

T H E F I N E S T
SWISS DIAMOND KNIVES
F O R T O D A Y ' S
E Y E S U R G E R Y



PRODUCT CATALOGUE

SIS MICRO- AND NANOTECHNOLOGY

SIS Micro- and Nanotechnology for better Ophthalmic Instruments

Core Statements

We are specialists in ophthalmology and focus our operations on clearly defined areas.

Core applications

We are specialized in the application of refractive surgery, cataract and glaucoma.

Core competencies

We hold expertise in the areas of ophthalmology, micro-and nanotechnology. Combining the expertise of these three areas results in new innovative products.

We identify potential opportunities and focus on realistic projects.

In the SIS Group we combine competencies in research and development, production and marketing.

Core technologies

The pathway to new, innovative products and methods requires in-house R&D expertise in the following technologies:

Micro- Nanotechnology, Hardware/Software engineering, CAE/CAD/CAM engineering and Ophthalmic know-how

We consciously focus this knowledge „under one roof“ as part of the SIS positioning strategy.

SIS Micro- and Nanotechnology for high quality diamond knives

Attractive price

SIS diamond knives with ultra sharp edges

Minimal force to incise corneal tissue / distortion free incisions

The SIS diamond cutting blade offers a high level of quality, reliability, and consistency of results.

The ease with which a SIS diamond knife slices the cornea and the consistency of its results are striking features of this instrument.

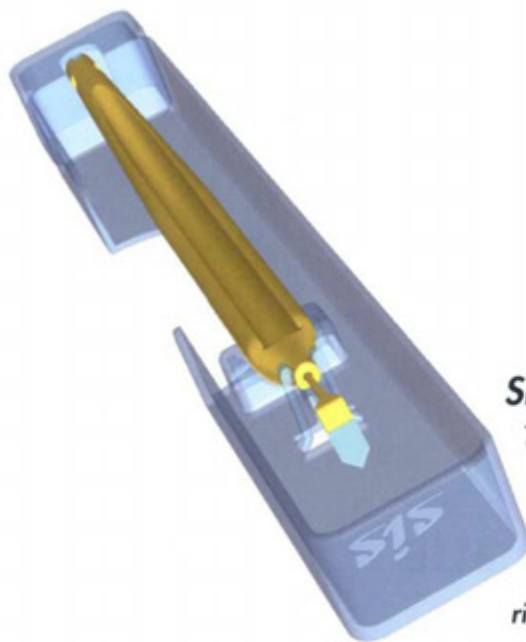
All mechanical parts are made of titanium. SIS diamond knives can therefore be sterilized by any conventional method.

Handle is ergonomically designed / made of titanium / you can feel the blade's position

Before delivery each SIS diamond knife, new or re-sharpened, is subject to extensive testing. Only if its performance is up to the highest standards will we ship it to the customer and guarantee the knife's cutting ability.

Included Steri-Box / protection for the diamond blade

SIS can develop within weeks a new blade type



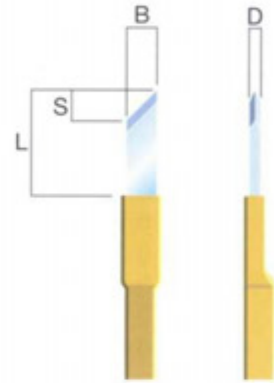
SIS uses natural gem-quality Diamonds.

The diamond is ground absolutely sharp and never becomes dull from cutting the cornea. The diamond blade can be used repeatedly to make precise and distortion-free incisions in ocular tissue. It cuts the tissue without any pressure and tearing and reduces the risk of astigmatism.

Free hand diamond knives with straight handle for cataract surgery

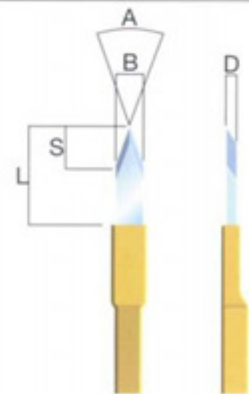
Single edge 45° & 30°

| B | L | D | A | S | Order No. |
|------|------|------|-----|------|-----------|
| 1.50 | 3.50 | 0.20 | 45° | 1.50 | 23-10001 |
| 1.50 | 3.50 | 0.20 | 30° | 2.60 | 23-10002 |
| 1.00 | 3.50 | 0.20 | 45° | 1.00 | 23-10003 |
| 1.00 | 3.50 | 0.20 | 30° | 1.70 | 23-10004 |
| 1.00 | 3.50 | 0.20 | 20° | 1.00 | 23-10005 |
| 0.80 | 3.50 | 0.20 | 45° | 0.80 | 23-10006 |



