

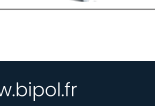
BIPOL



GENERAL CATALOG

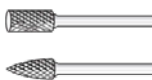
POWER & MICRO TOOLS FOR DEBURRING &
FINISHING OPERATIONS – RVI

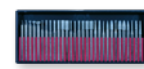
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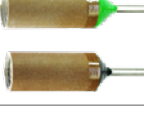
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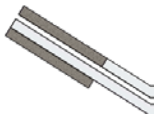
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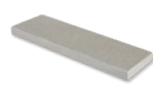
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Eq



The image shows a Bipol industrial machine, likely a deburring and finishing unit. It features a blue control panel with a digital display showing '88', a power knob, and buttons for 'PAUSE / RVS' and 'FOOT'. A handheld tool with a pink abrasive tip is connected to the machine. The Bipol logo and website 'www.bipol.fr' are visible on the machine's body.

**Power tools for
deburring & finishing
operations**

Hybrid brushless deburring & polishing set GR-H

Hybrid Micromotor System GR-H Set is the best combination that consists of the powerful controller and the brushless motor (BLDC) handpiece that provides stable



torque from low to maximum rotations. It minimizes heat generation and has an excellent dustproof structure for continuous use.

The collet chuck uses a convenient one-touch opening / closing method, and the tip tool can be attached / detached without using a special spanner. In addition to high speed rotation and strong torque, it is extremely quiet and can be used for a wide range of applications such as mold polishing, deburring of parts, jewelry making, wood carving, and glass litzing. As the optional item, the brush motor NDX and handpieces NPOs can be used using the BLH-M modular motor.

Technical data

Power	AC100V/230V 50/60Hz
Output	DC3-30V 0.4A
Connections	2 - 1 asynchronous & 1 DC
Speed	0 to 55.000 rpm
Forward / Reverse function	Yes
Dimensions	90(l) x 182(p) x 105 (H) mm
Weight	2.40 kgs

Part No Description

507 000 550	Set GR-H (Controller Unit - BLH Handpiece - foot pedal variable)
507 000 555	Controller Hybrid unit GR-H (Alone)
507 000 580	GR-H variable foot pedal

Main features



Auto cruise function
Allows to maintain a constant rotating speed



Alarm
bips when handpiece is overloaded



Digital display
of rotation speed



Stepless control
of speed rotation of handpiece or Micro motor



Forward / Reverse function
Easily change rotation direction



Security feature
Detects motor speed and avoid over heating



Holder for handpieces
2 slots supplied for holding handpieces



Overload protection
stops and protects the hand piece when the motor is overloaded



Variable foot pedal
Controls speed steplessly with foot



Quick chuck system
Allows you to attach or detach tip tools with one-touch

Handpieces for Neo Digit 1-2 & GR-H controllers

Handpiece PHP-ECO 35.000 rpm

Lightweight handpiece. Quick chuck change. Brush type motor with excellent dust protection. Compatible with our control units Neo Digit 1 & 2 and our Hybrid controller GR-H. Dedicated to discontinuous work.

Part No	Description
507 000 515	Handpiece - PHP-ECO 35.000 rpm collet 3.0mm



Handpiece PHP-PRO 40.000 rpm

Lightweight handpiece. Quick chuck change. Brush type motor with excellent dust protection. Compatible with our control units Neo Digit 1 & 2 and our Hybrid controller GR-H. Dedicated to continuous work.

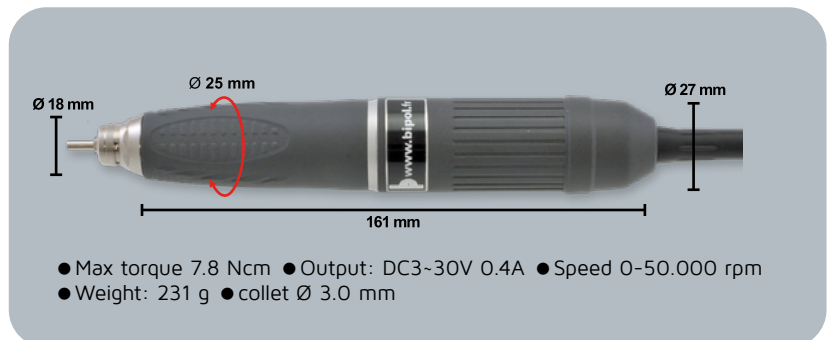
Part number	Description
507 000 525	Handpiece - PHP-ECO 40.000 rpm collet 3.0mm



Handpiece BLH 50.000 rpm

High torque handpiece with quick chuck change. Brushless motor. Compatible **only** with our Hybrid controller GR-H.

Part No	Description
507 000 570	Handpiece BLH 50.000 rpm with asynchrone motor. Collet 3.0 mm



Modular motor BLH-M

Brushless asynchronous modular motor. Compatible **only** with our Hybrid controller GR-H.

Allows to use all head attachments. NPOs offers maximum torque with heavy duty head NPO-A33

Part No	Description
507 000 575	BLH-M brushless modular motor (compatible with GR-H controller only)



Part No	Description
Accessories and replacement collets	
507 000 564	Collet 2.35 mm for handpieces BLH & PHP
507 000 565	Collet 3.00 mm for handpieces BLH & PHP
507 000 566	Collet 3.175 mm for handpieces BLH & PHP
507 001 019	Argo DR 19 reduction sleeve (Ø 3-2,35 mm)
507 000 533	PHP Carbon brush set

Sets

Neo DIGIT 1

PRO & ECO

All around versatile set composed of a controller unit Neo Digit 1, a handpiece PHP-Pro 40.000 rpm or ECO 35.000 rpm and a foot pedal. With the new design, the powered-up model has further evolved and as new functions, a Digital Rotation Speed Display Function and a convenient Pause Function are standard equipment. With its excellent Dustproof Function and Rotational Accuracy, it can perform not only precision work such as dental laboratory, jewelry, and wood carving, but also various mold polishing and deburring powerfully.



**Lightweight & ergonomical
handpiece to help reducing
work fatigue.**

Main features



Alarm
Bips when handpiece is overloaded



Stepless control
of handpiece rotation



Forward/reverse function
One button to change rotation direction



Quick chuck system
Allows you to attach or detach tip tools with one-touch



Digital display
of speed in rpm



Variable foot pedal
Allows to activate handpiece with foot



Overload protection
stops and protects the hand piece when the motor is overloaded

WHAT WE DELIVER



1 controller Neo Digit 1 (220 Va) - 1
handpiece Eco or PRO - 1 foot pedal -
1 reduction sleeve 3/2.35mm

Technical data

Power	AC100V/230V 50/60Hz
Output	DC3-30V 0.4A
Entry	1
Dimensions	81(l) x 151(p) x 151(H) mm
Max Power	50 W
Weight	2.30 kgs

Part No

Description

507 001 510	SET ECO DIGIT ECO. Controller unit Neo Digit - 1 handpiece PHP- Eco 35.000 rpm with collet 3.0 mm
	SET ECO DIGIT PRO. Controller unit Neo Digit - 1 handpiece PHP- PRO 40.000 rpm with collet 3.0 mm
Accessories and spare collets	
507 000 564	Collet Ø 2.35 mm for PHP handpiece
507 000 565	Collet Ø 3.00 mm for PHP handpiece
507 000 566	Collet Ø 3.175 mm for PHP handpiece
507 001 591	Foot pedal for Neo Digit 1 controller

Neo Digit 1 micromotor controller

The Neo Digit 1 micromotor controller unit is a rugged all around power unit which offers the latest in technology.



It is a very versatile unit that accepts up to 1, either straight handpieces with quick chuck change of tools (PHP 35 and PHP 40) micro motors (NDXs) in different speeds and a large selection of power heads (NPOs), filer (RE35) or BS33 belt sander.

Technical data

Power	AC100V/230V 50/60Hz
Output	DC3-30V 0.4A
Entry	1
Dimensions	81(l) x 151(p) x 151 (H) mm
Max Power	50 W
Weight	2.30 kgs

Part No Description

507 000 590	Micromotor controller unit Neo Digit 1 (220Va) 1 motor entry
507 000 591	Neo Digit 1 foot pedal



FOOT PEDAL



Part No
507 000 591

Maxima Classic Controller



Technical data

Power supply	AC100V/230V 50/60Hz
Output	DC3-30V 0.4A
Entry	1
Dimensions	110x96x148mm
Weight	1.6 kgs

Part No Description

507 000 530	Controller Maxima « Classic » (PS220- 110-240VA 50/60 Hz)
507 000 517	Maxima «Classic» variable foot pedal (TPF 77)

Accepts 1 handpiece. It features a continuous speed control and a forward/reverse function. Very compact, it will fit perfectly on your workshop. With this equipment, we supply free of charge a «classic» cord on the NDX motor to offer a smooth runing of the system. A foot pedal is available in option.

Neo Digit 2 Micromotor controller

Designed with the latest technology in micromotor systems, the Neo Digit 2 micro motor controller can handle almost any finishing job. This interchangeable micromotor system allows the operator to choose from a selection of handpiece motors and heads to create the right tool for a variety of polishing applications. With the quick disconnect feature, the operator can switch heads within seconds – no tools required.

It comes with several features such as: convenient on/off switch on each motor input, higher torque output for heavier grinding, quick change collet mechanism and slim lightweight handpiece cable.

The controller unit features a load indicator light to warn operator of excessive pressure, and digital RPM display to indicate exact rotational speed of handpiece. Our Neo Digit 2 is designed for one-person use. It has 2 output stations with switch to instantly change power from one handpiece to the other. Speed can be adjusted by the dial rheostat on the face of the unit or by an optional variable speed foot rheostat.



It is a very versatile unit that accepts up to 2, either straight handpieces with quick chuck change of tools (PHP 35 and PHP 40) micro motors (NDXs) in different speeds and a large selection of power heads (NPOs), filer (RE35) or BS33 belt sander

Main Features



Alarm Function
When the motor is loaded, it sounds an alarm to stop and protect the handpiece.



Digital Display
of speed rotation



Foot Control
Control the rotation speed of the motor by stepping on



Overload protection
stops and protects the hand piece when the motor is overloaded



Forward / Reverse function
Easily change rotation direction



Quick chuck system
Allows you to attach or detach tip tools with one-touch

Technical data

Power	AC100V/230V 50/60Hz
Output	DC3-30V 0.4A
Entry	2
Dimensions	200(l) x 180(p) x 110 (H) mm
Max Power	120 W
Weight	2.30 kgs

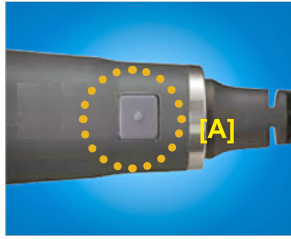
Part No Description

507 000 370	Micromotor controller unit Neo Digit 2 (220Va)
507 000 389	Neo Digit 2 Foot pedal



NDx micro motors

Micro motors available in 2 versions and 6 different speeds. A push button [A] allows the On/Off function. They are compatible with our NPO heads and with our Neo Digit 1&2 and GHR control units.



NDx-12 20.000 RPM

Part No. 507 000 385



● Max torque. 6.4 Ncm ● Max speed 20.000 RPM ● Weight: 120 gr

NDx-13 35.000 RPM

Part No. 507 000 386



● Max torque. 5.4 Ncm ● Max speed 35.000 RPM ● Weight: 120 gr

NDx-14 45.000 RPM

Part No. 507 000 387



● Max torque. 5.0 Ncm ● Max speed 45.000 RPM ● Weight: 120 gr

NDx-05 55.000 RPM

Part No. 507 000 388



● Max torque. 3.6 Ncm ● Max speed 55.000 RPM ● Weight: 90 gr

NDx-20 8.000 RPM

Part No. 507 000 382



● Max torque. 9.8 Ncm ● Max speed 8.000 RPM ● Weight: 176 gr

NDx-21 15.000 RPM

Part No. 507 000 383



● Max torque. 8.8 Ncm ● Max speed 15.000 RPM ● Weight: 176 gr

NDx-23 30.000 RPM

Part No. 507 000 384



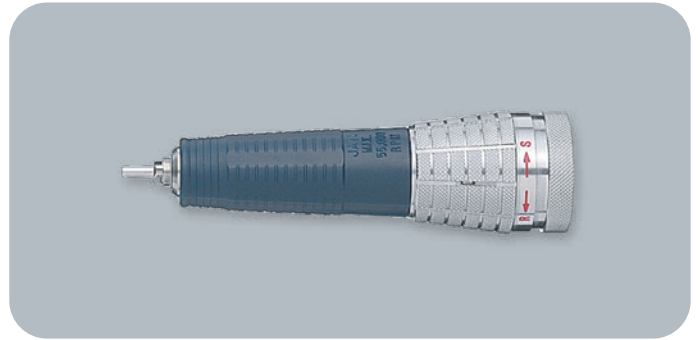
● Max torque. 6.8 Ncm ● Max speed 30.000 RPM ● Weight: 176 gr

All our old micro motors and power heads are compatible with our new controller units and all new micro motors and power heads can be connected to our old controller units with 5 pin female connector.



NPO Head Attachments

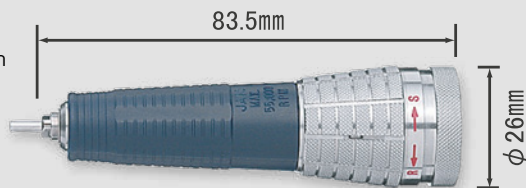
Very complete line of power heads for all type of deburring or finishing jobs. They are compatible with our micro motors NDx with our without reduction gear UT-15 and with our modula motor BLH-M.



NPO-A15

Straight standard Head

Weight: 100 gr
Ø collet: 2.35 mm



Part No. 507 000 007

NPO-A33

Reinforced straight head

Weight: 150 gr
Ø collet: 6.0 mm

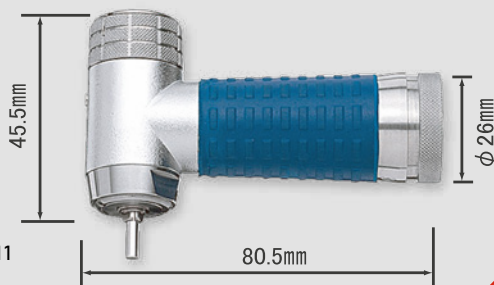


Part No. 507 000 059

NPO-R21

90° head

Weight: 200 gr
Ø collet: 3.0 mm



Part No. 507 000 011

NPO-S21

120° head

Weight: 210 gr
Ø collet: 3.0 mm

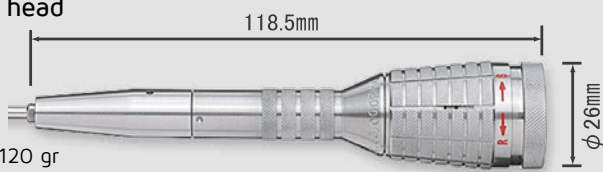


Part No. 507 000 012

NPO-A45

Slender head

Weight: 120 gr
Ø collet: 3.0 mm

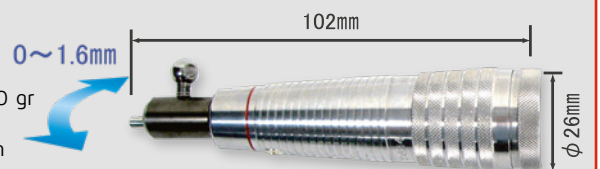


Part No. 507 000 020

NPO-P11

Swing head

Weight: 140 gr
for tools:
Ø 2-4.7mm

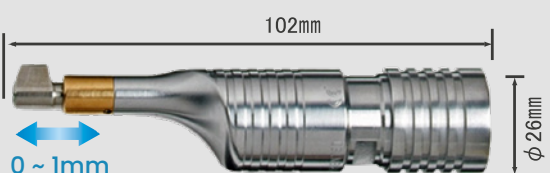


Part No. 507 000 069

NPO-P12

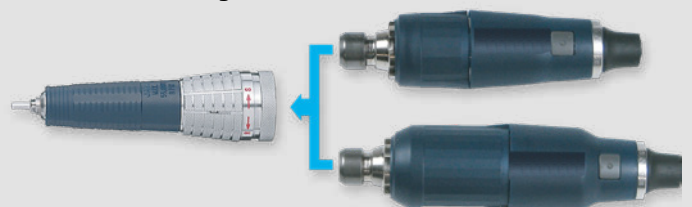
Reciprofile head

Weight: 120 gr
For tools :
Ø 2-3.5mm



Part No. 507 000 071

Example of application
Straight Head & micro Motors NDx



Neo Digit collets & accessories

Collets for handpieces and Head Attachments

	NPO-A15	NPO-A33	NPO-R21	NPO-S21	NPO-P11
Ø 2.35 mm	507 000 009	507 000 078	507 000 009	507 000 009	507 000 009
Ø 3.00 mm	507 000 008	507 000 077	507 000 008	507 000 008	507 000 008
Ø 3.175 mm	507 000 000	507 000 083	507 000 000	507 000 000	507 000 000
Ø 6.00 mm		507 000 082			
Ø 6.35 mm		507 000 065			



Sold by unit

Reduction collet 6 to 3mm
Part No. 416 000 012



Argo reducing sleeves

Allows to quickly modify the diameter of the collet to adapt a different diameter tool to it.



	φ 1.6	φ 0.6	φ 0.7	φ 0.8	φ 1.0	φ 1.2	φ 1.5	φ 1.6	φ 2.0	φ 2.34	φ 1.6	φ 2.34
	DR01	DR04	DR05	DR06	DR08	DR10	DR13	DR14	DR18	DR19	DR20	DR21
Part No. 507 001 XXX	002	004	005	006	008	010	013	014	018	019	020	021

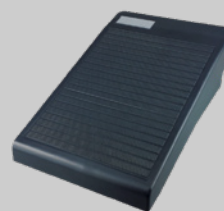


Table stand

- Weight : 77 g
- Dimensions: 110x50x40mm

Part No.507 000 018

Neo Digit Accessories



Pedal Neo Digit 1

- Weight : 500 g
- Cable length 1.8m
- Dimensions: 90x170x60mm

Part No. 507 000 591

Extension 3M

- Compatible with micro motors and handpieces

Part No. 507 000 016



NDX Spare Cable

Part No. 507 000 391



Pedal Neo Digit 2

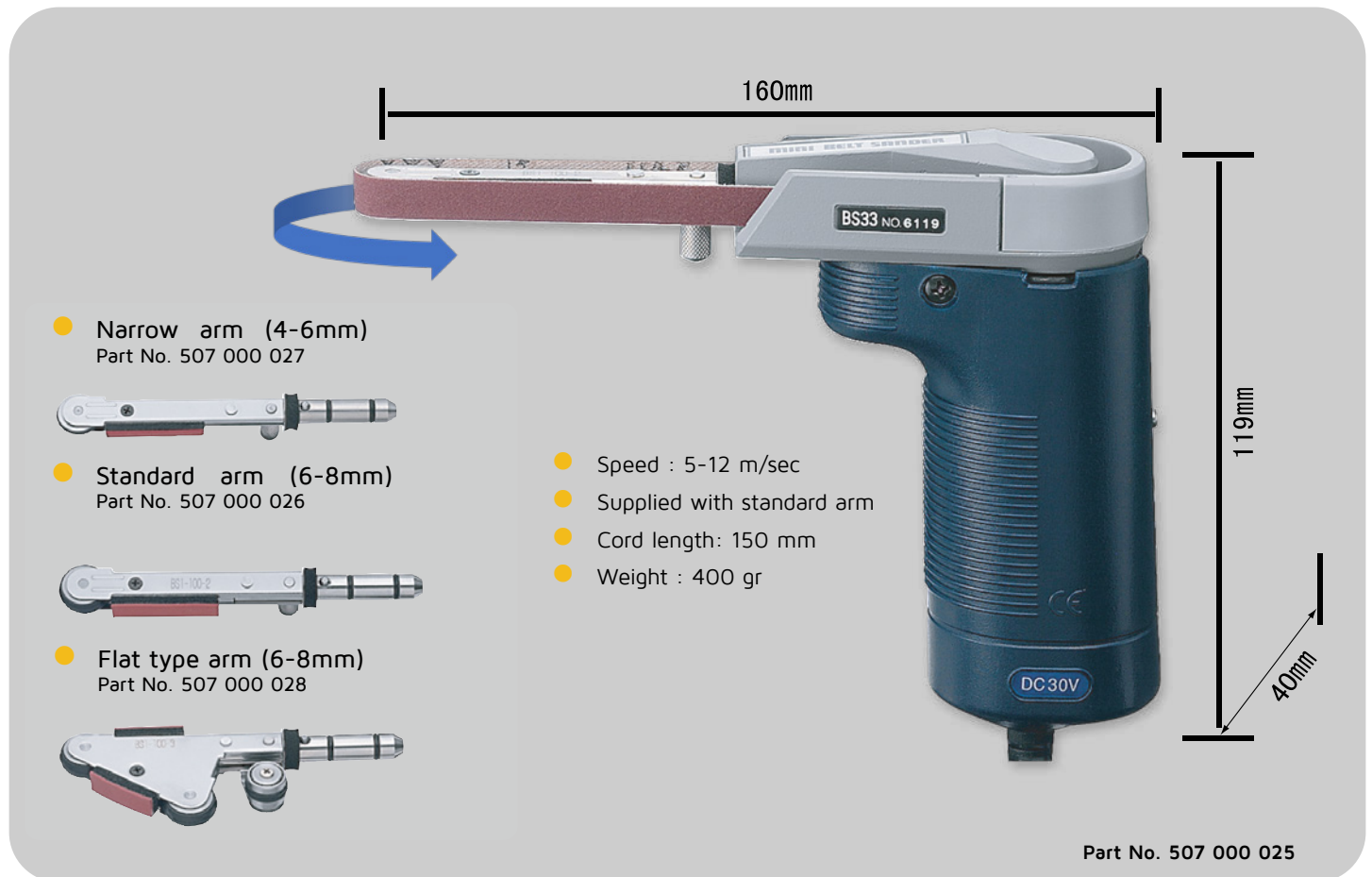
- Weight : 500 g
- Cable length 1.8m
- Dimensions: 90x170x60mm

Part No. 507 000 389

Belt sander BS 33

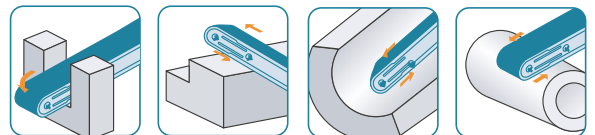
Motorized belt sander with interchangeable arms. Speed can be adjusted from 1,2 to 12 m/sec.

Supplied with arm for bands 6 to 8 mm. The BS33 belt sander can be used with our controller units Neo Digit 1 & 2 and our GR-H hybrid controller.



Endless belts for BS 33

Available in 3 types and different grits



Description	Grits								
ALOX	80	120	180	240	320	400	600	800	
300 x 4,0 mm	507 000 029	507 000 030	507 000 031	507 000 032	507 000 033	-	-	-	20
300 x 6,0 mm	507 000 039	507 000 040	507 000 041	507 000 042	507 000 043	-	-	-	20
300 x 8,0 mm	507 000 049	507 000 050	507 000 051	507 000 052	507 000 053	460 000 049	460 000 050	460 000 051	20
Set of 4 belts in each grit width 6 mm (ALOX)								460 000 037	1
Set of 2 belts in each grit width 8 mm (ALOX)								460 000 043	1
Zirconium	80	120	180						
300 x 8,0 mm	460 000 053	460 000 055	460 000 056						20
Set of 5 belts in each grit width 8 mm (Zirconium)								460 000 052	1
Diamond	180	240	320	400	600	800	1000		
300 x 8,0 mm	460 000 057	460 000 058	460 000 059	460 000 060	460 000 061	460 000 062	460 000 063		1

Motorized reciprocating filers RE35 & RE55

Back and forth strokes. Used for polishing flat surfaces, deburring, filing, stoning, scraping, lapping and draw-stoning deep cavities. Weights only 675 grams. RE profilers can be used with our unit controllers Neo Digit 1&2 and our hybrid unit GR-H & UC550

RE35

Part No. 507 000 023

0 ~ 6mm

RE55

Part No. 507 000 024

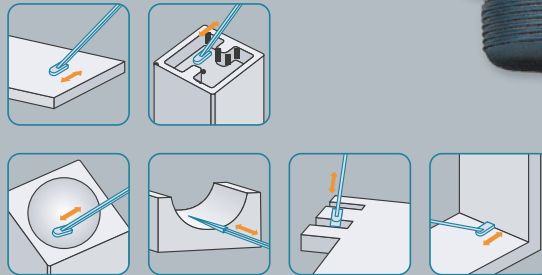
0 ~ 2mm

RE35

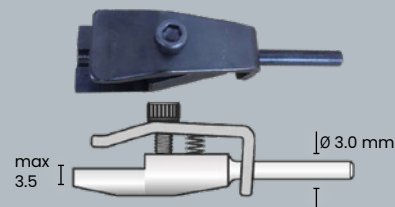
Stroke length	0 to 6 mm
Frequency of vibrations	420 to 4.200 mvt/sec
Tool size	2 to 6.35 mm
Weight	675 gr
Part No	507 000 023

RE55

Stroke length	0 to 2 mm
Frequency of vibrations	700 to 7.000 mvt/sec
Tool size	2 to 6.35 mm
Weight	675 gr
Part No	507 000 024



Machine Recipro Holder



For ceramic stones SSH. Accepts stones up to 3.5mm thickness and round up to Ø 3mm.

PV-R35
Part No. 460 000 665

Workbench Vices

Adjustable workbench vices.

Available in 2 sizes. The heavy ball is well fixed on a non-slip rubber support. Double crank system working in reverse to quickly tighten or loosen the workpiece.

Part No	Description
460 000 810	H V01 - small model
460 000 811	H V02 - big model



Technical data		
Model	H V01	H V02
Max opening	30 mm	56 mm
Height	75 mm	128 mm
Dimensions	Diameter 65 mm	Diameter 100 mm
Weight	1.2 kg	4.0 kg

Portable deburring system

G3N SET

Technical data	
G3N control unit	
Power supply	12V
Max Power	24W
Rotation speed	max 30.000 rpm
Weight	225 gr
Dimensions	165 x L147 x H25 mm
Battery type	Li-Ion Battery (Rechargeable)
G3N handpiece	
Rotation speed	0-30.000 t/min
Max torque	2.9 Ncm
Weight	150 g
Dimensions	L120 x $\varnothing$ 22 mm

Part No	Description
507 000 490	G3N set - On/Off Foot pedal - Handpiece collet $\varnothing$ 3.00mm & 3/2.35mm reduction sleeve - rubber handpiece holder.
507 000 491	Storage case

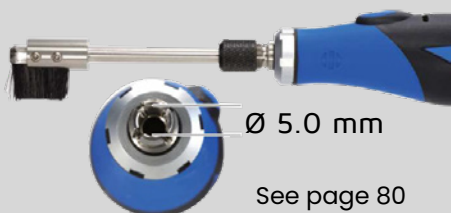
Portable rechargeable micro deburring unit. Compact and lightweight, it will accompany you in the workshop or in the field. Comes with 3.00mm collet and reduction from 3 to 2.35mm. Equipped with a belt clip and a handpiece holder. Optional storage case.



Filer Artima Pro

Technical data	
Weight	90 gr
Output	12 V
Dimensions (LxHxP)	190x30mm
Stroke	3 mm
Frequency	1000-5000 reciprocating / minute

Accepts RE brushes



$\varnothing$ 5.0 mm

See page 80

Part No	Description
507 000 495	Artima filer set with accessories. 12v power supply
507 000 496	Set of 9 replacement tools for Artima Pro

By applying the feedback function to the stroke sander, not only the work efficiency is further improved with a powerful stroke, but also it is possible to file the woodwork with a heavy load. The speed control dial at hand allows for 1,000-5,000 reciprocating / minute back-and-forth stroke vibration.



Delivered with set of tools, self-adhesive abrasive paper (10 sheets 240 grit), and cutting rule.

Ultrasonic Hybrid polishing set UC-550

Robust and versatile set which features both an ultrasonic handpiece with a maximum power of 45 Watts and 1 entry compatible with all our micro motors, handpieces, head attachments of the Neo Digit line.

The controller unit allows adjustment of frequency upon tool type. It includes an overload function. The entry for the DC handpiece includes a forward/reverse function and an adjustable speed switch easy to use.

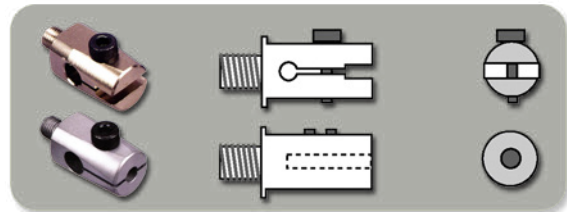
The UC-550 is a very versatile system. A foot pedal is available in option



Main features

- Power 45 Watts
- 1 ultrasonic & 1 micro motor outputs
- Foot pedal ON/OFF
- Continuous frequency & speed control
- Forward/reverse function for NDX motor

Tool Holders for ultrasonic Handpiece



Controller UC 550	
Adjustable speed	yes
Handpiece entry	2 - 1 ultrasonic and one Classic NDx
Forward/Reverse	yes
Woer	220 Va 50 Hz
Dimensions (LxHxP)	73x170x34 mm
Weight	2.7 kgs
Ultrasonic handpiece US55	
Amplitude	up to 45µ
Dimensions	Ø 29 mm x 139 mm
Weight	180 gr (without cord)

Part No	Description
507 000 061	UC 550 set including: 1 controller UC550 (220Va) 1 US55 ultrasonic handpiece 3 flats tool holders 0.5 - 1.0 & 1.5 mm 1 round tool holder 3.00 mm 1 ON/OFF foot pedal

Model	Holding	Type	Part No	
SU08	T = 0.5 mm	flat	416 000 059	1
SU09	T = 0.8 mm	flat	416 000 060	1
SU10	T = 1.0 mm	flat	416 000 061	1
SU11	T = 1.5 mm	flat	416 000 062	1
SU12	T = 2.0 mm	flat	416 000 063	1
SU13	T = 3.0 mm	flat	416 000 064	1
SU14	T = 3.175 mm	flat	416 000 065	1
SU15	Ø 2.5 mm	round	416 000 080	1
SU16	Ø 3.2 mm	round	416 000 081	1

ULTRASONIC POLISHING SET ST 360

ST-360 is a powerful ultrasonic finisher for both hard and soft metals. It enables precision finishing in the tiniest of areas. The ST-360 uses high-frequency, low-amplitude ultrasonic vibration for cleaning and burnishing, as well as bead setting and light engraving-leaving an extremely bright burnished surface. Excels at removing rapid prototyping marks and leaving a beautiful mirror finish in 1 step.

ST-360 can attach the special tool and can be used for pattern cutting with a line spacing of 0.1mm for PCB modification and for removal of resist film, and is used for multiple purposes such as fossil cleaning and cutting of strata.



The ST-360 offers four ultrasonic oscillation modes:

Single Hit Mode: Tightens beads onto stones with minimal or no touch-up needed.

Intermittent Mode (Slow): Slowly repeating impacts for engraving.

Intermittent Mode (Rapid): Rapidly repeating impacts for engraving.

Continuous Mode: Constant fast impact for burnishing and polishing.



By supplying the cooling air to the transducer when working for a long time or under heavy load.



The heat generation is suppressed and continuous operation can be done.

