

Diamond cutting instruments for micro surgery

amidia



amidia
diamond knives
made in Switzerland

About Amidia LTD

Amidia LTD has been manufacturing diamond knives for ophthalmology, micro surgery and plastic surgery for the last 20 years. Our many years of experience and strict quality controls allow us to only manufacture and sell first-class products.

Apart from our range of monocrystalline diamond blades, today we also offer blades made out of CVD diamonds. These blades are an interesting alternative to single use disposable blades since they can be used 400 – 500 times. A damaged blade can be replaced cheaply.

In the area of ophthalmology, we offer all commonly used designs. Thus we can provide a wide range of LRI and MICS blades. Our project managers are very happy to provide you with blades according to your customer-specific requirements with new blade dimensions.

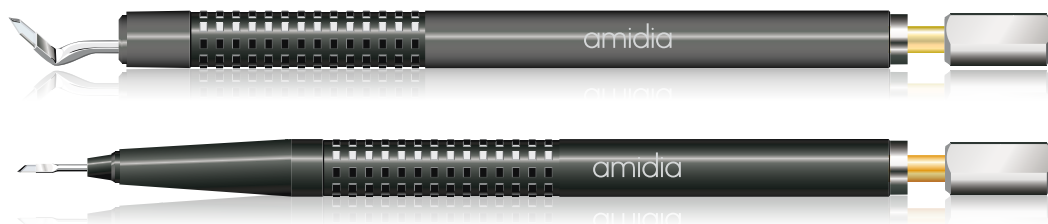
We are very pleased to be able to offer you our products and services.

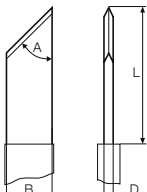
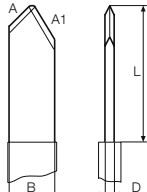
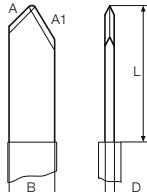
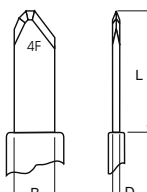
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Diamond knives for cataract surgery (titanium handles with a pressure mechanism)

The Amidia pencil handle is made out of best quality titanium material.
Each diamond blade goes with a straight blade holder or a 30 degree angled holder.



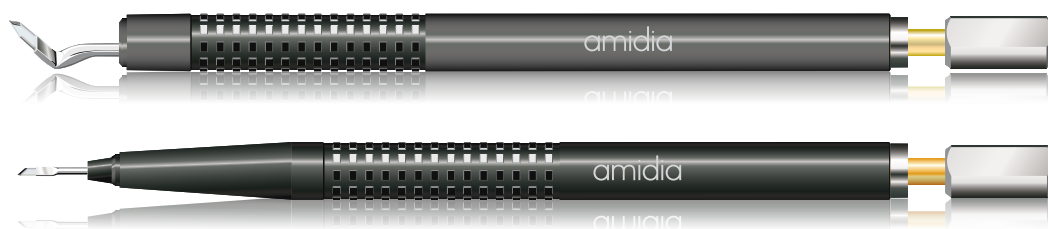
drawing	angled holder	straight holder	description	B	L	D	A/A1	blade
straight / single edge								
	216A	216	straight	0.7	2.0	0.17	30°	16
	287A	287	straight	1.0	2.0	0.17	30°	87
	212A	212	straight	1.0	3.0	0.17	30°	12
	264SA	264S	straight	1.5	4.0	0.17	30°	64S
	215A	215	straight	0.7	2.0	0.17	45°	15
	211A	211	straight	1.0	3.0	0.17	45°	11
	210A	210	straight	1.5	3.0	0.17	45°	10
	211SA	211S	straight	2.0	3.0	0.17	45°	11S
	217A	217	tri-facet	0.7	2.0	0.17	45°/30°	17
tri-facet								
	213A	213	tri-facet	1.0	3.0	0.17	45°/30°	13
	224A	224	curved 4 facets	1.0	3.0	0.17		24
curved								
								

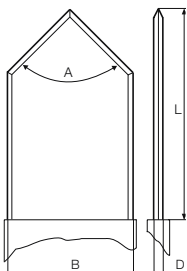
B = width / L = length / D = thickness / A = angle

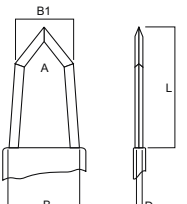


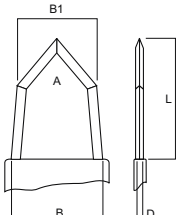
drawing	angled holder	straight holder	description	B	L	D	A/A1	blade
lance								
	248A	248	lance with blunt sides	0.9	3.0	0.17	60°	48
	271A	271	lance with blunt sides	1.0	3.0	0.17	40°	71
	218A	218	lance with blunt sides	1.0	2.0	0.17	60°	18
	220A	220	lance with blunt sides	1.0	3.0	0.17	60°	20
	214SA	214S	lance with blunt sides	1.2	3.0	0.17	60°	14S
	214A	214	lance with blunt sides	1.4	3.0	0.17	60°	14
	221A	221	lance with blunt sides	3.2	4.0	0.17	60°	21
spear								
	230A	230	spear with blunt sides	1.0	2.0	0.17	90°	30
	219A	219	spear with blunt sides	1.0	4.0	0.17	90°	19
	229A	229	spear with blunt sides	1.4	4.0	0.17	90°	29
	208A	208	spear with blunt sides	2.5	4.0	0.17	90°	08
	243A	243	spear with blunt sides	2.8	4.0	0.17	90°	43
	222A	222	spear with blunt sides	3.0	4.0	0.17	90°	22
	223A	223	spear with blunt sides	3.2	4.0	0.17	90°	23
	278A	278	spear with blunt sides	3.5	4.0	0.17	90°	78
	tunnel							
	239A	239	tunnel 19 facets	1.4	4.0	0.17		39
	254A	254	tunnel 19 facets	2.0	4.0	0.17		54
	258A	258	tunnel 19 facets	2.2	4.0	0.17		58
	255A	255	tunnel 19 facets	2.5	4.0	0.17		55
	253A	253	tunnel 19 facets	3.0	4.0	0.17		53
	clear cornea MICS micro coaxial surgery							
	224-02A	224-02	clear cornea with sharp sides	1.0	4.0	0.17	90°	24-02
	231A	231	clear cornea with sharp sides	1.6	4.0	0.17	90°	31
	235A	235	clear cornea with sharp sides	1.7	4.0	0.17	90°	35
	236A	236	clear cornea with sharp sides	1.8	4.0	0.17	90°	36
	237A	237	clear cornea with sharp sides	1.9	4.0	0.17	90°	37
	238A	238	clear cornea with sharp sides	2.0	4.0	0.17	90°	38
	261A	261	clear cornea with sharp sides	2.1	4.0	0.17	90°	61
	262A	262	clear cornea with sharp sides	2.2	4.0	0.17	90°	62
	263A	263	clear cornea with sharp sides	2.3	4.0	0.17	90°	63
	265A	265	clear cornea with sharp sides	2.4	4.0	0.17	90°	65