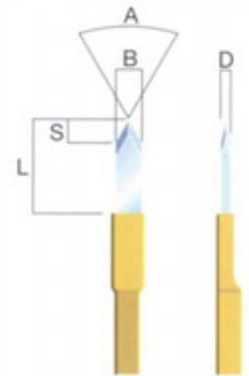
Single lancet

| B | L | D | A | S | Order No. |
|------|------|------|-----|------|-----------|
| 1.50 | 3.50 | 0.20 | 40° | 2.00 | 23-10007 |
| 1.00 | 3.50 | 0.20 | 40° | 1.30 | 23-10008 |
| 0.80 | 3.50 | 0.20 | 40° | 1.00 | 23-10009 |



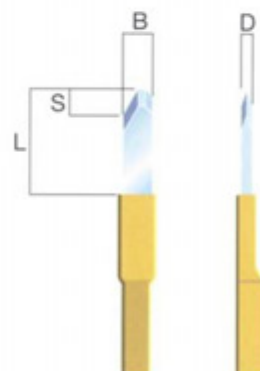
Double lancet

| B | L | D | A | S | Order No. |
|------|------|------|-----|------|-----------|
| 1.50 | 3.50 | 0.20 | 60° | 1.30 | 23-10010 |
| 1.00 | 3.50 | 0.20 | 60° | 0.80 | 23-10011 |
| 0.80 | 3.50 | 0.20 | 60° | 0.80 | 23-10012 |



Tri - facet

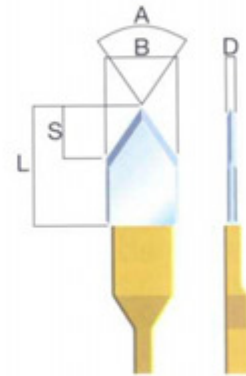
| B | L | D | A | S | Order No. |
|------|------|------|---|------|-----------|
| 1.50 | 3.50 | 0.20 | | 1.30 | 23-10013 |
| 1.00 | 3.50 | 0.20 | | 0.80 | 23-10014 |



Phaco diamond knives with blunt sides and straight handle

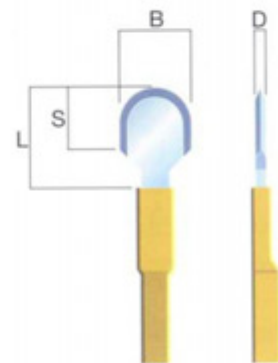
Double lancet with blunt sides

| B | L | D | A | S | Order No. |
|------|------|------|-----|------|-----------|
| 2.40 | 4.00 | 0.20 | 70° | 1.70 | 23-11001 |
| 2.50 | 4.00 | 0.20 | 70° | 1.75 | 23-11002 |
| 2.65 | 4.00 | 0.20 | 70° | 1.85 | 23-11003 |
| 2.85 | 4.00 | 0.20 | 70° | 2.00 | 23-11004 |
| 3.00 | 4.00 | 0.20 | 70° | 2.10 | 23-11005 |
| 3.10 | 4.00 | 0.20 | 70° | 2.20 | 23-11006 |
| 3.20 | 4.00 | 0.20 | 70° | 2.25 | |



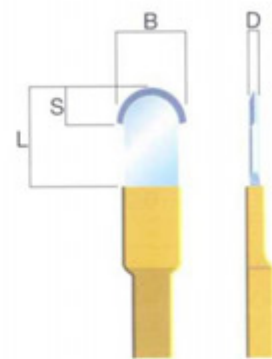
Round type knife with sharp sides

| B | L | D | A | S | Order No. |
|------|------|------|---|------|-----------|
| 2.50 | 3.50 | 0.20 | | 2.00 | 23-11008 |