Main features

4 oscilation modes

- Simple stroke
- Intermittent low
- Intermittent fast
- Continuous

Amplitude control
with very precise adjustment

Ultrasonic handpiece connection
ST 360



Digital display
of power output

Pulse width control

Foot pedal connection
available in option

Controller ST 360

Oscilating frequency	21-24 KHz
Oscilation modes	4
Amplitude adjustment	Countinuuous
Ultrasonic power	Max 45 W
Dimensions (LxHxP)	130x250x260 mm
Weight	3.0 kgs

Ultrasonic Handpiece ST 360

Tool holding	M6 (with M6/M4 adaptor supplied)
Cable length	1.7m
Dimensions	28 x 118 mm
Weight	300 gr
Cooling	Dry air

Part No	Description
507 000 600	Set ST-360 including 1 Controller ST-360(220Va) 1 Ultrasonic handpiece ST 360 1 Tool kit
507 000 601	ST 360 foot pedal
507 000 602	Spare ultrasonic handpiece ST 360



Standard tool kit included in Set



Tool kit delivered with the ST360

Includes: 2 tool holders (2&2.5mm), 3 carbide tips, 3 ceramic stones, 1 diamond file.

Dedicated ST 360 tool kits

We offer for our ST-360 controller special kits adapted to different sectors. Each item of the kits can be purchased separately. In addition, the ST 360 accept many other tools, ceramic stones, diamond files for example. For this please check our Micro tool section.

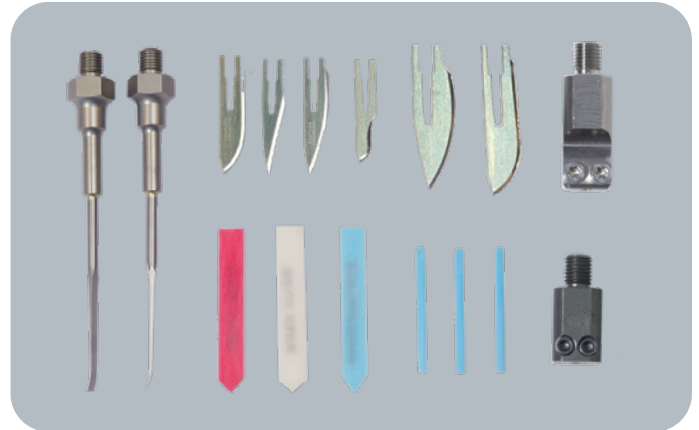


Part No.
507 000 611

- Blade holder M6 (1x)
- Stone holder M6 (1x)
- Blades (6x)
- Cylindrical ceramic stone grit 800 - 1000 - 1200 (1 of each)
- Round type (dia. 2.0mm) ceramic stone grit 800 (3x)

Archaeological tool kit

Kit containing special tools for use in the archaeological field. It can be used for multiple purposes such as fossil cleaning and cutting of strata. Each item can be purchased separately if required.

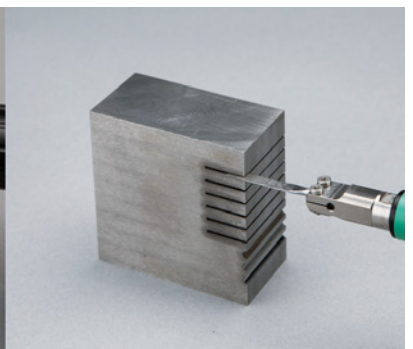
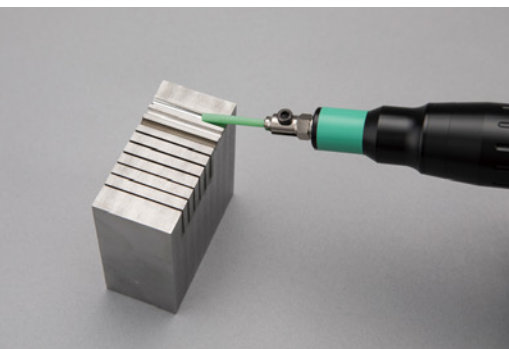
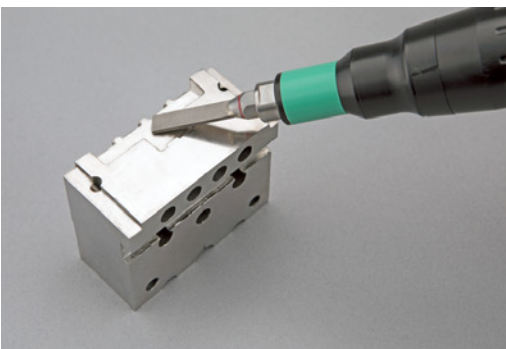
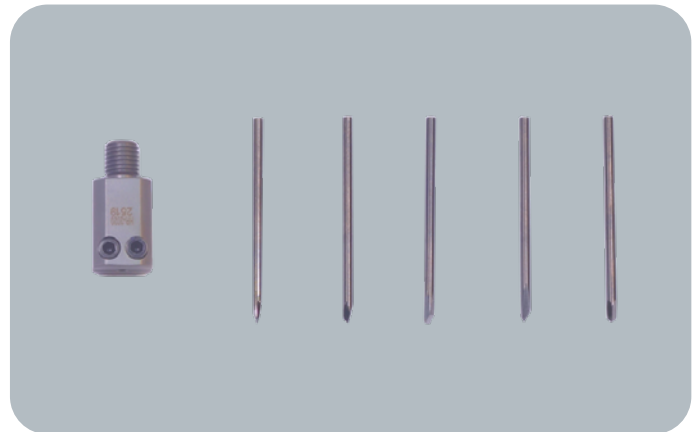


Part No.
507 000 612

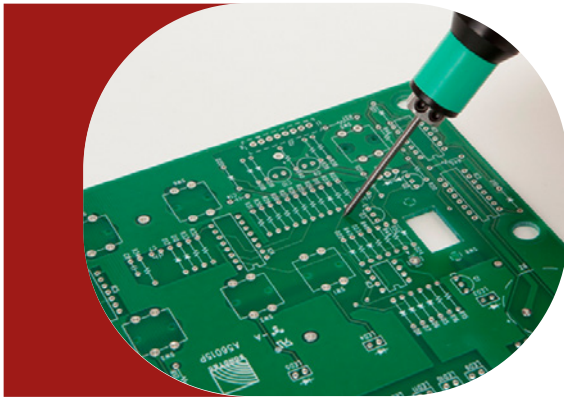
- Chisel holder M6 (1x)
- Burnishing tool (1x)
- Chisel round shape (1x)
- Chisel flat shape (1x)
- Chisel V-Shape 60° (x1)
- Chisel V-Shape 90° (x1)

Chisel graving tool kit

Kit containing special tools for use in metal engraving. Each item can be purchased separately if required.

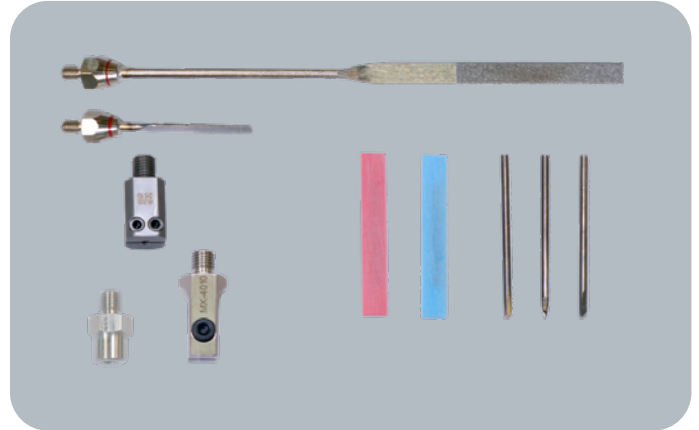


Dedicated ST 360 tool kits



Multi-purpose tool kit

Kit containing various tools for universal use.
Each item can be purchased separately if required.



Part No.
507 000 613

- Diamond file 1t x 5w grit 200 (1x)
- Diamond file 0.8-0.3t x 4w grit 200 (1x)
- Chisel holder M6 (1x)
- Chisel round type (1x)
- Chisel flat type (1x)
- Burnishing tool (1x)
- Holder ceramic stone M6 (1x)
- Ceramic stone flat grit 600 (1x)
- Ceramic stone flat grit 1200 (1x)

ACCESSORIES AND SPARE PARTS ST360 POLISHING SET

Foot pedal ST360



Ceramic & diamond files



Chisels / blades & special tools for archaeological use



Special holders for grooves



Ultrasonic handpiece ST360.
Low vibrations and ergonomic
design for ease of use



Flex shaft Euro 180 Watts

Hanging motor with flexible shaft. Robust construction. Allows to work on various materials for deburring, polishing or finishing operations. Power of 180 Watts. Allows the use of tools on shaft with diameters up to 30 / 40 mm.

A flex shaft hanger is available in option.

Large choice of interchangeable handpieces

Technical data	
Rotation speed	25.000 rpm
Output	180 Watts
Power	220 Va 60 Hz

Part No	Description
502 000 051	Set Euro 25.000 rpm including. 1 Motor - 1 flexible shaft 110 cm 1 ON/OFF foot pedal
502 000 003	Euro Flex shaft Hanger
502 000 052	Variable speed controller for Euro



Speed control

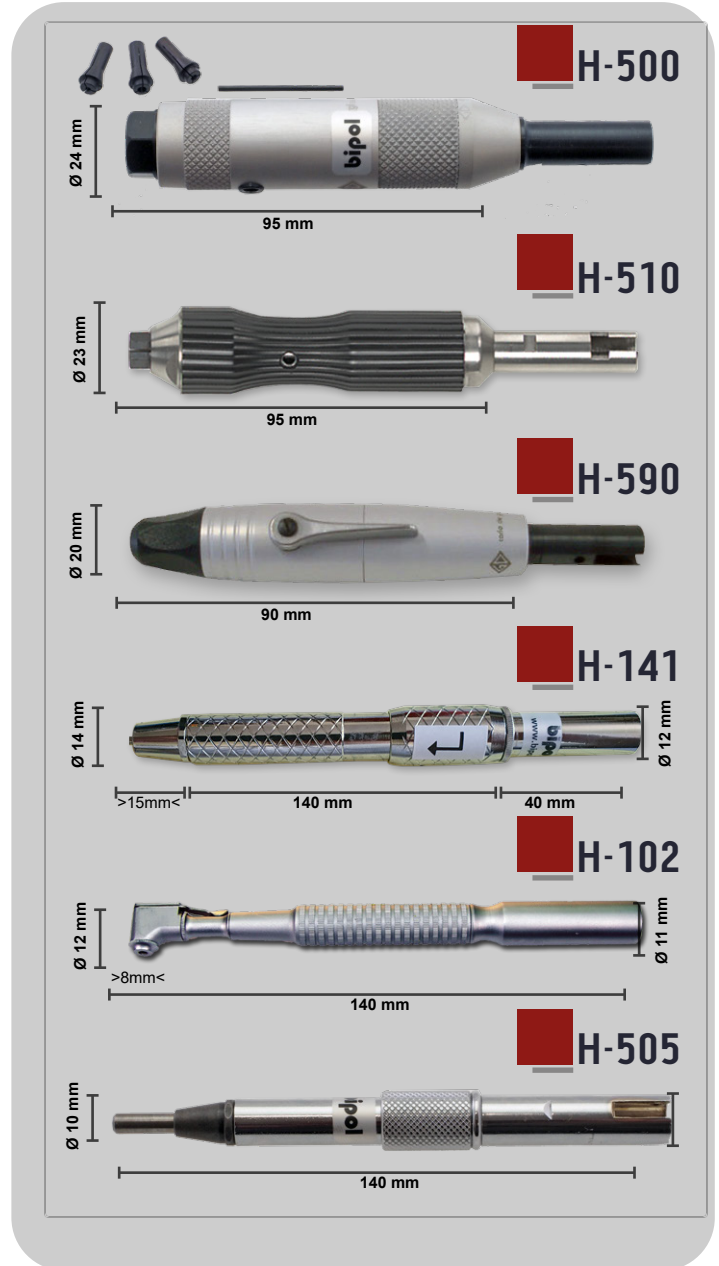


Accepts all handpieces.

Flex shaft Handpieces

Selection of handpieces dedicated to our Euro Motor

Description	Type	Collet	Part No
Handpiece straight universal	H-500	2,35/3/4/6	502 000 040
Handpiece straight ergonomic	H-510	3.00	502 000 028
Spare collet Ø 2,35 mm		-	503 000 006
Spare collet Ø 3,00 mm		-	503 000 007
Spare collet Ø 6,00 mm		-	503 000 014
Handpiece quick chuck change	H-590	3.00	502 000 029
Spare collet Ø 2,35 mm		-	503 000 046
Spare collet Ø 3,00 mm		-	503 000 047
Handpiece straight pen type	H-141	2.35	503 000 055
Spare collet Ø 2,35 mm		-	503 000 056
Spare collet Ø 3,00 mm		-	503 000 057
Handpiece 90° micro Ergo dental attachment Ø 2.35mm	H-102	-	503 000 042
Engraving handpiece (supplied with 2 chisels)	H-505	-	502 000 045



Argo reduction sleeve

Allows to quickly modify the diameter of the collet to adapt a different diameter tool to it. Available in many different diameters. See Neo Digit section.



Spare flexible shaft

Part No	Description
502 000 013	Spare shaft E-500 for Euro length 110 cm



MICRO AIR GRINDERS HAND HELD



We offer a large choice of production dedicated hand held air micro grinders for all type of deburring, polishing or finishing operations.

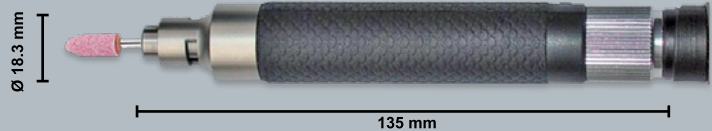
Production Micro Grinders



Micro grinder Turbo GX-PRO

60.000 rpm. Supplied with collet 3mm & reduction sleeve 3 to 2.35mm. For deburring operations, polishing and finishing. Light weight, ergonomical. Reduced work fatigue due to rubber protection.

Anti-vibration construction.



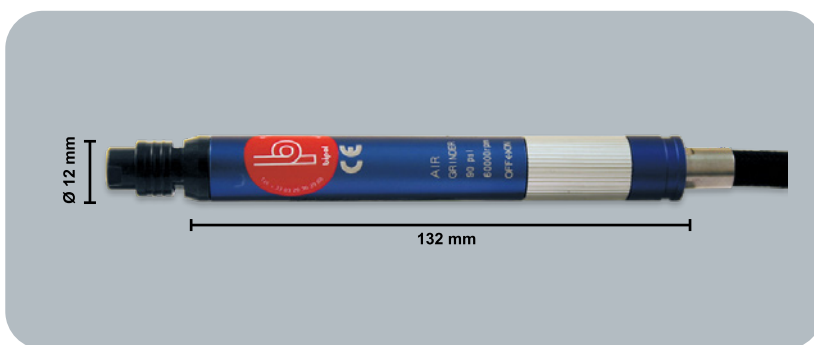
Technical data

Speed	60.000 rpm
Weight	115 gr
Collet	Ø 3 mm and reduc.3/2.35mm
Working pressure	6 bars, oil
Air consumption	54 l / min
Power output	0.09 kW
Sound level	85 dBA

Part No	Description
510 001 180	Micro air grinder TURBO GX-PRO 60.000 rpm

Micro grinder Turbo GX

Light weight and versatile Micro air grinder. 60.000 rpm. Supplied with collet 3mm & reduction sleeve 3 to 2.35mm. For deburring, polishing and finishing operations.



Technical data

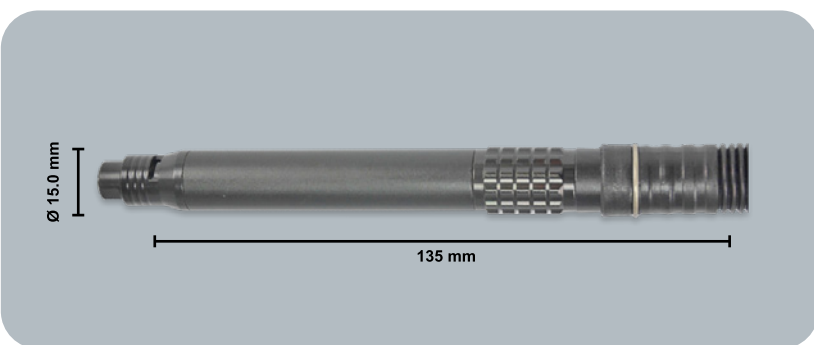
Speed	60.000 rpm
Weight	90 gr
Collet	Ø 3 mm and sleeve 3/2.35mm
Working pressure	6 bars (oil)
Air consumption	54 l / min
Power output	0.09 kW
Sound level	85 dBA

Part No Description

510 001 006	Micro air grinder TURBO GX 60.000 rpm
-------------	--

Micro grinder Turbo GX-S

70.000 rpm. Supplied with collet 3mm & reduction sleeve 3 to 2.35mm. For deburring operations, polishing and finishing. Light weight, ergonomical.



Technical data

Speed	70.000 rpm
Weight	110 gr
Collet	Ø 3 mm and sleeve 3/2.35mm
Working pressure	6 bars (oil)
Air consumption	54 l / min
Power output	0.09 kW
Sound level	85 dBA

Part No Description

510 001 185	Micro air grinder TURBO GX-S 70.000 rpm
-------------	--

Micro grinder FX-3.0

60.000 rpm. For deburring, polishing and finishing operations. Extra light (78g only), compact and ergonomic. Long lasting.



Technical data

Speed	60.000 rpm
Weight	78 gr
Collet	Ø 3 mm and sleeve 3/2.35mm
Working pressure	6 bars (oil)
Air consumption	90 l / min
Power output	0.11 kW
Sound level	85 dBA

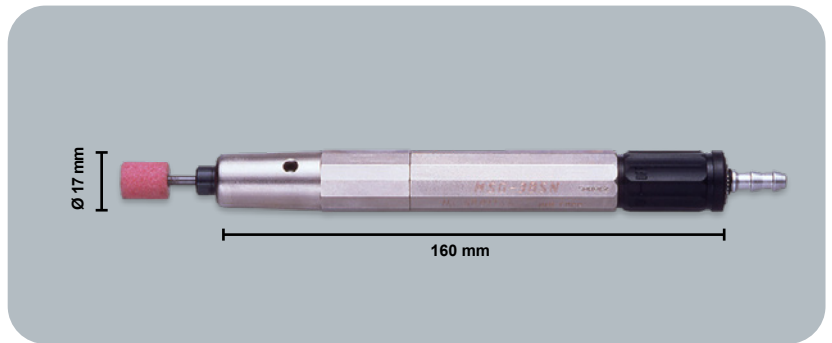
Part No Description

510 001 004	Micro air grinder TURBO FX-3.0 60.000 rpm
-------------	--

Micro grinder MSG-3BSN

65.000 rpm. For deburring, polishing and finishing operations. Supplied with collet 3mm & reduction sleeve 3 to 2.35mm.

Powerful and robust air grinder

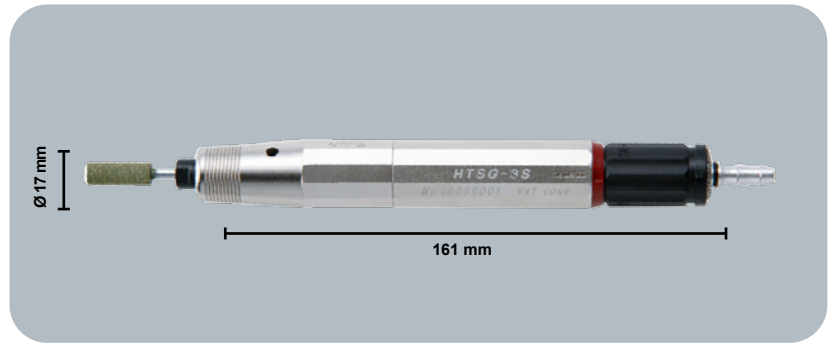


Technical data	
Speed	65.000 rpm
Weight	130 gr
Collet	Ø 3 mm and sleeve 3/2.35mm
Working pressure	6 bars (oil)
Air consumption	70 l / min
Power output	0.20 kW
Sound level	85 dBA

Part No	Description
510 001 170	Micro air grinder MSG-3BSN 65.000 rpm

Micro grinder HTSG-3S

High Torque Air Grinder. Even under load, the high torque and 24,000rpm will handle both deburring and polishing tasks with ease. Ideal with carbide burr of inihing felt tools.

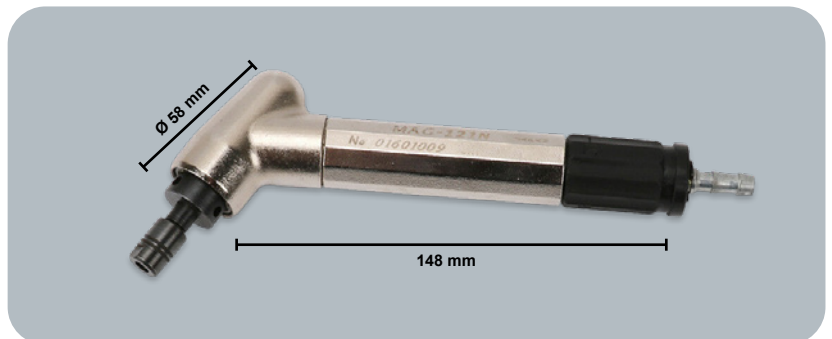


Technical data	
Speed	24.000 rpm
Weight	135 gr
Collet	Ø 3 mm and sleeve 3/2.35mm
Working pressure	6 bars (oil)
Air consumption	70 l / min
Power output	0.20 kW
Sound level	85 dBA

Part No	Description
510 001 175	Micro air grinder HTSG-3S 24.000 rpm

Micro grinder MAG-121N

45° angle air grinder 52.500rpm. For deburring, polishing and finishing operations. Supplied with collet 3mm & reduction sleeve 3 to 2.35mm. Powerful and robust air grinder

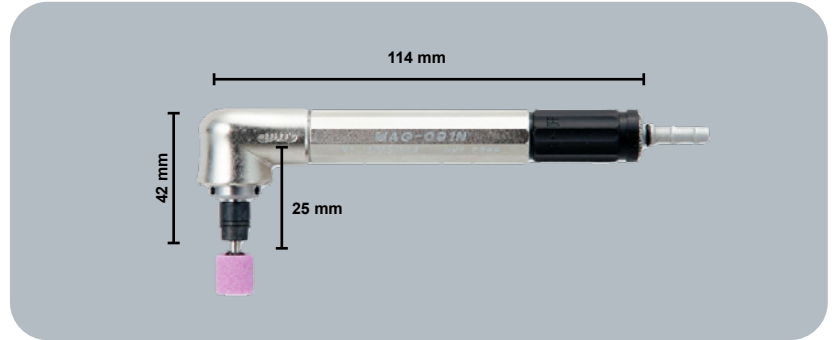


Technical data	
Speed	52,500 rpm
Weight	140 gr
Collet	Ø 3 mm and sleeve 3/2.35mm
Working pressure	6 bars (oil)
Air consumption	70 l / min
Power output	0.20 kW
Sound level	85 dBA

Part No	Description
510 001 160	Micro air grinder 45° MAG-121N 52.500 rpm

Micro grinder MAG-091N

90° angle air grinder 52.500rpm. For deburring, polishing and finishing operations. Supplied with collet 3mm & reduction sleeve 3 to 2.35mm. Powerful and robust air grinder



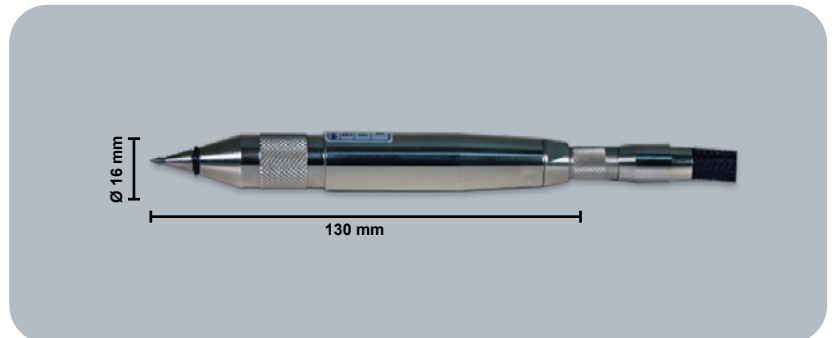
Technical data	
Speed	52,500 rpm
Weight	140 gr
Collet	Ø 3 mm and sleeve 3/2.35mm
Working pressure	6 bars (oil)
Air consumption	70 l / min
Power output	0.20 kW
Sound level	85 dBA

Part No	Description
510 001 161	Micro air grinder 90° MAG-121N 52.500 rpm

Air Engraving pen

Air engraving pen that can be used on any type of material: metal, ceramic, plastic, wood, stone.

Supplied with a chisel.

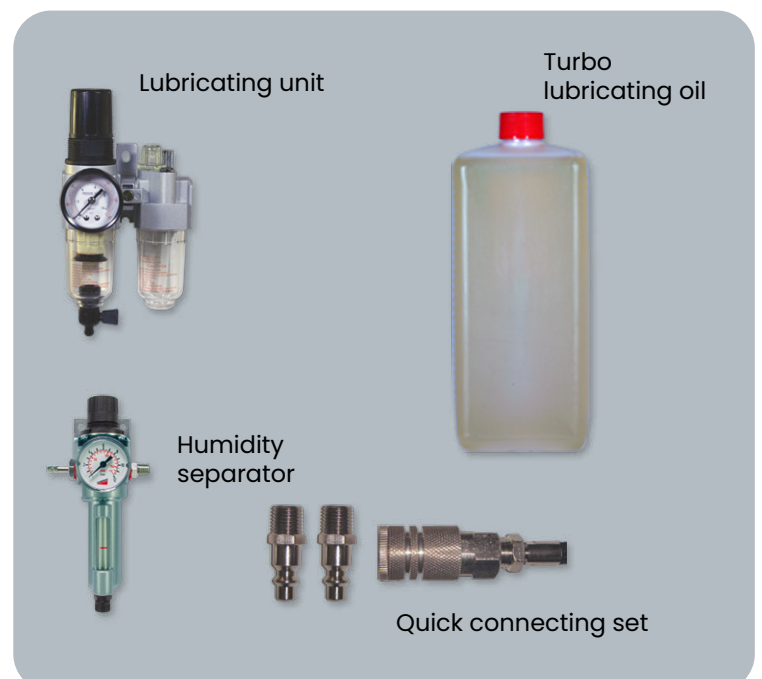


Technical data	
Strokes	34.000 / min
Amplitude	1.2 mm
Working pressure	6 bars (oil)
Air consumption	160 l / min
Power output	0.30 kW
Sound level	80 dBA

Part No	Description
510 001 150	Air engraving pen
510 001 155	Spare chisel for pen (x1)

Accessories for grinders

Part No	Description
511 000 003	Lubricating unit with air filter
511 000 005	High speed turbo oil - 1 litre
511 000 004	Humidity separator only with air filter (dedicated to TURBOLAP)
512 000 030	ON/OFF Foot pedal for air grinders
512 000 031	Quick connecting set



TURBOLAP AIR Filers

TurboLap delivers high-speed reciprocation with high torque and a short stroke. Ideal for filing, lapping and polishing molds or honing precision parts. Makes quick work of polishing ribs, slots and intricate areas. Runs quietly and is designed to be operated for long periods without getting hot. Provides optimum results with Diamond Poli Files and 1mm flat Super Ceramic Stones. Lightweight with good balance and ergonomic soft-grip design.



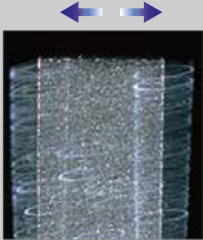


Available in 2 modes

Linear & Swing



TLL
Linear Mode



TLS
Swing mode



Technical data

Stroke	Linear or swing
Amplitude	TLL/TLS -03 0.3 mm TLL/TLS -07 0.7 mm TLL/TLS -12 1.2 mm
Working speed	16/18000 strokes per second
Air supply	5 bars (Dry / No oil)
Sound level	62 dBA
Dimensions	Ø 28 x 216 mm

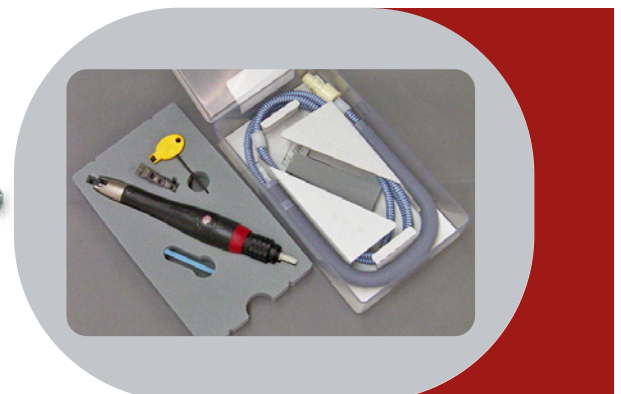
Part No	Description
510 001 038	TURBOLAP TLL-03
510 001 008	TURBOLAP TLL-07
510 001 009	TURBOLAP TLL-12
510 001 039	TURBOLAP TLS-03
510 001 040	TURBOLAP TLS-07
510 001 041	TURBOLAP TLS-12
511 000 004	Humidity separator for Turbolap



Humidity separator in option



Supplied in case with accessories

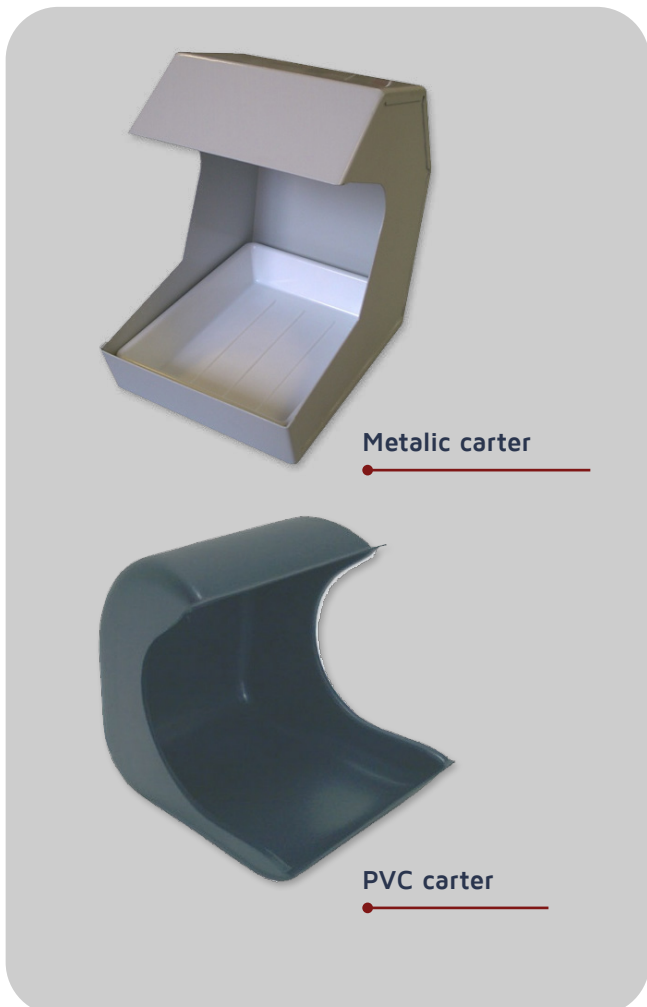
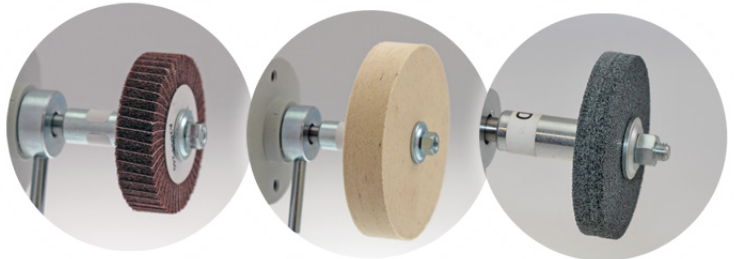


Includes: Hexagonal wrench - 1
Diamond Poli File - 1.5m air hose -
Overhose - Hose bands - Quick joint with filter.

