



# deburring system

C A T A L O G

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All NOGA products meet the strict requirements of ISO9001 and ISO14001.  
We invite you to visit our web site: [www.noga.com](http://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 25 years Noga has grown to become the world leader in the manufacturing of three main lines:

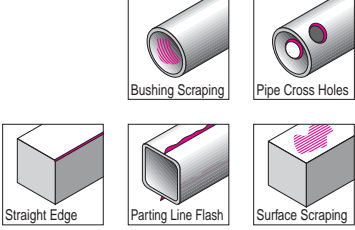
■ Deburring tools ■ Holding systems ■ Cutting fluid applicators

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



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# deburring system

*NOGA*, the acknowledged world leader in hand deburring tools, constantly invest in quality product innovations. Our stated aim is to offer our customers the most competitive, and best solutions for their deburring applications.

## NOGAGRIP HANDLE

● NG-1 ø3.2mm

● NG-2 ø2.6mm

● NG-3 ø7.0mm



### 3 MODELS:

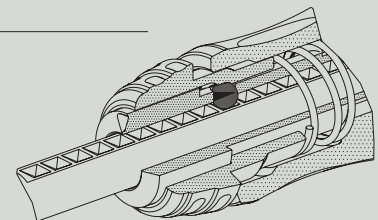
NG-1 holds all S blades (3.2mm).

NG-2 holds N blades (2.6mm).

NG-3 holds all blade holders (7.0mm).

- Ergonomic – fits your hand like no other handle.
- Two Components – soft and hard for maximum hand comfort.
- Lightweight strong construction.
- Easy and fast replacement of blades and blade holders.
- Spare blades are held in back cap.
- Lifetime guarantee.

## BLADE HOLDERS



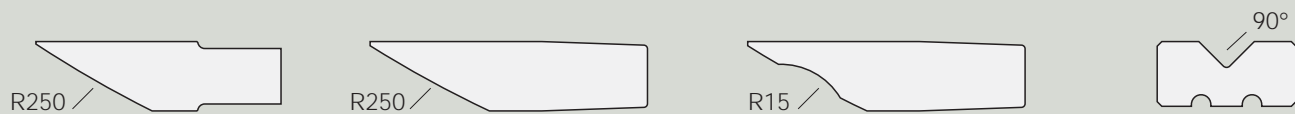
All new blade holders fit into the NG-3 handle. Ten different blade holders are available to hold the different types of blades. Holders are held by a steel ball pressed into indentation along the holder. (see drawing)



## NEW PRODUCTS

### CERAMIC BLADES

Noga ceramic blades are the best solution for many applications on plastics and soft metals.



#### CERA-CUT

Convexed blade.  
250mm radius.

#### Convexed CERA-CUT

Convexed blade.  
250mm radius.

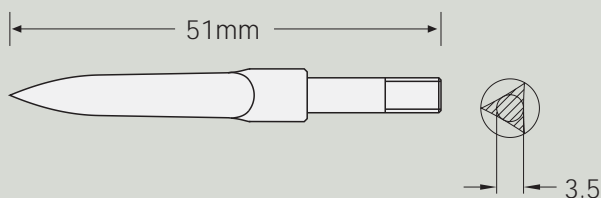
#### Concaved CERA-CUT

Concaved blade.  
15mm radius.

#### V Shaped

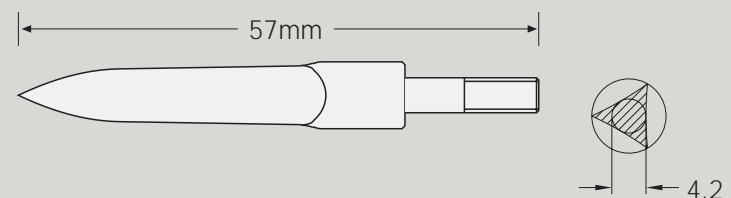
V shaped 90° blade.

