

All NOGA products meet the strict requirements of ISO9001 and ISO14001.

We invite you to visit our web site: www.noga.com for more information.

NOGA reserves the right to make changes in any of its products without prior notice.

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WARNING   

- Blades are sharp and can cut.
- Blades can break causing flying objects.
- Sharp edges and flying objects can cause injury.
- Wear safety goggles (user and bystanders).
- Do not pry or bend blades.
- Keep away from children.
- Do not regrind blades.

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NOGA head office

Noga Engineering Ltd. was established in 1980 by Gustav Hirsch and his two sons Neft and Shuli.

Gustav is the founder of the cutting tool industry of Israel.

In 1941 he started Hanita Metal Works and in 1960 he established Vargus Ltd. which bears the names of Varda and Gustav.

Over the last 28 years Noga has grown to become the world leader in the manufacturing of three main lines:

■ Deburring tools ■ Holding systems ■ Cutting fluid applicators

All Noga items are designed to save you time and money and are very competitive in price.

Noga's strongest points are: product design and development, quality, service and product range. Our products are sold in more than 50 countries around the world either through our own companies or through a network of exclusive agents.

We thank you for choosing Noga.

deburring system

NEW PRODUCTS		6-7	THE NEW YT RANGE
 	HEAVY DUTY (ø3.2mm)	8-9	NOGA BURR 3 NOGA BURR 5 SUPER BURR EDGE OFF RAPID BURR NOGAGRIP 1 HANDLE NOGAGRIP 3 HANDLE S HOLDER S BLADES
	LIGHT DUTY (ø2.6mm)	10-11	MAGIC BURR 2 MAGIC BURR 4 TELE BURR TEDDYBURR NOGAGRIP 2 HANDLE NOGAGRIP 3 HANDLE N HOLDER N BLADES
 	COUNTERSINKS	12-13	COUNTERSINKS REVERSIBLE NOGAGRIP 3 HANDLE C HOLDER BLADES
	ROTODRIVE COUNTERSINKS	14-15	10.4 ROTODRIVE EXTERNAL ROTODRIVE HEAVY DUTY INT. ROTODRIVE HEAVY DUTY EXT. ROTODRIVE NOGAGRIP 1 HANDLE NOGAGRIP 3 HANDLE ROTODRIVE HOLDERS BLADES
 	SCRAPERS	16-17	TRIANGULAR SCRAPER MINI SCRAPER INTERNAL SCRAPER ADJUSTABLE SCRAPER NOGAGRIP 3 HANDLE SC HANDLE T HOLDER D HOLDER BLADES



CONTENTS

	<p>DOUBLE EDGE CUTTING</p>	<p>18-19</p>	<p>NOGA O-RING NOGA V CUT KEYWAY BURR DOUBLE BURR NOGAGRIP 1 HANDLE NOGAGRIP 3 HANDLE K HOLDER L HOLDER BLADES</p>
	<p>CERAMICS</p>	<p>20-21</p>	<p>CONVEXED CERA-CUT CONCAVED CERA-CUT CONVEXED DISPOSABLE CERA-CUT CERAMIC DOUBLE BURR CERA-CUT HANDLE BLADES</p>
	<p>SETS AND KITS</p>	<p>22-23 24-25 26-27</p>	<p>PROMO SETS ECONOMY SETS COBALT SETS TELE SETS PLATINUM BOX GOLD BOX SILVER UNIKIT BRONZE UNIKIT NOGA 007 PLASTIC EDGE OFF NOGA TRIO NOGA MINI SET</p>
	<p>SPECIALITY TOOLS AND BLADES</p>	<p>28-31</p>	<p>BLADES HANDLES HOLDERS</p>

deburring system



Adjustable Mini Scraper YT1100

The best mini scraper for tool and die makers.
Includes:
YT handle (YT1000) and
D75 H.S.S triangular mini scraper (BD7501).
Size: 75x3.2mm.



Adjustable Scraper YT1200

Ideal for scraping, trimming and deburring almost all materials.
Includes:
YT handle (YT1000) and
T80 double ended triangular
medium scraper (BT8001).
Size: 80x4.5mm.



HANDLE



YT Handle YT1000

The perfect grip on:
Noga adjustable scrapers
Needle files
Pins
Drills
• Quick change
• Fits every hand
• Flexible collet
Range: 2.2-4.5mm.

NEW PRODUCTS

DIAMOND NEEDLE FILES SETS

The files are of Swiss made blanks electroplated with ultra high concentration of precisely graded diamond particles. A must for any tool and die shop, extruders, and repairs of hardened alloys and ceramic.

Total length - 140 mm.