DUO Universal Bench Polisher

The high torque motor runs smoothly and is also very quiet running. It offers 2 speeds options which make it the perfect bench lathe for both polishing and deburring operations on small parts. Base with mounting holes for a secure hold on any work surface. Large selection of dedicated abrasives and polishing tools available.

Technical Data	
Power	220 VA-50/60 Hz
Weight	10.5 kg
Work pressure	500 Watts
Dimensions	52 x 12 x 23.5 cm
Inter spindle height	170 mm
Speed	2x - 1400 & 2800 rpm
Tools maximum diameters : 150 mm	



Part No	Description
511 000 050	Bench Lathe DB-DUO 500W
511 000 051	Spindle - Right (D)
511 000 052	Spindel - Left (G)
511 000 053	Wheel holder (8mm hole) - Right (D)
511 000 054	Wheel holder (8mm hole) - Left (G)
511 000 060	self tightening mandrel (0,5-8,0mm) - Right (D)
511 000 028	PVC Carter DUO
511 000 029	Metalic Carter DUO

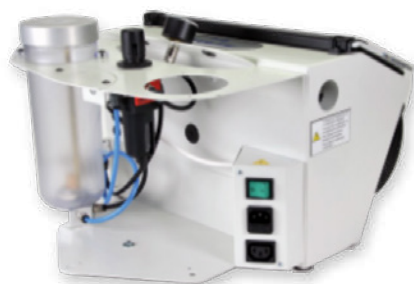


Micro sandblasting unit Microstar

Our line of Micro sandblasting units Microstar offers precision, robustness, flexibility and confort of use.

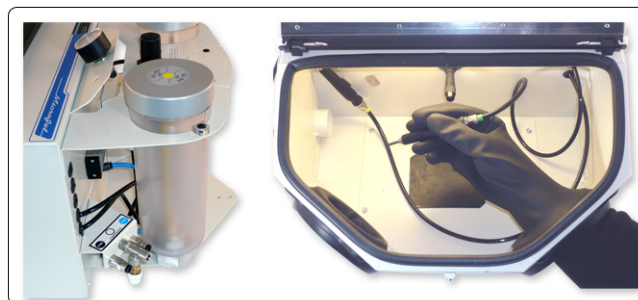
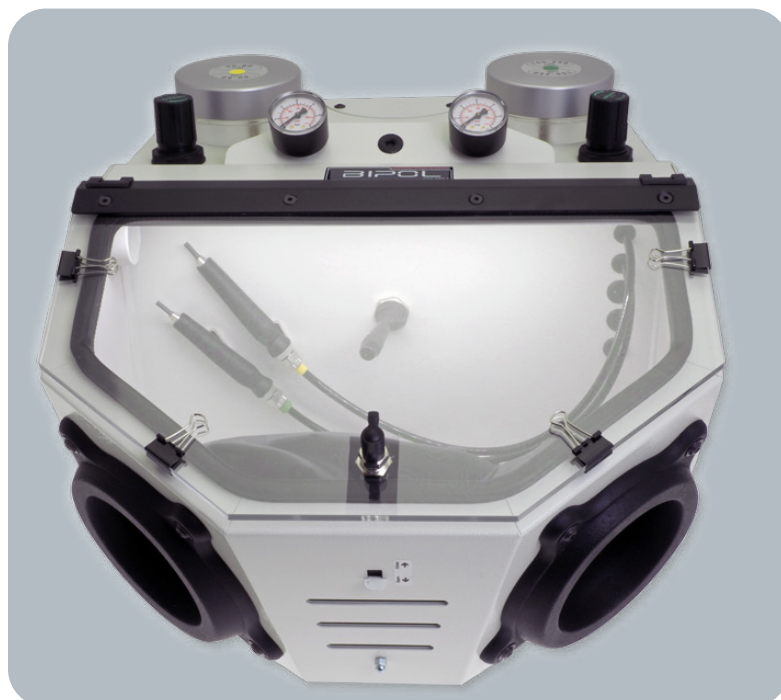
It is available in 3 different versions with nozzles Ø0,8 - 1,0 and 1,2 mm.

The working cabin is lit by a strong LED and offers a securit glass. It can be completed with our vacuum unit AIRBOX.



Rear view

- LED illumination
- Large glass
- Waterproof hand passage
- Adjustable pressure regulator
- Robust carbide nozzles
- Up to 3 reservoirs



The Micro sandblasting unit 101 can be used to perform many different jobs such as light engraving, matting, polishing and cleaning operations on various surfaces. Repair of molds and tools, shelving, removal of scratches, cutting and drilling of semi conductors materials, desoxydating of contacts.

Technical Data

Power	220 VA-50/60 Hz
Fuse	6.3 A
Air pressure	3 to 6 bars
Air consumption	environ 120 l/min
Reservoirs capacity	2 liters
Net weight	9 kg
Dimensions (LxHxP)	380x280x570mm
Dimensions cabin	375x200x200mm

Dust collection: An output at the back of the unit is available for connection to our PRO AIRBOX unit.

Part No	Description
512 000 001	Microstar 101 with 1 reservoir and 1 carbide nozzle 0.8 1.0 or 1.2mm
512 000 002	Microstar 102 with 2 reservoirs and 2 carbide nozzles 0.8 & 1.2mm
512 000 003	Microstar 103 with 3 reservoirs and 3 carbide nozzles 0.8, 1.0 & 1.2mm
512 000 005	Spare Handpiece
512 000 008	Nozzle Ø 0.8 mm
512 000 007	Nozzle Ø 1.0 mm
512 000 006	Nozzle Ø 1.2 mm
512 000 105	Glass protection sheets (lot of 10)
512 000 017	Key for reservoir
512 000 014	Set of filters for Microstar 100 & 101
512 000 020	Pair of gloves for Microstar 101
512 000 004	Pair of cuffs
512 000 040	Connection cable for Dust collector

Medias are available from us. Contact us for more details.

Dust collector PRO AIRBOX

Manually triggered dust collector. Very mobile with its 4 wheels. Ideal for workbench works in small deburring or finishing operations or used in combination with our sandblasting units 101.



Suction station SK2



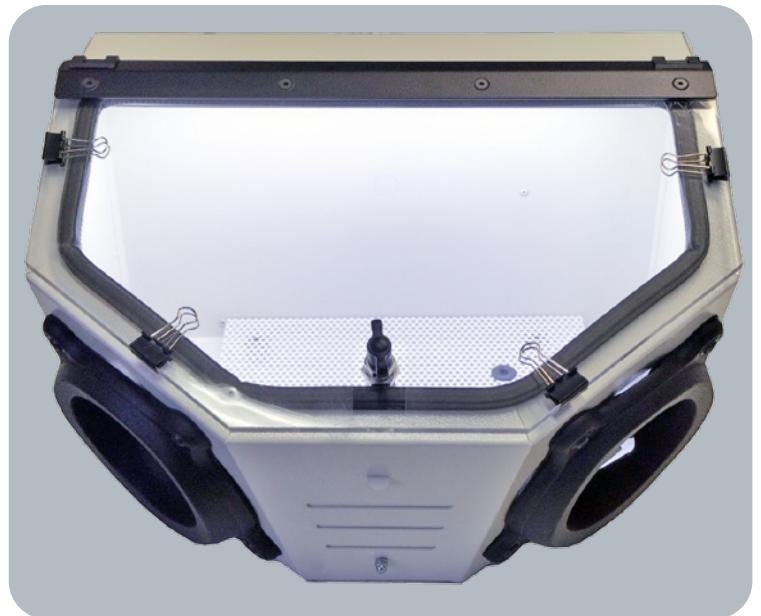
Part No	Description
502 000 110	Dust collector Pro AirBox 220 Va with hose and 1 filter bag
502 000 115	Set of filter bags (x4)
502 000 118	Fine filter for Pro Airbox motor
502 000 135	Suction station with screen SK2

Technical Data	
Power	220 VA-50/60 Hz
Weight	12.0 kg
Dimensions (LxHxP)	380x290x400 mm
Power L Sound level	800 Watts / 60db
Sucked air	30l / sec

Working box Microstar 200

Allows to work either in micro deburring or in micro sandblasting without contaminating the working environment. Coupled to our PRO AIRBOX vacuum unit, this set can be switched on automatically.

Technical data	
Power	220 VA-50/60 Hz
Weight	8.0 kg
Dimensions (LxHxP)	38 x 38 x 27 cm
Illumination	LEDs
Vacuum output	Ø 32 mm



- LED illumination
- Panoramic securit glass
- Output for vacuum



Part No	Description
512 000 200	Working box Microstar 200 220 Va

Accepts in accessories cuffs and gloves of our Microstar sandblasting unit.

Micro sandblasting unit Microstar 100

Dry micro sandblasting unit without cabin.. Supplied with pedal ON/OFF and 1 handpiece with either 0.8 - 1.0 or 1.2 mm carbide nozzle.

Technical Data

Working pressure	3 to 6 bars adjustable
Nozzle	Carbide 0.8/1.0/1.2mm
Weight	3 kg
Reservoir capacity	2 liters
Air consumption	110 l
Dimensions (LxHxP)	110x240x270 mm
Supplied with filter and foot pedal	



Part No	Description
512 000 010	Microstar 100 with nozzle 1,0 mm Version M (90-125)
512 000 025	Microstar 100 with nozzle 0,8 mm Version F (0-50)
512 000 011	Microstar 100 with nozzle 1,2 mm Version G (150-250)
512 000 017	Key for reservoir
512 000 014	Set of filters for Microstar 100 & 101



For blasting media
See appropriate section

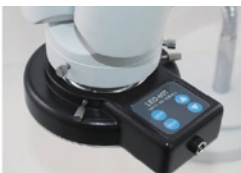
BIPOL 8X Binocular

Practical for detailed work. 8x binocular on base mounted on flexible arms. Available with or without adjustable ring LED lighting. Comes with 2 rubber eyelets and a protective cover.

Technical data

Magnification	8X
Weight	3,5 kg
Depth of field	55-75mm
Working distance	115-145mm

Part No	Description
460 000 820	Binocular 8X
460 000 821	Binocular 8X with LED lighting



with LED



Endolux-T table light source



Our Endo-lux T is a compact and powerful (80 watts) table light source with LED technology.

It comes with a continuous light adjustment (20 levels) and a standard RIWO output. It is compatible with video and photo applications and can be connected to our rigid endoscopes & fiberscopes.

Main features

- Powerful LED illumination
- Memory function
- Sleep mode
- Adjustable on 20 levels

Technical Data

LED output	80 Watts
Illumination	800,000 lux
Light intensity	20 levels adjustable
Spectral range	400nm-700nm
Color temperature	5,000 - 7,000 k
Cable connection	RIWO
Power	110V-220V / 50 Hz-60Hz
Dimensions	355x315x120mm
Weight	5,2 kgs (11,46 lbs)
LED Lamp runtime	50,000 hours

Part Number Description

Endo-Lux-T	Bipol table light source Endo-lux T - 80 Watts - RIWO - bi tension 110/220 VA
Endo-Lux-C	Light cable SUPERFLEX Ø 4 x 1900mm Steel sheathing with outer PVC sheathing connection RIWO-STORZ/ACMI.



Endolux-C light cable

Illumination for workbench use

Soft lighting probes



Monofiber RIWO probe

RIWO Probe available in Ø 1.5 and 3.2mm, length 120cm. (Fibers can be added on demand Ø1,50mm)

Compatible with our Endolux-T.

Part No	Description
615 000 115	Probe RIWO Plastfiber Ø1,50mm x 120 cm
615 000 105	Probe Plastfiber Ø 1,5 mm x 120cm (spare)
615 000 120	Probe RIWO Plastfiber Ø3,20mm x120mm

Multifiber RIWO probes

Probe RIWO multi fibers available in Ø 1.0mm, length 150cm. Made of 10 single illumination fibers to increase light during endoscopic inspection.

Compatible with our Endolux-T.

Part No	Description
615 000 070	Probe RIWO Plastfiber 1500 mm - 10 fibers Ø 1 mm FAB-BIP

LED Bench Inspection Lamp

Powerful lamp with magnification that bolsters a full 127 mm diameter lens with 60 LED's surrounding the lens to give you optimal brightness. Made of durable metal construction that utilizes an adjustable movable arm, this model also clamps down to your work station or bench (clamp included)

Technical data	
LED power	14 watts (60 LEDs)
Power	220-240 V -50/60 Hz
Light intensity	Adjustable 3 levels
Lens	Cristal glas Ø 127 mm at 3 diopters magnifying 1.75 X
Arm	Articulating with cable guide. Reaches up to 700mm
Holding	Clamp for bench up to 65 mm thick
Loupe dimensions	250x195 mm

Part No	Description
502 000 140	LED Bench Inspection Lamp with clamp 220Va 50/60 Hz





Mo

**Micro Tools for
Deburring &
Finishing**

Carbide burs standard and fine (F)cut

Shank Ø 1.60 x 19 mm



For micro-deburring operations



HM21 R



HM21



HM7



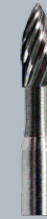
HM1



HM133F



HM246F



HM274F



HM379F



HM41F

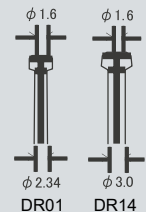
Ø	L mm	Part No.	
HM 21 R - cylinder, round			
0.80	3.6	403 002 041	5
0.90	3.8	403 002 042	5
1.00	4.1	403 002 043	5
1.20	4.1	403 002 044	5
HM 21 - cylinder, cut			
0.80	3.6	403 002 036	5
0.90	3.8	403 002 037	5
1.00	4.1	403 002 038	5
1.20	4.1	403 002 039	5
1.40	4.5	403 002 040	5
HM 7 - cylinder universal			
0.60	1.7	403 002 046	5
0.80	1.8	403 002 047	5
1.00	2.0	403 002 048	5
1.20	2.2	403 002 049	5

Ø	L mm	Part No.	
HM 1 - round			
0.50	-	402 000 092	5
0.60	-	403 002 027	5
0.70	-	403 002 028	5
0.80	-	402 000 093	5
1.00	-	402 000 072	5
1.20	-	403 002 030	5
1.40	-	403 002 031	5
1.60	-	403 002 032	5
1.80	-	403 002 033	5
2.10	-	403 002 034	5
2.30	-	403 002 035	5
HM 133F - pointed cone			
1.0	4.2	403 002 054	5

Ø	L mm	Part No.	
HM 246F - blunt point			
0.80	3.6	403 002 081	5
0.90	3.6	403 002 082	5
1.00	3.6	403 002 083	5
1.20	3.6	403 002 084	5
1.40	3.6	403 002 085	5
HM 274F - bullet			
1.60	3.7	402 000 031	5
HM 379F - bullet rounded			
1.40	3.1	402 002 090	5
1.80	3.5	402 002 091	5
2.30	4.2	402 002 092	5
HM 41F - round			
1.40	-	402 000 095	5
1.80	-	403 002 024	5
2.30	-	402 000 109	5

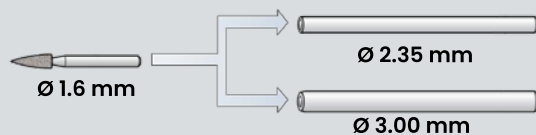
Argo reducing sleeves

Enables the diameter of the collet to be changed quickly to accommodate tools with different shank diameters.



Shank holders L-34 mm for Ø1.6 mm shank tools

Holders available in Ø 2.35 & 3.00 mm. Length 34 mm. Allows direct mounting of Ø 1.6mm shank tools.



HNO extensions

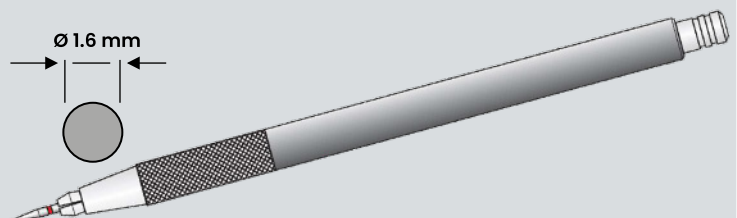
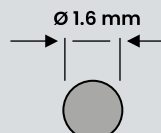
Very useful for deburring in hard-to-reach places.



Description	Part No.	
Argo sleeve DR 01 -2.34 / 1.6 mm	507 001 001	1
Argo sleeve DR 14 -3.0 / 1.6 mm	507 001 014	1
Holder 2.35 mm for tools Ø 1.6 mm T 2.35x34mm	460 000 001	2
Holder Ø 3.00 mm for tools Ø 1.6 mm T 3.00x34mm	460 000 002	2
HNO extension 235 - shank 2.35mm LG100 mm for tool shank 1.6 mm	403 000 011	1
HNO extension 300 - shank 3.00mm LG100 mm for tool shank 2.35 mm	403 000 012	1
Manual Pen collet 1.6 mm	460 000 179	1

Pen collet 1.6 mm

Accepts any 1.6mm shank tool for manual work

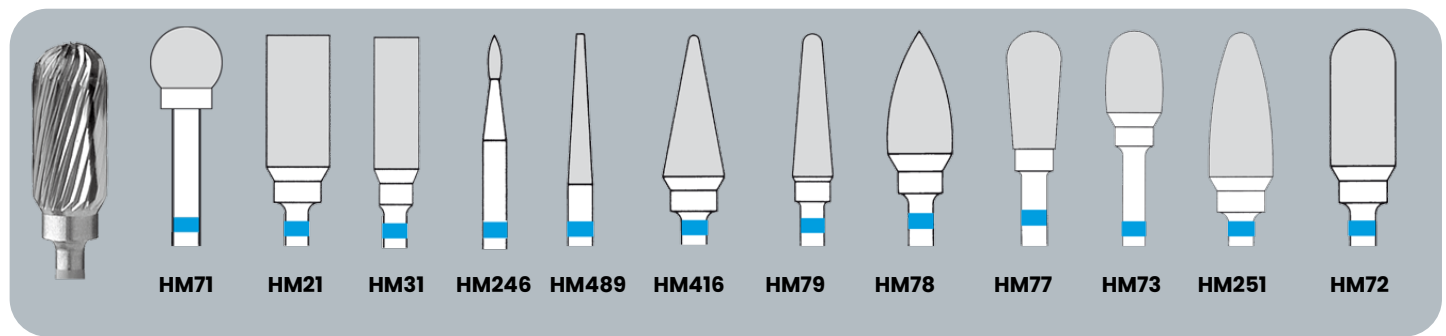


Carbide rotary burs standard cut

Shank Ø 2.35 x 44 mm



General-purpose
for machining and
deburring



Ø	L mm	Part No.	
HM 71 round			
0.40	-	402 000 001	5
0.50	-	402 000 002	5
0.60	-	402 000 003	5
0.80	-	402 000 005	5
1.00	-	402 000 007	5
1.20	-	402 000 008	5
1.40	-	402 000 009	5
1.60	-	402 000 010	5
1.80	-	402 000 011	5
2.10	-	402 000 012	5
2.30	-	402 000 013	5
2.50	-	402 000 014	2
2.70	-	402 000 015	2
3.10	-	402 000 016	2
4.00	-	402 000 017	2
5.00	-	402 000 018	2

Ø	L mm	Part No.	
HM 21 cylinder, cut			
0.80	3,6	403 002 001	5
1.00	4,1	402 000 074	5
1.20	4,1	403 002 004	5
1.40	4,5	403 002 005	5
1.60	4,5	403 002 006	5
1.80	4,9	403 002 007	5
6.00	13.7	402 002 009	2
HM 31 cylinder, cut			
2.30	5,4	402 000 104	5
HM 246 bullet			
0.80	3.6	402 000 026	5
HM 489 pointed cone			
2.30	15,0	402 000 034	2
HM 416 pointed cone			
6.00	14,7	403 000 008	2

Ø	L mm	Part No.	
HM 79 rounded cone			
4.00	14.2	402 000 060	2
4.50	12.7	402 000 061	2
7.00	17.7	402 000 063	2
HM 78 blunt point			
6.00	12.7	402 000 054	2
HM 77 cylinder universal			
5.00	10.7	402 000 048	2
6.00	11.7	402 000 049	2
HM 73 oval			
6.00	10.0	402 000 046	2
HM 251 blunt rounded			
6.00	14.7	402 000 200	2
7.00	14.7	402 000 201	2
HM 72 cylinder, round			
6.00	13.7	402 000 039	2

Long shank Ø 2.35 x 70 mm standard cut



Ø	L mm	Part No.	
HM 236 HNO round TB			
0.50	70	403 000 206	1
0.60	70	403 000 070	1
0.80	70	403 000 066	1
1.00	70	403 000 067	1
1.40	70	403 000 068	1
1.80	70	403 000 069	1
2.30	70	403 000 065	1
HM 236 HNO round one piece			
5.00	70	403 000 076	1

Shank reported one piece

Long shank Ø 2,35 x 70mm fine cut

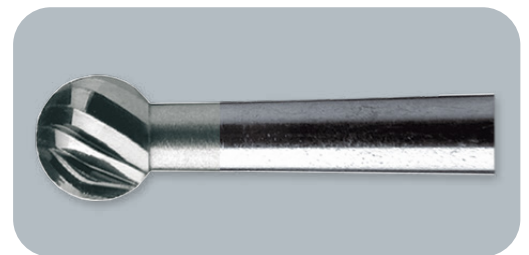


Ø	L mm	Part No.	
HM 236 F HNO round TB			
1.40	70	403 001 068	1
1.80	70	403 001 069	1
2.30	70	403 001 065	1

Shank reported



Milling cutters on long
shanks. Special for
intersecting holes



Milling cutters on long
shanks. Special for
intersecting holes



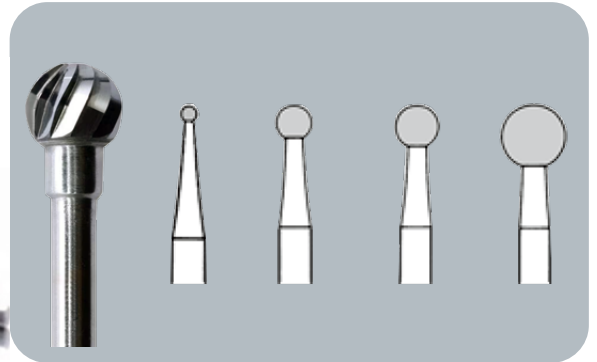
Carbide burs cut special for STD-AF

Shank Ø 2.35 x 44 mm

Ø	L mm	Part No.	
HM 141 F round			
1.0	44	402 000 251	2
1.4	44	402 000 252	2
1.8	44	402 000 253	2
2.3	44	402 000 254	2
2.7	44	402 000 255	2
3.1	44	402 000 256	2
3.5	44	402 000 257	2
4.0	44	402 000 258	2
5.0	44	402 000 259	2



Use on high-alloy steels.
Finishing all materials.
Less pronounced helix,
less feed.



Carbide burs cut special for HX-SX (coarse)

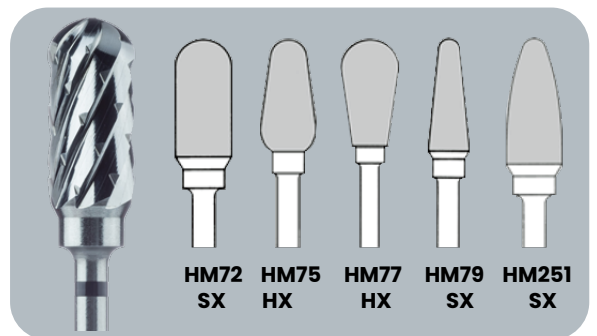
Shank Ø 2.35 x 44 mm

Ø	L mm	Part No.	
HM 72 SX cylinder, round			
6.0	13.7	402 000 240	2
HM 75 HX rounded cone			
6.0	12.0	402 000 241	2
7.0	13.2	402 000 242	2
HM 77 HX cylinder universal			
6.0	11.7	402 000 243	2

Ø	L mm	Part No.	
HM 79 SX rounded cone			
4.5	12.7	402 000 244	2
7.0	14.7	402 000 245	2
HM 251 SX blunt rounded			
6.0	14.7	402 000 246	2



Use on light alloys -
plastered softwoods



Carbide burs cut special for Z5 (extra large)

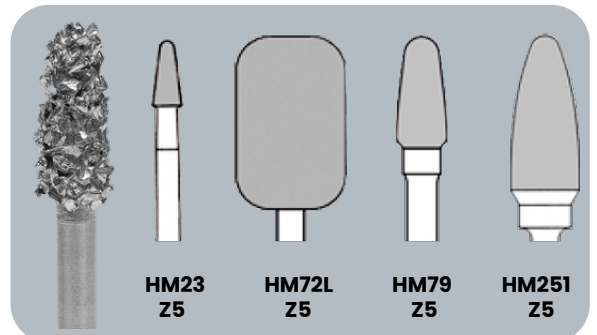
Shank Ø 2.35 x 44 mm

Ø	L mm	Part No.	
HM 23 Z5 rounded cone			
2.7	7.5	402 000 154	2
HM 72L Z5 barrel			
9.5	13.7	402 000 155	2

Ø	L mm	Part No.	
HM 79 Z5 rounded cone			
4.0	9.5	402 000 156	2
HM 251 Z5 blunt rounded			
6.0	14.7	402 000 157	2



Carbide particles for
use on composites -
synthetics - resins -
ceramics

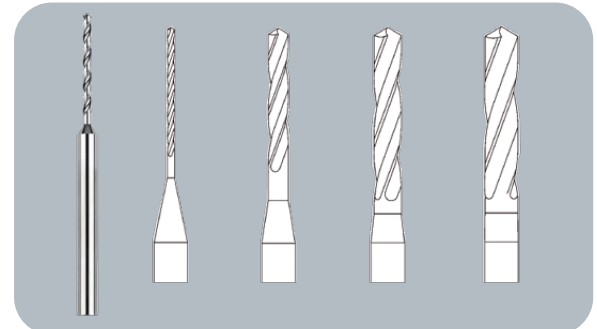


Carbide drills

Shank Ø 2.35 mm

Ø	L mm	Part No.	
0.7	7	460 000 150	2
0.8	7	460 000 151	2
0.9	9	460 000 152	2
1.0	9	460 000 153	2
1.1	9	460 000 154	2
1.2	9	460 000 155	2
1.3	9	460 000 156	2

Ø	L mm	Part No.	
1.4	9	460 000 157	2
1.5	9	460 000 158	2
1.6	9	460 000 159	2
1.8	9	460 000 160	2
2.1	9	460 000 161	2
2.3	9	460 000 162	2
max rpm : 9.000			

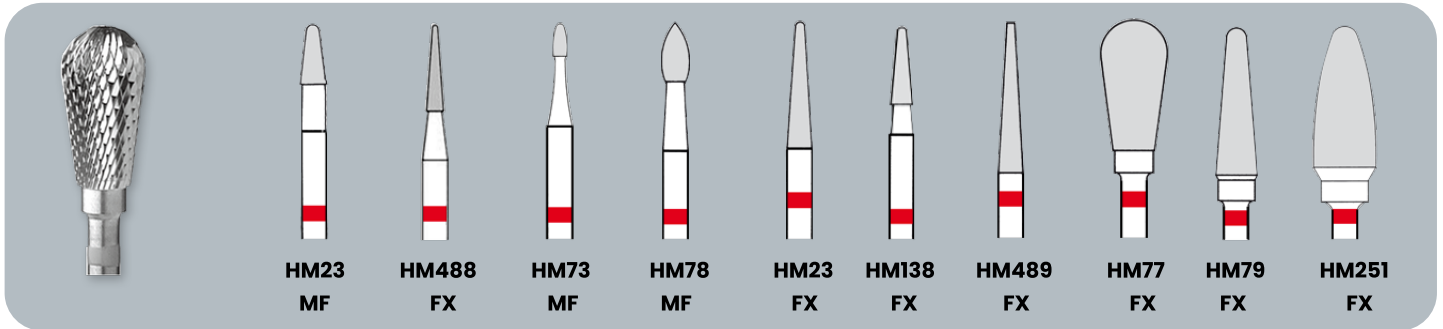


Carbide rotary burs with fine cross cut

Shank Ø 2.35 x 44 mm



For micro-deburring operations on all materials.