### SCRAPER BLADES



#### T50

I.D. 3.5 x 51mm H.S.S. triangular scraper  
used with T holder.



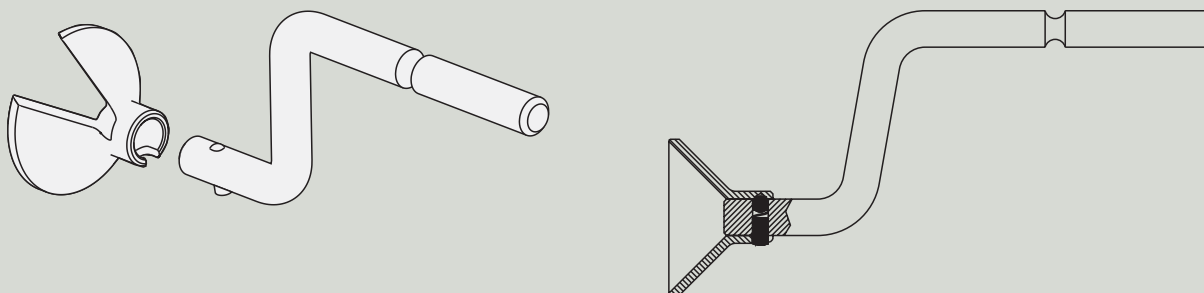
#### T70

I.D. 4.2 x 57mm H.S.S. triangular scraper  
used with T holder.

### H.D. EXTERNAL ROTODRIVE

**H.D. EX28 Countersink** - Chamfers the O.D. from bars and tubes. Range: 8-28mm.

**H.D. Holder** - Cranked holder to accept 28mm external countersink. Countersink snaps on holder.



# 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

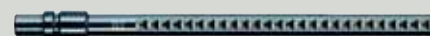
NogaGrip-1 holds all S blades (3.2mm). Spare blades are kept inside back cap. Designed for maximum comfort in your hand.



#### NG-3 Handle NG3000

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

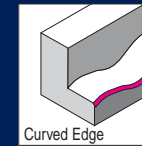
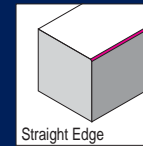
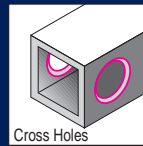
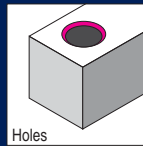
### HOLDER



#### S Holder EL02003

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





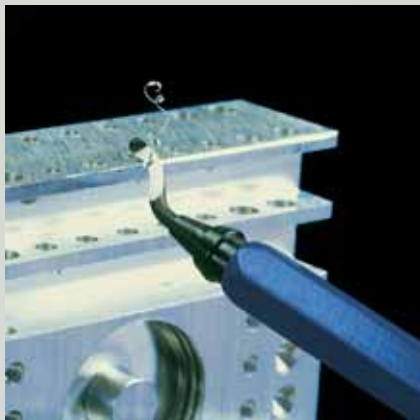
## HEAVY DUTY $\varnothing 3.2\text{mm}$