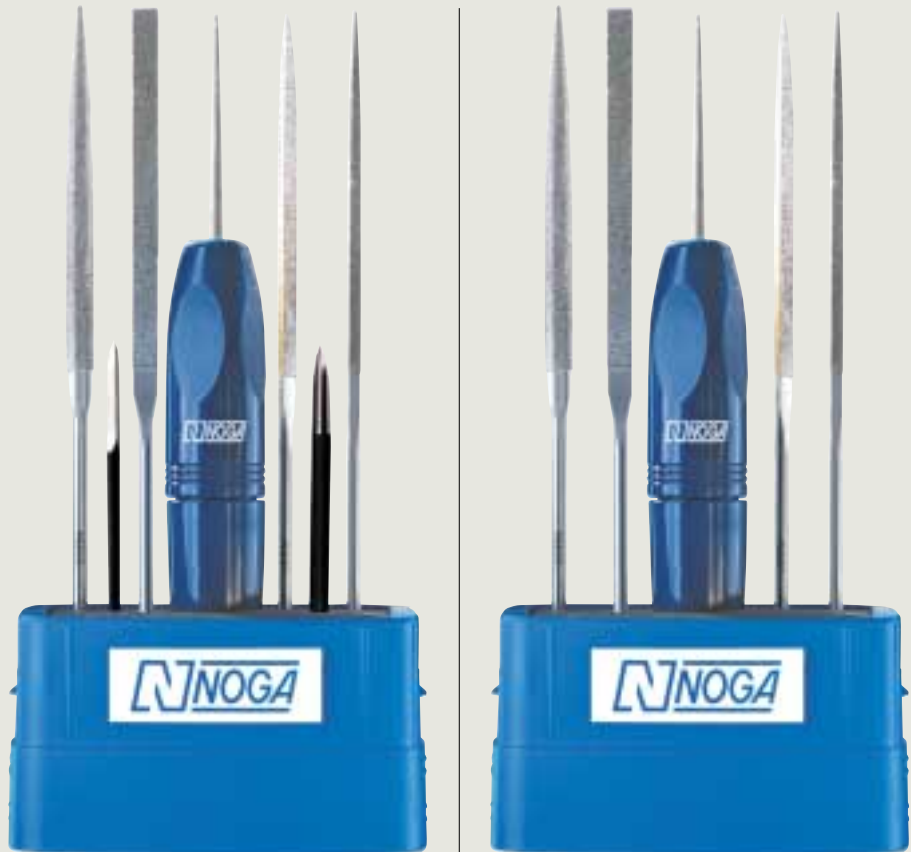
Coated length - 70 mm.

Shank - \varnothing 3 mm.

Grit size: D126












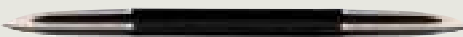


YT 3000 - Includes 5 files as shown below, D75 HSS Triangular Scraper, T80 double ended triangular Scrapers and YT1000 handle.

YT 3300 - Includes 5 files and YT1000 handle.



YT3000

YT3300

Order No.	Shape	Width / Thickness (mm)	
DT1050	 Equaling	5.1x1.4	
DT1051	 Triangular	3.9	
DT1052	 Square	2.5	
DT1053	 Half round	5.4x1.9	
DT1054	 Round	3.0	
		Width/Length (mm)	
BT8001	 Triangular	4.5x80	T80 Blade Double ended triangular scraper. 
BD7501	 Triangular	3.2x75	D75 Blade H.S.S. triangular mini scraper. 

deburring system

NOGA BURR 3 NG1003

Will do almost all of your deburring jobs.
Includes: NG-1 handle, S10, S20 and S35 blades.

NOGA BURR 5 NG1005

Same as NG1003 but with 2 extra blades.
Suitable for coarse to extra fine deburring operations.
Includes: NG-1 handle, S10, S20, S35, S101 and S202 blades.

SUPER BURR NG3003

For heavy duty jobs.
Includes: NG-3 handle, S holder, S100, S20 and S30 blades.



HANDLES



NG-1 Handle NG1000

NogaGrip-1 holds all S blades (3.2mm). Spare blades are kept inside the handle. Designed for maximum comfort in your hand.



NG-3 Handle NG3000

NogaGrip-3 holds all blade holders. Spare blades are kept inside the handle. Designed for maximum comfort in your hand.

HOLDER



S Holder EL02003

Holds S blades (3.2mm).
S holder telescopes from 30-115mm.
Length: 131mm.



HEAVY DUTY $\phi 3.2\text{mm}$



EDGE OFF EO1000

Disposable tool. A handy pocket clip is a standard feature of this tool.

Includes: S10 blade mounted in an 8mm painted hexagonal aluminum handle.



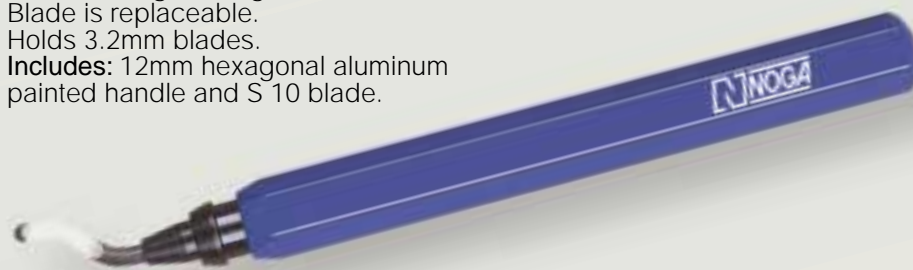
RAPID BURR RB1000

Steel housing for long life of handle.

Blade is replaceable.

Holds 3.2mm blades.

Includes: 12mm hexagonal aluminum painted handle and S 10 blade.