Ø	L mm	Part No.	
HM 23 MF conical (pointed in Ø 1,4)			
1.40	4.8	402 000 080	2
2.30	5.5	403 002 021	2
HM 488 FX pointed cone			
1.60	8.0	402 000 040	2
HM 73 MF bullet rounded			
1.4	3.1	402 000 220	2
2.3	4.1	402 000 221	2

Ø	L mm	Part No.	
HM 78 MF bullet pointed			
2.30	5.5	402 000 055	2
HM 23 FX rounded cone			
2.30	11.5	402 000 036	2
HM 138 FX pointed cone			
1.80	8.0	402 000 051	2
HM 489 FX pointed cone			
2.30	15.0	402 000 035	2

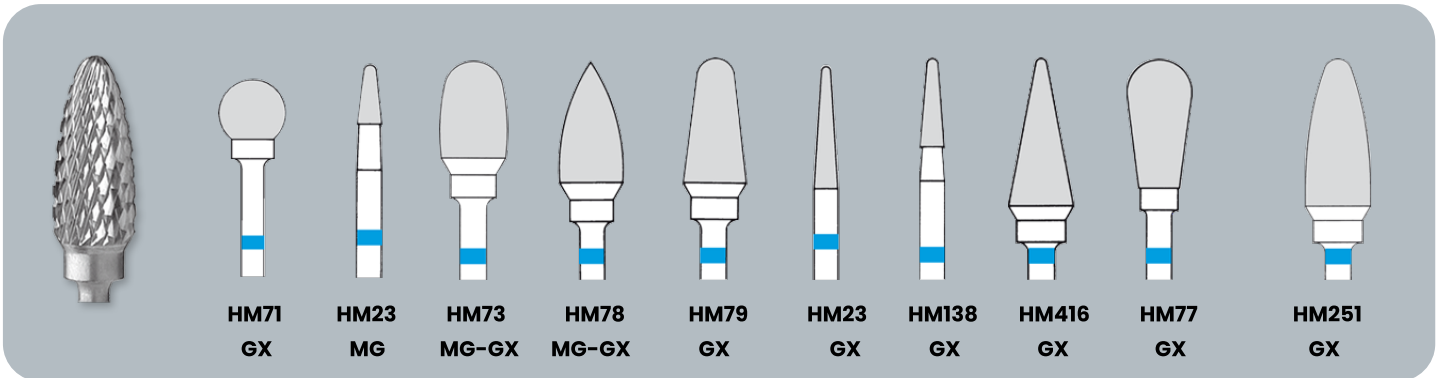
Ø	L mm	Part No.	
HM 77 FX cylinder universal			
2.3	5.5	402 000 050	2
6.0	11.7	402 000 222	2
HM 79 FX rounded cone			
4.0	14.2	402 000 223	2
4.5	12.7	402 000 224	2
6.0	12.7	402 000 225	2
HM 251 FX blunt rounded			
4.0	9.3	402 000 226	2
6.0	14.7	402 000 227	2

Carbide rotary burs with standard cross cut

Shank Ø 2.35 x 44 mm



Use on all metals, non-ferrous metals and synthetic materials



Ø	L mm	Part No.	
HM 71 GX round			
5.0	-	402 000 024	2
HM 23 MG conical (pointed en Ø 1,4)			
1.4	4.75	402 000 112	2
2.3	8.00	402 000 078	2
HM 73 MG oval			
1.4	4.8	402 000 228	2
2.3	5.5	402 000 229	2
HM 73 GX oval			
6.0	10.0	402 000 230	2

Ø	L mm	Part No.	
HM 78 MG bullet			
2.3	5.50	402 000 058	2
HM 78 GX bullet			
6.0	12.7	402 000 059	2
HM 79 GX rounded cone			
4.0	14.2	402 000 067	2
4.5	12.7	402 000 068	2
6.0	12.7	402 000 069	2
HM 23 GX pointed cone			
2.3	11.5	402 000 037	2

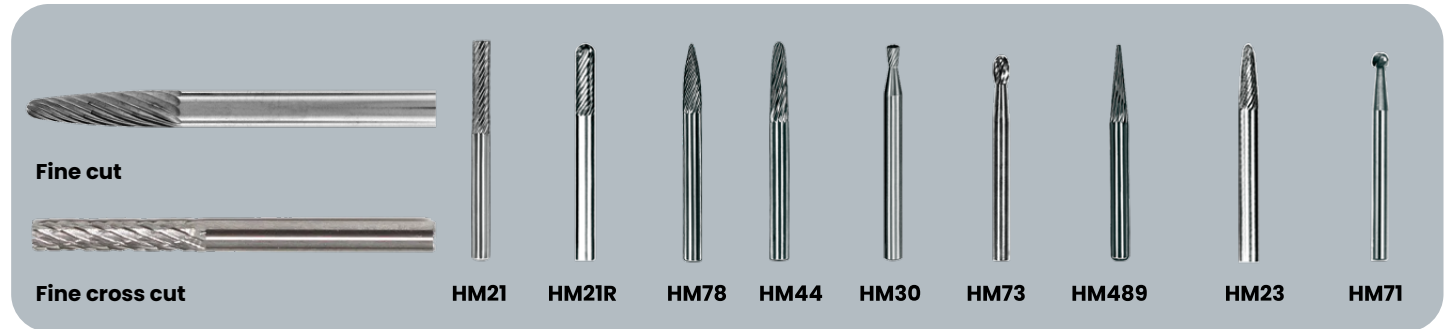
Ø	L mm	Part No.	
HM 138 GX pointed cone			
2.3	8.0	400 000 120	2
HM 416 GX pointed cone			
6.0	14.7	403 000 009	2
HM 77 GX cylinder universal			
6.0	11.7	402 000 231	2
HM 251 GX blunt rounded			
4.0	9.3	403 000 005	2
6.0	14.7	403 000 006	2
7.0	14.7	403 000 007	2

Carbide rotary one piece burs with standard or fine cross cut



Standard cut: All metals
Fine cut: Finishing or high-alloy steels

Shank Ø 3.00 x 38 mm



Ø	L mm	Part No.		
		Fine cross cut	Fine cut (F)	
HM 21 cylinder, cut - HM 21F				
1.5	6.0	405 000 038	405 000 100	5
2.4	11.0	405 000 039	405 000 101	5
3.0	14.0	405 000 040	405 000 102	5
HM 21R - HM 21RF cylinder, round				
2.4	11.0	405 000 041	405 000 103	5
3.0	14.0	405 000 042	405 000 104	5
HM 78 - HM 78F blunt point				
3.0	6.0	405 000 043	405 000 105	5
3.0	10.0	405 000 044	405 000 106	5
HM 44 - HM 44F blunt rounded				
3.0	6.0	405 000 045	405 000 107	5
3.0	12.0	405 000 046	405 000 108	5

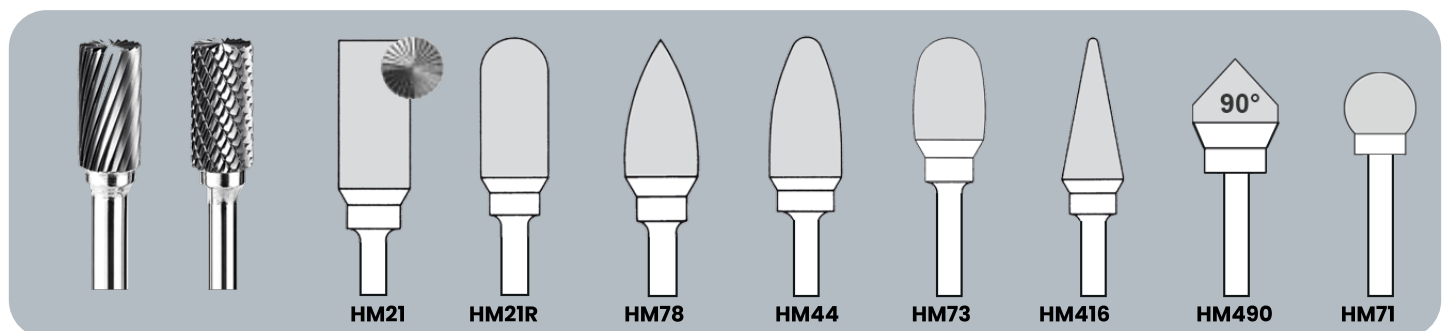
Ø	L mm	Part No.		
		Fine cross cut	Fine cut (F)	
HM 30 - HM 30F dovetail 12°				
2.4	3.0	403 002 065	403 002 067	5
3.0	5.0	403 002 066	403 002 068	5
HM 73 - HM 73F oval				
3.0	-	405 000 047	405 000 109	5
HM 489 - HM 489F pointed cone				
3.0	10/12°	405 000 048	405 000 110	5
3.0	11/14°	405 000 049	405 000 111	5
3.0	16/7°	405 000 050	405 000 112	5
HM 23 - HM 23F blunt rounded				
3.0	10/8°	403 002 070	403 002 072	5
3.0	13/8°	403 002 071	403 002 073	5
HM 71 - HM 71F round				
2.4	-	403 002 074	403 002 076	5
3.0	-	403 002 075	403 002 064	5

Standard & Fine carbide rotary crosscut burs



Standard cut: All metals
Fine cut: Finishing or high-alloy steels

Shank Ø 3,00 x 38 mm carbide head Ø 6 mm



Ø	L mm	Part No.		
		Standard cross-cut	Fine cut	
HM 21 cylinder, cut HM 21F				
6.0	12	405 000 051	405 001 051	1
HM 21 R cylinder, round - HM 21RF				
6.0	12	405 000 052	405 001 052	1
HM 78 blunt point - HM 78F				
6.0	12	405 000 056	405 001 056	1
HM 44 blunt rounded - HM 44F				
6.0	12	405 000 055	405 001 055	1

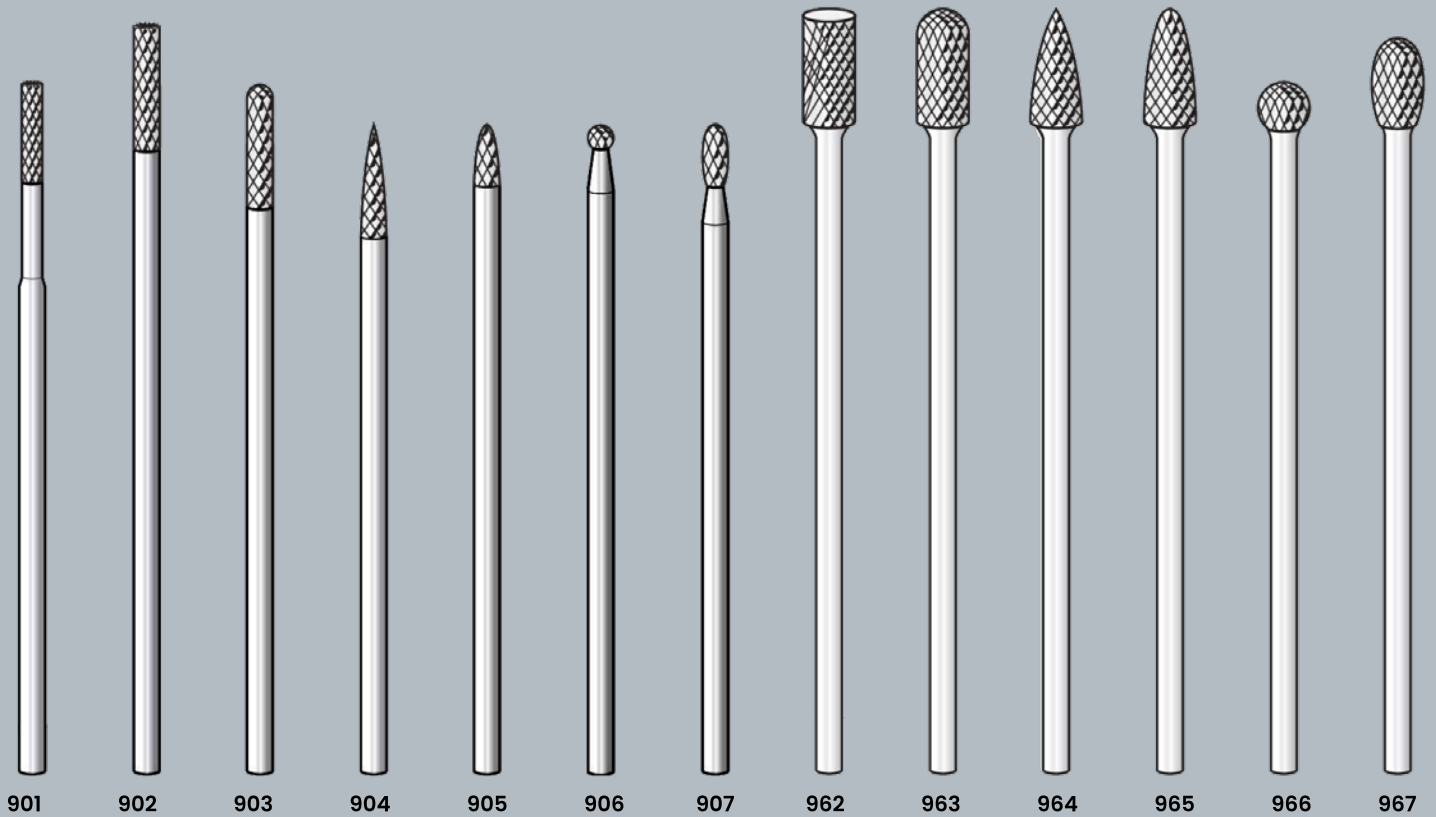
Ø	L mm	Part No.		
		Standard cross-cut	Fine cut	
HM 73 oval				
6.0	10	405 000 054	-	1
HM 416 pointed cone - HM 416F				
6.0	12	405 000 057	405 001 057	1
HM 490F conical 90°				
6.0	3	-	406 000 029	1
HM 71 round - HM 71F				
6.0	-	405 000 053	405 001 053	1

Carbide rotary burs with standard cross cut

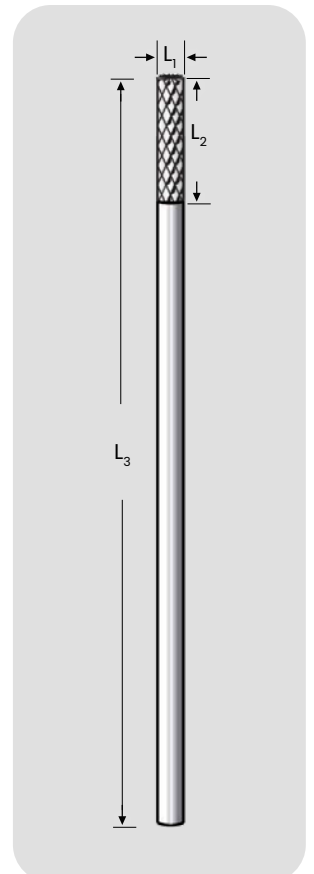
Shank $\varnothing$ 3.00 mm



For deburring operations in intersecting holes and hard-to-reach areas

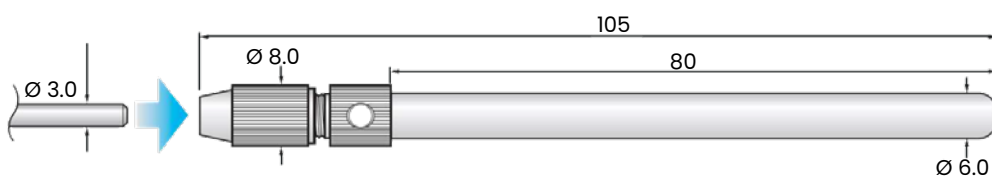


Type	Part No.	L1 mm	L2 mm	L3 mm	
901	460 000 125	2.4	11	80	1
902	460 000 126	3.0	14	90	1
903	460 000 127	3.0	14	80	1
904	460 000 128	3.0	13	75	1
905	460 000 129	3.0	7	75	1
906	460 000 130	3.0	-	75	1
907	460 000 131	3.0	7	75	1
962	460 000 132	6.0	13	88	1
963	460 000 133	6.0	13	88	1
964	460 000 134	6.0	13	88	1
965	460 000 135	6.0	13	88	1
966	460 000 136	6.0	-	80	1
967	460 000 137	6.0	10	88	1



Extension shank 6 mm x length 105 mm

Adapts to 3 mm shank tools (mandrel R212 view page 105)



Part No. 460 000 418

Carbide rotary burrs, Chip-breaker



use in general fine
mechanics

Shank Ø 6.00 mm



Ø	L mm	Part No	RPM	
HM 21 cylindrical cut end				
6.0	16	406 000 001	65 000	1
8.0	20	406 000 002	65 000	1
10.0	20	406 000 003	55 000	1
12.0	25	406 000 004	55 000	1
HM 21 R cylindrical rounded				
6.0	16	406 000 005	35 000	1
8.0	20	406 000 006	65 000	1
10.0	20	406 000 007	55 000	1
12.0	25	406 000 008	55 000	1
HM 78 ogive				
6.0	16	406 000 009	65 000	1
10.0	20	406 000 010	55 000	1
12.0	25	406 000 011	35 000	1
HM 44 ogive rounded				
6.0	16	406 000 012	65 000	1
10.0	20	406 000 013	55 000	1
12.0	25	406 000 014	35 000	1
HM 73 oval				
6.0	10	406 000 015	10 000	1
10.0	16	406 000 016	55 000	1
12.0	22	406 000 017	55 000	1
HM 416 conical				
6.0	20/14°	406 000 018	65 000	1
10.0	16/28°	406 000 019	55 000	1
12.0	22/28°	406 000 020	55 000	1



Ø	L mm	Part No	RPM	
HM 79 conical rounded				
6.0	16	406 000 037	65 000	1
8.0	24	406 000 038	55 000	1
10.0	27	406 000 039	55 000	1
12.0	30	406 000 040	35 000	1
HM 251 ogive rounded				
6.0	16	406 000 025	65 000	1
8.0	20	406 000 026	55 000	1
10.0	25	406 000 027	55 000	1
12.0	32	406 000 028	35 000	1
16.0	36	406 000 065	25 000	1
HM 460 conical 60°				
6.0	4	406 000 033	65 000	1
10.0	8	406 000 034	55 000	1
12.0	11	406 000 035	35 000	1
16.0	14	406 000 036	25 000	1
HM 490 conical 90°				
6.0	3	406 000 029	65 000	1
10.0	5	406 000 030	55 000	1
12.0	6	406 000 031	35 000	1
16.0	8	406 000 032	25 000	1
HM 71 round				
6.0	-	406 000 021	65 000	1
8.0	-	406 000 022	55 000	1
10.0	-	406 000 023	55 000	1
12.0	-	406 000 024	35 000	1
16.0	-	406 000 041	25 000	

Rotativ carbide burr – Aluminium & non ferrous metals

Shank Ø 3.00 & 6.00 mm



milling of aluminium,
magnesium, brass, zinc, lead
or ebonite



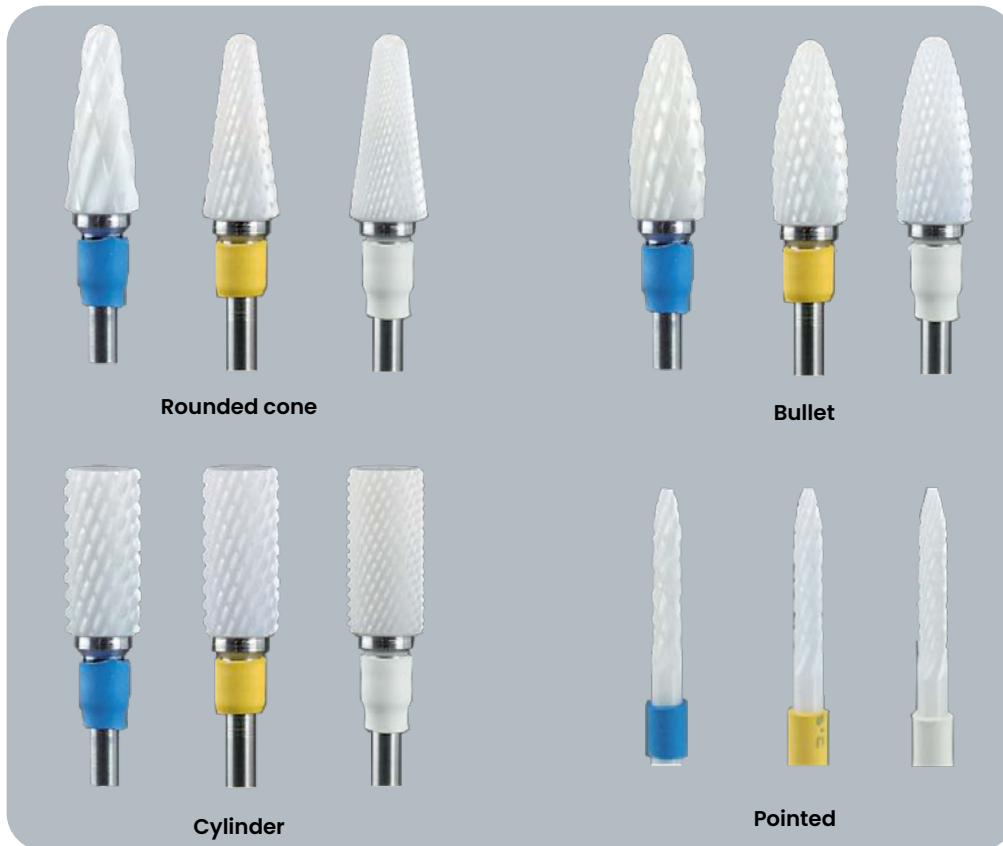
Ø mm	L mm	Shank mm	Part No	RPM	
HM 21 cylindrical cut end					
3.0 x 14.0	38	3	406 000 100	100 000	1
6.0 x 13.0	45	3	406 000 101	65 000	1
10.0 x 20.0	63	6	406 000 102	55 000	1
12.0 x 25.0	68	6	406 000 103	35 000	1
16.0 x 25.0	68	6	406 000 104	25 000	1
HM 21R cylindrical rounded					
3.0 x 14.0	38	3	406 000 105	100 000	1
6.0 x 13.0	45	3	406 000 106	65 000	1
10.0 x 20.0	63	6	406 000 107	55 000	1
12.0 x 25.0	68	6	406 000 108	35 000	1
16.0 x 25.0	68	6	406 000 109	25 000	1
HM Ogive rounded					
3.0 x 14.0	38	3	406 000 110	100 000	1
6.0 x 13.0	45	3	406 000 111	65 000	1
10.0 x 20.0	63	6	406 000 112	55 000	1
12.0 x 25.0	68	6	406 000 113	35 000	1
16.0 x 25.0	68	6	406 000 114	25 000	1
3.0 x 6.0	38	3	406 000 115	100 000	1
HM oval					
6.0 x 10.0	42	3	406 000 116	65 000	1
10.0 x 16.0	60	6	406 000 117	55 000	1
12.0 x 25.0	66	6	406 000 118	35 000	1
16.0 x 25.0	68	6	406 000 119	25 000	1
HM round					
3.0 x 2.5	38	3	406 000 120	100 000	1
4.0 x 3.4	38	3	406 000 121	100 000	1
6.0 x 5.0	38	3	406 000 122	65 000	1
10.0	52	6	406 000 123	55 000	1
12.0	54	6	406 000 124	35 000	1
16.0	58	6	406 000 125	25 000	1
HM conical rounded					
3.0 x 14/8°	38	3	406 000 126	100 000	1
6.0 x 16/22°	48	3	406 000 127	65 000	1
10.0 x 28/14°	71	6	406 000 128	55 000	1
12.0 x 30/14°	72	6	406 000 129	35 000	1
16.0 x 32/14°	76	6	406 000 130	25 000	1

Ceramic rotary burs with cross cut

Shank Ø 2.35 mm



4 Shapes and 3 types of cut.
Very low clogging. Ideal for
aluminum machining



Burs made from zirconium dioxide used in the artificial diamond industry. Extremely hard and heat-resistant, their micro-cuts produce chip dust that doesn't stick to the tool.

They also maintain their properties even after intensive use. Compared with conventional carbide burs, ceramic file burs offer a smoother, more uniform finish. Particularly effective when machining aluminum, the burr head can be washed with water.

Available in 4 shapes and 3 cutting types. Also recommended for duroplastics, composites and various other materials.

Type	Shape	Cut	Part No.	Width mm	Length mm	Rpm	
FC2001	Rounded cone	Coarse (blue)	460 000 202	6.0	14.0	30.000	1
FC2002	Rounded cone	Medium (yellow)	460 000 203	6.0	14.0	30.000	1
FC2003	Rounded cone	Fine (white)	460 000 204	6.0	14.0	30.000	1
FC2004	Bullet	Coarse (blue)	460 000 205	6.0	14.5	30.000	1
FC2005	Bullet	Medium (yellow)	460 000 206	6.0	14.5	30.000	1
FC2006	Bullet	Fine (white)	460 000 207	6.0	14.5	30.000	1
FC2007	Cylinder	Coarse (blue)	460 000 208	6.0	13.0	30.000	1
FC2008	Cylinder	Medium (yellow)	460 000 209	6.0	13.0	30.000	1
FC2009	Cylinder	Fine (white)	460 000 210	6.0	13.0	30.000	1
FC2010	Pointed	Coarse (blue)	460 000 211	2.3	13.0	50.000	1
FC2011	Pointed	Medium (yellow)	460 000 212	2.3	13.0	50.000	1
FC2012	Pointed	Fine (white)	460 000 213	2.3	13.0	50.000	1



Steel burs standard cut

Shank Ø 2.35 x 44 mm



Universal use



Ø	L mm	Part No.	
N°1 round			
0.4	-	404 000 019	10
0.5	-	404 000 020	10
0.6	-	404 000 021	10
0.7	-	404 000 022	10
0.8	-	404 000 023	10
0.9	-	404 000 024	10
1.0	-	404 000 025	10
1.2	-	404 000 027	10
1.4	-	404 000 029	10
1.6	-	404 000 031	10
1.8	-	404 000 033	10
2.1	-	404 000 036	10
2.3	-	404 000 038	10
2.5	-	404 000 039	10
2.7	-	404 000 040	10
2.9	-	404 000 041	10
3.1	-	404 000 042	10
3.3	-	404 000 043	5
3.5	-	404 000 044	5
3.7	-	404 000 045	5
4.0	-	404 000 046	5
5.0	-	404 000 112	5

Ø	L mm	Part No.	
N°3 wheel			
0.8	0.3	404 000 215	10
1.2	0.3	404 000 218	10
1.4	0.4	404 000 219	10
1.6	0.4	404 000 220	10
1.8	0.5	404 000 221	10
2.1	0.5	404 000 222	10
2.3	0.6	404 000 223	10
2.7	0.7	404 000 224	10
3.1	0.8	404 000 225	10
5.0	1.3	404 000 227	5
N°21 cylinder, cut			
1.0	4.2	404 000 229	10
N°71 round			
5.0	-	404 000 236	5
6.0	-	404 000 237	5
7.0	-	404 000 238	5
8.0	-	404 000 239	5

Ø	L mm	Part No.	
N°72 barrel			
6.0	11.0	404 000 241	5
7.0	12.0	404 000 242	5
8.0	13.0	404 000 243	5
N°75 conique bout plat arrondi			
4.0	8.0	404 000 248	5
5.0	9.5	404 000 249	5
6.0	11.0	404 000 250	5
7.0	12.5	404 000 251	5
8.0	14.0	404 000 252	5
N°77 oval			
5.0	10.0	404 000 253	5
6.0	11.0	404 000 254	5
N°78 bullet			
6.0	12.0	404 000 258	5
N°79 rounded cone			
4.5	12.0	404 000 261	5
5.5	12.0	404 000 262	5

Steel burs standard cut

Long shank Ø 2.35 x 70 mm



For deburring operations in intersecting holes and hard-to-reach areas

Ø	L mm	Part No.	
HNO 236 round			
3.10	-	403 000 021	5
3.50	-	403 000 022	5
4.00	-	403 000 023	5
5.00	-	403 000 025	5
6.00	-	403 000 026	5



Steel burs fine cut

Shank Ø 2.35 x44 mm



Use in finishing operations



N°41



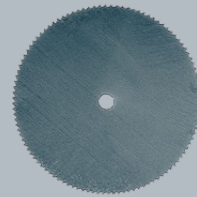
N°48



N°231



N°232RF



Ø	L mm	Part No.	
N°41 round **			
1.0	-	404 000264	10
1.4	-	404 000266	10
2.1	-	404 000269	10
2.3	-	404 000 270	10

** Shank Ø 2,35 x 22 mm
with lug



Ø	L mm	Part No.	
N°48 bullet			
1.0	4.5	404 000 273	10
N°231 wheel			
2.3	0.2	404 000 103	10
10.0	0.5	404 000 106	5

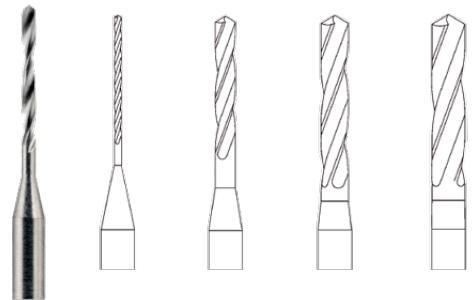
Ø	L mm	Part No.	
N°232 RF wheel			
16.0	0.1	404 000 108	10
19.0	0.1	404 000 109	10
22.0	0.1	404 000 110	10
Mandrel 305RF 050			
5.0	44	416 000 003	5

HSS drills

Shank Ø 2.35 x44 mm

Ø	L mm	Part No.	
0.5	9.0	404 000279	2
0.6	9.0	404 000 280	2
0.7	9.0	404 000 281	2
0.8	9.0	404 000 282	2
0.9	9.0	404 000 283	2
1.0	10.0	404 000 284	2
1.1	10.0	404 000 285	2
1.2	10.0	404 000 286	2
1.3	10.0	404 000 287	2

Ø	L mm	Part No.	
1.4	10.0	404 000 288	2
1.6	12.0	404 000 290	2
1.7	12.0	404 000 291	2
1.8	12.0	404 000 292	2
1.9	12.0	404 000 293	2
2.0	12.0	404 000 294	2
2.2	12.0	404 000 295	2
2.3	12.0	404 000 296	2



Neo DIGIT 1

PRO & ECO

Includes Neo Digit 1 control unit, PHP-Pro 40,000 rpm or ECO 35,000 rpm handpiece, foot pedal.

Digital display of the rotation speed and reversing system.

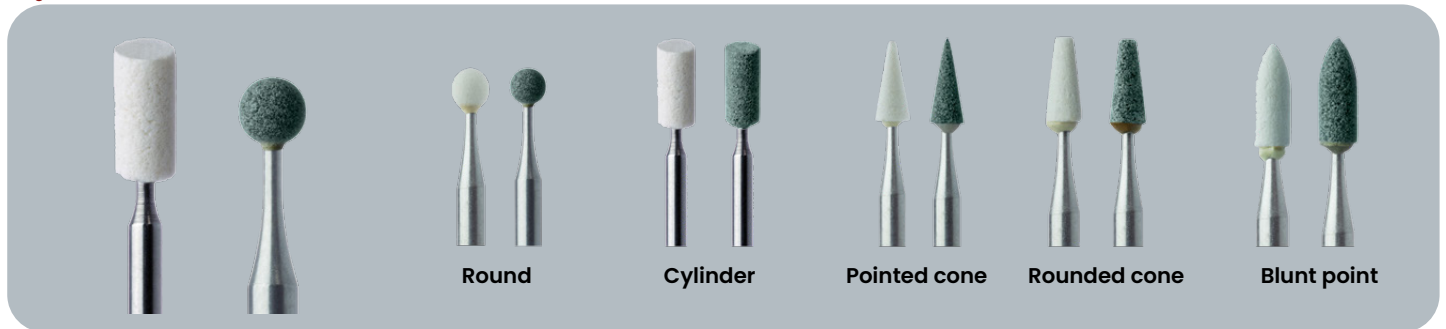
This set is ideal for universal use in many sectors, from production to R&D. Supplied with Ø 3.00 mm clamp and 3/2.35mm reducer.