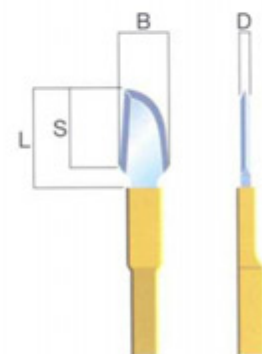
Round type knife with blunt sides

| B | L | D | A | S | Order No. |
|------|------|------|---|------|-----------|
| 2.50 | 3.50 | 0.20 | | 1.00 | 23-11009 |



Half round type knife with sharp sides

| B | L | D | A | S | Order No. |
|------|------|------|---|------|-----------|
| 1.80 | 3.50 | 0.20 | | 2.50 | 23-11010 |

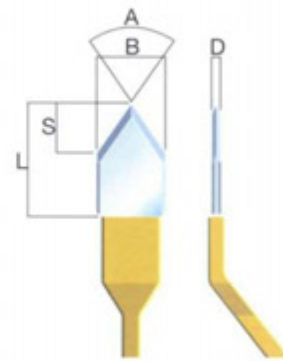


Phaco knives with angled handle for „clear cornea“ technique

Diamond blades with 4 or 5 mm length with sharp or blunt side cutting edges in parallel or trapezoid execution.

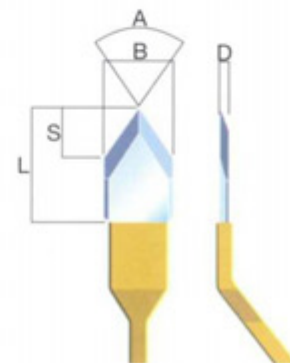
Double lancet with blunt sides

| B | L | D | A | S | Order No. |
|------|------|------|-----|------|-----------|
| 2.30 | 4.00 | 0.20 | 70° | 1.65 | 23-11011 |
| 2.40 | 4.00 | 0.20 | 70° | 1.70 | 23-11012 |
| 2.50 | 4.00 | 0.20 | 70° | 1.75 | 23-11013 |
| 2.65 | 4.00 | 0.20 | 70° | 1.85 | 23-11014 |
| 2.85 | 4.00 | 0.20 | 70° | 2.00 | 23-11015 |
| 3.00 | 4.00 | 0.20 | 70° | 2.10 | 23-11016 |
| 3.10 | 4.00 | 0.20 | 70° | 2.20 | 23-11017 |
| 3.20 | 4.00 | 0.20 | 70° | 2.25 | 23-11018 |



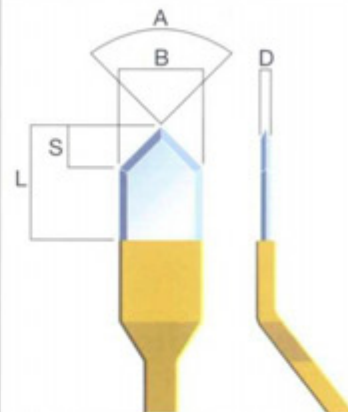
Single lancet with blunt sides

| B | L | D | A | S | Order No. |
|------|------|------|-----|------|-----------|
| 2.40 | 4.00 | 0.20 | 70° | 1.70 | 23-11019 |
| 2.50 | 4.00 | 0.20 | 70° | 1.75 | 23-11020 |
| 2.65 | 4.00 | 0.20 | 70° | 1.85 | 23-11021 |
| 2.80 | 4.00 | 0.20 | 70° | 2.00 | 23-11022 |
| 2.85 | 4.00 | 0.20 | 70° | 2.00 | 23-11023 |
| 3.00 | 4.00 | 0.20 | 70° | 2.20 | 23-11024 |
| 3.10 | 4.00 | 0.20 | 70° | 2.30 | 23-11025 |
| 3.20 | 4.00 | 0.20 | 70° | 2.25 | 23-11026 |
| 3.50 | 4.00 | 0.20 | 70° | 2.50 | 23-11027 |