### 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.

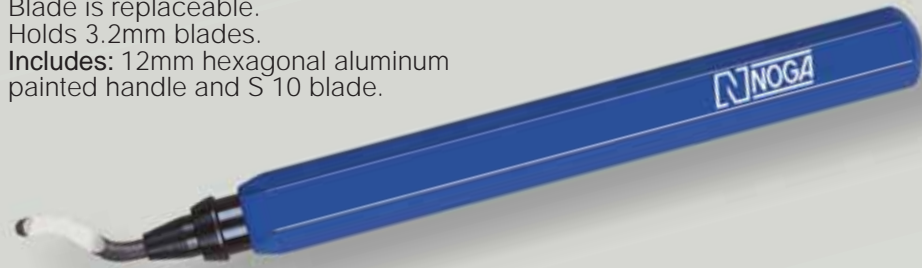


### RAPID BURR RB1000

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
<b>S10</b>	BS1010		40	31	10	steel, aluminum and plastic
<b>S10Tin</b>	BS1012		40	31	10	abrasive material
<b>S20</b>	BS2010	L/R	60	33	10	brass and cast iron
<b>S20 Tin</b>	BS2012	L/R	60	33	10	stainless steel
<b>S30</b>	BS3010		40	31	10	both int. and ext. burrs
<b>S35</b>	BS3510	L/R	55	33	10	straight edges on most materials
<b>S60</b>	BS6001		40	9	1	cross holes in difficult to reach places
<b>S100 Cobalt</b>	BS1018		45	32	10	plastic and hard materials
<b>S101</b>	BK1010		40	29	10	fine edges on all materials
<b>S150</b>	BK3010		45	27	10	holes as small as 1.5mm Dia.
<b>S202</b>	BK2010	L/R	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.

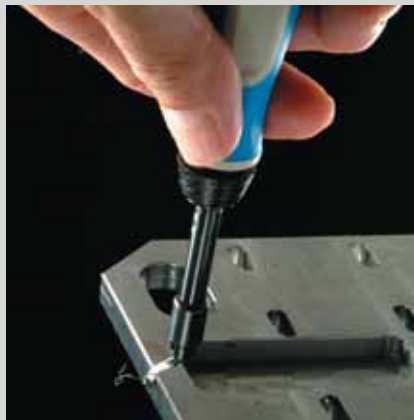
## MAGIC BURR 4 NG2004

Same as NG2002 with 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 back cap. Designed for maximum comfort in your hand.



### NG-3 Handle NG3000

NogaGrip-3 holds all blade holders. Spare blades are kept inside back cap. 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

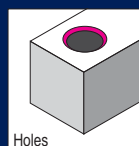
NogaGrip-3 holds all blade holders. Designed for maximum comfort in your hand.

### HOLDER

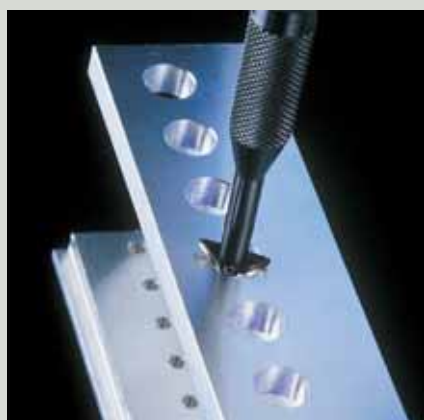


### C Holder CH3000

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.






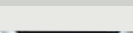
Includes: steel handle and R2 blade.

## LARGE REVERSIBLE RC2200

Range: 10-22mm.

Includes: steel handle and R3 blade.

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

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

# deburring system



PATENTED

## 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.



## HANDLES



### NG-1 Handle NG1000

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



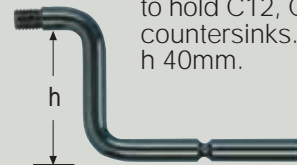
### NG-3 Handle NG3000

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

## HOLDERS

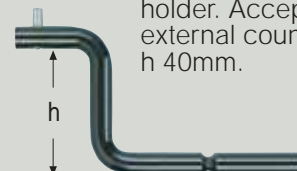
### H.D. RotoDrive Holder EL0802

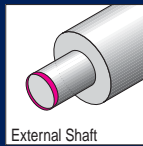
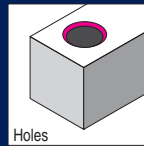
Heavy duty cranked holder. External M7 thread to hold C12, C20 and C30 countersinks. h 40mm.



### H.D. Ext. RotoDrive Holder EL0902

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





# 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

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, (an M3 setscrew is holding the blade) triangular mini scraper D50 blade and hex key.



## TRIANGULAR SCRAPER NG3600

Used for standard scraping.

**Includes:** NG-3 handle, T holder (with M5 internal threads) and I.D. 4.2x57mm triangular scraper T70 (with M5 external thread).