Micro mounted stones for retouching & finishing

Arkansas-quality micro finishing stones
(Ekw white) or extra-fine silicon carbide
(SIC green)

Shank Ø 1.60 x 19 mm



Type	Ø	L mm	Part No.		
			Ekw	SIC	
Round					
601	3.0	-	413 000 201	413 000 202	25
Cylinder					
638	2.5	6.0	413 000 203	413 000 204	25
Pointed cone					
645	2.8	7.0	413 000 207	413 000 208	25

Type	Ø	L mm	Part No.		
			Ekw	SIC	
Rounded cone					
649	2.5	6.0	413 000 209	413 000 210	25
Blunt point					
661	2.5	7.0	413 000 205	413 000 206	25

Micro mounted stones

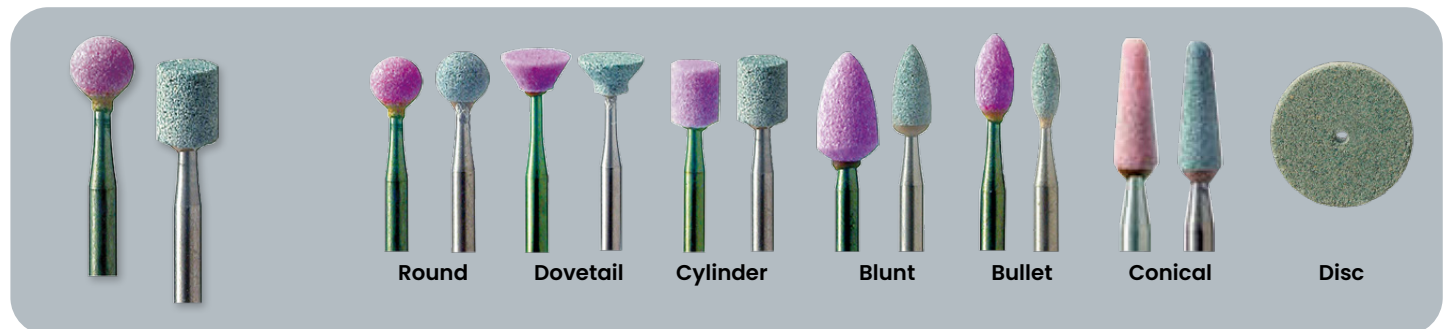
Shank Ø 2.35 x 44 mm

Pink corundum (Ekr)

For steels, treated steels, alloy steels,
ordinary cast iron, steel cast iron,
malleable cast iron

Silicon carbide (SIC)

For non-ferrous metals, precious metals,
aluminium, titanium, glass, cristal and
synthetic material



Type	Ø	L mm	Part No.		
			Ekr	SIC	
Round					
601	3.0	-	412 000 001	412 000 004	25
602	4.0	-	412 000 002	412 000 005	25
603	5.0	-	412 000 003	412 000 006	25
Dovetail					
613	7.0	3.0	412 000 008	412 000 009	25
Cylinder					
638	2.5	6.5	412 000 210	412 000 213	25
639	3.5	6.5	412 000 211	412 000 214	25
640	5.0	6.0	412 000 012	412 000 016	25
Blunt point					
661	2.5	7.0	412 000 019	412 000 022	25
663	6.0	10.5	412 000 020	412 000 023	25
744	11.0	17.0	412 000 021	412 000 225	10
Bullet					
666	2.5	7.0	412 000 233	412 000 234	25
667	3.5	7.0	412 000 026	412 000 027	25
Conical					
652	3.5	10.5	413 000 001	413 000 002	25
671	6.0	10.0	412 000 240	412 000 242	25
Disc					
777	22.0	3.0	413 000 004	413 000 005	10

Set of mounted stones

Includes: 2 mounted stones of each part number, 2 screw mandrels and
1 DR19 ARGO sleeve (3-2.35mm)

SIC Part No. 413 000 251



EKR Part No. 413 000 250

Cylindrical micro mounted stones EKR & SIC Gr.100

Shank Ø 3.0 x 40 mm

Ø	L mm	Part No.		
		Ekr	SIC	
3.0	6.0	413 000 050	-	25
4.0	8.0	413 000 051	413 000 057	25
5.0	10.0	413 000 052	413 000 058	25
6.0	10.0	413 000 053	413 000 059	25
8.0	10.0	413 000 054	413 000 060	25
10.0	10.0	413 000 055	413 000 061	25



Micro mounted stones «Blue Stones»

Shank Ø 3.0 x 38 mm

Aluminium oxide is burnt into a porcelain-like bonding. The result: premium quality, hard, super grinding points. Blue Stones have excellent service lives and very good dimensional stability with a very high stock removal. These grinding points are very carefully manufactured and the shanks are high gloss nickel plated. All points are supplied in grit size 120 (fine). **Application: hardened steels**



Type	Ø	L mm	Part No.		Type	Ø	L mm	Part No.	
B43	6.0	8.0	413 000 072	25	W152	5.0	6.0	413 000 018	25
B44	6.0	10.0	413 000 030	25	W153	5.0	10.0	413 000 021	25
B45	5.0	8.0	413 000 031	25	W160	6.0	6.0	413 000 019	25
B55	3.0	6.0	413 000 032	25	W162	6.0	10.0	413 000 022	25
B124	3.0	-	413 000 011	25	W168	8.0	8.0	413 000 020	25
B123	5.0	-	413 000 012	25	W175	10.0	10.0	413 000 070	25
B125	6.0	-	413 000 013	25	W148	4.0	1.6	413 000 024	25
B122	10.0	-	413 000 014	25	W165	8.0	1.6	413 000 025	25
W140	2.0	6.0	413 000 015	25	W182	12.0	3.0	413 000 026	25
W144	3.0	6.0	413 000 016	25	W183	6.0	6.0	413 000 071	25
W149	4.0	6.0	413 000 017	25					



Set including 2 stones of each reference - Part No. 413 000 073

Micro mounted stones «Grey ceram»

Shank Ø 3.0 x 30 mm

Mounted Stones made of micro-ceramic grit with fibrous bond. Excellent fragmentation power, self-sharpening for high removal rates and long life. Recommended for trimming weld seams, reworking tungsten carbide, glass, nickel and titanium alloys.

Ø mm	Shape	Part No.		
		Ekr		
4 x 8	Cylinder	413 000 301	10	
6 x 13	Cylinder	413 000 302	10	
6.0	Round	413 000 303	10	
5 x 10	Conical	413 000 304	10	
13 x 3	Disc	413 000 305	10	
-	set of 5 grinding stones	413 000 300	1	



Micro mounted stones – long shank Gr.100&120

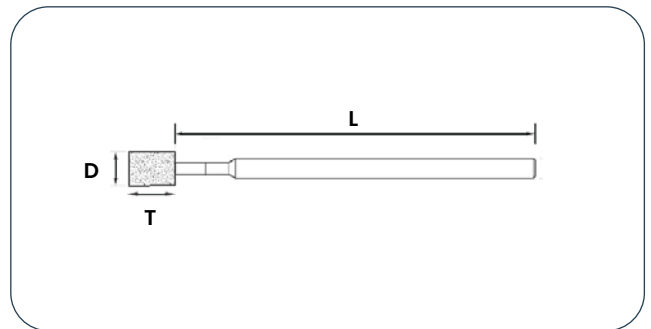
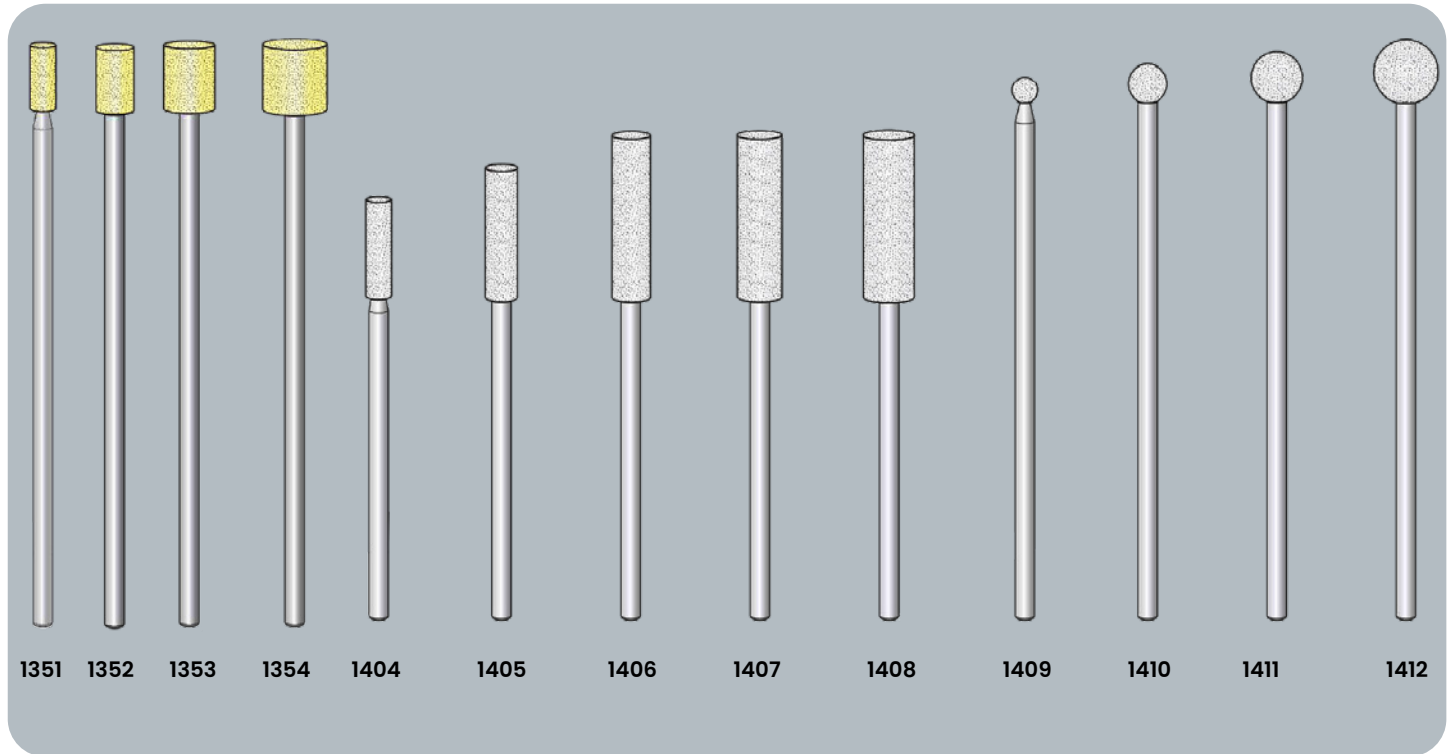
Shank $\varnothing 3.0\text{mm}$ – Lengths 50 & 80mm

Mounted stones made of vitrified white aluminum oxide grits for excellent fragmentation power, constantly regenerating the cut.

Grit 100 white – Grit 120 yellow.



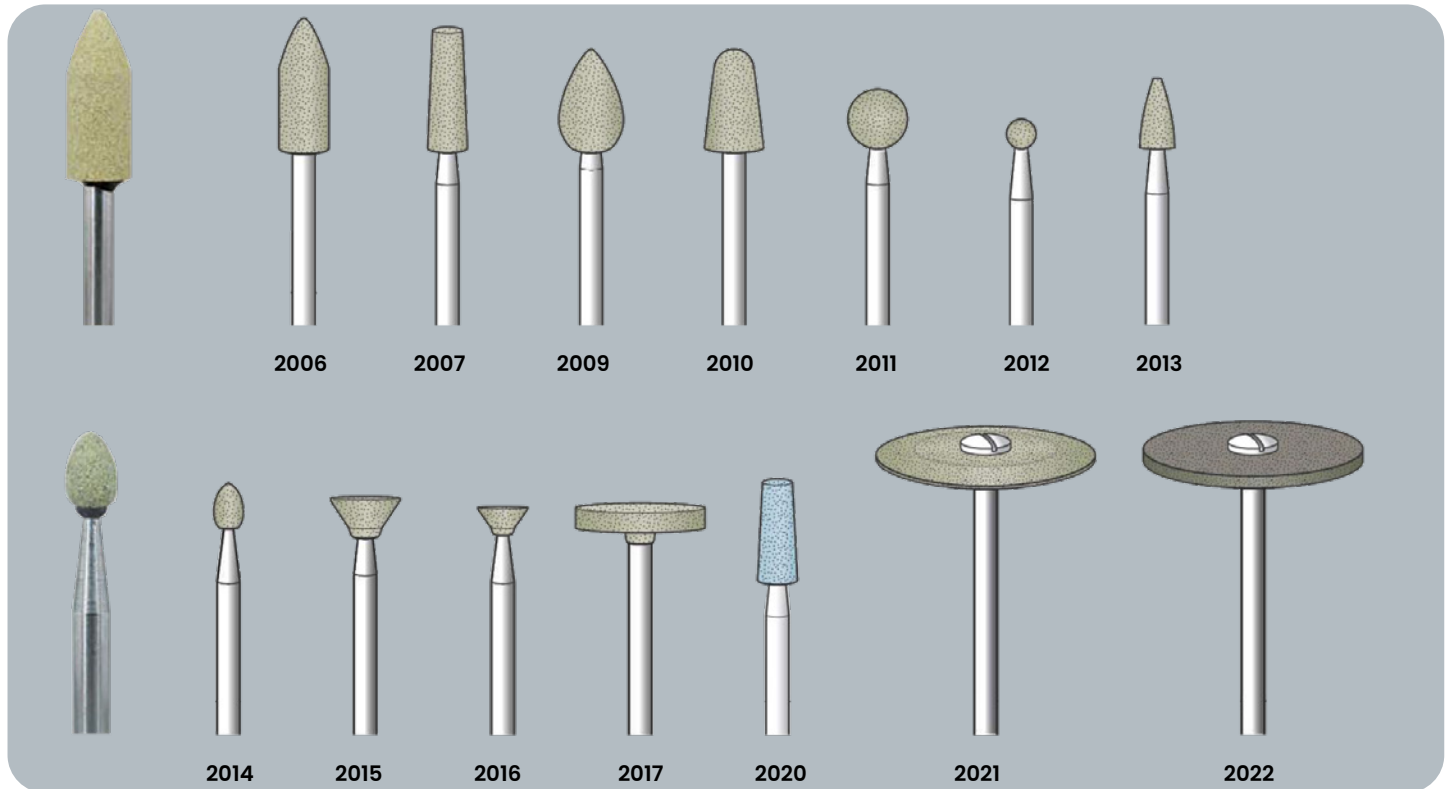
For deburring operations in intersecting holes and hard-to-reach areas



Type	Grit	Part No.	D mm	T mm	L mm	Rpm	
1351	120	460 000 163	4	10	80	10.000	5
1352	120	460 000 164	6	10	80	6.000	5
1353	120	460 000 165	8	10	80	5.000	5
1354	120	460 000 166	10	10	80	4.500	5
1404	100	460 000 167	4	15	50	35.000	5
1405	100	460 000 168	5	20	50	30.000	5
1406	100	460 000 169	6	25	50	25.000	5
1407	100	460 000 170	7	25	50	22.000	5
1408	100	460 000 171	8	25	50	20.000	5
1409	100	460 000 172	4	-	80	10.000	5
1410	100	460 000 173	6	-	80	8.000	5
1411	100	460 000 174	8	-	80	7.000	5
1412	100	460 000 175	10	-	80	6.000	5

Micro mounted stones «Ceramic Diamond»

Shank Ø 2.35 x 44 mm



Type	Grit	Part No.	Width mm	Length mm	Rpm	
MDC2006	D107 - medium	460 000 180	5.0	13	50.000	2
MDC2007	D107 - medium	460 000 181	4.0	12	50.000	2
MDC2009	D107 - medium	460 000 182	6.5	10	50.000	2
MDC2010	D107 - medium	460 000 183	6.0	10	50.000	2
MDC2011	D107 - medium	460 000 184	6.0	-	50.000	2
MDC2012	D107 - medium	460 000 185	3.0	-	50.000	2
MDC2013	D107 - medium	460 000 186	3.5	13	50.000	2
MDC2014	D107 - medium	460 000 187	3.0	4.5	50.000	2
MDC2015	D107 - medium	460 000 188	7.0	3.0	50.000	2
MDC2016	D107 - medium	460 000 189	5.0	2.0	50.000	2
MDC2017	D107 - medium	460 000 190	13	2.0	50.000	2
MDC2020	D107 - medium	460 000 191	4.0	10	50.000	2
MDC2021	D107 - medium	460 000 192	22	1.5	15.000	1
MDC2022	D107 - medium	460 000 193	22	2.0	15.000	1

Mini cutting discs Ekr or SIC

Type	Ø mm	Width mm	Part No		
			Ekr	SIC	
581	22.0	0.3	404 000 001	-	100
582	22.0	0.7	404 000 002	-	100
583	25.0	0.7	404 000 003	-	100
584*	22.0	0.3	-	404 000 011	10

* fibre-reinforced

Mandrels for cutting discs

Type	Shaft mm	Part No	
303 RF-050	3 x 44	416 000 002	5
305 RF-050	2.35 x 44	416 000 003	5
303-080	2.35 x 44	416 000 004	5



Micro mounted diamond burs (type 314)

Shank $\varnothing 1.6 \times 19 \text{ mm}$



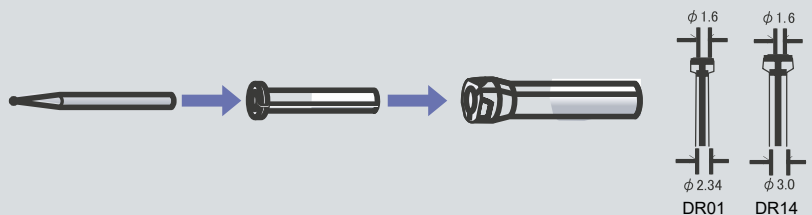
Type	$\varnothing$ mm	L mm	Part No.	
801	0.7	-	410 000 030	5
801	0.8	-	410 000 031	5
801	0.9	-	410 000 032	5
801	1.0	-	410 000 033	5
801	1.2	-	410 000 034	5
801	1.4	-	410 000 035	5
801	1.6	-	407 000 066	5
801	1.8	-	410 000 036	5
801	2.1	-	410 000 037	5
801	2.3	-	410 000 038	5
801	2.5	-	410 000 039	5

Type	$\varnothing$ mm	L mm	Part No.	
801	2.7	-	410 000 040	5
801	2.9	-	410 000 041	5
801	3.3	-	410 000 042	5
801	3.5	-	407 000 068	2
801	4.2	-	407 000 069	2
820 F	3.1	4,0	410 000 020	5
829	2.7	2,1	408 000 023	5
837	1.2	6,0	410 000 043	5
837	1.4	6,0	410 000 044	5
837	1.6	6,0	410 000 045	5

Type	$\varnothing$ mm	L mm	Part No.	
837	1.8	6,0	410 000 046	5
837	2.5	7,0	410 000 047	5
859	1.0	10,0	410 000 049	5
859	1.2	10,0	410 000 050	5
859	1.4	10,0	410 000 051	5
859	1.6	10,0	410 000 052	5
859	1.8	10,0	410 000 053	5
898 F	1.2	6,0	410 000 054	5
898 F	1.4	6,0	410 000 055	5
818	4.5	0,6	407 000 018	2

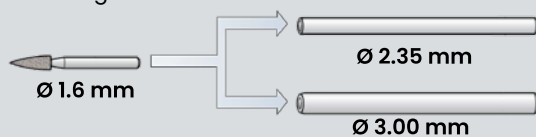
Argo reducing sleeves

Enables the diameter of the collet to be changed quickly to accommodate tools with different shank diameters.



Shank holders L-34 mm for $\varnothing 1.6 \text{ mm}$ shank tools

Holders available in $\varnothing 2.35$ & 3.00 mm . Length 34 mm . Allows direct mounting of $\varnothing 1.6 \text{ mm}$ shank tools



HNO extensions

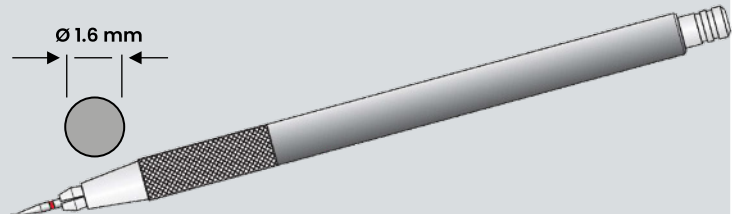
Very useful for deburring in hard-to-reach places.



Description	Part No.	
Argo sleeve DR 01 -2.34 / 1.6 mm	507 001 001	1
Argo sleeve DR 14 -3.0 / 1.6 mm	507 001 014	1
Holder 2.35 mm for tools $\varnothing 1.6 \text{ mm T } 2.35 \times 34 \text{ mm}$	460 000 001	2
Holder $\varnothing 3.00 \text{ mm}$ for tools $\varnothing 1.6 \text{ mm T } 3.00 \times 34 \text{ mm}$	460 000 002	2
HNO extension 235 - Shank 2.35mm LG100 mm for tool Shank 1.6 mm	403 000 011	1
RAL HNO 300 - Shank 3.00mm LG100 mm for tool Shank 2.35 mm	403 000 012	1
Manual Pen collet 1.6 mm	460 000 179	1

Pen collet 1.6 mm

Accepts any 1.6mm shank tool for manual work



Micro mounted diamond burs

Shank Ø 2.35 x 44 mm



Grits:
Universal **D-107**
G **D-151**
F **D-46**



Type	Ø mm	L mm	Part No.	
801	0.9	-	407 000 001	5
801	1.0	-	407 000 002	5
801	1.2	-	407 000 003	5
801	1.4	-	407 000 004	5
801	1.6	-	407 000 005	5
801	18	-	407 000 006	5
801	2.1	-	407 000 007	5
801	2.3	-	407 000 008	5
801	2.7	-	407 000 009	5
801	3.3	-	407 000 010	5
801	5.0	-	407 000 100	2
801 G	1.0	-	407 000 011	5
801 G	1.4	-	407 000 012	5
801 G	1.6	-	407 000 013	5
801 G	1.8	-	407 000 014	5
801 G	2.3	-	407 000 016	5
801 G	3.3	-	407 000 017	5
801 G	5.0	-	407 000 101	2
805	1.0	1,0	409 000 020	5
805	1.2	1,5	409 000 021	5
805	1.4	1,5	409 000 022	5
805	1.6	1,5	409 000 023	5
805	1.8	2,3	409 000 024	5
805	2.1	2,3	409 000 025	5
805	2.5	2,5	409 000 026	5
805	2.7	2,5	409 000 018	5
807	1.8	5,0	409 000 028	5
807	2.1	5,0	409 000 029	5
807	2.5	6,0	409 000 030	5

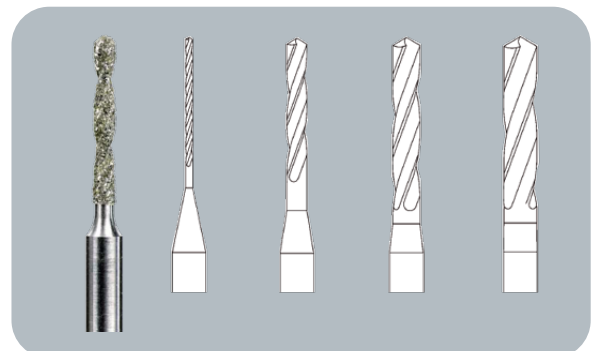
Type	Ø mm	L mm	Part No.	
813	6.0	3,0	409 000 032	2
818	7.5	0,6	407 000 019	2
825	2.3	0,6	407 000 020	5
825	5.0	0,8	407 000 021	2
825	6.5	0,8	407 000 022	2
830	2.3	5,0	409 000 034	5
835	1.0	3,5	409 000 037	5
835	1.2	3,5	409 000 038	5
835	3.5	3,5	409 000 041	2
837	1.2	6,0	407 000 023	5
837	1.4	6,0	407 000 024	5
837	1.6	6,0	407 000 025	5
837	1.8	6,0	409 000 042	5
837	2.3	6,0	407 000 026	5
837	2.7	7,0	407 000 027	5
837	6.0	7,0	409 000 080	2
838L	1.6	6,0	407 000 030	5
838L	2.3	6,0	407 000 031	5
838L	2.7	6,0	407 000 032	5
848	1.2	10,0	409 000 044	5
848	1.4	10,0	409 000 045	5
848	1.6	10,0	407 000 033	5
848	1.8	10,0	407 000 034	5
848	2.1	10,0	407 000 035	5
848	2.3	10,0	407 000 036	5
848	3.1	10,0	407 000 037	2
850	1.2	8,0	409 000 075	5

Type	Ø mm	L mm	Part No.	
850	1.6	8,0	409 000 048	5
850	1.6	8,0	409 000 048	5
850	1.8	8,0	407 000 040	5
850	2.3	8,0	407 000 041	5
850	2.5	8,0	409 000 049	5
850	3.3	8,0	407 000 042	2
850	4.0	8,0	407 000 043	2
859	1.0	10,0	408 000 019	5
859	1.4	10,0	409 000 020	5
859	1.8	10,0	409 000 052	5
859 F	1.8	10,0	409 000 055	5
862	1.0	8,0	409 000 053	5
862	1.2	8,0	409 000 054	5
862	1.4	8,0	407 000 046	5
862	1.6	8,0	407 000 047	5
862	1.8	8,0	407 000 048	5
862 F	1.6	8,0	407 000 050	5
875	4.5	12,0	408 000 005	2
875	6.0	12,0	408 000 006	2
875 G	5.5	12,0	408 000 007	2
875 G	7.0	12,0	408 000 008	2
879	4.7	12,0	408 000 030	2
879 G	4.7	12,0	408 000 014	2
898	3.7	7,0	407 000 052	2
909	3.5	1,3	408 000 003	5
909	8.0	2,3	408 000 004	2

Diamond drills

Shank Ø 2.35 x 44 mm

Ø mm	L mm	Part No.	
0.8	10	460 000 194	2
0.9	10	460 000 195	2
1.0	10	460 000 196	2
1.1	10	460 000 197	2
1.2	12	460 000 198	2
1.3	12	460 000 199	2
1.4	12	460 000 200	2
1.5	12	460 000 201	2



Micro diamond burs HNO 242

Shank Ø 2.35 x 70 mm

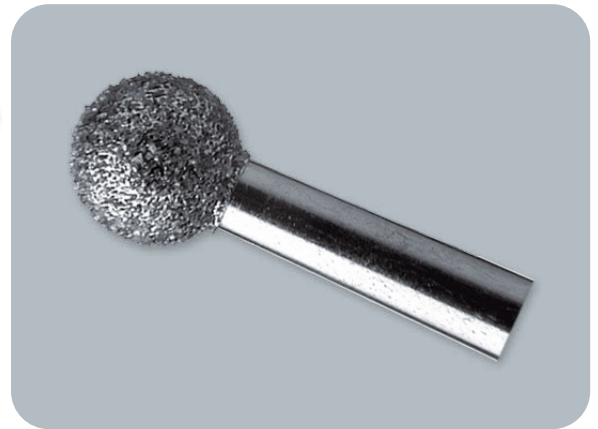


Ø	Part No.	
HNO 242 round TB		
0.7	403 000 080	1
0.8	403 000 081	1
1.5	403 000 229	1
1.8	403 000 084	1
2.1	403 000 230	1
2.5	403 000 231	1
2.7	403 000 086	1
3.5	403 000 088	1
4.2	403 000 090	1

Shank reported

Ø	Part No.	
HNO 242 round one piece		
1.0	403 000 082	1
2.3	403 000 085	1
3.0	403 000 232	1
4.0	403 000 089	1
5.0	403 000 091	1
6.0	403 000 092	1

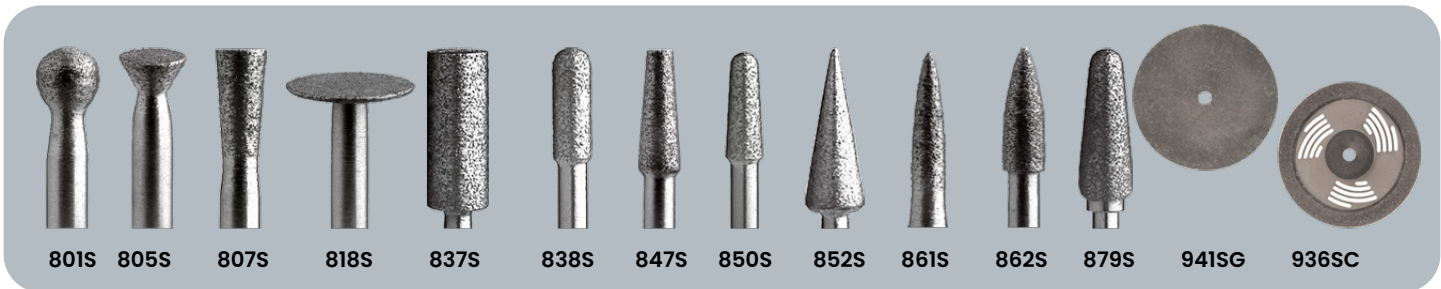
One piece



Galvanic binder (Universal medium grit)

Micro sintered diamond burs

Shank Ø 2.35 x 44 mm



Grits : S Universal - SG pre grinding & SC Finishing

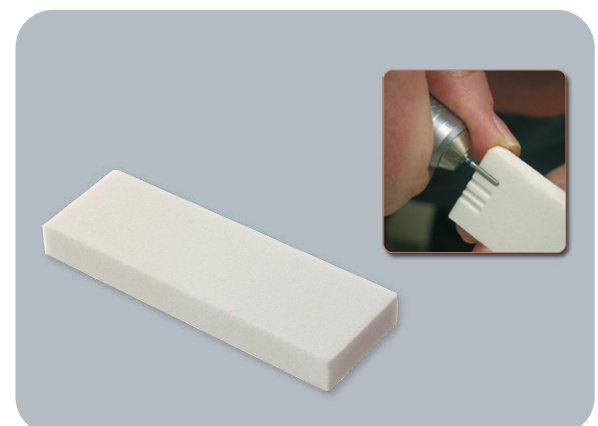
Type	Ø	L mm	Part No.	
801S	2.1	-	409 000 011	2
805S	1.8	2.5	409 000 013	2
807S	2.9	6.0	409 000 015	2
818S	8.0	0.6	409 000 016	2
837S	2.7	8.0	410 000 001	2
837S	5.0	13.0	410 000 002	2
837SG	5.0	13.0	410 000 003	2

Type	Ø	L mm	Part No.	
838S	2.1	7.0	410 000 004	2
838S	3.1	9.0	410 000 005	2
847S	2.7	8.5	410 000 006	2
850S	3.1	8.5	410 000 008	2
852S	3.1	9.0	410 000 011	2
852S	5.0	13.0	410 000 012	2
861S	1.6	6.0	410 000 014	2

Type	Ø	L mm	Part No.	
862S	3.1	8.0	410 000 015	2
879S	5.0	14.0	410 000 009	2
879SG	5.0	14.0	410 000 010	2
941SG	22.0	0.5	409 000 010	1
936SC	20.0	0.2	409 000 008	1

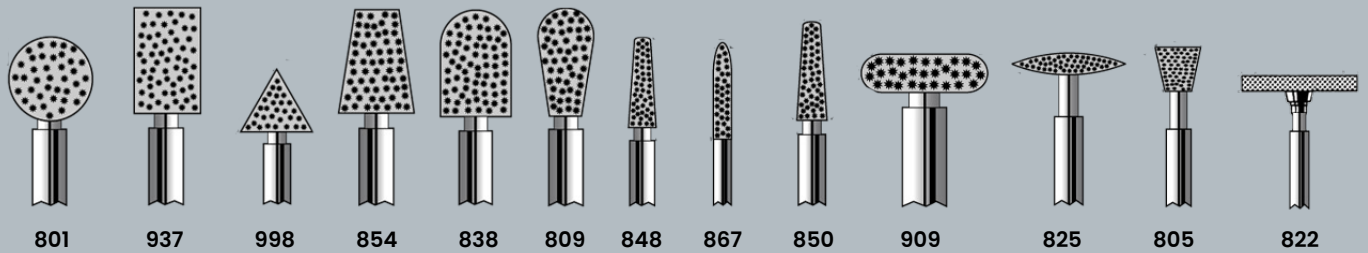
White cleaning stone

Type	Dimensions (mm)	Description	Part No.	
529D	75 x 25 x 8	White stone for cleaning galvanically bonded diamond instruments	410 000 016	1
529S	100 x 15 x 15	White stone for cleaning sintered diamond instruments and profiling diamond stones and polishers.	410 000 017	1



Diamond – Shaped grinding points

Shank Ø 3.0 x 45 mm Galvanic binder (universal grit)