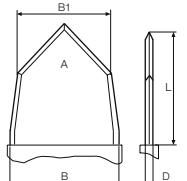
B = width / L = length / D = thickness / A = angle



drawing	angled holder	straight holder	description	B1/B	L	D	A/A1	blade
clear cornea 60°								
	297A	297	clear cornea with sharp sides	3.0	4.0	0.17	60°	97
	234A	234	clear cornea with sharp sides	3.2	4.0	0.17	60°	34
	clear cornea 90°							
	298A	298	clear cornea with sharp sides	2.5	4.0	0.17	90°	98
	272A	272	clear cornea with sharp sides	2.6	4.0	0.17	90°	72
	295A	295	clear cornea with sharp sides	2.65	4.0	0.17	90°	95
	277A	277	clear cornea with sharp sides	2.8	4.0	0.17	90°	77
	273A	273	clear cornea with sharp sides	3.0	4.0	0.17	90°	73
	274A	274	clear cornea with sharp sides	3.2	4.0	0.17	90°	74
	293A	293	clear cornea with sharp sides	3.5	4.0	0.17	90°	93

tapered spear MICS micro coaxial surgery								
	279A	279	spear 4 facets with sharp sides	1.1-1.4	4.0	0.17	90°	79
	280A	280	spear 4 facets with sharp sides	1.5-1.8	4.0	0.17	90°	80
	282A	282	spear 4 facets with sharp sides	1.5-2.0	4.0	0.17	90°	82
	284-01A	284-01	spear 4 facets with sharp sides	1.7-2.0	4.0	0.17	90°	84-01
	284A	284	spear 4 facets with sharp sides	1.8-2.2	4.0	0.17	90°	84
	284-02A	284-02	spear 4 facets with sharp sides	2.0-2.3	4.0	0.17	90°	84-02
	284-04A	284-04 ¹	spear 4 facets with sharp sides	1.8-2.4	4.0	0.17	90°	84-04
	284-03A	284-03	spear 4 facets with sharp sides	2.4-2.7	4.0	0.17	90°	84-03
	284-05A	284-05 ²	spear 4 facets with sharp sides	1.8-2.75	4.0	0.17	90°	84-05
	¹ and ² with laserlines: ¹) 1.8 / 2.0 / 2.2 / 2.4 ²) 1.8 / 2.2 / 2.4 / 2.75							

tapered spear 4 facets								
	291A	291	spear 4 facets with sharp sides	2.5-3.0	4.0	0.10	90°	91
	290A	290	spear 4 facets with sharp sides	2.5-3.0	4.0	0.17	90°	90
	292A	292	spear 4 facets with sharp sides	2.7-2.9	4.0	0.17	90°	92
	232A	232	spear 4 facets with sharp sides	2.75-3.2	4.0	0.17	90°	32
	240A	240	spear 4 facets with sharp sides	3.0-3.2	4.0	0.17	90°	40
	233A	233	spear 4 facets with sharp sides	3.0-3.5	4.0	0.17	90°	33
	289A	289	spear 4 facets with sharp sides	3.2-3.5	4.0	0.17	90°	89

tapered spear 6 facets								
	288A	288	spear 6 facets with sharp sided	2.65-3.2	4.0	0.17	90°	88
	283A	283	spear 6 facets with sharp sides	3.0-3.2	4.0	0.17	90°	83

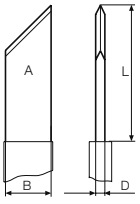
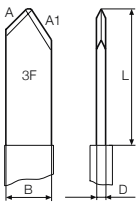
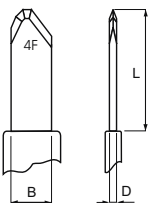
B = width / L = length / D = thickness / A = angle

Diamond knives for cataract surgery (titanium bajonet handle with the j-slot mechanism)

The Amidia bajonet handle is made out of best quality titanium material.
Each diamond blade goes with a straight blade holder or a 30 degree angled holder.

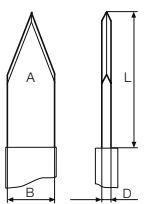
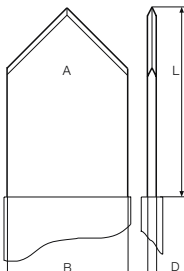
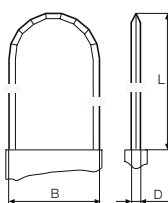
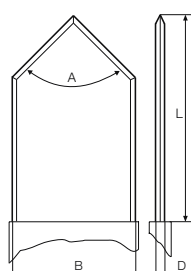
also available in
a peek handle



drawing	angled holder	straight holder	description	B	L	D	A/A1	blade
straight / single edge								
	316A	316	straight	0.7	2.0	0.17	30°	16
	387A	387	straight	1.0	2.0	0.17	30°	87
	312A	312	straight	1.0	3.0	0.17	30°	12
	364SA	364S	straight	1.5	4.0	0.17	30°	64S
	315A	315	straight	0.7	2.0	0.17	45°	15
	311A	311	straight	1.0	3.0	0.17	45°	11
	310A	310	straight	1.5	3.0	0.17	45°	10
	311SA	311S	straight	2.0	3.0	0.17	45°	11S
tri-facet								
	317A	317	tri-facet	0.7	2.0	0.17	45°/30°	17
	313A	313	tri-facet	1.0	3.0	0.17	45°/30°	13
curved								
	324A	324	curved 4 facets	1.0	3.0	0.17		24

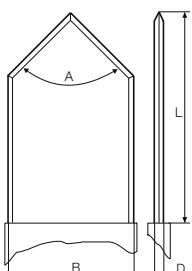
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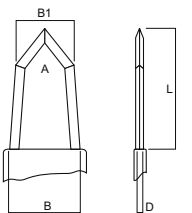


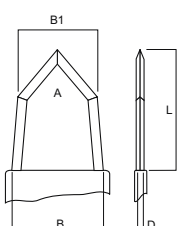
drawing	angled holder	straight holder	description	B	L	D	A/A1	blade
lance								
	318A	318	lance with blunt sides	1.0	2.0	0.17	60°	18
	348A	348	lance with blunt sides	0.9	3.0	0.17	60°	48
	371A	371	lance with blunt sides	1.0	3.0	0.17	40°	71
	320A	320	lance with blunt sides	1.0	3.0	0.17	60°	20
	314SA	314S	lance with blunt sides	1.2	3.0	0.17	60°	14S
	314A	314	lance with blunt sides	1.4	3.0	0.17	60°	14
	321A	321	lance with blunt sides	3.2	4.0	0.17	60°	21
spear								
	330A	330	spear with blunt sides	1.0	2.0	0.17	90°	30
	319A	319	spear with blunt sides	1.0	4.0	0.17	90°	19
	329A	329	spear with blunt sides	1.4	4.0	0.17	90°	29
	307A	307	spear with blunt sides	2.2	4.0	0.17	90°	07
	308A	308	spear with blunt sides	2.5	4.0	0.17	90°	08
	343A	343	spear with blunt sides	2.8	4.0	0.17	90°	43
	322A	322	spear with blunt sides	3.0	4.0	0.17	90°	22
	323A	323	spear with blunt sides	3.2	4.0	0.17	90°	23
	339A	339	tunnel 19 facets	1.4	4.0	0.17		39
	354A	354	tunnel 19 facets	2.0	4.0	0.17		54
	358A	358	tunnel 19 facets	2.2	4.0	0.17		58
	355A	355	tunnel 19 facets	2.5	4.0	0.17		55
	353A	353	tunnel 19 facets	3.0	4.0	0.17		53
clear cornea MICS micro coaxial surgery								
	324-02A	324-02	clear cornea with sharp sides	1.0	4.0	0.17	90°	24-02
	331A	331	clear cornea with sharp sides	1.6	4.0	0.17	90°	31
	335A	335	clear cornea with sharp sides	1.7	4.0	0.17	90°	35
	336A	336	clear cornea with sharp sides	1.8	4.0	0.17	90°	36
	337A	337	clear cornea with sharp sides	1.9	4.0	0.17	90°	37
	338A	338	clear cornea with sharp sides	2.0	4.0	0.17	90°	38
	361A	361	clear cornea with sharp sides	2.1	4.0	0.17	90°	61
	362A	362	clear cornea with sharp sides	2.2	4.0	0.17	90°	62
	363A	363	clear cornea with sharp sides	2.3	4.0	0.17	90°	63
	365A	365	clear cornea with sharp sides	2.4	4.0	0.17	90°	65