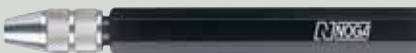


## HANDLES



### 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.

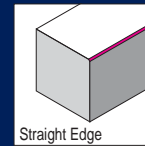




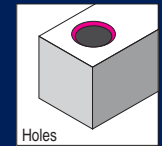
Pipe Cross Holes



Bushing Scraping



Straight Edge



Holes

# 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.		Dimensions (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		I.C2.5 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



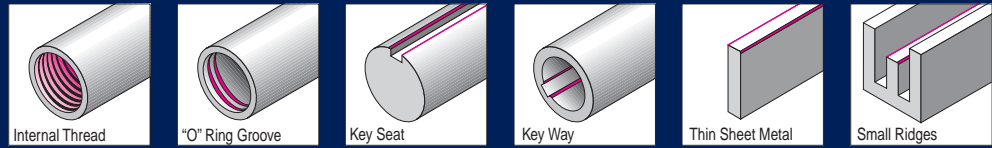
#### K Holder EL04003

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.

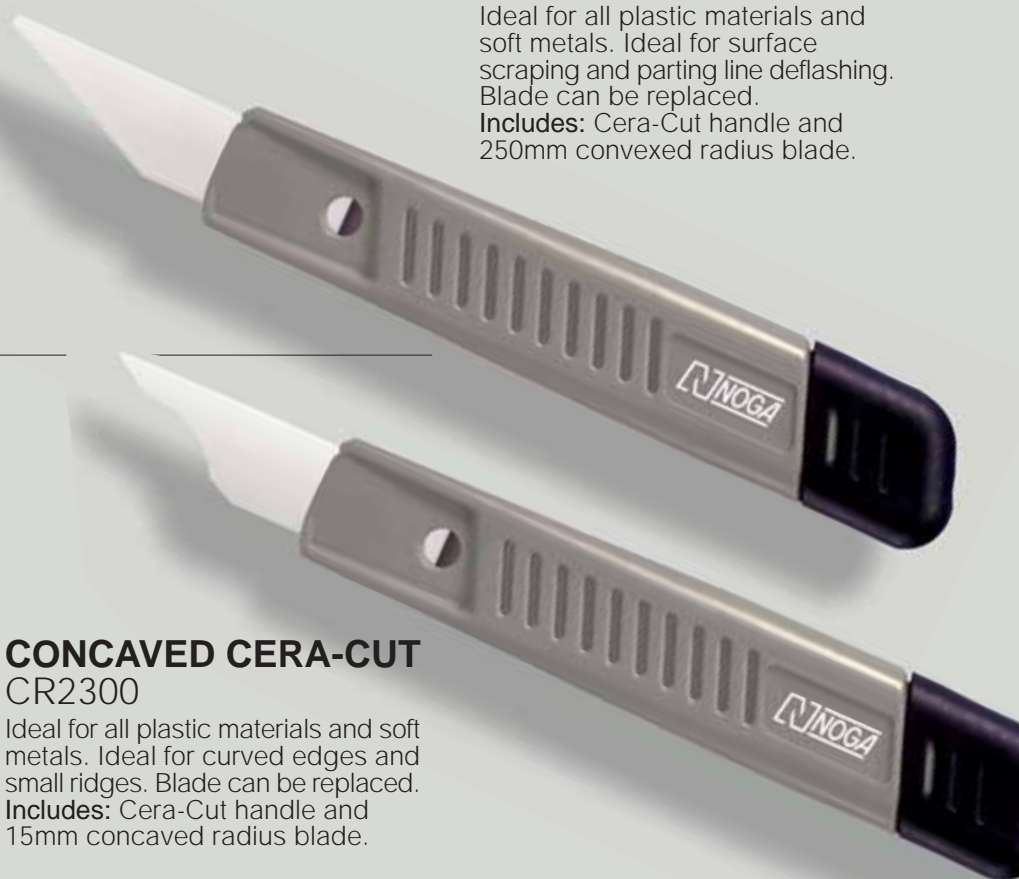
BLADES	Order No.		Dimensions (mm)	Included angle (degrees)	Package weight (grams)	Package quantity
N80	BN8010		0-12	55	35	10
N80M42	BN8043		0-12	55	33	10
N70K	BN7001		1.2-8	55	5	1
N80K	BN8110		2.4-11	55	30	10
N80KM42	BN8143		2.4-11	55	29	10
N90K	BN9009		3-15	55	9	1
L3	BL3001		1-8	50	6	1
L4	BL4001		0-2.5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