All blades below are made of H.S.S.. Hardness 62-64Rc except S100 Cobalt 65-67Rc

BLADES	Order No.		Incl. angle (degrees)	Pkg. weight (grams)	Package quantity	Works best on
S10	BS1010		40	31	10	steel, aluminum and plastic
S10Tin	BS1012		40	31	10	abrasive material
S20	BS2010		60	33	10	brass and cast iron
S20 Tin	BS2012		60	33	10	stainless steel
S30	BS3010		40	31	10	both int. and ext. burrs
S35	BS3510		55	33	10	straight edges on most materials
S60	BS6001		40	9	1	cross holes in difficult to reach places
S100 Cobalt	BS1018		45	32	10	plastic and hard materials
S101	BK1010		40	29	10	fine edges on all materials
S150	BK3010		45	27	10	holes as small as 1.5mm Dia.
S202	BK2010		55	28	10	brass and cast iron fine edges

L/R - for left and right hand users.

deburring system

MAGIC BURR 2 NG2002

Will do almost all of your deburring jobs.
Includes: NG-2 handle, N1 and N2 blades.

MAGIC BURR 4 NG2004

Same as NG2002 with two extra blades for cross holes in difficult to reach places
Includes: NG-2 handle, N1, N2, N3 and N6 blades.



TELE BURR NG3002

Holds 2.6mm N blades.
Highly popular tool.
Includes: NG-3 handle, N holder, N1 and N2 blades.



HANDLES



NG-2 Handle NG2000

NogaGrip-2 holds N blades (2.6mm). Spare blades are kept inside the handle. Designed for maximum comfort in your hand.



NG-3 Handle NG3000

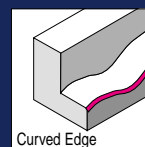
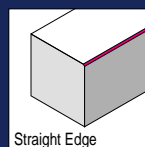
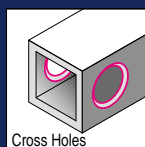
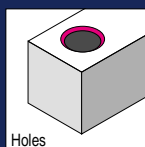
NogaGrip-3 holds all blade holders. Spare blades are kept inside the handle. Designed for maximum comfort in your hand.

HOLDER



N Holder EL01033

Holds 2.6mm blades.
N holder telescopes from 25-115mm.
Length: 131mm.



LIGHT DUTY $\phi 2.6\text{mm}$










TEDDYBurr TB1000



Design for hard to reach locations.
Blade is replaceable.
Steel housing for long life of handle.
Includes: 8mm painted hexagonal aluminum handle and N1 blade.

All blades below are made of H.S.S.. Hardness 62-64Rc except N10 Cobalt 65-67Rc

BLADES	Order No.		Incl. angle (degrees)	Pkg. weight (grams)	Package quantity	Works best on
N1	BN1010		40	13	10	steel, aluminum and plastic
N1 Tin	BN1012		40	13	10	abrasive material
N2	BN2010	 L/R	80	14	10	brass and cast iron
N2 Tin	BN2012	 L/R	80	14	10	stainless steel
N10 Cobalt	BN1310		45	13	10	plastic and hard materials
N3	BN3010		50	13	10	both int. and ext. burrs
N6	BN6001		40	6	1	cross holes in difficult to reach places

L/R - for left and right hand users.

deburring system

COUNTERSINK NG3100

The standard tool for countersinking.
Useful for chamfering deep holes.

Includes: NG-3 handle, C holder and
C20 countersink (20mm).



HANDLE



NG-3 Handle NG3000

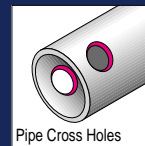
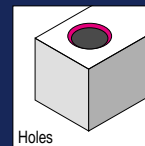
NogaGrip-3 holds all blade holders.
Designed for maximum comfort in
your hand.

HOLDER

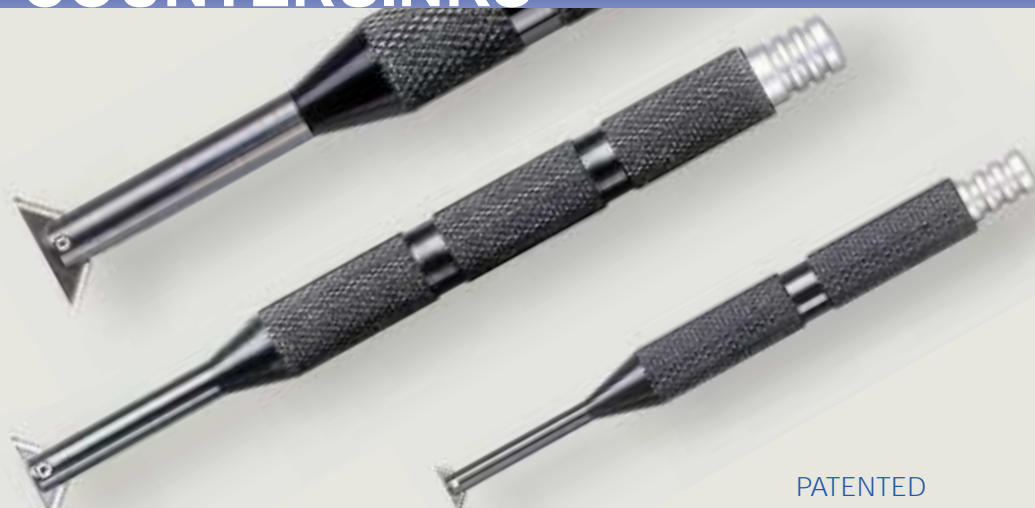


C Holder CH3000

Holds C12, C20 and C30
countersinks. M7 external thread.
Has an hexagonal cross section to
prevent rotating inside handle.
Length: 131mm.



COUNTERSINKS



PATENTED

MINI REVERSIBLE RC1000

Very fine tool for deburring both back and front sides of holes.
Range: 3-5.5mm.
Includes: steel handle and R1 blade.