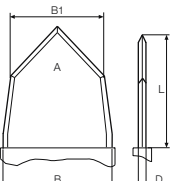
B = width / L = length / D = thickness / A = angle



drawing	angled holder	straight holder	description	B1/B	L	D	A/A1	blade
clear cornea 60°								
	397A	397	clear cornea with sharp sides	3.0	4.0	0.17	60°	97
	334A	334	clear cornea with sharp sides	3.2	4.0	0.17	60°	34
	clear cornea 90°							
	398A	398	clear cornea with sharp sides	2.5	4.0	0.17	90°	98
	372A	372	clear cornea with sharp sides	2.6	4.0	0.17	90°	72
	395A	395	clear cornea with sharp sides	2.65	4.0	0.17	90°	95
	377A	377	clear cornea with sharp sides	2.8	4.0	0.17	90°	77
	373A	373	clear cornea with sharp sides	3.0	4.0	0.17	90°	73
	374A	374	clear cornea with sharp sides	3.2	4.0	0.17	90°	74
	393A	393	clear cornea with sharp sides	3.5	4.0	0.17	90°	93

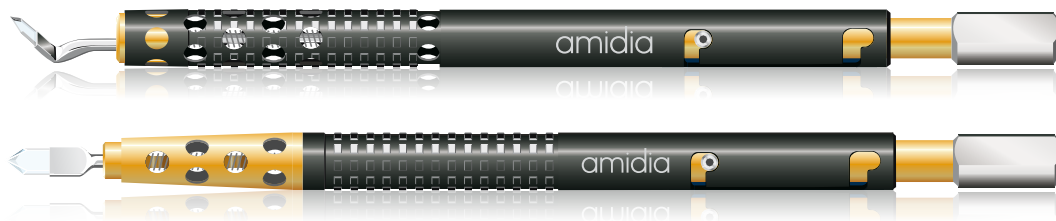
tapered spear MICS micro coaxial surgery								
	379A	379	spear 4 facets with sharp sides	1.1-1.4	4.0	0.17	90°	79
	380A	380	spear 4 facets with sharp sides	1.5-1.8	4.0	0.17	90°	80
	382A	382	spear 4 facets with sharp sides	1.5-2.0	4.0	0.17	90°	82
	384-01A	384-01	spear 4 facets with sharp sides	1.7-2.0	4.0	0.17	90°	84-01
	384A	384	spear 4 facets with sharp sides	1.8-2.2	4.0	0.17	90°	84
	384-02A	384-02	spear 4 facets with sharp sides	2.0-2.3	4.0	0.17	90°	84-02
	384-04A	384-04 ¹	spear 4 facets with sharp sides	1.8-2.4	4.0	0.17	90°	84-04
	384-03A	384-03	spear 4 facets with sharp sides	2.4-2.7	4.0	0.17	90°	84-03
	384-05A	384-05 ²	spear 4 facets with sharp sides	1.8-2.75	4.0	0.17	90°	84-05
¹ and ² with laserlines: ¹) 1.8 / 2.0 / 2.2 / 2.4 ²) 1.8 / 2.2 / 2.4 / 2.75								

tapered spear 4 facets								
	391A	391	spear 4 facets with sharp sides	2.5-3.0	4.0	0.10	90°	91
	390A	390	spear 4 facets with sharp sides	2.5-3.0	4.0	0.17	90°	90
	392A	392	spear 4 facets with sharp sides	2.7-2.9	4.0	0.17	90°	92
	332A	332	spear 4 facets with sharp sides	2.75-3.2	4.0	0.17	90°	32
	340A	340	spear 4 facets with sharp sides	3.0-3.2	4.0	0.17	90°	40
	333A	333	spear 4 facets with sharp sides	3.0-3.5	4.0	0.17	90°	33
	389A	389	spear 4 facets with sharp sides	3.2-3.5	4.0	0.17	90°	89

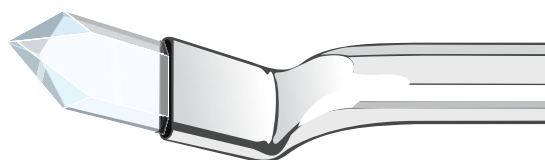
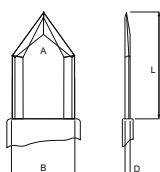
tapered spear 6 facets								
	388A	388	spear 6 facets with sharp sided	2.65-3.2	4.0	0.17	90°	88
	383A	383	spear 6 facets with sharp sides	3.0-3.2	4.0	0.17	90°	83

B = width / L = length / D = thickness / A = angle

3D diamond knives



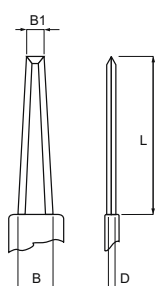
drawing	angled holder	straight holder	description	B	L	D	A	blade
	A-3D-02A	A-3D-02	3D-blade with sharp sides	1.4mm	4.0	0.17	80°	3D-02
	A-3D-03A	A-3D-03	3D-blade with sharp sides	1.5mm	4.0	0.17	80°	3D-03
	A-3D-04A	A-3D-04	3D-blade with sharp sides	1.6mm	4.0	0.17	80°	3D-04
	A-3D-05A	A-3D-05	3D-blade with sharp sides	1.7mm	4.0	0.17	80°	3D-05
	A-3D-06A	A-3D-06	3D-blade with sharp sides	1.8mm	4.0	0.17	80°	3D-06
	A-3D-07A	A-3D-07	3D-blade with sharp sides	1.9mm	4.0	0.17	80°	3D-07
	A-3D-08A	A-3D-08	3D-blade with sharp sides	2.0mm	4.0	0.17	80°	3D-08
	A-3D-09A	A-3D-09	3D-blade with sharp sides	2.1mm	4.0	0.17	80°	3D-09
	A-3D-10A	A-3D-10	3D-blade with sharp sides	2.2mm	4.0	0.17	80°	3D-10
	A-3D-11A	A-3D-11	3D-blade with sharp sides	2.3mm	4.0	0.17	80°	3D-11
	A-3D-12A	A-3D-12	3D-blade with sharp sides	2.4mm	4.0	0.17	80°	3D-12
	A-3D-13A	A-3D-13	3D-blade with sharp sides	2.5mm	4.0	0.17	80°	3D-13
	A-3D-14A	A-3D-14	3D-blade with sharp sides	2.6mm	4.0	0.17	80°	3D-14
	A-3D-15A	A-3D-15	3D-blade with sharp sides	2.65mm	4.0	0.17	80°	3D-15
	A-3D-16A	A-3D-16	3D-blade with sharp sides	2.7mm	4.0	0.17	80°	3D-16
	A-3D-17A	A-3D-17	3D-blade with sharp sides	2.8mm	4.0	0.17	80°	3D-17
	A-3D-18A	A-3D-18	3D-blade with sharp sides	2.9mm	4.0	0.17	80°	3D-18
	A-3D-19A	A-3D-19	3D-blade with sharp sides	3.0mm	4.0	0.17	80°	3D-19
	A-3D-20A	A-3D-20	3D-blade with sharp sides	3.1mm	4.0	0.17	80°	3D-20
	A-3D-21A	A-3D-21	3D-blade with sharp sides	3.2mm	4.0	0.17	80°	3D-21



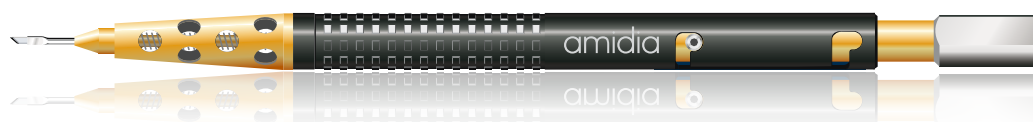
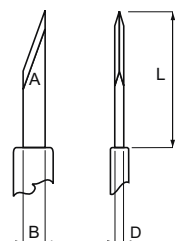
B = width / L = length / D = thickness / A = angle

Diamond knives for glaucoma surgery

drawing	article no.	description	B	B1	L	D	A	blade
Zaldivar multi purpose knife								
	333-01		1.0	0.55	4.5	0.17		33-01

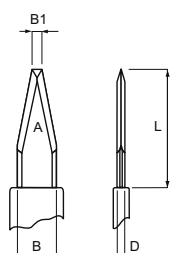


knife with straight holder								
	301-01		0.5		3.5	0.2	20°	01-01



step knife								
	820-01		1.0	0.3	3.5	0.17	25°	20-01

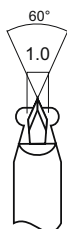
steps: 0.15 / 0.2 / 0.25 / 0.3 / 0.37 / 0.5 / 4.0