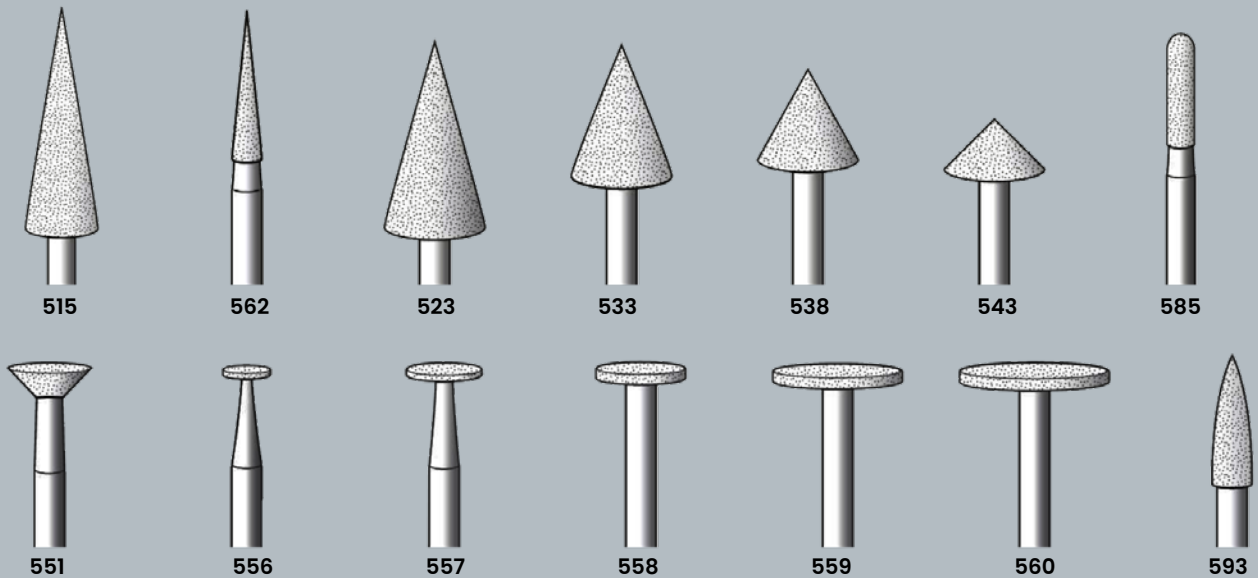
Ø mm	Angle	d	Part No.	
801 Round				
1,7	-		411 000 317	5
2,1	-		411 000 316	5
2,5	-		411 000 315	5
3,0	-		411 000 314	5
4,1	-		411 000 313	5
6x5,5	-		411 000 303	5
937 Cylinder flat end				
2,5x7			411 000 309	5
6x10			411 000 306	5
998 Triangular				
3,1x5	30°		411 000 325	5
8x3,9	90°		411 000 300	5
9x6,6	60°		411 000 301	5

Ø mm	Angle	d	Part No.	
854 Conical flat end				
7x10	30°		411 000 302	5
838 Cylinder, round				
6x10			411 000 304	5
809 Cylinder universal				
6x10	20°		411 000 305	5
848 Rounded cone				
1,6x10		0,9	411 000 312	5
2,1x10		1,4	411 000 311	5
867 Cylinder bullet end				
1,6x10			411 000 321	5
2,4x10		1,5	411 000 319	5
2,4x7,5			411 000 320	5

Ø mm	Angle	d	Part No.	
850 Rounded cone				
1,6x9		0,8	411 000 327	5
1,9x9		1,1	411 000 326	5
909 Oblong				
5,8x2,3			411 000 308	5
9,8x3,4			411 000 307	1
825 Lens				
4,1x1,5			411 000 324	5
9,3x1,3			411 000 323	5
805 Dovetail				
2,5x3,0			411 000 318	5
822 Disc				
17.2x2.4			408 000 112	1

Diamond – Shaped grinding points

Shank Ø 3.0 x 45 mm Galvanic binder (universal grit)



Type	Ø	L mm	Angle	Max rpm	Part No.	
515	8	25	17°	65.000	460 000 214	2
562	3	15	10°	80.000	460 000 215	2
523	10	18.7	30°	30.000	460 000 216	2
533	10	13	45°	30.000	460 000 217	2
538	10	9	60°	50.000	460 000 218	2
543	10	5	90°	50.000	460 000 219	2
585	3	12	-	80.000	460 000 220	2

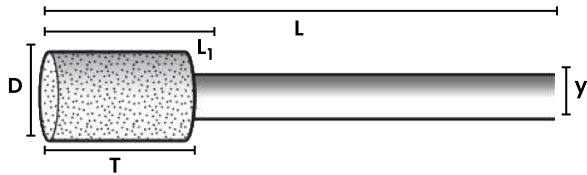
Type	Ø	L mm	Angle	Max rpm	Part No.	
551	8.5	3.5	-	50.000	460 000 221	2
556	4.7	0.5	-	60.000	460 000 222	2
557	7.5	0.5	-	30.000	460 000 223	2
558	9.0	1.0	-	25.000	460 000 224	2
559	13	1.0	-	20.000	460 000 225	2
560	15	1.0	-	20.000	460 000 226	2
593	4.0	13	-	80.000	460 000 227	2

Diamond and CBN mounted grinding tools

Shank Ø 3.0 & 6.0 mm

Standard range of galvanically bonded diamond and boron nitride mounted points. The boron nitride grade is recommended for improved precision and grinding quality on alloy steels such as overcarburized hardened steels and high-speed steels. These mounted points are available in three different grits Dimensions:

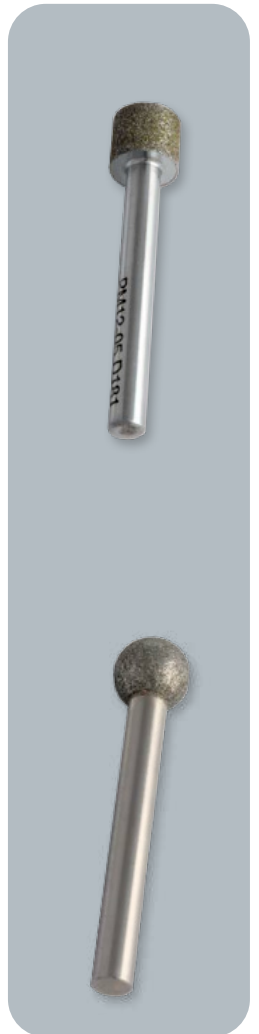
91 Fine – 126 Medium/Universal – 181 Coarse (D for diamond – B for boron nitride)



D	T	y	L ₁	L	DIAMOND			BORON NITRIDE			
					D 91	D 126	D 181	B 91	D 126	B 181	
0.5	3	3	7	55	411 000 150			411 000 180			1
0.6	3	3	7	55	411 000 151			411 000 181			1
0.8	3	3	7	55	411 000 152			411 000 182			1
1,0	5	3	10	55	411 000 153	411 000 154	411 000 155	411 000 183	411 000 184	411 000 185	1
2,0	5	3	12	55	411 000 156	411 000 157	411 000 158	411 000 186	411 000 187	411 000 188	1
3,0	5	3	16	55	411 000 159	411 000 160	411 000 161	411 000 189	411 000 190	411 000 191	1
4,0	5	3	-	55	411 000 162	411 000 163	411 000 164	411 000 192	411 000 193	411 000 194	1
5,0	6	3	-	55	411 000 165	411 000 166	411 000 167	411 000 195	411 000 196	411 000 197	1
6,0	7	6	-	60	411 000 168	411 000 169	411 000 170	411 000 198	411 000 199	411 000 200	1
8,0	10	6	-	60	411 000 171	411 000 172	411 000 173	411 000 201	411 000 202	411 000 203	1
10,0	10	6	-	60	411 000 174	411 000 175	411 000 176	411 000 204	411 000 205	411 000 206	1
12,0	10	6	-	60	411 000 177	411 000 178	411 000 179	411 000 207	411 000 208	411 000 209	1



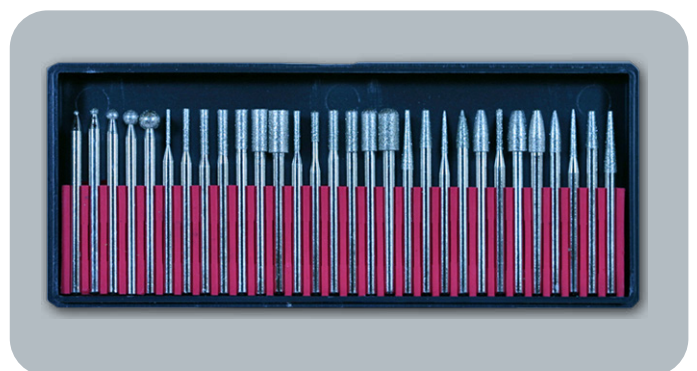
D	y	L	DIAMOND			BORON NITRIDE			
			D 91	D 126	D 181	B 91	D 126	B 181	
1,0	3	55	411 000 330	411 000 339	411 000 348	411 000 357	411 000 366	411 000 375	1
2,0	3	55	411 000 331	411 000 340	411 000 349	411 000 358	411 000 367	411 000 376	1
3,0	3	55	411 000 332	411 000 341	411 000 350	411 000 359	411 000 368	411 000 377	1
4,0	3	55	411 000 333	411 000 342	411 000 351	411 000 360	411 000 369	411 000 378	1
5,0	3	55	411 000 334	411 000 343	411 000 352	411 000 361	411 000 370	411 000 379	1
6,0	3	60	411 000 335	411 000 344	411 000 353	411 000 362	411 000 371	411 000 380	1
8,0	6	60	411 000 336	411 000 345	411 000 354	411 000 363	411 000 372	411 000 381	1
10,0	6	60	411 000 337	411 000 346	411 000 355	411 000 364	411 000 373	411 000 382	1
12,0	6	60	411 000 338	411 000 347	411 000 356	411 000 365	411 000 374	411 000 383	1



Micro mounted diamond burs set

Shank Ø 2.35 & 3.00 mm – universal grit

Description	Shank	Part No.	
Set of 30 diamond mounted burs (various shapes) - Supplied in box	Ø 3.00 x 44 mm	507 001 600	1
Set of 30 diamond mounted burs (various shapes) - Supplied in box	Ø 2.35 x 44 mm	507 001 601	1



Mounted diamond cut-off discs

Shank Ø 2.35x44 mm

DC - EXTRA FINE GRIT - D 30

F - FINE GRIT - D46

D - UNIVERSAL GRIT - D107

Coarse grit see 941 SG see page 22

910 D



911 D



916 D



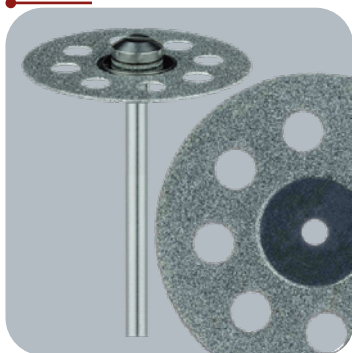
918 D



930 D



932 D



915 D



915 DM



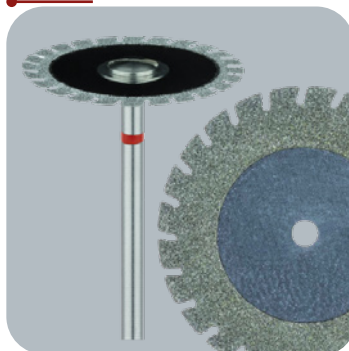
921 DC



231 DC



940 F



365 D



Type	Ø mm	L mm	Part No.	Box
910 D	22.0	0,50	408 000 100	1
911 D	22.0	0,50	408 000 017	1
911 DF	22.0	0,45	408 000 115	1
916 D	22.0	0.50	408 000 101	1
918 D	22.0	0,50	408 000 047	1
930 D	22.0	0.30	408 000 049	1
930 DF	22.0	0.25	408 000 051	1
932 D	22.0	0.30	408 000 039	1
932 DF	22.0	0.25	408 000 040	1
915 D	22.0	0.20	408 000 116	1
915 DM	22.0	0.25	408 000 117	1

Type	Ø mm	L mm	Part No.	Box
915 DF	22.0	0.25	408 000 025	1
915 DC	22.0	0.15	408 000 105	1
921 DF	22.0	0.2	408 000 060	1
921 DC	22.0	0.15	408 000 059	1
231 DC	7.0	0.30	408 000 041	1
231 DC	10.0	0.30	408 000 042	1
940 F	18.0	0.20	408 000 055	1
940 F	20.0	0.20	408 000 056	1
940 F	22.0	0.20	408 000 057	1
365 D	30.0	0.30	408 000 061	1
365 D	45.0	0.35	408 000 062	1

Diamond finishing polishers

Shank Ø 2.35 x 44 mm

Finishing polishers made from a mixture of semi-hard rubber binder and diamond powder. Available in five different grits (depending on shapes)

Rough H
Coarse grit G
Medium grit M
Fine grit F
Extra fine XF



9742



9749



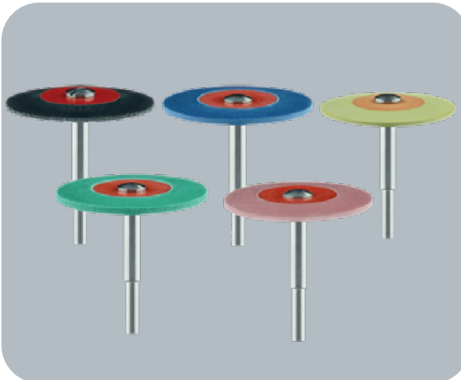
9752



9753



9770



9771



Type	Dimensions (mm)	Grit H	Grit G	Grit M	Grit F	Grit XF	Max rpm	
9742	4.0 x 13.0	411 000 231	411 000 210	411 000 217	411 000 224	411 000 280	20.000	2
9749	11.0 x 2.0	-	411 000 211	411 000 218	411 000 225	-	20.000	2
9752	17.0 x 2.5	411 000 232	411 000 212	411 000 219	411 000 226	411 000 281	20.000	1
9753	15.0 x 2.5	-	411 000 214	411 000 221	411 000 228	-	20.000	1
9770	26.0 x 2.0	411 000 233	411 000 216	411 000 223	411 000 230	411 000 282	20.000	1
9771	17.0 x 1.6	-	411 000 283	411 000 284	411 000 285	411 000 286	15.000	2
9771	26.0 x 1.6	-	411 000 287	411 000 288	411 000 289	411 000 290	15.000	2



Part no. 9771 - Apply low working pressure.

Diamond finishing polishers

Set # 9771

Set of 4 type 9771 soft diamond finishing polishers. Ideal for working on ceramics.

Type	Dimensions (mm)	Part No	Max rpm	
9771-LUS05	17.0 x 1.6	411 000 291	15.000	1



Flexible mounted polishers

Shank Ø 2.35x44 mm



Type	Ø	L mm	Part No.	
9981V	3.0	7.0	414 000 046	25
9981P	3.0	7.0	415 000 043	25
9981H	3.0	7.0	415 000 044	25
9982V	12.0	3.0	414 000 047	25
9982P	12.0	3.0	414 000 102	25
9982H	12.0	3.0	414 000 103	25
9983V	4.5	17.0	414 000 048	25
9983P	4.5	17.0	414 000 104	25
9983H	4.5	17.0	414 000 105	25

Type	Ø	L mm	Part No.	
9984V	12.0	2.0	414 000 049	25
9984P	12.0	2.0	414 000 106	25
9985V	22.0	0.5	414 000 050	25
9985P	22.0	0.5	414 000 108	25
9987V	22.0	3.5	414 000 052	50
9987P	22.0	3.5	414 000 071	50
9987H	22.0	3.5	414 000 072	50

Range of small, flexible natural rubber-bonded mounted polishers with incorporated silicon carbide powder. Available in 3 grits
Dimensions:

medium V-brown

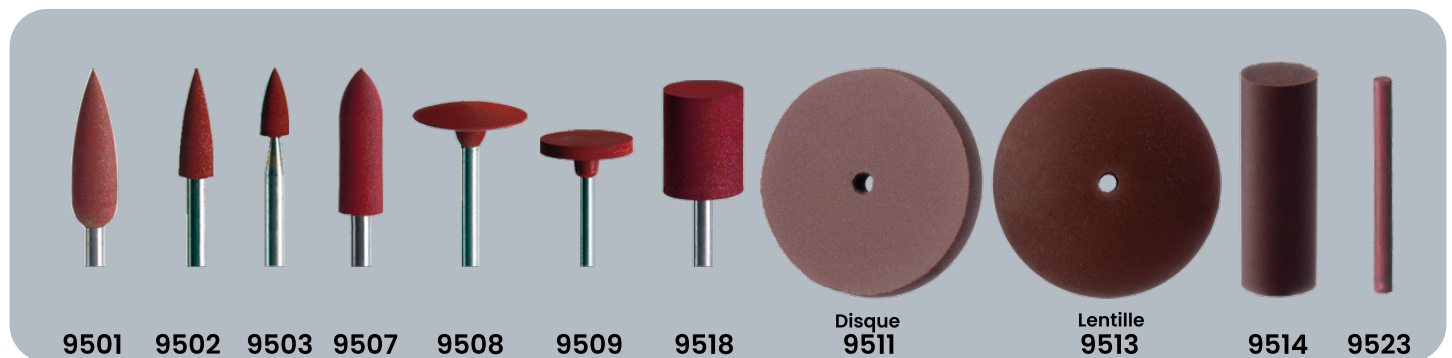
fine P-green

extra fine H-light green

Although universally applicable, they are particularly effective on non-ferrous metals, precious metals and synthetic materials.

Universal mounted polishers

Shank Ø 2.35x44 mm



Type	Ø	L mm	Part No.	
9501V	5.5	18.0	414 000 112	25
9501P	5.5	18.0	414 000 113	25
9502V	4.3	12.0	414 000 060	25
9502P	4.3	12.0	414 000 115	25
9503P	3.3	7.5	414 000 117	25
9507V	5.0	16.0	414 000 061	25
9507P	5.0	16.0	415 000 053	25
9508V	14.5	2.5	414 000 062	25
9508P	14.5	2.5	414 000 121	25
9509P	14.5	2.0	414 000 123	25

Type	Ø	L mm	Part No.	
9518P	10.0	12.0	414 000 125	15
9518P	14.0	12.0	414 000 127	15
9511V	22.0	3.0	414 000 064	100
9511P	22.0	3.0	414 000 129	100
9513V	22.0	3.5	414 000 065	100
9513P	22.0	3.5	414 000 131	100
9514V	7.0	20.0	414 000 066	100
9514P	7.0	20.0	414 000 133	100
9523V	3.0	23.0	414 000 149	1
9523P	3.0	23.0	414 000 150	1

Range of small, flexible natural rubber-bonded mounted polishers with incorporated silicon carbide powder. Semi-hard quality. Available in grits.

Medium V-black

Fine P-brown

Suitable for all materials.
Part no. 9523 supplied in box of 100 units with Holder 327RF Shank Ø 2.35mm

Universal mounted white polishers

Shank Ø 2.35 x 44 mm



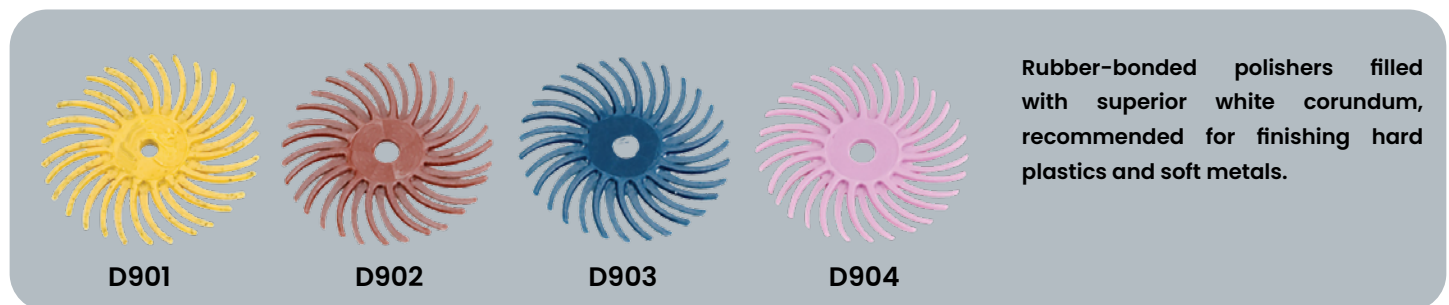
Type	Ø	L mm	Part No.	
9501U	5.5	15.0	414 000 210	25
9502U	4.5	12.0	414 000 211	25
9507U	5	16	414 000 212	25
9508U	11	2.5	414 000 213	25
9509U	11	2	414 000 214	25
9511U	22	3	414 000 215	50

Type	Ø	L mm	Part No.	
9513U	13	2.5	414 000 217	100
9513U	18	3.5	414 000 218	100
9513U	22	4.0	414 000 219	100
9515U	6	25	414 000 216	100
9516U	11	6.5	414 000 220	100

Range of polishers for deburring and finishing all materials. Designed for fast, correct finishing. Slightly harder and with a slightly larger grit, this quality enables greater material removal while guaranteeing a very good finish.

TORN rubber-bonded polishers

Shank Ø 2.35 & 3.00 mm



Rubber-bonded polishers filled with superior white corundum, recommended for finishing hard plastics and soft metals.

Ø x arbor hole	D901 grit 80	D902 grit 220	D903 grit 400	D904 grit 500	Max rpm	
20 x 1.8 mm	460 000 228	460 000 229	460 000 230	460 000 231	15.000	20



Use a 303 ou 305 RF 050 mandrel (see page 103)

Extra-flexible polishers

Type	Ø	L mm	Part No.	
Bushel				
9961	11.0	9.0	415 000 030	100
9962	12.0	7.0	415 000 031	100
Lens				
9964	12.0	2.0	415 000 032	100
9965	15.0	2.5	415 000 033	100
9966	22.0	3.0	415 000 034	100
Discs				
9967	12.0	2.0	415 000 035	100
9968	17.0	2.0	415 000 100	100
9969	17.0	3.0	415 000 036	100
9970	22.0	2.0	415 000 037	100
Sticks				
9963	6.0	28.0	415 000 101	100

Bushel, lens, discs and sticks, unmounted, with very soft natural rubber bond and incorporated silicon carbide powder, extra fine medium green. Enables super-finishing on all materials thanks to very enveloping polishing. Very low material removal.

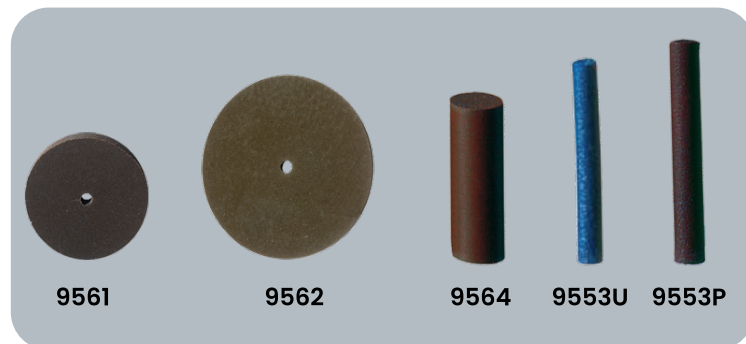
For use with our mandrels page 81



Hard polishers

Range of small, hard-bonded natural rubber mounted stones with incorporated silicon carbide powder. Available in Medium U (green or blue) and Fine P-brown grit.

Type	Ø	L mm	Part No.	
9561U	22.0	3.0	415 000 002	100
9561P	22.0	3.0	415 000 003	100
9562P	26.0	1.2	415 000 005	100
9564U	7.0	20.0	415 000 009	100
9564P	7.0	20.0	415 000 010	100
9553U	3.0	23.0	415 000 017	1
9553P	3.0	23.0	415 000 018	1



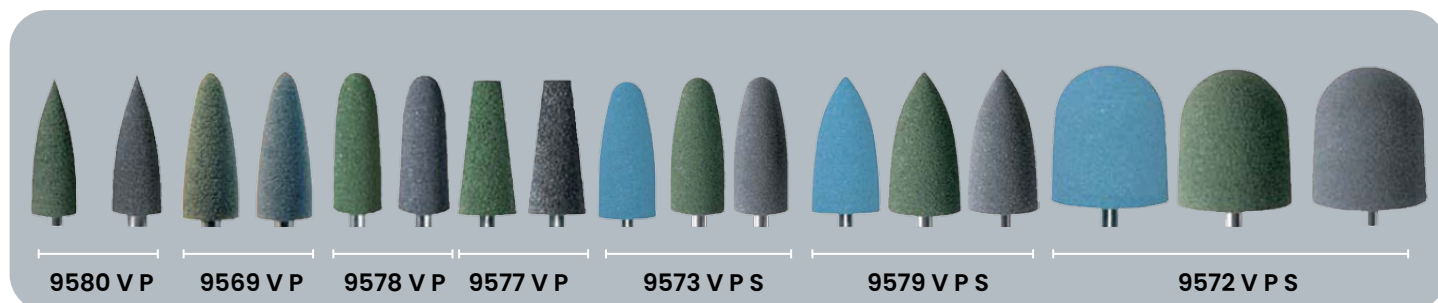
Part no. 9553 supplied in box of 100 units with Holder 327RF Shank Ø 2,35mm

Special mounted polishers

Shank Ø 2.35x44 mm



Prosthetic plastics, non-ferrous metals,
precious metals, titanium, wood



Type	Ø	L mm	Part No.	
9580V	5.6	16.0	414 000 160	25
9580P	5.6	16.0	414 000 161	25
9569V	5.5	17.0	414 000 162	25
9569P	5.5	17.0	414 000 163	25
9578V	6.0	17.0	414 000 164	25
9578P	6.0	17.0	414 000 165	25
9577V	8.0	18.8	414 000 166	25
9577P	8.0	18.8	414 000 167	25

Type	Ø	L mm	Part No.	
9573S	10.0	24.0	414 000 168	25
9573V	10.0	24.0	414 000 169	25
9573P	10.0	24.0	414 000 170	25
9579S	10.0	20.0	414 000 171	25
9579V	10.0	20.0	414 000 172	25
9579P	10.0	20.0	414 000 173	25
9572S	15.0	17.0	414 000 174	25
9572V	15.0	17.0	414 000 175	25
9572P	15.0	17.0	414 000 176	25

Grits :
S (blue) very coarse grit
V (green) coarse grit
P (black) medium grit

Cratex products ®

Lens, discs, and unmounted elastic rods, natural rubber-bonded, medium-hard, filled with silicon carbide powder, available in four grits Dimensions.

Full CRATEX product catalog on request.

Type	Dimensions mm	Grit C	Grit M	Grit F	Grit XF	
Lens						
2	Ø 16 x 2,5 x 1,6	417 005 069	417 005 071	417 005 070	417 005 072	100
5	Ø 25 x 2,5 x 1,6	417 005 073	417 005 074	417 005 075	417 005 076	100
Sticks						
6	Ø 6 X 22	417 005 004	417 005 005	417 005 006	417 005 007	100
Discs						
74	Ø 22 x 3 x 1,6	417 005 089	417 005 090	417 005 091	417 005 092	100

To be used with our mandrels on page 81



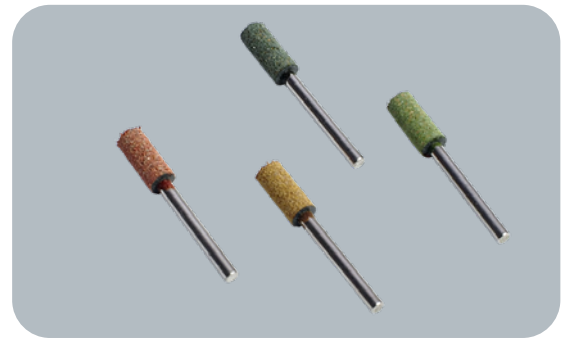
Micro mounted polisher Satiflex S-720-E

Shank $\varnothing 1.60 \times 19 \text{ mm}$

Range of mixed rubber-bonded abrasive mounted polisher for universal use. Thanks to their unique bond, they provide excellent cutting and shaping performance. Available in grits 80 - 120 - 180 - 220 et 320

Part No.	Dimensions(mm)	Grit	
417 000 190	3 x 17	80	50
417 000 191	3 x 17	120	50
417 000 192	3 x 17	180	50
417 000 193	3 x 17	320	50

Holders available in $\varnothing 2.35$ & 3.00 mm . Length 34 mm . Allows direct mounting of a Shank $\varnothing 1.6 \text{ mm}$ tool (see page 7).



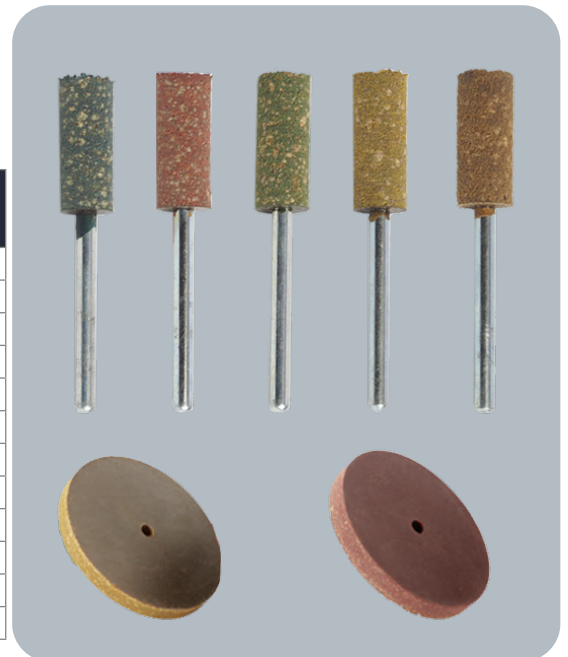
Micro mounted polisher Satiflex S-720-E

Shank $\varnothing 3.00 \times 40 \text{ mm}$

Range of mixed rubber-bonded abrasive mounted polisher for universal use. Thanks to their unique bond, they provide excellent cutting and shaping performance.

Available in grits 80 - 120 - 180 - 220 et 320

Part No.	Dimensions (mm)	Grit		Part No.	Dimensions (mm)	Grit	
417 000 200	4 x 13	80	25	417 000 212	8 x 20	180	25
417 000 201	4 x 13	120	25	417 000 213	8 x 20	220	25
417 000 202	4 x 13	180	25	417 000 214	8 x 20	320	25
417 000 203	4 x 13	220	25	416 000 034	10 x 20	80	25
417 000 204	4 x 13	320	25	416 000 036	10 x 20	120	25
417 000 205	6 x 17	80	25	417 000 217	10 x 20	180	25
417 000 206	6 x 17	120	25	417 000 218	10 x 20	220	25
417 000 207	6 x 17	180	25	417 000 215	10 x 20	320	25
417 000 208	6 x 17	220	25	417 000 232	$\varnothing 25 \times 3$	80	25
417 000 209	6 x 17	320	25	417 000 233	$\varnothing 25 \times 3$	120	25
417 000 210	8 x 20	80	25	417 000 234	$\varnothing 25 \times 3$	180	25
417 000 211	8 x 20	120	25	417 000 235	$\varnothing 25 \times 3$	220	25



Other dimensions and grits on request. Please consult us

Micro mounted polisher Satiflex S-720-E

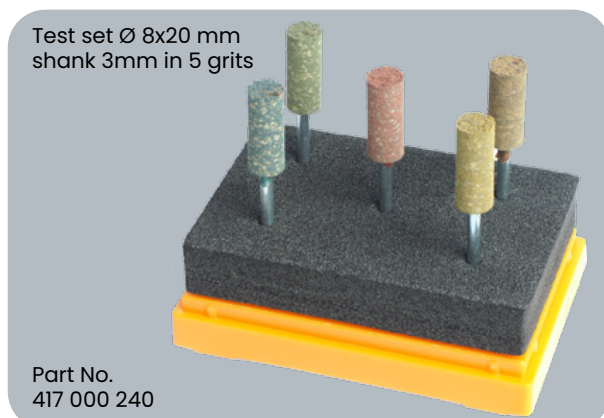
Shank $\varnothing 6.00 \times 35 \text{ mm}$

Range of mixed rubber-bonded abrasive mounted polisher for universal use. Thanks to their unique bond, they provide excellent cutting and shaping performance.