MEDIUM REVERSIBLE RC2000





Range: 5-10mm.
Includes: steel handle and R2 blade.

LARGE REVERSIBLE RC2200

Range: 10-22mm.
Includes: steel handle and R3 blade.

TO REPLACE THE BLADE
Pull the aluminum knob out of the handle. At its end there is an hexagonal key. Use this key to replace the blade.

All blades below are made of H.S.S.. Hardness 62-64Rc.

BLADES	Order No.		Range (mm)	Countersinking angle (degrees)	Weight (grams)	Package quantity
C12	BC1211		1-12	90	25	1
C20	BC2011		3-20	90	28	1
C30	BC3011		3-30	90	58	1
R1	BR1001		3-5.5	90	5	1
R2	BR2001		5-10	90	7	1
R3	BR3001		10-22	90	8	1

deburring system

H.D. EXT. ROTODRIVE NG3500

Chamfers the O.D. on bars and tubes. Range: 8-28mm. Includes: NG-3 handle, H.D. external RotoDrive holder, and EX28 countersink.

PATENTED

H.D. ROTODRIVE NG3400

40mm displacement allows for heavy duty burrs to be removed. Continuous rotation of countersink enables very fast chamfering. Includes: NG-3 handle, H.D. cranked RotoDrive holder and C20 countersink.

PATENTED



HANDLES



NG-1 Handle NG1000

NogaGrip-1 holds all S blades (3.2mm). Designed for maximum comfort in your hand.



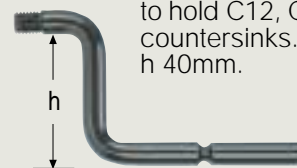
NG-3 Handle NG3000

NogaGrip-3 holds all blade holders. Designed for maximum comfort in your hand.

HOLDERS

H.D. RotoDrive Holder EL0802

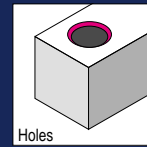
Heavy duty cranked holder. External M7 thread to hold C12, C20 and C30 countersinks. h 40mm.



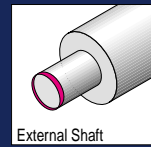
H.D. Ext. RotoDrive Holder EL0902

Heavy duty cranked holder. Accepts EX28 external countersink. h 40mm.





Holes



External Shaft

COUNTERSINKS



EXT. ROTODRIVE NG1700

Chamfers the O.D. on bars and tubes. Quickest way to chamfer O.D. on almost all materials. Range: 4-18mm. Includes: NG-1 handle and external RotoDrive EX18 countersink.



PATENTED

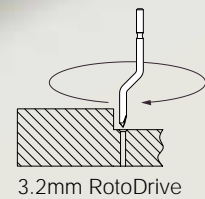


ROTODRIVE NG1200

The quickest way to chamfer by hand. Single flute countersink provides a smoother cut. Includes: NG-1 handle and RD10.4 RotoDrive countersink.



PATENTED



3.2mm RotoDrive

All blades below are made of H.S.S.. Hardness 62-64Rc.

BLADES	Order No.		Range (mm)	Countersinking angle (degrees)	Weight (grams)	Package quantity
RD3.2	BC3201		0-3	90	6	1
RD6.3	BC6301		1-6.3	90	10	1
RD8.3	BC8301		1-8.3	90	12	1
RD10.4	BC1041		1-10.4	90	15	1
RD16.5	BC1651		1-16.5	90	34	1
C12	BC1211		1-12	90	25	1
C20	BC2011		3-20	90	28	1
C30	BC3011		3-30	90	58	1
EX18	EX2001		4-18	90	16	1
EX28	EX3001		8-28	90	40	1

deburring system

MINI SCRAPER NG3700

Ideal for tool and die makers.

Includes: NG-3 handle, D holder, triangular mini scraper D50 blade and hex key.



TRIANGULAR SCRAPER NG3600

Used for standard scraping.

Includes: NG-3 handle, T holder and triangular scraper T70.



HANDLES



NG-3 Handle NG3000

NogaGrip-3 holds all blade holders. Designed for maximum comfort in your hand.



SC Handle SC1300

12mm anodized handle. Knurled locking collar to control blade extension.
Holds: D50, D66, D75, D77 and T80 scrapers.
Length: 120mm.
Hex: 12mm.

HOLDERS



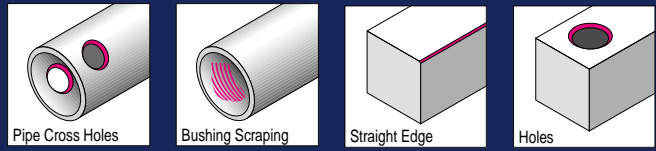
T Holder EL06023

T holder is designed to hold T50 and T70 new scrapers.
Has M5 internal thread.
Length: 113mm



D Holder EL05003

D holder is designed to hold D50 and D66 blades. A 3mm setscrew is holding the blade.
Hex key included.
Length: 131mm.



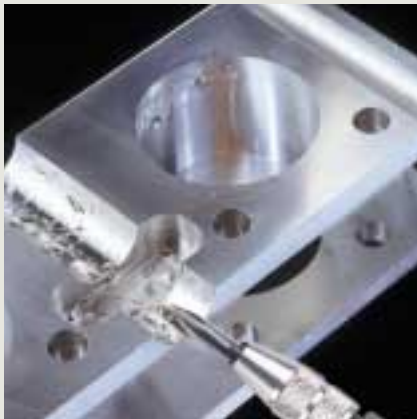
SCRAPERS



INTERNAL SCRAPER NG3710

Ideal for cross-holes deburring.