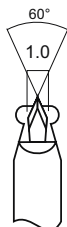
B = width / L = length / D = thickness / A = angle

Diamond knives for LRI surgery (Limbal relaxing incision, LRI)

drawing	Rubenstein LRI-knives with fixed cutting depth either 500, 550 or 600 microns.	B	D	A	blade
	short handle (7.6 cm)				
	820-05-S50 0.50 preset cutting depth	1.0	0.17	60°	20-05
	820-05-S55 0.55 preset cutting depth				
	820-05-S60 0.60 preset cutting depth				



	standard handle:				
	820-05-L50 0.50 preset cutting depth	1.0	0.17	60°	20-05
	820-05-L55 0.55 preset cutting depth				
	820-05-L60 0.60 preset cutting depth				



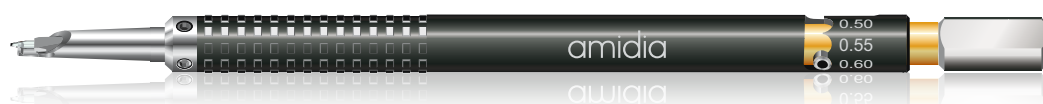
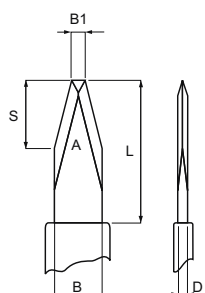
Features:

- winged footplate
- improved view during surgery
- footplate allows the blade to glide across the corneal epithelium
- easy to control

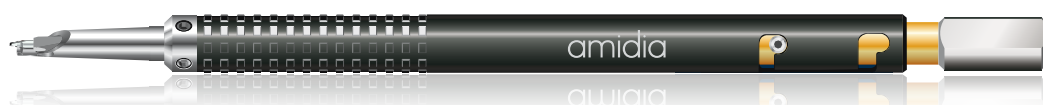
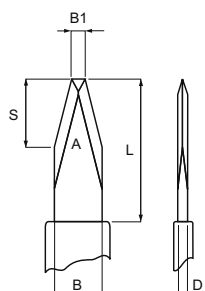
B = width / L = length / D = thickness / A = angle

Diamond knives for LRI surgery

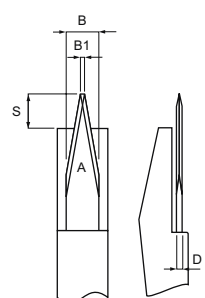
drawing	article no.	description	B	B1	L	D	A	blade
with 3 settings: 0.5, 0.55, 0.6								
	820-02		1.0	0.4	3.0	0.1	20°	20-02



with 1 setting								
	820-02-01	0.5	1.0	0.4	3.0	0.1	20°	20-02
	820-02-02	0.55	1.0	0.4	3.0	0.1	20°	20-02
	820-02-03	0.6	1.0	0.4	3.0	0.1	20°	20-02



Donnenfeld LRI knife								
	820-03	1 setting at 0.6	0.8	0.25	0.6	0.17	20°	20-03

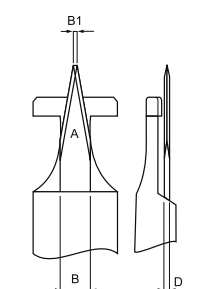


Features:

- single footplate design with a fixed depth of 0.6mm
- the shorter handle length promotes ease of use under the microscope or at the slit lamp
- the blade assembly retracts into handle for safe storage



Nichamin LRI knife								
	820-04		0.8	0.2		0.1	15°	20-04



Features:

- very small footplate
- better visualization for the surgeon
- excellent control while creating the incision
- diamond with a micro-flat tip
- accurate for techniques utilizing pachymetry
- steps: 0.45, 0.5, 0.55, 0.65, 0.7, 0.75



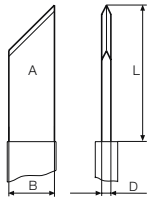
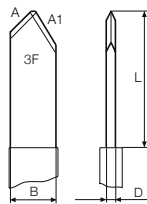
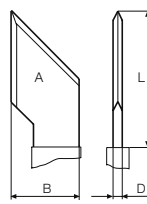
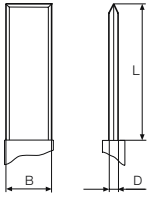
B = width / L = length / D = thickness / A = angle

Diamond knives with a micrometer for refractive surgery

Each depth can be adjusted without steps.

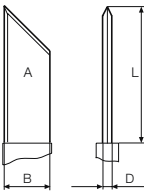
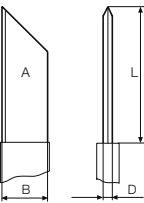
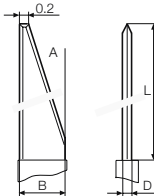
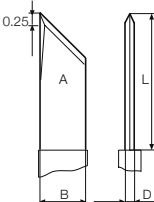
The scale is divided each hundredth millimeter t = blade thickness of 0.1mm.



drawing	article no.	description	B	L	D	A/A1	blade
straight							
	511	straight	1.0	3.0	0.17	45°	11
	511t	straight	0.9	3.0	0.1	45°	11t
	512	straight	1.0	3.0	0.17	30°	12
	512t	straight	1.0	3.0	0.1	30°	12t
tri-facet							
	513	tri-facet	1.0	3.0	0.17	45° / 30°	13
	513t	tri-facet	1.0	3.0	0.1	45° / 30°	13t
axe							
	525	axe	1.4	3.0	0.17	45°	25
	525t	axe	1.4	3.0	0.1	45°	25t
triple edge vertical							
	526	triple edge vertical	1.0	3.0	0.17		26
	526t	triple edge vertical	0.8	3.0	0.1		26t

B = width / L = length / D = thickness / A = angle



drawing	article no.	description	B	L	D	A	blade
double edge vertical							
	527	double edge vertical	1.0	3.0	0.17	45°	27
	527t	double edge vertical	1.0	3.0	0.1	45°	27t
single edge vertical							
	528	single edge vertical	1.0	3.0	0.17	45°	28
	528t	single edge vertical	1.0	3.0	0.1	45°	28t
arcuate (thornton)							
	533t	arcuate (thornton)	1.0	3.0	0.1	15°	33t
amidia trak							
	566	amidia-trak	1.0	3.0	0.17	45°	66

B = width / L = length / D = thickness / A = angle

Instructions for diamond knives with a micrometer

Fig. 1

Diamond blade retracted and protected.

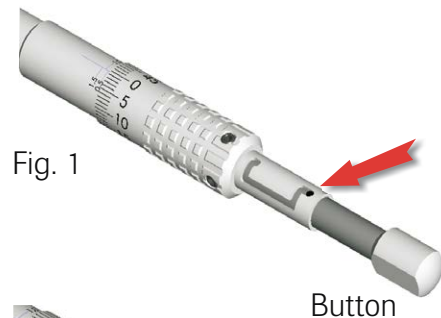


Fig. 2

Button has to be pushed from A to B before use.

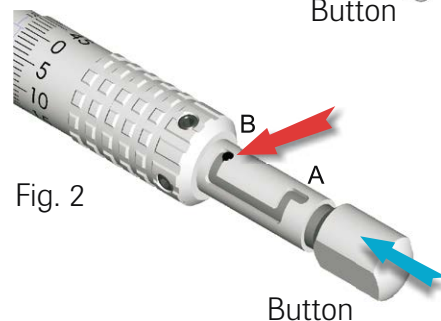


Fig. 3

Turn the micrometerdrum to position 0.
The blade is now flush with the guide shoe in position 0.

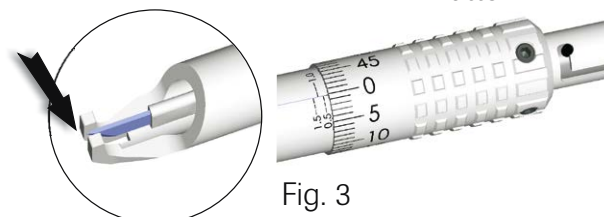


Fig. 4

Turn the micrometerdrum again to the requested depth setting.