Available in grits 80 - 120 - 180 - 220 & 320

Part No.	Dimensions(mm)	Grit	
417 000 220	20 x 25 x T6	80	50
417 000 219	20 x 25 x T6	120	50
417 000 221	20 x 25 x T6	180	50
417 000 222	20 x 25 x T6	220	50

Other dimensions and grits on request. Please consult us



Part No.
417 000 240



Mounted polishing brushes Ø 2.35 mm

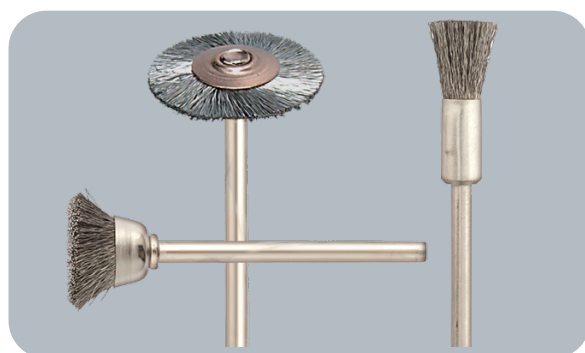
Nylon Abrasive Brushes

Finishing brushes (satin finish) available in 4 versions and in SIC abrasive nylon thread

Type	Ø	L mm	Part No.	
Nylon abrasive				
253	Without abrasive (White)	25.0	418 000 058	25
253G	Coarse grit (Brown)	25.0	418 000 053	25
253M	Medium grit (Grey)	25.0	418 000 052	25
253F	Fine grit (Purple)	25.0	418 000 051	25
402	Abrasive nylon thread SIC 320	22x2.3	418 000 005	15
401	Abrasive nylon thread SIC 500	22x2.0	418 000 007	15



Type	Ø	L mm	Part No.	
Stainless Steel				
153	Brush	4x11	418 000 060	25
161	Cup brush	12x6	418 000 000	25
166	Wheel brush	12x6	418 000 061	25
156	Wheel brush	21x2	418 000 001	25



Brass brushes

Deburring brushes available in 3 shapes.

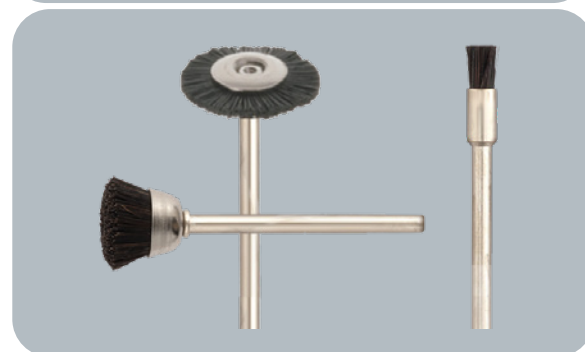
Type	Ø	L mm	Part No.	
Brass				
151	Brush	4x11	418 000 062	25
133	Cup brush	12x6	418 000 063	25
155	Wheel brush	21x2	418 000 002	25



Chungking brushes black (hard)

Polishing brushes available in 3 shapes.

Type	Ø	L mm	Part No.	
Chungking black (hard)				
154	Brush	4x11	418 000 064	25
128	Cup brush	12x6	418 000 065	25
126	Wheel brush	17x1	418 000 066	25
122	Wheel brush	21x2	418 000 004	25



Goat Hair (soft)

Polishing brushes available in 3 shapes.

Type	Ø	L mm	Code Art.	
Goat hair (soft)				
149	Brush	4x11	418 000 067	25
152	Cup Brush	10x6	418 000 058	25
100	Wheel	22x2	418 000 054	25



Mounted polishing brushes Ø 2.35 mm

Polishing brushes

Polishing brushes available in 4 qualities

Type	Ø	L mm	Part No.	
Polishing brushes				
158	5 layer leather	22	418 000 056	25
160	3 layer felt	22	418 000 057	25
150	Fleece	22	422 000 057	25
815	Flexible fabrics	22	422 000 067	25



Stainless Steel diamond wire brush

Recommended speed 3,500 8,500 rpm. Light working pressure 0.5N (50g). Use these brushes in 1 direction.

Type	Ø	L mm	Part No.	
991C	22.0	2.0	410 000 060	1



Brush sets

We offer 2 complete sets of our mounted polishing brushes.



Description	Part No.	
Set of deburring and polishing brushes: Stainless Steel, Brass, Chung King black, Goat and polishing 153/161/166 – 151/133/155/154/128/122/ 149/152/100/ – 158/160/150/815 (16 units) + 1 reduction sleeve DR19 (3/2.35mm)	418 000 100	1
Abrasive brush set : (3 each 253 G-M-F) Nylon abrasive wire Sic 320 (2) & 500 (1) (12 units) + 1 reduction sleeve DR19 (3/2.35mm)	418 000 101	1



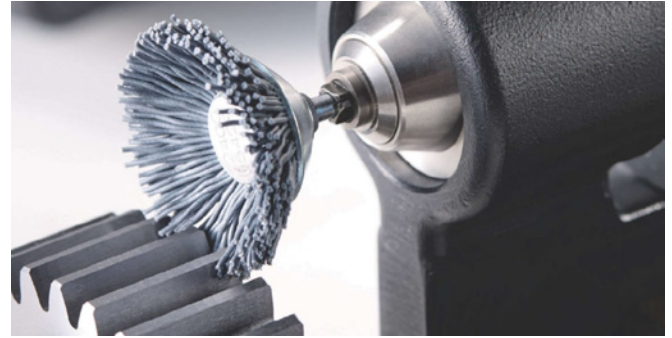
SIC nylon mounted brushes Ø 3.00 & 6.00 mm

Brushes made of nylon with incorporated silicium carbide abrasive grains. For deburring and pre polishing operations.

Bevel Brushes Shank 3.0 mm

Mounted brushes bevel type available in 2 dimensions and 3 grits (max RPM 8.000 t/min)

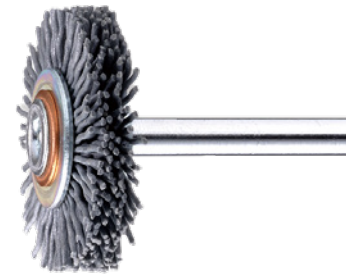
Code Article	Dimensions (mm)	Tige	Grain	
460 001 100	25 x 8	3,0	120	2
460 001 101	25 x 8	3,0	320	2
460 001 102	25 x 8	3,0	500	2
460 001 103	30 x 8	3,0	120	2
460 001 104	30 x 8	3,0	320	2
460 001 105	30 x 8	3,0	500	2



Wheel Brushes Shank 6.0 mm

Mounted brushes wheel type available in 2 dimensions and 3 grits (max RPM 3.000 t/min)

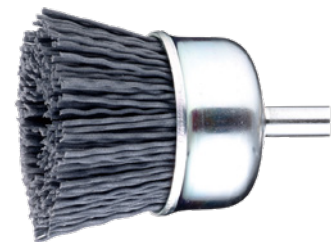
Code Article	Dimensions (mm)	Tige	Grain	
460 001 106	40 x 10	6,0	80	1
460 001 107	40 x 10	6,0	120	1
460 001 108	40 x 10	6,0	240	1
460 001 109	50 x 10	6,0	80	1
460 001 110	50 x 10	6,0	120	1
460 001 111	50 x 10	6,0	240	1
460 001 112	65 x 10	6,0	80	1
460 001 113	65 x 10	6,0	120	1
460 001 114	65 x 10	6,0	240	1



Cup end Brushes Shank 6.0 mm

Mounted brushes cup end type available in 2 dimensions and 3 grits (max RPM 3.000 t/min)

Code Article	Dimensions (mm)	Tige	Grain	
460 001 115	40 x 24	6,0	80	1
460 001 116	40 x 24	6,0	120	1
460 001 117	40 x 24	6,0	240	1
460 001 118	50 x 24	6,0	80	1
460 001 119	50 x 24	6,0	120	1
460 001 120	50 x 24	6,0	240	1



Brushes Shank 6.0 mm

Mounted brushes available in 2 dimensions and 3 grits (max RPM 3.000 t/min)

Code Article	Dimensions (mm)	Tige	Grain	
460 001 121	12 x 15	6,0	80	2
460 001 122	12 x 15	6,0	120	2
460 001 123	12 x 15	6,0	240	2
460 001 124	22 x 25	6,0	80	2
460 001 125	22 x 25	6,0	120	2
460 001 126	22 x 25	6,0	240	2



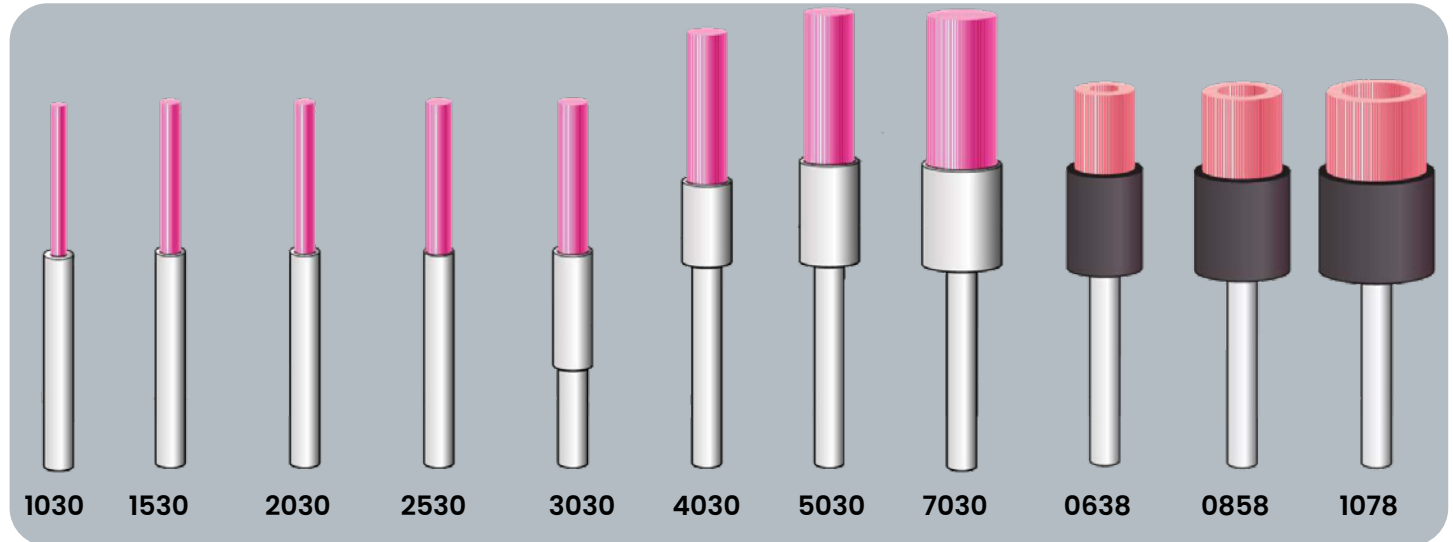
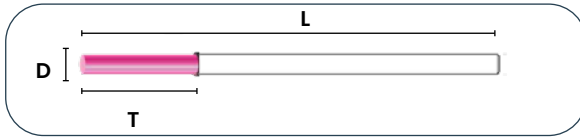
Ceramic fiber brushes

Shank Ø 3.00 mm

Brushes made of 0.3mm ceramic fibers mounted on shanks. Ideal for finishing work in bores, on the electrolytic layer of printed circuits and on hard metals, etc.



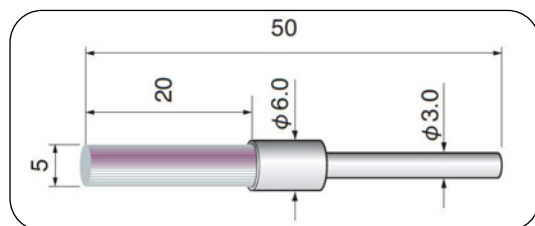
Grit		
1000	400	200



Type	Grit 1000	Grit 400	Grit 200	D mm	T mm	L mm	Rpm	
1030	460 000 232	460 000 700	-	1.0	15	52	15.000	1
1530	460 000 233	460 000 701	-	1.5	15	52	15.000	1
2030	460 000 234	460 000 702	460 000 711	2.0	15	52	15.000	1
2530	460 000 235	460 000 703	460 000 712	2.5	15	52	15.000	1
3030	460 000 236	460 000 704	460 000 713	3.0	15	52	15.000	1
4030	460 000 237	460 000 705	460 000 714	4.0	15	59	15.000	1
5030	460 000 238	460 000 706	460 000 715	5.0	15	61	15.000	1
7030	460 000 239	460 000 707	460 000 716	7.0	15	61	15.000	1
0638	460 000 240	460 000 708	460 000 717	6.0	8	53	15.000	1
0858	460 000 241	460 000 709	460 000 718	8.0	8.0	53	15.000	1
1078	460 000 242	460 000 710	460 000 719	10.0	8.0	53	15.000	1

Ceramic fiber brushes

Shank Ø 3.00 mm



Type	gr. 150	gr. 200	gr. 400	gr. 600	gr. 800	gr. 1000	Rpm	
BFC	460 000 243	460 000 244	460 000 245	460 000 246	460 000 247	460 000 248	10.000	1

Micro Stainless steel (SS) pipe brushes and abrasive nylon SIC 1000

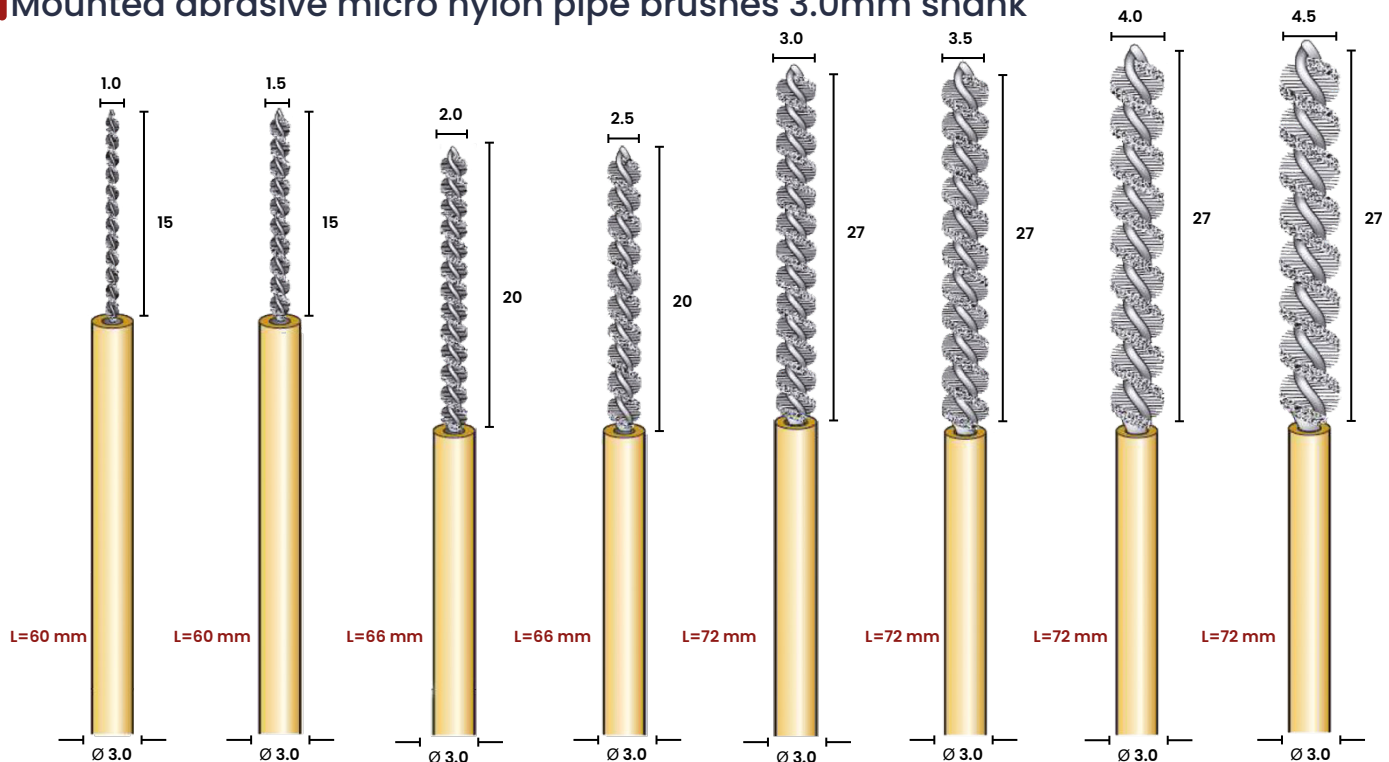
Can be used by hand or machine. We recommend machine use with our NDX-20 motor (max 8,000 rpm) [See page 14](#). The reduction sleeves offered fit 3.0mm collets.

Type	Ø mm	Wire thickness		Useful length x total length mm	Part No.		Machine adapters		
		SS	Nylon		SS	Nylon abrasive	SS	Nylon abrasive	
CBT-10	1,0	0,08	0,20	102 x 16	418 000 013	418 001 001	-	-	6
CBT-15	1,5	0,08	0,20	102 x 16	418 000 014	418 001 002	DR06	DR04	6
CBT-20	2,0	0,08	0,20	102 x 19	418 000 015	418 001 003	DR06	DR06	6
CBT-25	2,5	0,08	0,20	102 x 19	418 000 016	418 001 004	DR08	DR08	6
CBT-30	3,0	0,08	0,20	102 x 25	418 000 017	418 001 005	DR13	DR08	6
CBT-35	3,5	0,08	0,20	102 x 25	418 000 018	418 001 006	DR13	DR14	6
CBT-40	4,0	0,08	0,20	102 x 25	418 000 019	418 001 007	DR18	DR19	6
CBT-45	4,5	0,08	0,20	102 x 25	418 000 020	418 001 008	DR19	DR19	6
CBT-50	5,0	0,08	0,20	102 x 25	418 000 021	418 001 009	DR18	DR19	6
CBT-55	5,5	0,08	0,20	102 x 25	418 000 022	418 001 010	DR19	P 3.00	6
CBT-60	6,0	0,08	0,20	102 x 25	418 000 023	418 001 011	P 3.00	P 3.00	6
CBT-65	6,5	0,08	0,20	102 x 25	418 000 024	418 001 012	P 3.00	P 3.00	6

DR : Reduction sleeve: [See page 104](#) / P : Tool holder collet (Ø 2.35 ou 3.0 mm)

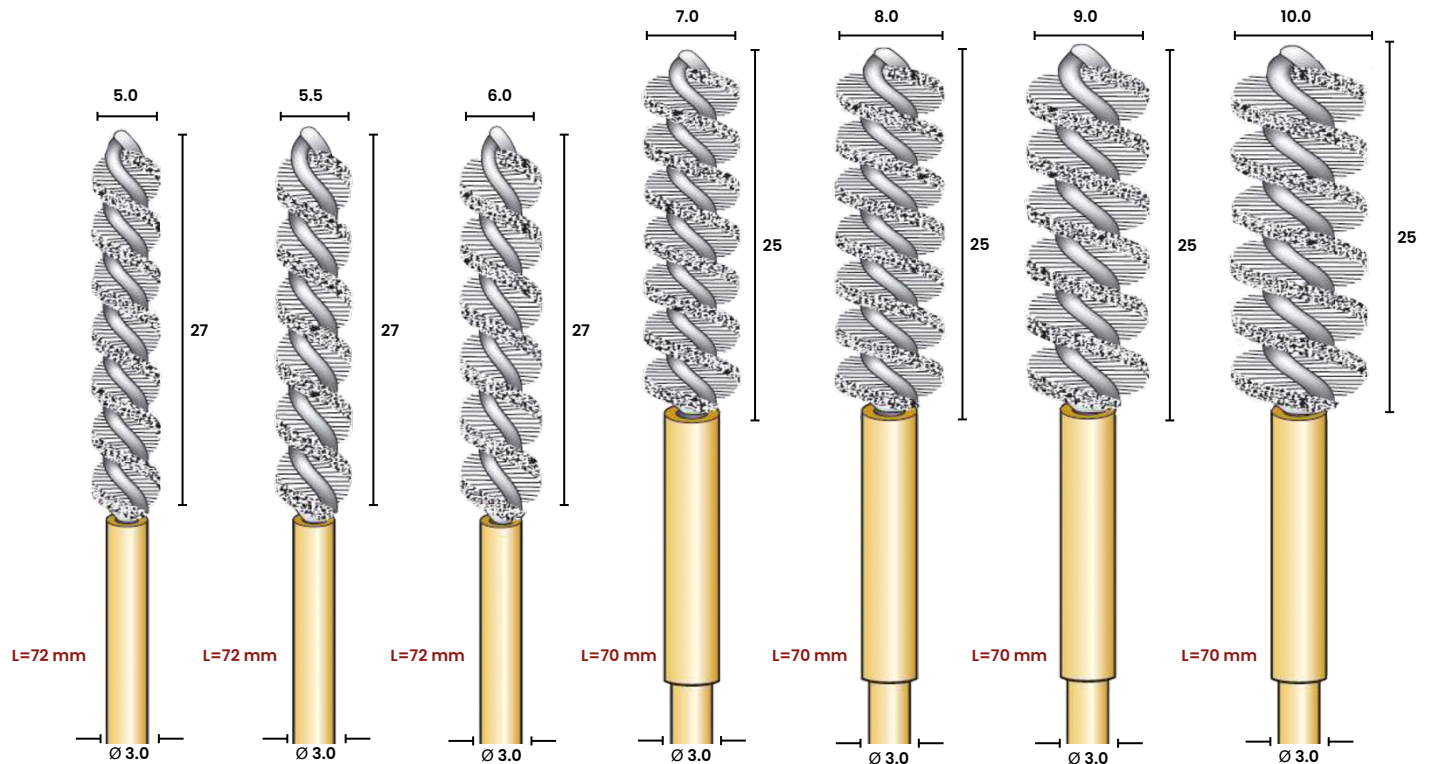


Mounted abrasive micro nylon pipe brushes 3.0mm shank



Type	Ø mm	Wire thickness mm	Useful length x total length mm	Grit	Part No	Max rpm	
M3201	1,0	0,20	15 x 60	2000	460 000 270	9.000	2
M3202	1,5	0,20	15 x 60	2000	460 000 271	9.000	2
M3001	2,0	0,30	20 x 66	500	460 000 272	9.000	5
M3002	2,5	0,30	20 x 66	500	460 000 273	9.000	5
M3003	3,0	0,30	27 x 72	500	460 000 274	9.000	5
M3004	3,5	0,30	27 x 72	500	460 000 275	9.000	5
M3005	4,0	0,30	27 x 72	500	460 000 276	9.000	5
M3006	4,5	0,30	27 x 72	500	460 000 277	9.000	5

Mounted abrasive micro nylon pipe brushes on 3.0mm shank



Type	Ø mm	Wire thickness mm	Lg total x Lg garnie mm	Grit	Part No	Max rpm	
M3007	5,0	0,30	27 x 72	500	460 000 278	9.000	2
M3008	5,5	0,30	27 x 72	500	460 000 279	9.000	2
M3009	6,0	0,30	27 x 72	500	460 000 280	9.000	2
M3204	7,0	0,30	25 x 70	500	460 000 281	9.000	2
M3205	8,0	0,30	25 x 70	500	460 000 282	9.000	2
M3206	9,0	0,30	25 x 70	500	460 000 283	9.000	2
M3207	10,0	0,30	25 x 70	500	460 000 284	9.000	2

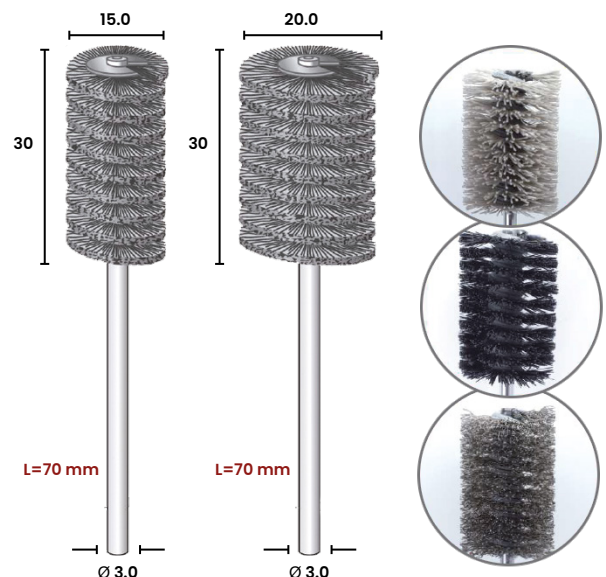
Can be used by hand or machine. We recommend machine use with our NDX-20 motor (max 8,000 rpm). **See page 14.**

Mounted Pipe brushes 3.0mm shank

3.0mm wire brushes available in 3 versions.

- Nylon abrasive corundum 600
- Hard black nylon
- Stainless steel wire 0.15mm

Type	Ø mm	Quality	Lg total mm	Part No	Max rpm	
15SCNA	15x30	Nylon abrasive	70	460 000 291	10.000	1
20SCNA	20x30	Nylon abrasive	70	460 000 292	10.000	1
15SCB	15x30	Black nylon	70	460 000 293	10.000	1
20SCB	20x30	Black nylon	70	460 000 294	10.000	1
15SCI	15x30	Stainless steel	70	460 000 295	10.000	1
20SCI	20x30	Stainless steel	70	460 000 296	10.000	1

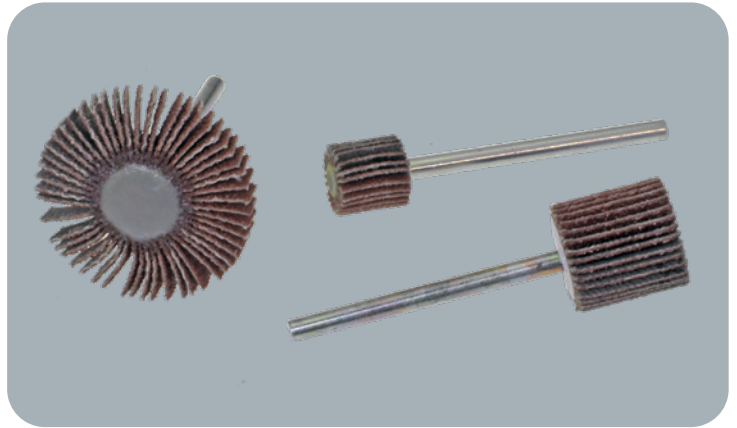


Can be used by hand or machine. We recommend machine use with our NDX-20 motor (max 8,000 rpm). **See page 14.**

Mini mounted Flap Wheels

Shank Ø 3.00 mm

Made of flaps of corundum abrasive fabric on an epoxy center. These flexible wheels adapt to the contours of the workpiece. They are used in a wide range of applications for coarse and fine surface polishing and levelling.

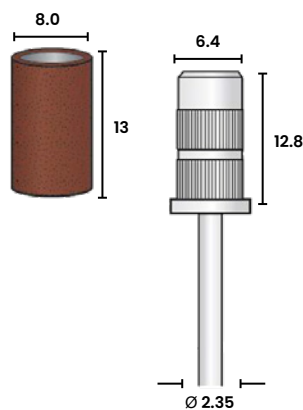


Width x Thickness mm	GRits							Max rpm	
	60	80	120	150	180	240	320		
10 x 10	105 000 055	105 000 056	105 000 058	105 000 059	105 000 060	105 000 061	105 000 062	38.000	10
10 x 15	105 000 065	105 000 066	105 000 068	105 000 069	105 000 070	105 000 071	105 000 072	38.000	10
15 x 10	105 001 097	105 001 098	105 001 100	105 001 101	105 000 102	105 001 103	105 001 104	38.000	10
15 X 15	105 000 075	105 000 076	105 000 078	105 000 079	105 000 080	105 000 081	105 000 082	38.000	10
20 x 05	105 000 175	105 000 176	105 000 178	105 000 179				38.000	10
20 x 10	105 000 195	105 000 196	105 000 198	105 000 199	105 000 200	105 000 201	105 000 202	38.000	10
20 x 15	105 000 215	105 000 216	105 000 218	105 000 219	105 000 220	105 000 221	105 000 222	38.000	10
25 x 05	105 000 315	105 000 316	105 000 318	105 000 319				30.000	10
25 x 10	105 000 335	105 000 336	105 000 338	105 000 339	105 000 340	105 000 341	105 000 342	30.000	10
25 x 15	105 000 355	105 000 356	105 000 358	105 000 359	105 000 360	105 000 361	105 000 362	30.000	10
30 x 05	105 000 455	105 000 456	105 000 458	105 000 459	105 000 460	105 000 461	105 000 462	25.000	10
30 x 10	105 000 475	105 000 476	105 000 478	105 000 479	105 000 480	105 000 481	105 000 482	25.000	10
30 x 15	105 000 495	105 000 496	105 000 498	105 000 499	105 000 500	105 000 501	105 000 502	25.000	10

Abrasive sleeves & holder

Shank Ø 2.35 x 40 mm

Small abrasive sleeves with Holder in
2.35mm shank. For use with our Neo Digit 1
& 2 polishing systems.
Recommended speed 20.000 rpm



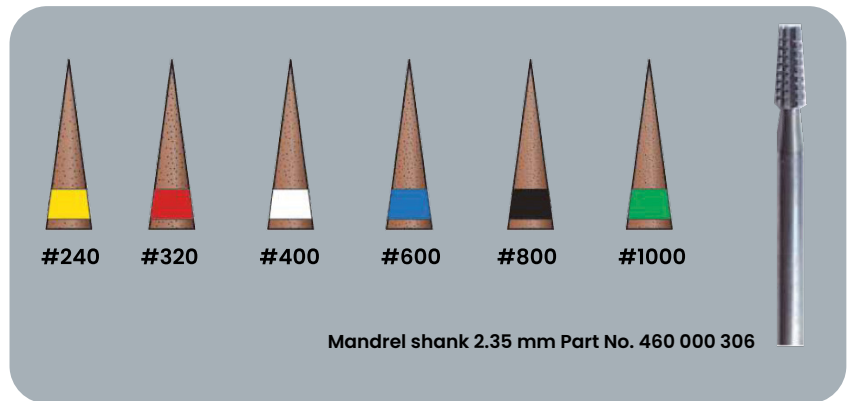
Description	Dimensions(mm)	Quality	Part No.	
Sleeves	8.5 x 12.8	GG-80	507 000 361	100
	8.5 x 12.8	GM-120	507 000 362	100
	8.5 x 12.8	GF-240	507 000 363	100
Holder	Length 40mm - Shank 2.35mm		507 000 360	1
Set	1 Holder 1 Argo sleeve DR 19 (3-2.35mm) 25 sleeves GG, GM & GF		507 000 364	1

Mini abrasive conical

Mandrel Ø 2.35 mm



Small corundum abrasive conical available in several grits. Mount on 2.35 mm shank mandrel. Recommended speed 10,000 rpm



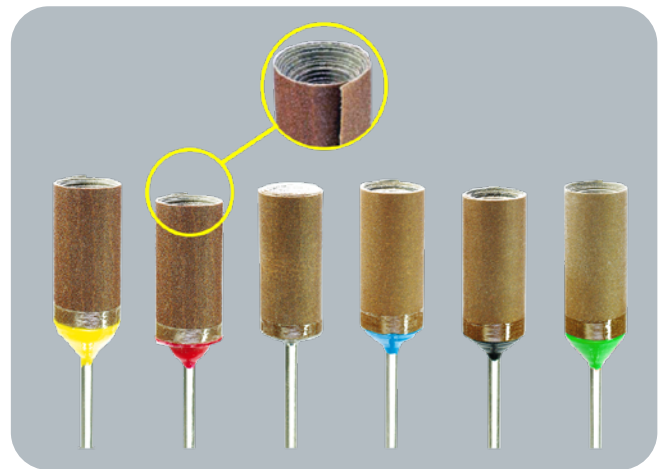
Dimensions	Grits						
	240	320	400	600	800	1000	
4 (l) x 15 (L) mm	460 000 300	460 000 301	460 000 302	460 000 303	460 000 304	460 000 305	50

Mounted abrasive rolls

Shank Ø 2.35 mm

Made of high-quality corundum abrasive paper rolled on a shank. The roll is micro-perforated to cut out the worn part, which is replaced by a new cloth. These rollers are used in workshops for work ranging from sanding to finishing, thanks to the many color-coded grits available for rapid recognition.