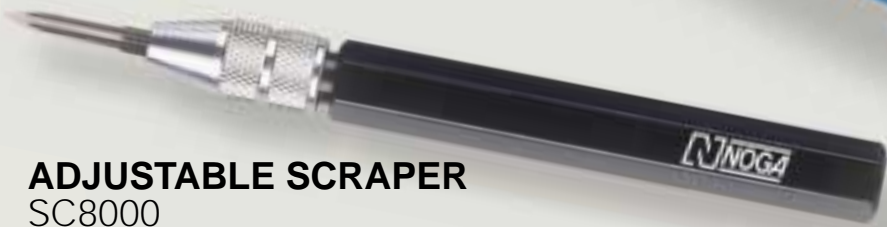
Includes: NG-3 handle, D holder and Internal scraper D66 blade.



ADJUSTABLE SCRAPER SC8000

Ideal for scraping, trimming and deburring almost all materials.

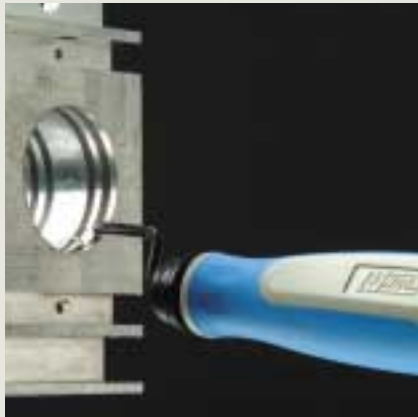
Includes: 12mm anodized handle and T80 double ended triangular scraper.



All blades below have hardness 62-64Rc, except D55 Carbide 1400-1700 HV, and T80 CR115 58-60Rc.

BLADES	Order No.		Width/Length (mm)	Included angle (degrees)	Weight (grams)	Package quantity
D50	BD5010		3.2 x 50	60	27	10
D55 Carbide	BD5501		3.2 x 50	60	9	1
D66	BD6610		3.2 x 48	50	34	10
D75	BD7501		3.2 x 75	60	8	1
D77	BD7701		3.2 x 73	50	9	1
T50	BT5000		I.D3.5 x 51	60	8	1
T70	BT7000		I.D4.2 x 57	60	11	1
T80	BT8001		4.5 X 80	60	11	1

deburring system



NOGA O-RING BURR NG1100

Removes burrs from internal O-ring grooves.
Range: 0-3mm (groove width).
Includes: NG-1 handle and O-ring blade.



PATENTED



NOGA V CUT NG3200

For deburring sheet metal 1-8mm.
Includes: NG-3 handle, L holder and L3 blade.



HANDLES



NG-1 Handle NG1000

NogaGrip-1 holds all S blades (3.2mm). Designed for maximum comfort in your hand.



NG-3 Handle NG3000

NogaGrip-3 holds all blade holders. Designed for maximum comfort in your hand.

HOLDERS



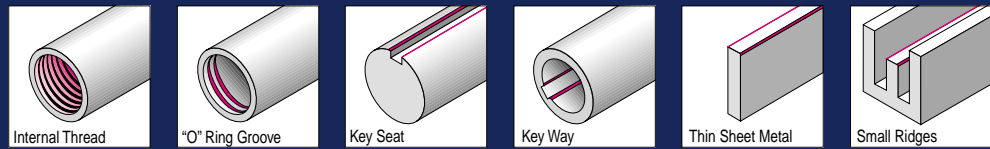
K Holder EL04003

Holds K blades with M3 screw.
Length: 135mm.

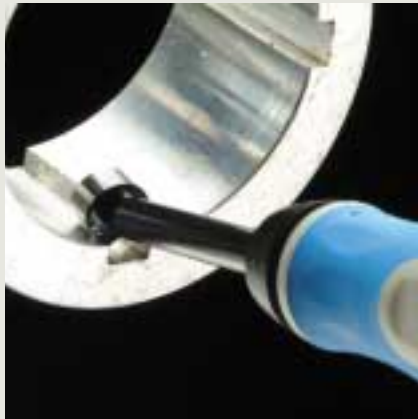


L Holder EL07013

Holds L blades. Blades are held in a 3mm square hole and tightened with 4mm setscrew.
Length: 131mm.



DOUBLE EDGE CUTTING



KEYWAY-BURR NG3300

Effectively removes burrs from internal and external keyways.

Range: 2.4-11mm.

Includes: NG-3 handle, K holder and N80K blade.



DOUBLE BURR DB1000

Simultaneously removes burrs from both sides of sheet metal.

DB handle with safety guard to protect your hand.

Unique round cutting blades can be rotated and reversed for long life.

For corners, use one blade only.

Range: 0-12mm.

Includes: DB handle, hand guard and two N80 blades.



All blades are made of H.S.S.. Hardness 62-64Rc except N80M42 and N80KM42, 65-67Rc.