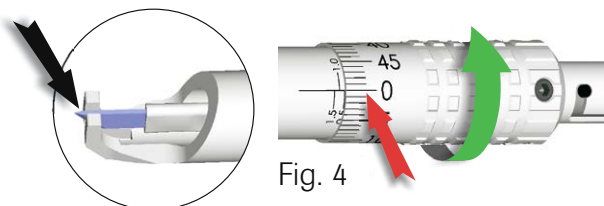
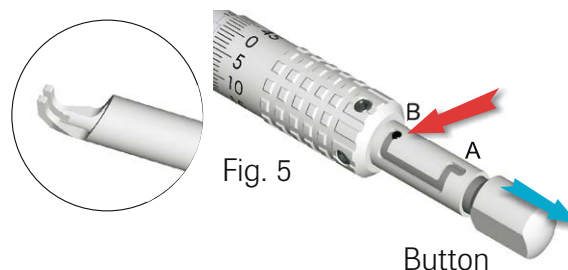


Fig. 5

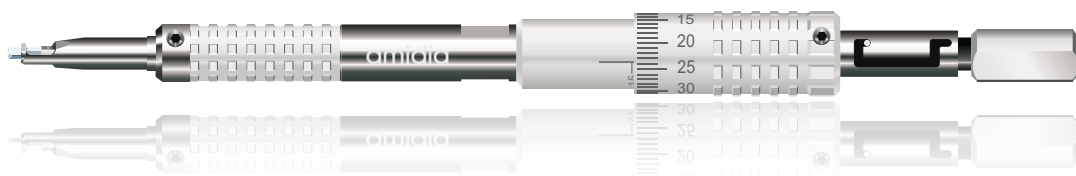
After use, the blade can be protected by retracting the button from B to A. The blade is now protected. The depth setting is not affected and remains the same as adjusted at Fig. 4.

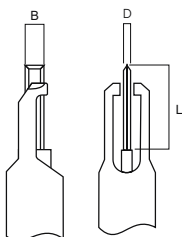


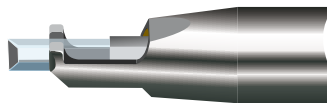
Before sterilizing the knife must be in it's original status with the blade retracted.

Diamond knives to implant Intacs and Kera Rings

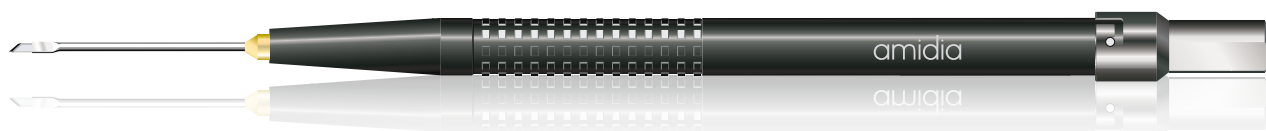
The footplate was specially designed for this procedure. The micrometer guarantees a very accurate cutting depth.

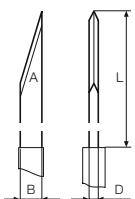


drawing	article no.	description	B	L	D	blade
Amidia INTACS – KERA RINGS						
	526-01	triple edge vertical	0.8	3.5	0.1	26-01
	526-02	triple edge vertical	1.0	3.5	0.2	26-02



Diamond knives for retinal surgery (with a titanium handle)



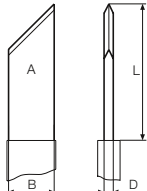
drawing	article no.	description	B	L	D	A	blade
	301R	retina straight	0.5	3.0	0.17	20°	01
	302R	retina straight	0.9	3.0	0.17	45°	02
	311R	retina straight	1.0	3.0	0.17	45°	11

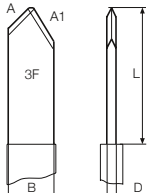
B = width / L = length / D = thickness / A = angle

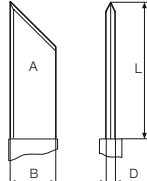
Step diamond knives

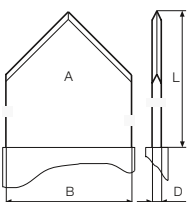
Available with all diamond blades you will find in our leaflets for seven step handle.



drawing	article no.	description	B	L	D	A/A1	blade
straight							
	811	straight for right handed	1.0	3.0	0.17	45°	11
	811-01	straight for left handed	1.0	3.0	0.17	45°	11-01
		steps at 0/0.3/0.4/0.5/0.6/0.8/1.0/2.5 mm					

tri-facet							
	813	tri-facet	1.0	3.0	0.17	45° / 30°	13
		steps at 0/0.3/0.4/0.5/0.6/0.8/1.0/2.5 mm					

double edge vertical							
	827	double edge vertical	1.0	3.0	0.17	45°	27
		steps at 0/0.3/0.4/0.5/0.6/0.8/1.0/2.5 mm					

spear							
	822	spear with blunt sides	3.0	4.0	0.17	90°	22
	823	spear with blunt sides	3.2	4.0	0.17	90°	23
		steps at 0.15/0.2/0.25/0.3/0.37/0.5/4.0 mm					

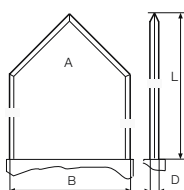
other steps available as per customers request

B = width / L = length / D = thickness / A = angle

Step diamond knives

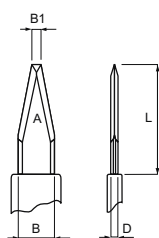


drawing	article no.	description	B	L	D	A	blade
clear cornea 60°							
	897	clear cornea with sharp sides	3.0	4.0	0.17	60°	97
	834	clear cornea with sharp sides	3.2	4.0	0.17	60°	34
steps at 0/0.25/0.3/0.35/0.4/1.0/2.5/5.0 mm							



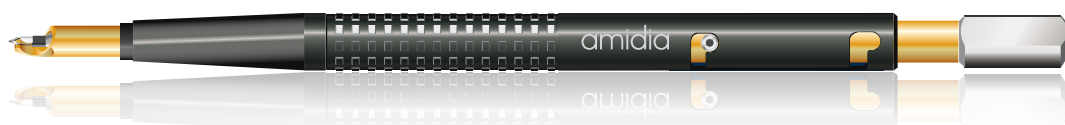
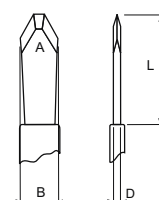
clear cornea 90°							
	898	clear cornea with sharp sides	2.5	3.5	0.17	90°	98
	895	clear cornea with sharp sides	2.6	3.5	0.17	90°	95
	877	clear cornea with sharp sides	2.8	3.5	0.17	90°	77
	873	clear cornea with sharp sides	3.0	3.5	0.17	90°	73
	874	clear cornea with sharp sides	3.2	3.5	0.17	90°	74
steps at 0/0.15/0.2/0.25/0.3/0.37/0.5/4.0 mm							

Glaucoma			B	B1	L	D	A	blade
	820-01		1.0	0.3	3.5	0.17	25°	20-01
steps at 0.15/0.2/0.25/0.3/0.37/0.5/4.0 mm								

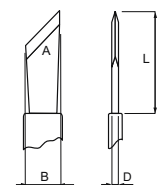


other steps available as per customers request

one step handle tri-facet								
	309-F	tri-facet, depth at 0.3	1.0			0.17	60°	09



one step handle straight								
	315-F	right-handed straight, depth at 0.3	0.7			0.17	45°	15
	315-01F	left-handed straight, depth at 0.3	0.7			0.17	45°	15

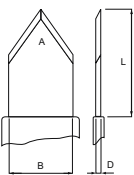
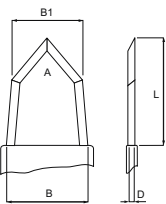


B = width / L = length / D = thickness / A = angle

Black diamond knives

- Better visualization
Non-glare surface
- Consistent, predictable & superior
diamond edge incision
- Reduced acquisition cost
- Reduced repair cost
- **available in a titanium or
a peek handle**



