. Lighter and tougher than other steel alloys, titanium is stain and corrosion free at any temperature, bacteria repellant and non-magnetic.

Titanium-based ophthalmic diamond knife handles can be sterilized hundreds of times using high temperatures and can withstand various chemical solvents without any functional or visible deterioration.

This superior material also directly contributes to the smooth movement and positional accuracy of the blade.

Sharpening

The **iCure** blades sharpening system is the core element of our knives. It provides a guaranteed "nick-free" edge. Before it is sent to a client, each **iCure** gem-quality blade is examined under 500x magnification after the final sharpening. The flawless crystal lattice of our gem-quality diamonds makes it possible to achieve optimal sharpness of the surgical blade in comparison with other materials.



All **iCure** handles are manufactured from titanium with a lifetime warranty and can be sterilized by any standard method.

Purchasing a gem-quality scalpel is a significant but worthwhile investment as its durability and effectiveness is incomparable. In the event that a blade is damaged or becomes dull, it can be re-sharpened several times depending on the extent of the damage.

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iCure
Tel. **+1 (888) 471 4715**
www.icurelab.com

416 S. Bethlehem Pike
Fort Washington, PA 19034
United States