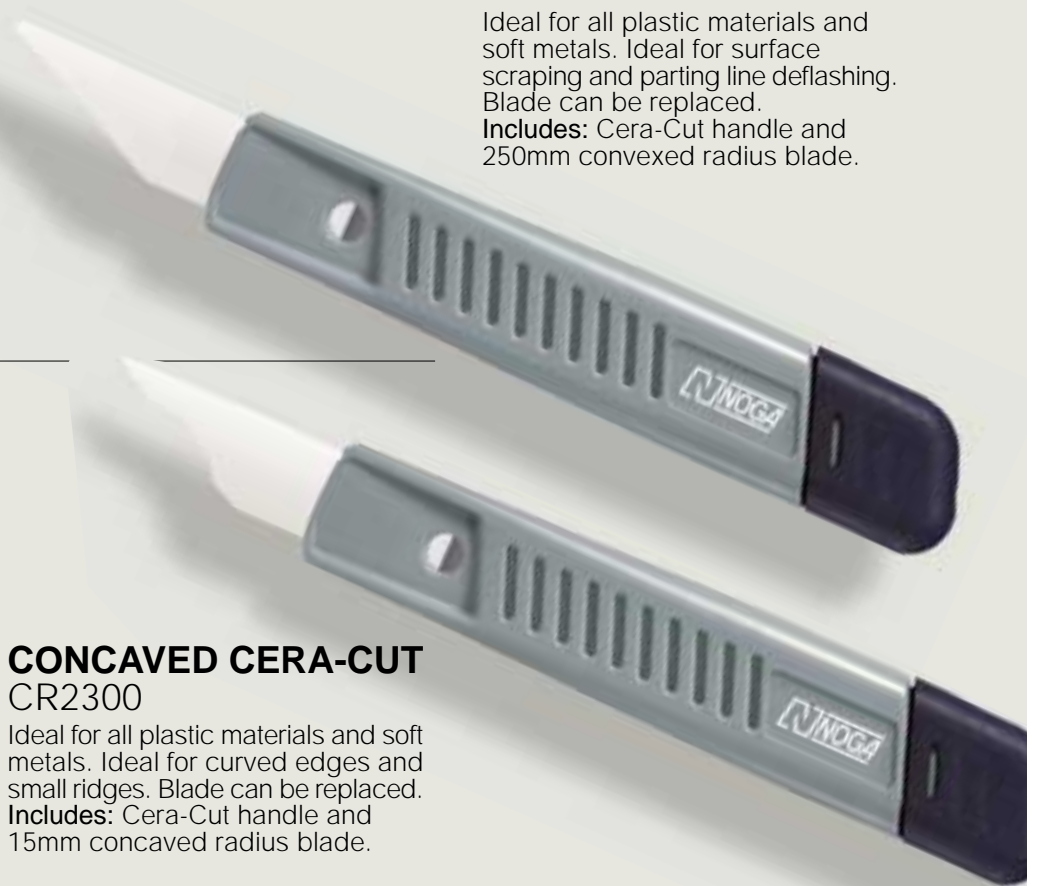
BLADES	Order No.		Range (mm)	Included angle (degrees)	Package weight (grams)	Package quantity
N80	BN8010		0-12	55	35	10
N80M42	BN8043		0-12	55	33	10
N70K	BN7001		1.2-8	55	5	1
N80K	BN8110		2.4-11	55	30	10
N80KM42	BN8143		2.4-11	55	29	10
N90K	BN9009		3-15	55	9	1
L3	BL3001		1-8	50	6	1
L4	BL4001		0-2.5	50	6	1
O-Ring	BO1001		1-3	40	9	1
TC	BC1001		Max. 3	90	8	1

deburring system



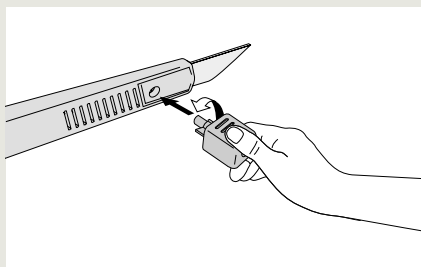
CONVEXED CERA-CUT CR2000

Ideal for all plastic materials and soft metals. Ideal for surface scraping and parting line deflashing. Blade can be replaced.
Includes: Cera-Cut handle and 250mm convexed radius blade.



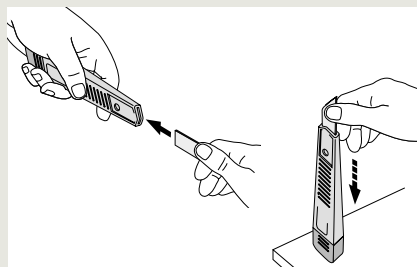
CONCAVED CERA-CUT CR2300

Ideal for all plastic materials and soft metals. Ideal for curved edges and small ridges. Blade can be replaced.
Includes: Cera-Cut handle and 15mm concaved radius blade.



To Remove blade

1. Remove the cap from the rear of the tool.
2. Insert the cap in the round hole and turn 90°.
3. Pull the blade out.



To insert blade

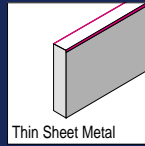
1. Insert the blade into the groove.
2. To secure the blade in place, hold the blade and lightly tap the handle against a solid surface.

HANDLE

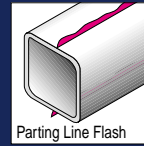


CERA-CUT Handle CR2100

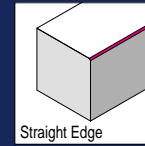
A unique plastic handle that holds the blade by its self gripping taper. Storage space for spare blades. Length: 135mm.



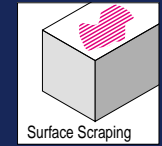
Thin Sheet Metal



Parting Line Flash



Straight Edge



Surface Scraping

CERAMICS



CERA-CUT CR1100

Ideal for deburring plastics and other soft materials. Extremely long life. Disposable tool.