# deburring system



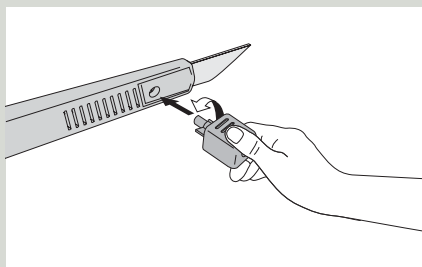
## CONVEXED CERA-CUT CR2000

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.



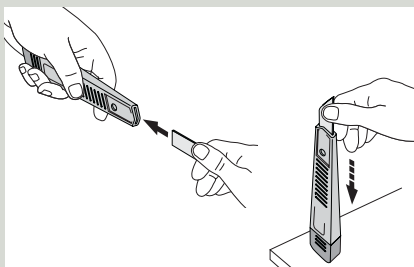
## CONCAVED CERA-CUT CR2300

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

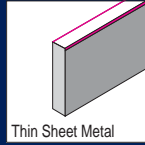
1. Insert the blade into the groove.
2. To secure the blade in place, hold the blade and lightly tap the handle against a solid surface.

## HANDLE

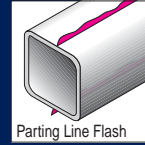


## CERA-CUT Handle CR2100

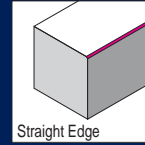
A unique plastic handle that holds the blade by its self gripping taper. Storage space for spare blades. Length: 135mm.



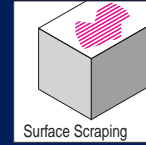
Thin Sheet Metal



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.

## 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.

Best seller



NG8150

Free handle



NG8200

Pack dimensions: 169 x 117 x 26mm

# 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.

## 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

Free handle



NG8350

Pack dimensions: 169 x 117 x 26mm

# 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

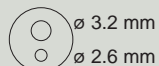
Pack dimensions: 175 x 30 x 30mm

# 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.



## MEDIUM TRIANGULAR SCRAPER SC4000

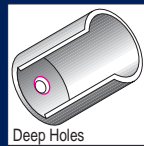
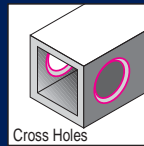
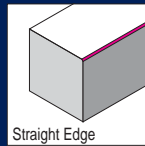
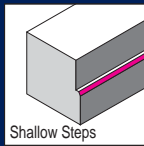
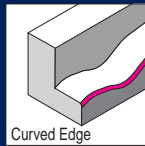
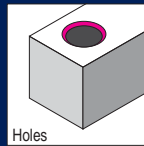
For scraping, trimming and deburring almost all materials. 5x40 mm medium size triangular scraper. Disposable tool.



## MINI TRIANGULAR SCRAPER SC5100

For scraping, trimming and deburring fine jobs. 3.2x40 mm mini triangular scraper. Disposable tool.





## 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.



### LEADER NG3800

Chamfering straight or curved edges. Ensures 45° chamfering. Includes: NG-3, LD holder and L1 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.



## INNER-OUTER REAMER SP8000

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



## PLASTIC REAMER SP8100

Same as SP8000 but made of plastic. Deburrs both inside and outside edges of tubes. Have 3 cutters. Reamer for aluminum, brass and copper tubing. Range: 4-42mm.



# SPECIALTY BLADES

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

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