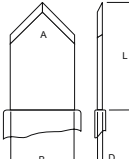
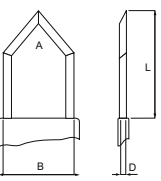
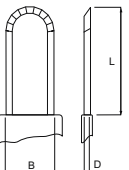
drawing	angled holder	straight holder	description	B1/B	L	D	A	blade
lance								
	CVD-1010-A	CVD-1010	lance	1.0	4.0	0.20	75°	1010
	CVD-1012-A	CVD-1012	lance	1.2	4.0	0.20	75°	1012
	CVD-1014-A	CVD-1014	lance	1.4	4.0	0.20	75°	1014
trapezoid								
	CVD-1175-A	CVD-1175	tapered spear	1.5-1.8	4.0	0.20	90°	1175
	CVD-1177-A	CVD-1177	tapered spear	1.8-2.4	4.0	0.20	90°	1177
	CVD-1179-A	CVD-1179	tapered spear	1.8-2.75	4.0	0.20	90°	1179
	CVD-1180-A	CVD-1180	tapered spear	2.5-2.8	4.0	0.20	90°	1180
	CVD-1182-A	CVD-1182	tapered spear	2.65-3.0	4.0	0.20	90°	1182
	CVD-1183-A	CVD-1183	tapered spear	2.8-3.0	4.0	0.20	90°	1183
	CVD-1185-A	CVD-1185	tapered spear	2.5-3.5	4.0	0.20	90°	1185
	CVD-1186-A	CVD-1186	tapered spear	3.2-3.5	4.0	0.20	90°	1186

B = width / L = length / D = thickness / A = angle

Black diamond knives

- Better visualization
- Non-glare surface
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- Reduced acquisition cost
- Reduced repair cost
- **available in a titanium or a peek handle**

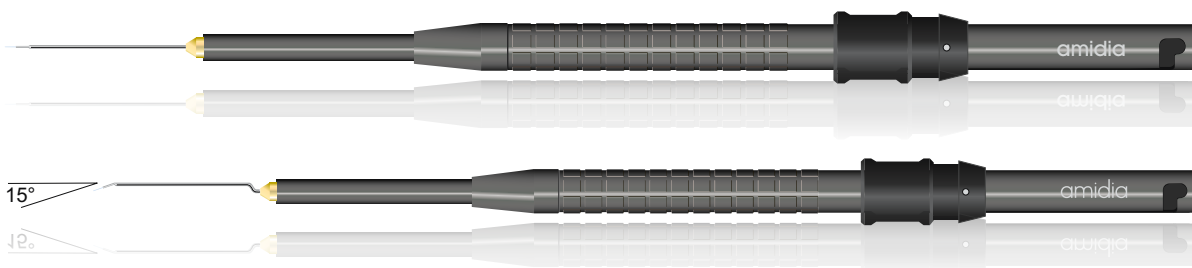


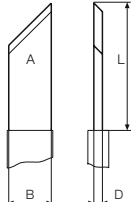
drawing	angled holder	straight holder	description	B	L	D	A	blade
spear 2 sides sharp								
	CVD-1120-A	CVD-1120	spear	2.8	4.0	0.20	90°	1120
	CVD-1123-A	CVD-1123	spear	3.0	4.0	0.20	90°	1123
	CVD-1125-A	CVD-1125	spear	3.2	4.0	0.20	90°	1125
clear cornea - 4 sides sharp								
	CVD-1146-A	CVD-1146	spear vc	1.8	4.0	0.20	90°	1146
	CVD-1150-A	CVD-1150	spear vc	2.2	4.0	0.20	90°	1150
	CVD-1152-A	CVD-1152	spear vc	2.4	4.0	0.20	90°	1152
	CVD-1154-A	CVD-1154	spear vc	2.5	4.0	0.20	90°	1154
	CVD-1158-A	CVD-1158	spear vc	2.65	4.0	0.20	90°	1158
	CVD-1160-A	CVD-1160	spear vc	2.8	4.0	0.20	90°	1160
	CVD-1162-A	CVD-1162	spear vc	3.0	4.0	0.20	90°	1162
	CVD-1164-A	CVD-1164	spear vc	3.2	4.0	0.20	90°	1164
crescent								
	CVD-1205-A	CVD-1205	9-edge vertical	1.4	4.0	0.20		1205
	CVD-1210-A	CVD-1210	9-edge vertical	2.0	4.0	0.20		1210

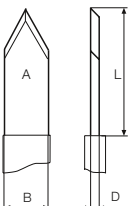
B = width / L = length / D = thickness / A = angle

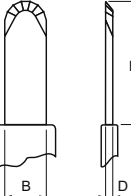
Diamond knives for micro surgery

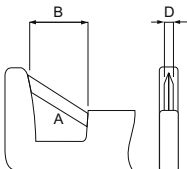
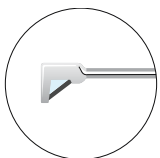
The amidia micro surgery handles are available with a straight or angled holder.



drawing	article no.		description	B	L	D	A	blade
	angled	straight						
	N250A	N250	straight, single sided	1.0	3.0	0.17	30°	50
	N267A	N267	straight, single sided	1.0	3.0	0.17	45°	67

lance								
	N268A	N268	lance, single sided	1.0	3.0	0.17	60°	68
	N251A	N251	lance, single sided	1.4	3.0	0.17	60°	51

round								
	N269A	N269	round 7 facets single sided	1.0	4.0	0.17		69

special								
 	N281		triple edge vertical	1.5	1.8	0.17	60°	81

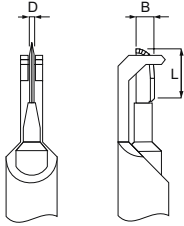


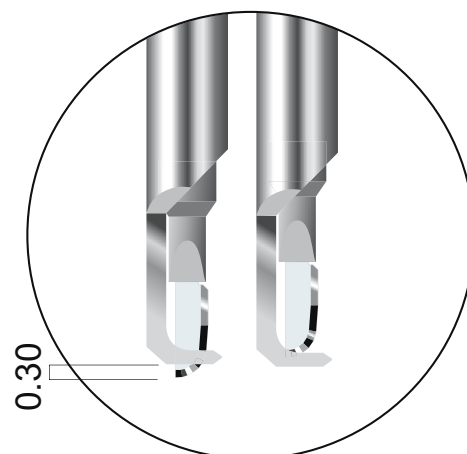
B = width / L = length / D = thickness / A = angle

Diamond knife for micro surgery

- Easy and fast cutting thanks to the extremely sharp diamond blade
- The precisely adjustable cutting depth allows a safe procedure
- Consistent cutting capabilities even after years of use
- Handle made of titanium and surface coated in high vacuum



drawing	article no.	description	B	L	D	blade
	N269-01	micro surgery	1.4	4.0	0.2	69-01

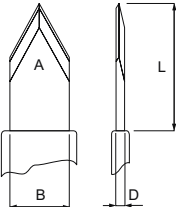
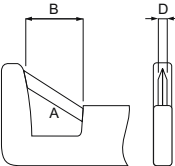


B = width / L = length / D = thickness / A = angle

Zeppelin diamond knives for micro surgery

For extremely delicate micro-incisions and dissections.
The cutting edges are distinguished by their superb sharpness.