Includes: 250mm convexed radius ceramic blade, mounted in ergonomically held handle with soft grip.






CERAMIC DOUBLE BURR DB5000

Ideal for deburring both sides of a workpiece simultaneously.

Blade can be replaced.
Range: 1-11 mm.

Includes: V-shaped ceramic blade mounted in ergonomically designed DB handle with safety guard to protect your hand.

BLADES	Order No.		Material	Incl. angle (degrees)	Weight (grams)	Package quantity	Applications
Convexed	CR2200		Ceramic 1250HV	90	9	1	Ideal for surface cleaning and parting line deflashing
Concaved	CR2500		Ceramic 1250HV	90	9	1	Ideal for curved edges and small ridges
V Shaped	CR5100		Ceramic 1250HV	90	90	1	Removes burrs from both sides simultaneously

deburring system

PROMO SETS

Deburr: Steel ,aluminum and plastic.

S PROMO SET NG8150

Includes:
NogaGrip 1 handle
10pcs. S10 blades.

N PROMO SET NG8000

Includes:
NogaGrip 2 handle
10pcs. N1 blades.

Best seller

B10 SET

Deburr: Steel, aluminum and Plastic

B10 SET SG6000

Includes:
NogaGrip 2 handle
20pcs. B10 Blades.

Free handle

ECONOMY SETS

Deburr: Steel ,aluminum and plastic.

S ECONOMY SET NG8200

Includes:
NogaGrip 1 handle
20pcs. S10 blades.

N ECONOMY SET NG8050

Includes:
NogaGrip 2 handle
20pcs. N1 blades.

Free handle



NG8150

SG6000

NG8200

SETS AND KITS

COBALT SETS

Deburrers: Plastic and hard materials

S COBALT SET NG8250

Includes:
NogaGrip 1 handle
20pcs. S100 cobalt blades.

N COBALT SET NG8100

Includes:
NogaGrip 2 handle
20pcs. N10 cobalt blades.

Free handle

GOLDEN SETS

Deburrers: Abrasive materials for long life

S10TiN NG8152

Includes: NogaGrip 1 handle,
10 Pcs., S10 TiN Blades

S20TiN NG8162

Includes: NogaGrip 1 handle,
10 Pcs., S20 TiN Blades

Free handle

TELE SETS

Deburrers: Steel, aluminum, plastic, brass and cast iron

S TELE SET NG8350

Includes:
NogaGrip 3 handle
S holder
5pcs. S10 blades
5pcs. S20 blades.

N TELE SET NG8300

Includes:
NogaGrip 3 handle
N holder
5pcs. N1 blades
5pcs. N2 blades.

Free handle



NG8250

Pack dimensions: 169 x 117 x 26mm

NG8152

NG8350

deburring system



PLATINUM BOX NG9500

Collected to meet the total requirements of tool and die makers and for deburring specialists

Includes:

Double Burr
NogaGrip 1 handle
NogaGrip 3 handle
Teddy Burr handle
S holder
N holder
K holder + N80K
D holder + D50
D holder + D66
C holder + C20
T holder + T70
18mm external RotoDrive blade
10.4mm countersink RotoDrive.
Blades: N1, N2, S10, S20, S30 and S150.
Hex key (1.5mm).

Pack dimensions: 270 x 230 x 50mm



GOLD BOX NG9400

The most complete box for professional machinists

Includes:

NogaGrip 3 handle
Adjustable scraper
Plastic Edge Off handle.
S holder
N holder
C holder+C20
D holder+D50
K holder+N80K
Blades: N1, N2, S10, S20, S30, S150, D66 and 10.4
Countersink RotoDrive.
Hex key (1.5mm).

Pack dimensions: 270 x 230 x 50mm

SETS AND KITS



SILVER UNIKIT NG9300

Most suitable for MRO

Includes:

NogaGrip 3 handle
S holder
Medium reversible countersink
Plastic Edge Off handle
3.2mm RotoDrive countersink
10.4mm RotoDrive countersink
16.5mm RotoDrive countersink
18mm External RotoDrive
Blades: S10, S20 and S30.

Pack dimensions: 215 x 120 x 40mm



BRONZE UNIKIT NG9200

Most economical deburring kit for all machinists

Includes:

NogaGrip 3 handle
N holder
S holder
C holder + C20
D holder + D50
Blades: N1, N2, S10, S20, S30 and S150

Pack dimensions: 215 x 120 x 40mm

deburring system

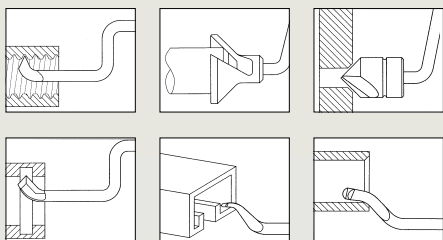
NOGA 007 SP1007

Deburring, cleaning, finishing and countersinking

Includes:

RB handle
O-Ring blade
RD16.5 RotoDrive countersink
RDE18 External RotoDrive countersink
Thread cleaner blade
S100 blade
S150 blade

Pack dimensions: 125 x 78 x 48mm



PLASTIC EDGE OFF SET EO2100

The most economical set

Includes:

EO handle + ■ S10 blade, green sleeve (for aluminum)
EO handle + ■ S20 blade, red sleeve (for brass & cast iron)
EO handle + ■ S100 blade, blue sleeve (for steel)
EO handle + ■ S150 blade, yellow sleeve (for plastic)

Pack dimensions: 222 x 78 x 22mm

SETS AND KITS



NOGA TRIO RB3000

Standard set

Includes:

- RB handle + ■ S20 blade, red sleeve (brass & cast iron)
- RB handle + ■ S100 blade, blue sleeve (steel & aluminium)
- RB handle + ■ S150 extra fine blade, yellow sleeve (plastic)

Pack dimensions: 175 x 50 x 20mm

NOGA MINI SET NG9100

Universal set

Includes:

- NogaGrip 3 handle.
- N holder - holds all N blades.
- S holder - holds all S blades.
- Blades: N1, N2, S10, S20, S30 and S150

Pack dimensions: 175 x 30 x 30mm

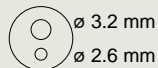


deburring system

SOFT GRIP SG1000

Ergonomically held handle. Two holes accepts both S and N blades.

Includes: SG handle, S100 and N10 cobalt blades.



LIZA BURR LB1000

Double end blade holder to utilize both N and S blades. Telescopes from 20-110mm with N blades. 20-94mm with S blades.

Includes: Uni-handle, SN holder, N1 and N2 blades.



SCRAPER SC1000

Double end scraper for longer tool life. Can be locked in required position.

Includes: Uni-handle and double ended T120 triangular scraper.

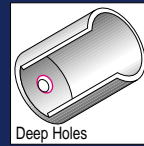
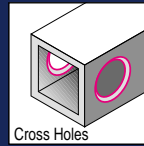
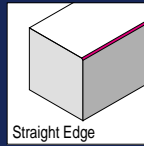
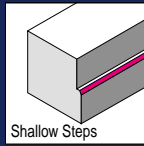
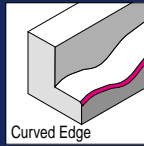
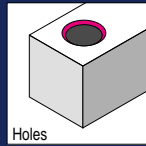


LEADER NG3800

Chamfering straight or curved edges. Ensures 45° chamfering.

Includes: NG-3 handle, LD holder and L1 blade.





SPECIALTY TOOLS

NOGA SLOT CLEANER NG3210

Used to relieve corners of narrow slots from 3.5mm. **Includes:** NG-3 handle, L holder and L5 blade. (L7 double end blade for cutting in two directions is also available)



NOGA MINI CUT NG3220

Used for deburring small ridges in difficult to reach places. Range: 0-2.5mm. **Includes:** NG-3 handle, L holder and L4 blade.



NOGA CORNER CLEANER NG3230

Effective corner relief. Wide range of applications. **Includes:** NG-3 handle, L holder and L6 blade.



THREAD CLEANER NG1600

For cleaning damaged internal threads. Minimum Dia. 9mm. Maximum thread pitch 3mm. **Includes:** NG-1 handle and TC blade.



deburring system

PLASTIC RAPID BURR RB1400

Holds all S blades (3.2mm). The blade is replaceable.

Includes: plastic handle and S100 blade.



PLASTIC EDGE OFF EO2000

Most competitive tool. Holds all S blades (3.2mm). The blade is replaceable.

Includes: plastic handle and S10 blade.










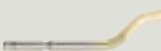



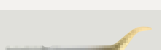
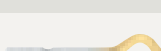

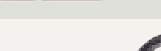
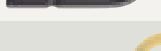
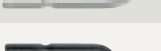


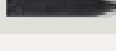
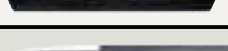
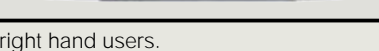


PLASTIC REAMER SP8100

Deburr both inside and outside edges of tube. Made of plastic body. Have 3 cutters. Reamer for aluminum, brass and copper tubing. Range: 4-42mm.



SPECIALTY BLADES

Blades	Order No.		Works best on
N1 Carbide	BN1029		hardened steel & special plastics
N1 Diamond	BN1028		glass & ceramics
N2 Carbide	BN2031	L/R 	hardened steel & hard plastics
N1 LH	BN1026	LH 	steel, aluminum & plastic
N1 LH TiN	BN1027	LH 	steel, aluminum & plastic. For long life.
S10 Carbide	BS1016		hardened steel & plastic
S10 Diamond	BS1014		glass & ceramics
S10 LH	BS1011	LH 	steel, aluminum & plastic
S10 LH TiN	BS1013	LH 	steel, aluminum & plastic. For long life.
S100 TiN	BS1019		stainless steel & plastic. For long life.
S20 Carbide	BS2015	L/R 	hardened materials & plastic
S101 LH	BK1011	LH 	H.D. shank for steel, aluminum & plastic
S101 TiN	BK1012		H.D. shank for steel, aluminum & plastic. For long life.
S150 TiN	BK3103		holes as small as 1.5mm Dia. For long life.
S30 TiN	BS3003		both int. & ext. burrs. For long life.
S60 TiN	BS6003		cross holes in difficult to reach places. For long life.
S80	BS8001		shallow steps
S80 TiN	BS8003		shallow steps. For long life.
S70	BS7001		straight edges
L1	BL1001		steel and aluminum
L5	BL5001		slots from 3.5mm
L6	BL6001		sharp corners
L7	BL7001		slots from 3.5mm. Double end.
T120	BT1200		H.D. scraping. Double end.

LH - for left hand users only. L/R - for left and right hand users.