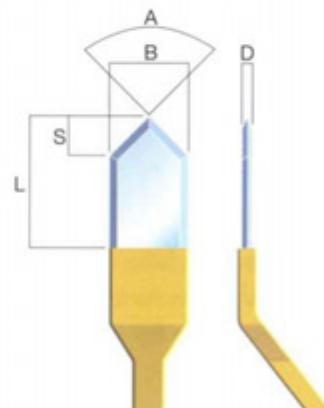
Double lancet 4mm knife with sharp sides

| B | L | D | A | S | Order No. |
|------|------|------|-----|------|-----------|
| 2.40 | 4.00 | 0.20 | 90° | 1.20 | 23-11028 |
| 2.50 | 4.00 | 0.20 | 90° | 1.25 | 23-11029 |
| 2.65 | 4.00 | 0.20 | 90° | 1.30 | 23-11030 |
| 2.80 | 4.00 | 0.20 | 90° | 1.40 | 23-11031 |
| 2.85 | 4.00 | 0.20 | 90° | 1.40 | 23-11032 |
| 3.00 | 4.00 | 0.20 | 90° | 1.50 | 23-11033 |
| 3.10 | 4.00 | 0.20 | 90° | 1.55 | 23-11034 |
| 3.20 | 4.00 | 0.20 | 90° | 1.60 | 23-11035 |



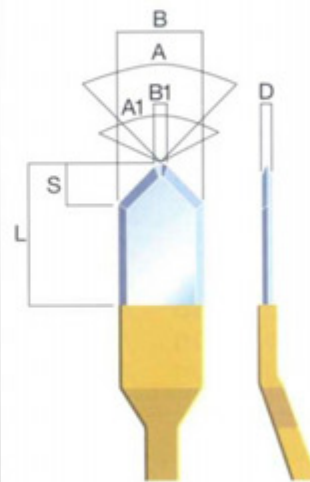
Double lancet 5mm knife with sharp sides

| B | L | D | A | S | Order No. |
|------|------|------|-----|------|-----------|
| 2.40 | 5.00 | 0.20 | 90° | 1.20 | 23-11036 |
| 2.50 | 5.00 | 0.20 | 90° | 1.25 | 23-11037 |
| 2.65 | 5.00 | 0.20 | 90° | 1.30 | 23-11038 |
| 2.80 | 5.00 | 0.20 | 90° | 1.40 | 23-11039 |
| 2.85 | 5.00 | 0.20 | 90° | 1.40 | 23-11040 |
| 3.00 | 5.00 | 0.20 | 90° | 1.50 | 23-11041 |
| 3.10 | 5.00 | 0.20 | 90° | 1.55 | 23-11042 |
| 3.20 | 5.00 | 0.20 | 90° | 1.60 | 23-11043 |



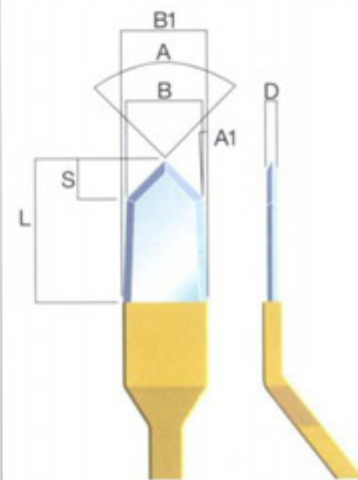
**Double lancet 4 mm knife, 90°/130°
(to Dr. Annen) with sharp sides**

| B | B1 | L | D | A | A1 | S | Order No. |
|------|------|------|------|-----|------|------|-----------|
| 2.40 | 0.30 | 4.00 | 0.20 | 90° | 130° | 1.10 | 23-11044 |
| 2.50 | 0.30 | 4.00 | 0.20 | 90° | 130° | 1.15 | 23-11045 |
| 2.65 | 0.30 | 4.00 | 0.20 | 90° | 130° | 1.25 | 23-11046 |
| 2.80 | 0.30 | 4.00 | 0.20 | 90° | 130° | 1.35 | 23-11047 |
| 3.00 | 0.30 | 4.00 | 0.20 | 90° | 130° | 1.45 | 23-11048 |
| 3.20 | 0.30 | 4.00 | 0.20 | 90° | 130° | 1.55 | 23-11049 |



Double lancet 5 mm knife, Trapezoid with sharp sides

| B | B1 | L | D | A | A1 | S | Order No. |
|------|------|------|------|-----|-------|------|-----------|
| 2.80 | 3.20 | 5.00 | 0.20 | 83° | 2°30" | 1.60 | 23-11050 |
| 3.00 | 3.30 | 5.00 | 0.20 | 88° | 2°30" | 1.60 | 23-11051 |
| 3.20 | 3.50 | 5.00 | 0.20 | 92° | 2°30" | 1.60 | 23-11052 |