ZEPPELIN
MEDICAL TECHNOLOGY

drawing	article no.	description	B	L	D	A	blade
							
	PDD 011	lance diamond knife, straight sharp, slightly upward angled tip 15° working/total length 50 mm/170 mm	1.40	3.0	0.17	60°	A-51
							
	PDD 111	lance diamond knife, straight sharp, slightly upward angled tip 15° working/total length 100 mm/220 mm	1.40	3.0	0.17	60°	A-51
							
	PDD 112	triple edge vertical diamond knife, straight, tip blunt, 90° angled working total length 100 mm/220 mm	1.40		0.17	60°	A-81
							
	PDD 113	triple edge vertical diamond knife, straight, tip sharp, 90° angled working total length 100 mm/220 mm	1.40		0.17	60°	A-81

To order

please contact
Zeppelin Medical Instruments GmbH
(marketer according to RL93/42EWG)
Mozartstrasse 3
A-6850 Dornbirn / Austria

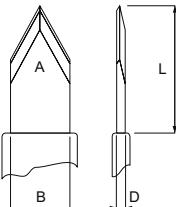
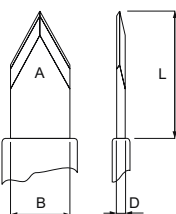
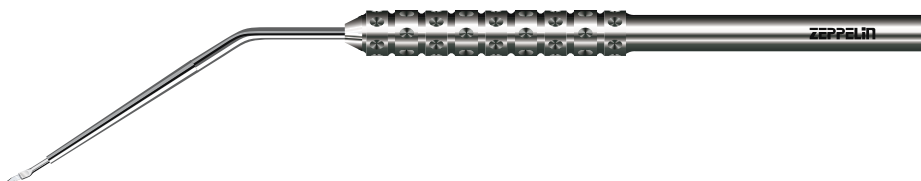
phone +43 (0) 5572 25677
fax +43 (0) 5572 25679
e-mail office@zeppelin-medical.com
website www.zeppelin-medical.com

B = width / L = length / D = thickness / A = angle

Amidia LTD
Mattenstrasse 11
CH-2555 Brugg

Phone +41 32 333 24 74
Fax +41 32 333 24 76

Mail info@amidia.ch
Web www.amidia.ch

drawing	article no.	description	B	L	D	A	blade
							
	PDD 211	lance diamond knife, straight sharp, slightly upward angled tip 15° working/total length 120 mm/240 mm	1.40	3.0	0.17	60°	A-51
							
	PDD 311	lance diamond knife, straight sharp, slightly upward angled tip 15° working/total length 100 mm/220 mm	1.40	3.0	0.17	60°	A-51
	PDD 411	lance diamond knife, straight sharp, slightly upward angled tip 15° working/total length 120 mm/240 mm	1.40	3.0	0.17	60°	A-51
	PDD 511	lance diamond knife, straight sharp, slightly upward angled tip 15° working/total length 140 mm/260 mm	1.40	3.0	0.17	60°	A-51

To order

please contact

Zeppelin Medical Instruments GmbH
 (marketer according to RL93/42EWG)
 Mozartstrasse 3
 A-6850 Dornbirn / Austria

phone +43 (0) 5572 25677
 fax +43 (0) 5572 25679
 e-mail office@zeppelin-medical.com
 website www.zeppelin-medical.com

B = width / L = length / D = thickness / A = angle

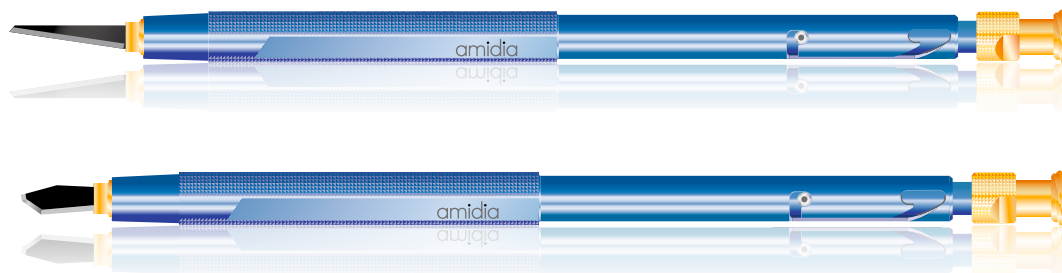
Amidia LTD
 Mattenstrasse 11
 CH-2555 Brugg

Phone +41 32 333 24 74
 Fax +41 32 333 24 76

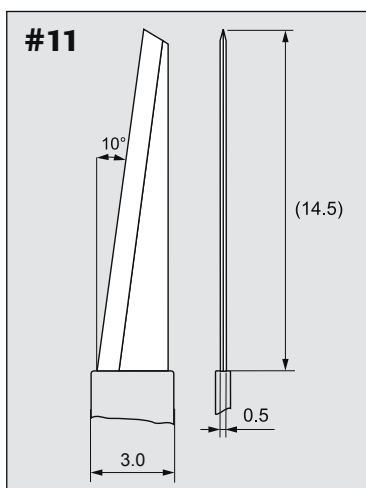
Mail info@amidia.ch
 Web www.amidia.ch

Cosmetic diamond knives for plastic surgery

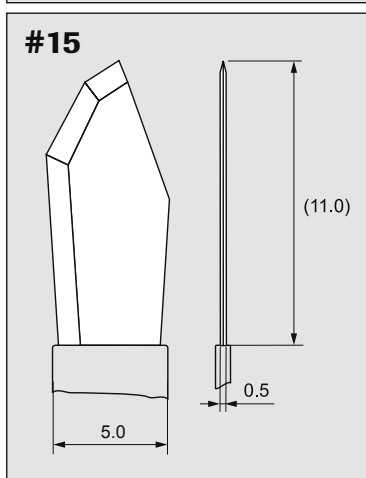
Cosmetic scalpels are much sharper than steel blades and they keep their sharpness even after many procedures. This enables the surgeon to have the highest precision and the cleanest cut available. Incisions with diamond scalpels are easier to make; wounds heal better and faster.



article no. CVD-1310-Titan



article no. CVD-1320-Titan



B = width / L = length / D = thickness / A = angle

Cleaning liquid & accessories

cleaner

Cleaner deconex POWER ZYME and deconex 53 INSTRUMENT are the recommended cleaning and disinfection liquids for the diamond knives

deconex POWER ZYME 1'000 ml

deconex 53 INSTRUMENT 1'000 ml

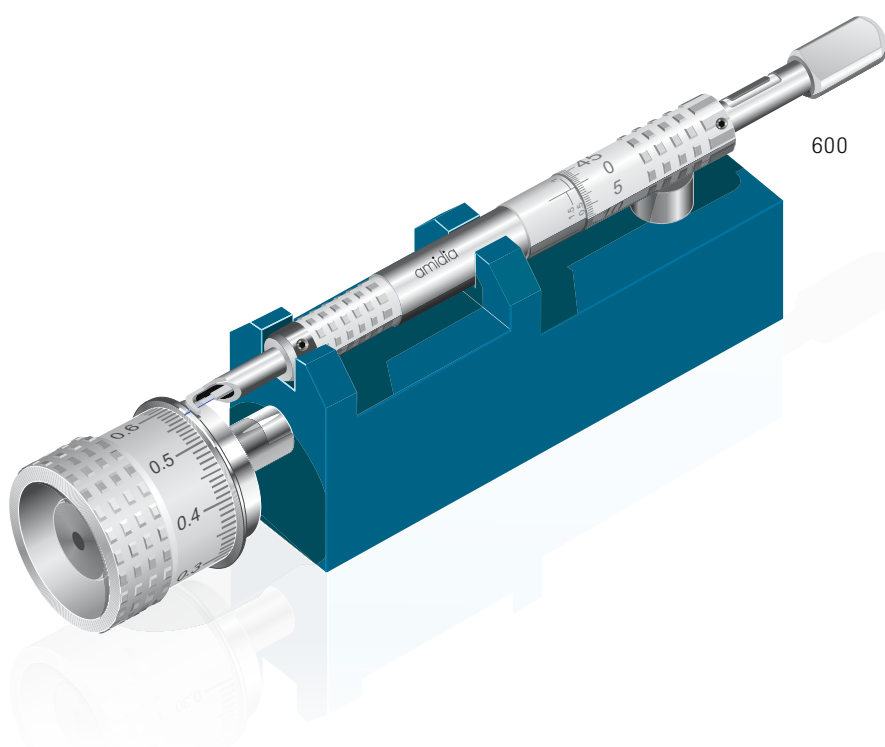
cleaning sticks

Amidia cleaning sticks to remove the particles from the blade

9014 1 set of cleaning sticks (5 pieces of styropor)

measuring gauge

600 measuring gauge type RK



Directions for use

Amidia diamond scalpels

Legend to Symbols

Manufacturer



Article Number



unsterile



Directions for use to consider



Attention



CE Class I



CE Class Im



Description

Diamond scalpels are reusable instruments, consisting of a handle and a diamond blade. The blades are made from natural or synthetic diamond and measure between 100µm and 200µm thick; the handles are made from titanium.