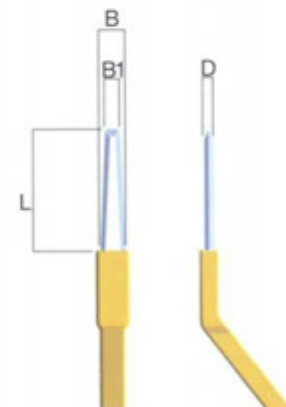


Multi purpose diamond knife to Dr. Zaldivar

Multi purpose diamond knife to Dr. Zaldivar

| B | B1 | L | D | Order No. |
|------|------|------|------|-----------|
| 1.00 | 0.55 | 4.50 | 0.15 | 23-14001 |

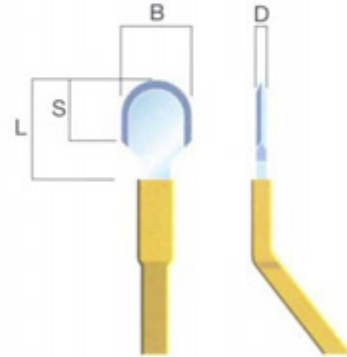
- Step cut
- Scleral tunnel incision
- Opening of the anterior chamber
- Wound widening for IOL implantation



Crescent and tunnel knives for scleral tunnel incision

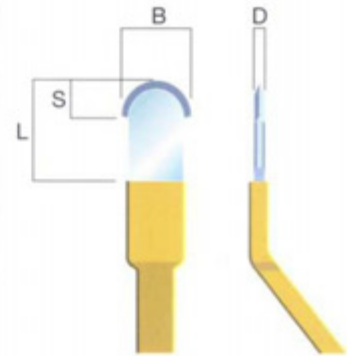
Crescent knife with sharp sides

| B | L | D | A | S | Order No. |
|------|------|------|---|------|-----------|
| 2.50 | 3.50 | 0.20 | | 2.00 | 23-12001 |



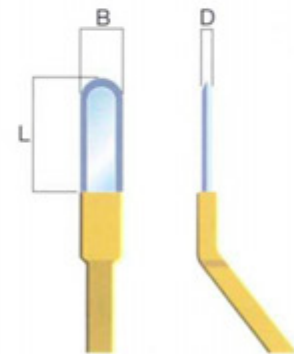
Crescent knife with blunt sides

| B | L | D | A | S | Order No. |
|------|------|------|---|------|-----------|
| 2.50 | 3.50 | 0.20 | | 1.00 | 23-12002 |



Tunnel knife with 4mm sharp sides

| B | L | D | A | S | Order No. |
|------|------|------|---|---|-----------|
| 1.50 | 4.00 | 0.20 | | | 23-12003 |
| 2.00 | 4.00 | 0.20 | | | 23-12004 |



SIS at a glance

SIS develops and manufactures surgical and diagnostic systems and instruments in the areas of refractive surgery, cataract and glaucoma. Turning our attention to the technological challenge of the next few years, we confidently predict that micro- and nanotechnology will revolutionize the work of the eye surgeon. This means that we at SIS have to constantly update our core competencies. Such developments encourage us to place a high priority on developing and applying a strategy of consistent knowledge management. We have also systematically developed the expertise of our research and development team, which is backed up by the highest standards of quality management.

SIS combines superior knowledge in microelectronics, micromechanics and hard/software development for medical applications.

We have always realized that consistently high quality standards combined with very competitive prices are the best sales arguments in the long term. Anyone operating in critical areas such as medical technology must always be aware of the corresponding need for quality. The demanding expectations of our customers are in focus of every SIS undertaking and the satisfaction of these demands is the goal for all development projects.

QUALITY, RELIABILITY AND INNOVATION



Distributed by:

sis

surgical instrument systems

SIS Group AG
Allmendstrasse 11
2562 Port / Switzerland

Phone + 41 (32) 332 70 70
Fax + 41 (32) 332 70 71
E-Mail innovation@sisgroup.ch
www.sisgroup.ch