Applications

Diamond scalpels are designed for various eye operations.

Precautions

- Read instructions before use
- Diamond scalpels are not sterile and must be sterilised.
- Diamond scalpels must be handed to surgeons with the blade retracted and handed back by them with the blade in the same position. They must **not** be placed **opened** on the instrument tray.

Instructions for use

- Diamond scalpels must be thoroughly cleaned and sterilised before use. Diamond scalpels must also be cleaned and then sterilised after every subsequent use. For instructions on how to clean and sterilise diamond scalpels please refer to the section entitled **Cleaning and Sterilisation**.
- The diamond blades must never come into contact with other instruments. Special care must therefore be taken during surgical operations, to ensure that the blades do not come into contact with instruments such as forceps/tweezers or sharp surgical instruments.
- Ensure that diamond blades are not damaged before use. Damaged diamond scalpels should not be used. The blades can be re-sharpened.
- **After every use of a diamond scalpel, care must be taken to ensure that the blade is pulled back into the handle, using the pressure or bayonet mechanism.**

Cleaning

Immediately after using a diamond scalpel, the blade must be rinsed with water using a 20ml spray, preventing cell particles or visco-elastic materials from sticking to the blade. Dirt on the titanium handle can be removed using a small soft brush. Care must be taken to ensure that the blade has been retracted into the handle.

Manual cleaning

The following cleaning process has been approved in accordance with the ASTM standard test method E 2314-03 (with a germ reduction rate of up to 4₁₀). The manufacturer recommends manual cleaning.

- Immediately after use, the blade must be rinsed with water using a 20ml syringe
- The diamond scalpel must be placed in an alkaline cleaning solution (pH ≥ 10) for at least 12 minutes at 55°C. The cleaner "Mediclean Forte" of Dr. Weigert is validated.
- The diamond scalpel must then be neutralised for 2 minutes in citric acid and then washed for at least 2 minutes in running water (3l/min).

Machine cleaning

In accordance with the recommendations of RKI, diamond scalpels must be cleaned in a washing machine designed for micro-surgical instruments. The manufacturer's instructions should be followed. This is not a procedure validated by the diamond scalpel manufacturer.

Note: The diamond blades must never come into contact with other instruments; otherwise there is a risk that the blades will be damaged. Great care must therefore be taken when loading washing machines.

After cleaning, the condition of the instrument must be checked. Following this, the diamond scalpel must be immediately placed in the sterilisation box or in another suitable container.

Diamond scalpels can also be cleaned using ultra-sound cleaning systems.

Sterilisation

- Diamond scalpels **must** be sterilised before each use.
- Diamond scalpels must be sterilised with the diamond blades retracted. Please therefore ensure that the blade has been pushed back into the titanium handle.
- Sterilisation filters must be fitted with protective materials (cushioned mats).

Sterilisation method	Type of sterilisation	Item loaded	Temperature	Sterilisation time in minutes
Steam	Centrifugal cycle	packaged	134°C (270°F)	18.0
Flash process	Centrifugal cycle	not packaged	134°C (270°F)	4.0
Steam	Flash cycle	packaged	134°C (270°F)	4.0
Flash process	Flash cycle	not packaged	134°C (270°F)	18.0

The above specifications meet the industry standards for steam sterilisation cycles.

Since there are variations in different steam sterilisation systems and the levels of germs on instruments in clinical use vary greatly, Amidia LTD cannot provide any specific data to guarantee an appropriate level of sterilisation. Every hospital must check the correct procedures for guaranteeing a proper level of sterilisation. Please refer to the current ANSI/AAMI standards on hospital procedures for steam sterilisation and sterilisation guarantees or the hospital's own procedures for the most suitable specifications.

For steam sterilisation, please refer to ANSI/AAMI [standards and recommended practice](#) volume 1: Sterilisation, ST46-1993, Section 5.8.

For flash processes, please refer to ANSI/AAMI standards for "Good Hospital Practice": Flash Sterilization – Steam sterilisation for "Patient care items for immediate use". ST37-1996, Section 5.4

We recommend that packaged diamond scalpels should be steam sterilised at 270°F (134°) either in a centrifugal cycle for 18 minutes or in a flash cycle for 18 minutes.

Note:

- Diamond blades are made from an extremely hard but sensitive material. Handle these ultra-sharp blades carefully to avoid damage.
- Mechanical contact **must** be prevented.
- Diamond scalpels must be cleaned and sterilised before each use.
- After use the blade must be immediately retracted into the titanium handle.
- When used correctly, diamond scalpels can withstand several hundred cleaning and sterilisation cycles.
- Diamond scalpels must never be stored un-cleaned.

Diamond scalpels (RK-Blades) with a micrometer (A500 – 599)

Setting the micrometer dial:

1. Diamond blade retracted and protected.
 2. Button has to be pushed from A to B before use.
 3. Turn the micrometer drum to position 0. The blade is now flush with the guide shoe in position 0.
 4. Turn the micrometer drum again to the requested depth setting.
 5. After use, the blade can be protected by retracting the button from B to A. The blade is now protected. The depth setting is not affected and remains the same as adjusted at 4.
- ⇒ see instruction with pictures on page 16.

We recommend that the cutting depth should be checked. The cutting depth can be measured using an A-600 (device).

Maintenance / Guarantee

We suggest sending diamond knives for an inspection to our company at least after 500 surgeries.

Amidia LTD provides a 3-year guarantee for all mechanical components, on condition that the scalpels are used correctly with the titanium handle.

Proper Disposal

The country specific laws and regulations have to be observed for proper disposal.

Manufacturer:

Amidia LTD, Mattenstrasse 11, CH-2555 Brugg, Switzerland, Phone +41 32 333 24 74 • Fax +41 32 333 24 76

Why diamonds are better than disposable blades

We conducted a retrospective study of 12,182 consecutive patients who underwent clear corneal phacoemulsification, comparing incision technologies.

Group A

In 3,912 patients the main and sideport incisions were created with **diamonds**.

Group B

In 8,270 patients **standard metal keratomes** were employed for both incisions.

All patients were seen within 8 hours of surgery.

There were **no postoperative wound leaks (0/3,912)** at any point in time with a mean first visit postoperative pressure of 19.2 mm Hg **in Group A**.

There were **9/8,270 (p<0.05) wound leaks** with a mean first visit postoperative pressure of 21.6 mm Hg (p<0.05) in Group B.

All 9 wound leaks in **Group B** were from the sideport. 3/9 wound leaks required suturing. 6/9 wound leaks sealed spontaneously.

The intraocular pressure difference reflected the need to hydrate the wounds more in Group B as they were more difficult to seal and the eyes were left with a higher intraocular pressure at the end of the case. 180/3,912 (4.55%) of patients in Group A had an early IOP spike greater than 28 mm Hg versus 842/8,270 (10.18%) in Group B (p<0.05).

None of the patients in either group experienced an endophthalmitis or vascular occlusion.

We found that the **use of diamonds** for the incision significantly reduced the rate of **wound leaks** and the amount of **wound hydration** resulting in lower early postoperative IOP's and potentially dangerous IOP spikes.

Christoph Kranemann, MD

Customer service

Most of our diamond blades can be resharpened several times if they are not too badly damaged.

For each repair, the handle is totally dismantled, and all of the mechanical parts are cleaned, checked and replaced if necessary. Micrometer and step knives are recalibrated.

After regrinding, the diamond blade is as good as a new blade.

We accept other knives for repair except the micrometer knives. However, we can not accept responsibility for the breakage of blades other than Amidia.

We always do our best in order to return your repairs as soon as possible.

However, the lead time may be variable due to the many different kind of blade types we receive for resharpening.

For more information about
our service, please contact
your distributor or Amidia.

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