Recommended maximum speed: 15,000 rpm

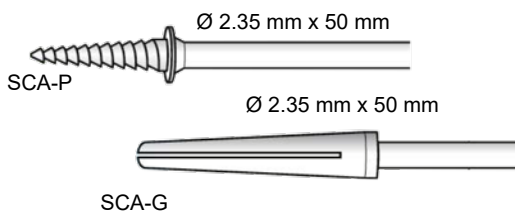


Dimensions	Grits						
	240	320	400	600	800	1000	
13 (l) x 28 (L) mm	460 000 019	460 000 021	460 000 022	460 000 023	460 000 024	460 000 025	24

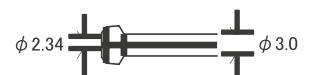
Mounted abrasive conical & mandrels

Made of fine, medium and coarse grit sandpaper. For working on wood carvings and other materials, for fine sanding of hard-to-reach areas. Quick changeover. Working at low speed means better control and longer tool life.

Recommended maximum speed: 10,000 rpm



Tip. Use our DR19 socket to mount SCA-P & SCA-G chucks on a tool holder with 3.0mm shank.



Grits	Shape				
	Cylinder 5.5 x 16.6 mm	Cylinder 5 x 15 mm	Conical 8 x 24 mm	Conical 8.7 x 25 mm	
120	460 000 094	460 000 095	460 000 096	460 000 097	20
180	460 000 098	460 000 099	460 000 100	460 000 101	20
240	460 000 102	460 000 103	460 000 104	460 000 105	20
Holder	SCA-P 460 000 106	SCA-P 460 000 106	SCA-G 460 000 107	SCA-P 460 000 106	3

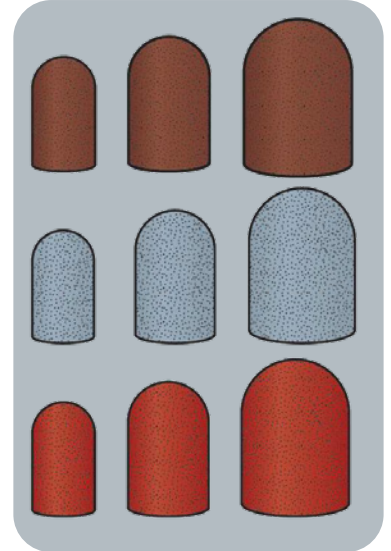
Abrasive caps

Shank Ø 2.35 & 3.00 mm

Pre-formed, seamless abrasive caps can be used over the entire tool surface while working. They are available in three abrasive grades and with a choice of conventional or quick-change cap holders.

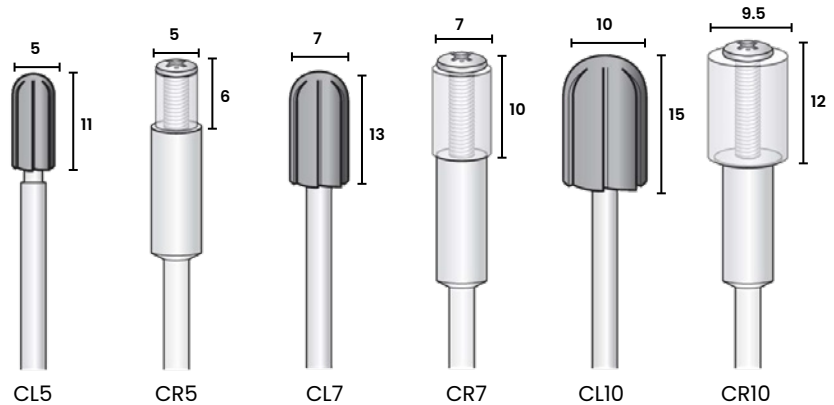
Recommended speed 20,000 rpm

Type/Grit	Dimensions Lxl (mm)	Gr. 80	Gr. 120	Gr. 150	Gr 280	
Corundum type CA			Universal for all metals, plastics and wood			
CA-07	07 x 12	460 000 310	-	460 000 311	460 000 312	20
CA-09	09 x 14	460 000 313	-	460 000 314	460 000 315	20
CA-12	12 x 16	460 000 316	-	460 000 317	460 000 318	20
Silicon carbide type CS			Titanium, Aluminium and its alloys			
CS-07	07 x 12	460 000 319	-	460 000 320	-	20
CS-09	09 x 14	460 000 321	-	460 000 322	-	20
CS-12	12 x 16	460 000 323	-	460 000 324	-	20
Ceramic type CC			Steel, nickel and cobalt-based alloys highly treated like INCONEL® and HASTELLOY			
CC-07	07 x 12	460 000 325	460 000 326	-	-	20
CC-09	09 x 14	460 000 327	460 000 328	-	-	20
CC-12	12 x 16	460 000 329	460 000 330	-	-	20



Abrasive cap holders

Cap holders available in classic version with 3.0 mm shank and quick-change version with 2.35 and 3.0 mm shank



Shank	CL5	CR5	CL7	CR7	CL10	CR10	
2.35 mm	-	460 000 332	-	460 000 335	-	460 000 338	2
3.00 mm	460 000 331	460 000 333	460 000 334	460 000 336	460 000 337	460 000 339	2

Self-adhesive abrasive discs.

Holders Shank 3.00 mm

Adhesive cloth abrasive discs, corundum quality. Other Dimensions and qualities available in our Abrasives catalog.



Grits	Ø mm			
	12	20	33	
60	108 000 031	108 000 040	108 000 049	100
80	108 000 032	108 000 041	108 000 050	100
120	108 000 033	108 000 042	108 000 051	100
150	108 000 034	108 000 043	108 000 052	100
180	108 000 035	108 000 044	108 000 053	100
240	108 000 036	108 000 045	108 000 054	100
320	108 000 037	108 000 046	108 000 055	100
400	108 000 038	108 000 047	108 000 056	100
600	108 000 091	108 000 092	108 000 093	100

Flexible self-adhesive disc holders

Ø mm	Shank mm	Part No.	
10	3	108 000 200	5
18	3	108 000 201	5
30	3	108 000 202	5

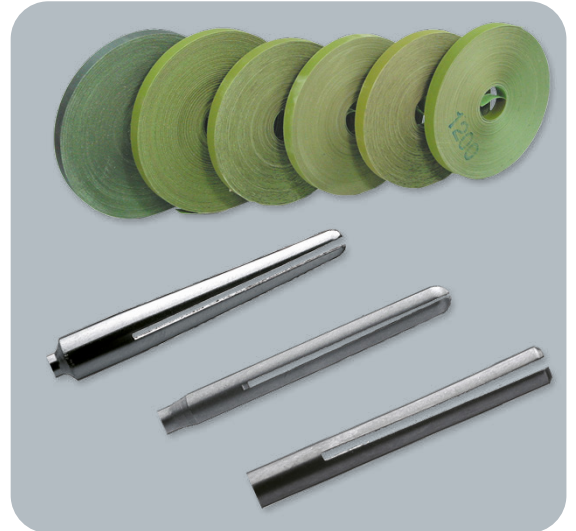
RPF finishing abrasive paper rolls

Rolls available in 25 m lengths

Grits	Width mm			
	6	10	15	
400	417 000 533	417 000 540	417 000 547	1
600	417 000 534	417 000 541	417 000 548	1
800	417 000 535	417 000 542	417 000 548	1
1200	417 000 552	417 000 544	417 000 551	1

Slotted mandrels

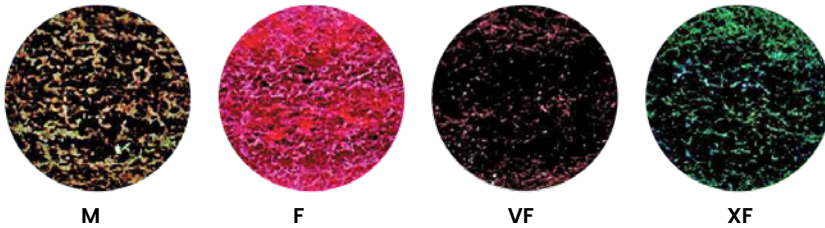
Description		Part No	
Type 314RF	Head Ø 4.2 mm Shank 2.35 x 60 mm	416 000 007	5
Type 315RF	Head Ø 3.1 mm Shank 2.35 x 60 mm	416 000 009	5
Type 318RF	Head Ø 2.3 mm Shank 2.35 x 44 mm	416 000 010	5



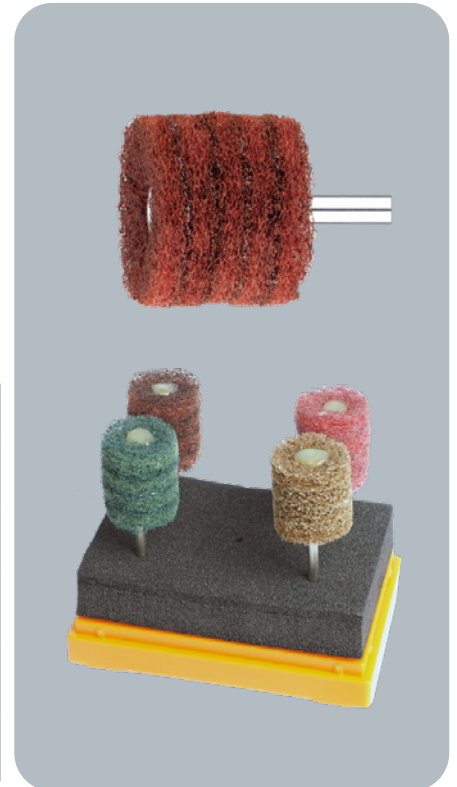
Mounted satin-finish wheels

Shank Ø 3.00 mm

Satin-finish wheels made of stacked corundum nylon discs available in 4 different grits

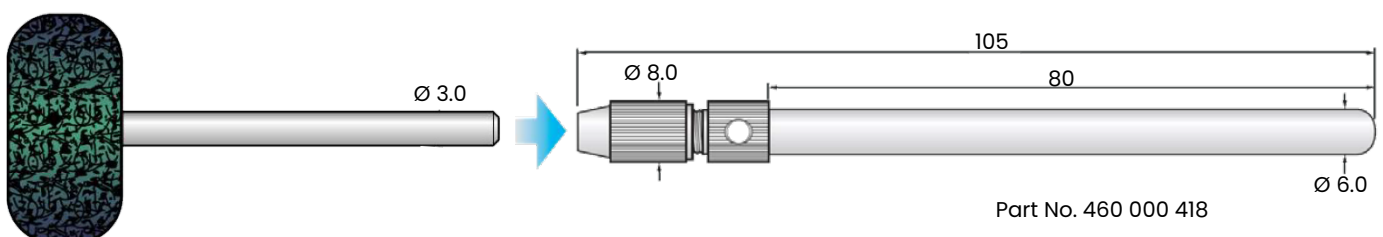


Dimensions mm	M	F	VF	XF	max Rpm	
15 x 20	460 000 345	460 000 346	460 000 347	460 000 348	10.000	10
20 x 23	460 000 349	460 000 350	460 000 351	460 000 352	10.000	10
25 x 25	460 000 353	460 000 354	460 000 355	460 000 356	10.000	10
30 x 27	460 000 357	460 000 358	460 000 359	460 000 360	10.000	10
Test kit size 20 x 23 mm (1 wheel of each grit)				460 000 361	10.000	1



Shank extension 6 mm x length 105 mm

Allows tools with 3 mm shank to be fitted (R212 mandrel see page 105).



Non-woven abrasive nylon discs

Shank Ø 3.00 mm

Non-woven nylon abrasive discs mounted on 3.0mm shank.
Available in 3 grit Dimensions.

Dimensions mm	Grit			Max rpm	
	120	240	400		
20 x 1.5	460 000 362	460 000 363	460 000 364	15.000	5
23 x 1.5	460 000 365	460 000 366	460 000 367	15.000	5
25 x 1.5	460 000 368	460 000 369	460 000 370	15.000	5
30 x 1.3	460 000 371	460 000 372	460 000 373	15.000	6



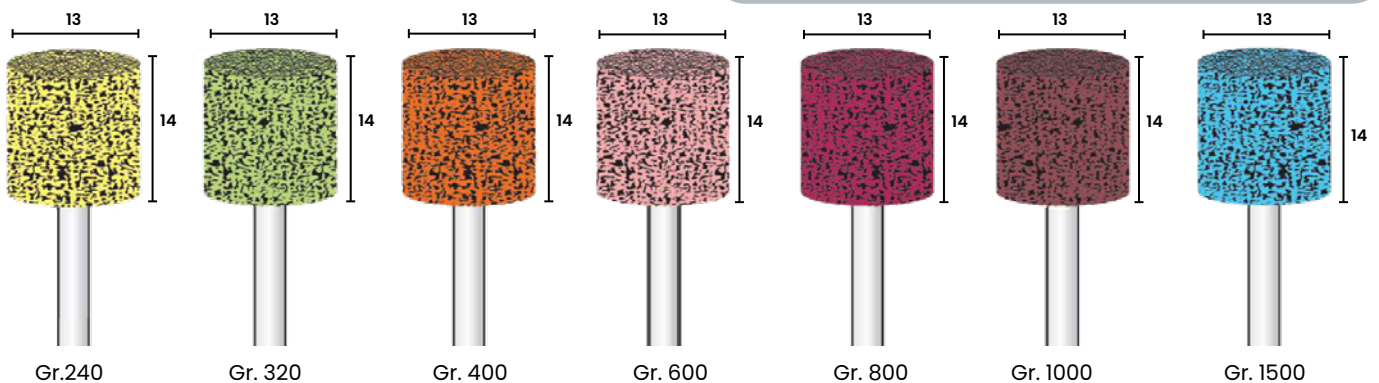
Non-woven nylon abrasive stones

Shank Ø 3.00 mm

Mounted on non-woven nylon abrasive stones

Recommended speed. 15,000 rpm

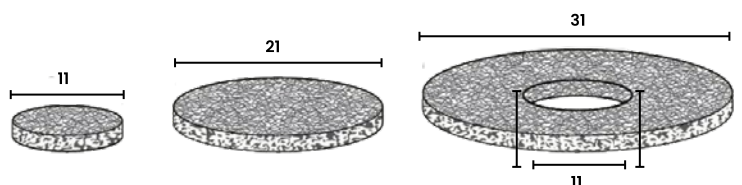
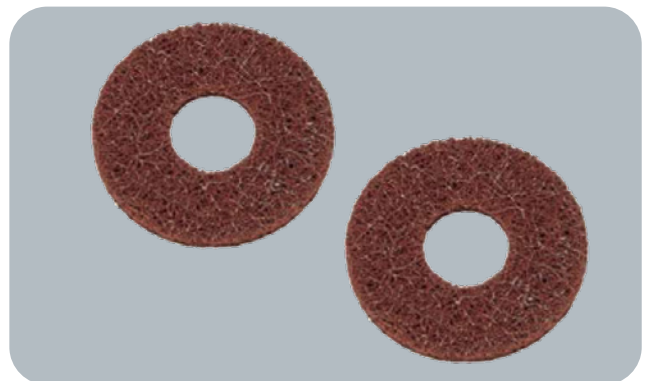
Type	Width	Length	Grit	Part No.	
R561	13	14	240	460 000 249	10
R562	13	14	320	460 000 250	10
R563	13	14	400	460 000 251	10
R564	13	14	600	460 000 252	10
R565	13	14	800	460 000 253	10
R566	13	14	1000	460 000 254	10
R567	13	14	1500	460 000 255	10



Self-adhesive non-woven abrasive nylon discs

Recommended speed. 15,000 rpm. To be used
with holders page 70

Diameter mm	Grit	Part No.	Max rpm	
11	240	460 000 376	15.000	20
11	400	460 000 377	15.000	20
11	800	460 000 378	15.000	20
11	1200	460 000 379	15.000	20
21	240	460 000 380	15.000	20
21	400	460 000 381	15.000	20
21	800	460 000 382	15.000	20
21	1200	460 000 383	15.000	20
31/11	240	460 000 384	15.000	20
31/11	400	460 000 385	15.000	20
31/11	800	460 000 386	15.000	20
31/11	1200	460 000 387	15.000	20



Mounted felt shank 2.35 mm

High-quality mounted hard felts shank. For use with our polishing and diamond pastes for all finishing operations. The assortment includes 24 felts.

Type	Ø mm	L mm	Part No.	Box
800	9	13	422 000 045	50
801	9	13	422 000 046	50
802	8	11	422 000 047	50
803	9	13	422 000 048	50
804	8	11	422 000 049	50
805	8	11	422 000 050	50
806	7	15	422 000 051	50
807	12	12	422 000 052	50
808	22	5	422 000 053	50
809	17	5	422 000 054	50
810	22	5	422 000 055	50
811	17	5	422 000 056	50



Set of 2.35 mm mounted felts shank

Description	Part No	Box
Set of 24 mounted felts 2.35 mm shank (2 units of each reference)	422 000 060	1

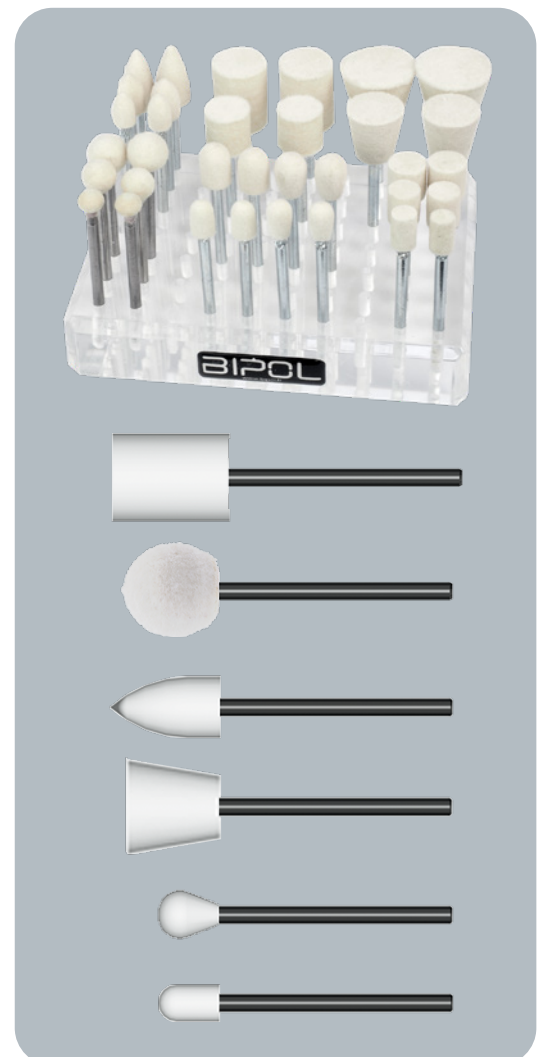


Mounted felt shank 3.00 mm

High-quality mounted hard felts shank. Standard hardness. For use with our polishing pastes and diamond pastes for all finishing operations. The assortment includes 34 felts. Also available with 6.00mm shank (contact us)

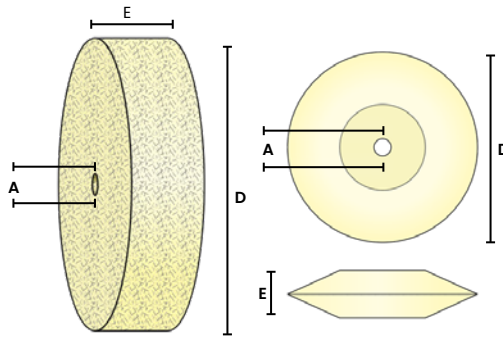
Ø mm	L mm	Tige mm	Part No.	Box
Cylinder				
6	10	3 x 40	422 000 001	50
8	10	3 x 40	422 000 002	50
10	10	3 x 40	422 000 003	50
12	12	3 x 40	422 000 004	50
15	20	3 x 40	422 000 005	50
Round				
6	-	3 x 40	422 000 100	20
8	-	3 x 40	422 000 101	20
10	-	3 x 40	422 000 102	20
Blunt point				
6	10	3 x 40	422 000 010	50
8	12	3 x 40	422 000 011	50
10	18	3 x 40	422 000 012	50
Inverted cone 10°				
15/10	15	3 x 40	422 000 021	50
20/12	18	3 x 40	422 000 022	20
Pear				
6	10	3 x 40	422 000 062	50
8	12	3 x 40	422 000 063	50
Cylinder, round				
6	10	3 x 40	422 000 015	50
8	12	3 x 40	422 000 016	50

Description	Part No	Box
Set of 24 mounted felts shank 3.00 mm (2 units of each reference)	422 000 080	1



Discs & felt lenses with arbor hole

Arbor hole discs, felt for mandrel mounting.



Type	E mm	D mm	A mm	Max rpm	Part No.	
RF611	2	20	1.8	15.000	460 000 390	10
RF612	3	20	1.8	15.000	460 000 391	10
RF613	4	20	1.8	15.000	460 000 392	10
RF614	5	20	1.8	15.000	460 000 393	10
RF621	2	25	1.8	15.000	460 000 394	10
RF622	3	25	1.8	15.000	460 000 395	10
RF623	4	25	1.8	15.000	460 000 396	10
RF624	5	25	1.8	15.000	460 000 397	10
RF632	3	30	1.8	15.000	460 000 398	10
RF633	4	30	1.8	15.000	460 000 399	10
RF634	5	30	1.8	15.000	460 000 400	10
RF641	8	25	3.0	15.000	460 000 401	5
RF642	10	30	3.0	10.000	460 000 402	5
RF643	10	40	3.0	8.000	460 000 403	5
RF645	10	50	6.0	5.000	460 000 404	5

Felt lenses with arbor hole



Type	E mm	D mm	A mm	Max rpm	Part No.	
RFL566 (hard)	20	5	1.8	15.000	460 000 406	10
RFL567 (hard)	30	6	1.8	15.000	460 000 407	10

Mounted felt flap wheels

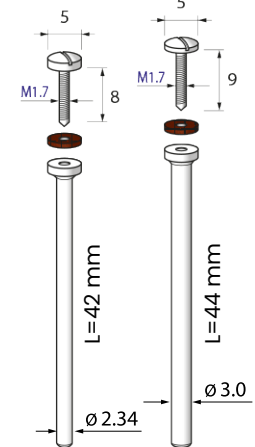
Shank Ø 3.00 mm

Wheels with felt flaps bonded radially to the resin center. This tool combines the flexibility of flaps with the excellent polishing qualities of felt.

Ø x width mm	Ø shank mm	Flexible	Extra flexible	
20 x 10	3	424 000 120	424 000 027	10
20 x 20	3	424 000 121	424 000 111	10
25 x 10	3	424 000 122	424 000 112	10
25 x 20	3	424 000 123	424 000 028	10
25 x 30	3	424 000 124	424 000 113	10
30 x 10	3	424 000 125	424 000 029	10
30 x 20	3	424 000 126	424 000 114	10
30 x 30	3	424 000 127	424 000 030	10

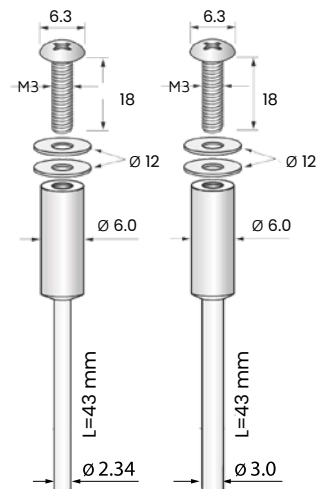


Mandrels Al 1.8 mm (x5)



460 000 408 460 000 409

Mandrels Al 3.0 mm (x5)



460 000 410 460 000 411

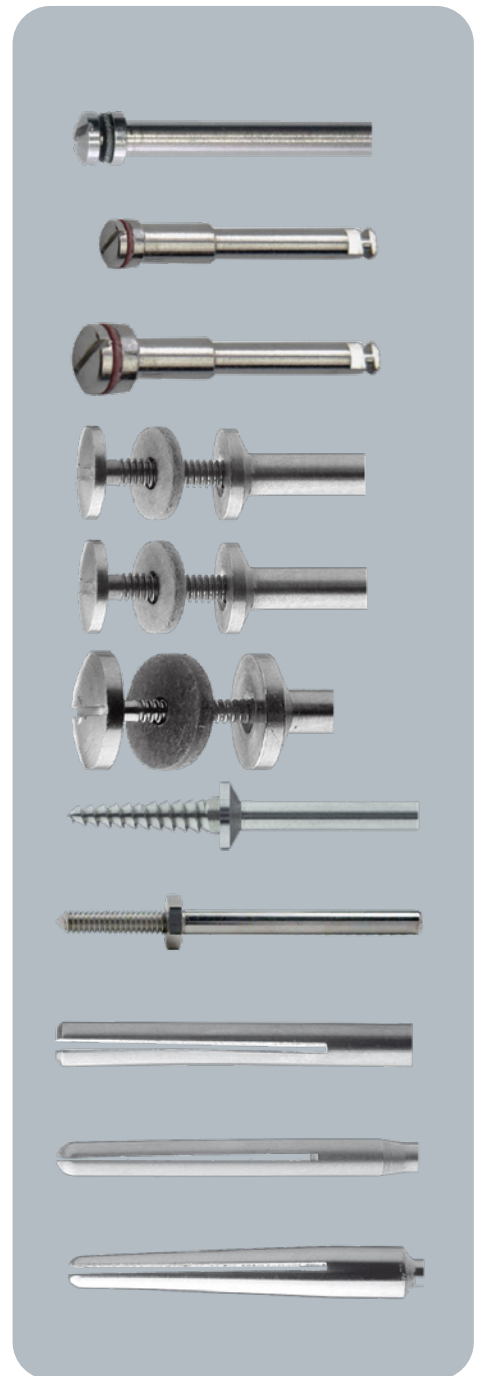
Mandrel Al 6.0 mm (x1)



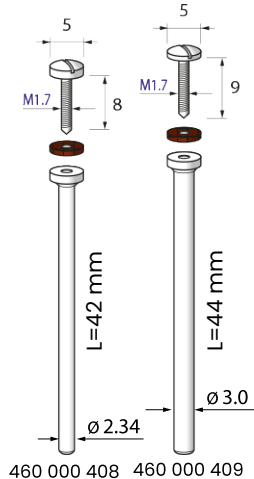
460 000 412

Various mandrels for sticks, washers and abrasive papers

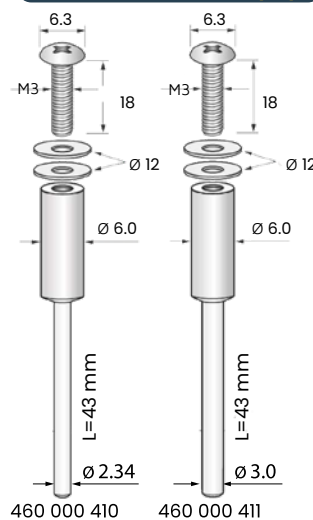
Type	Ø tête mm	Shank mm	Part No.	
303RF-035	3,5	2,35 x 44	416 000 001	5
303RF-035 RA	3,5	2,35 x 22	416 000 013	5
303RF-050 RA	5,0	2,35 x 22	416 000 014	5
303RF-050	5,0	3,00 x 44	416 000 002	5
305RF-050	5,0	2,35 x 44	416 000 003	5
305RF-080	8,0	2,35 x 44	416 000 004	5
301 LR	5,0	2,35 x 44	416 000 005	5
310	2,3	2,35 x 44	416 000 040	5
318 RF	2,3	2,35 x 44	416 000 010	5
315	3,1	2,35 x 60	416 000 009	5
314 RF	4,2	2,35 x 60	416 000 007	5



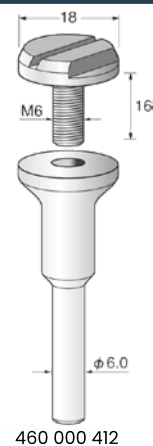
Mandrels Al 1.8 mm (x5)



Mandrels Al 3.0 mm (x5)



Mandrels Al 6.0 mm (x1)



Argo reduction sleeves

Enables the diameter of the gripper to be changed quickly to accommodate tools with different shank diameters.



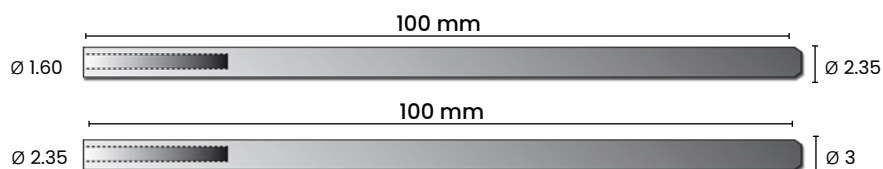
	$\phi 2.34$	$\phi 3.0$	$\phi 3.0$	$\phi 3.0$	$\phi 3.0$	$\phi 3.0$	$\phi 3.0$	$\phi 3.0$	$\phi 3.0$	$\phi 3.0$	$\phi 3.175$	$\phi 3.175$
	DR01	DR04	DR05	DR06	DR08	DR10	DR13	DR14	DR18	DR19	DR20	DR21
Part No. 507 001 XXX	001	004	005	006	008	010	013	014	018	019	020	021

HNO extensions

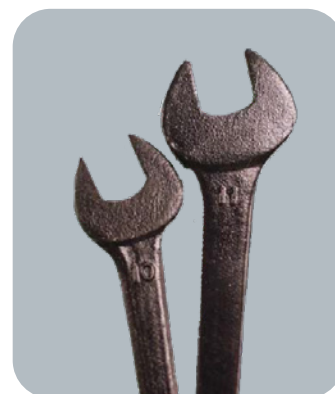
Very useful for deburring in hard-to-reach areas. Mounts tools with shank $\phi 1.6$ & 2.35 mm

3 x 6 mm reduction sleeve (sold individually))

Part No. 416 000 012

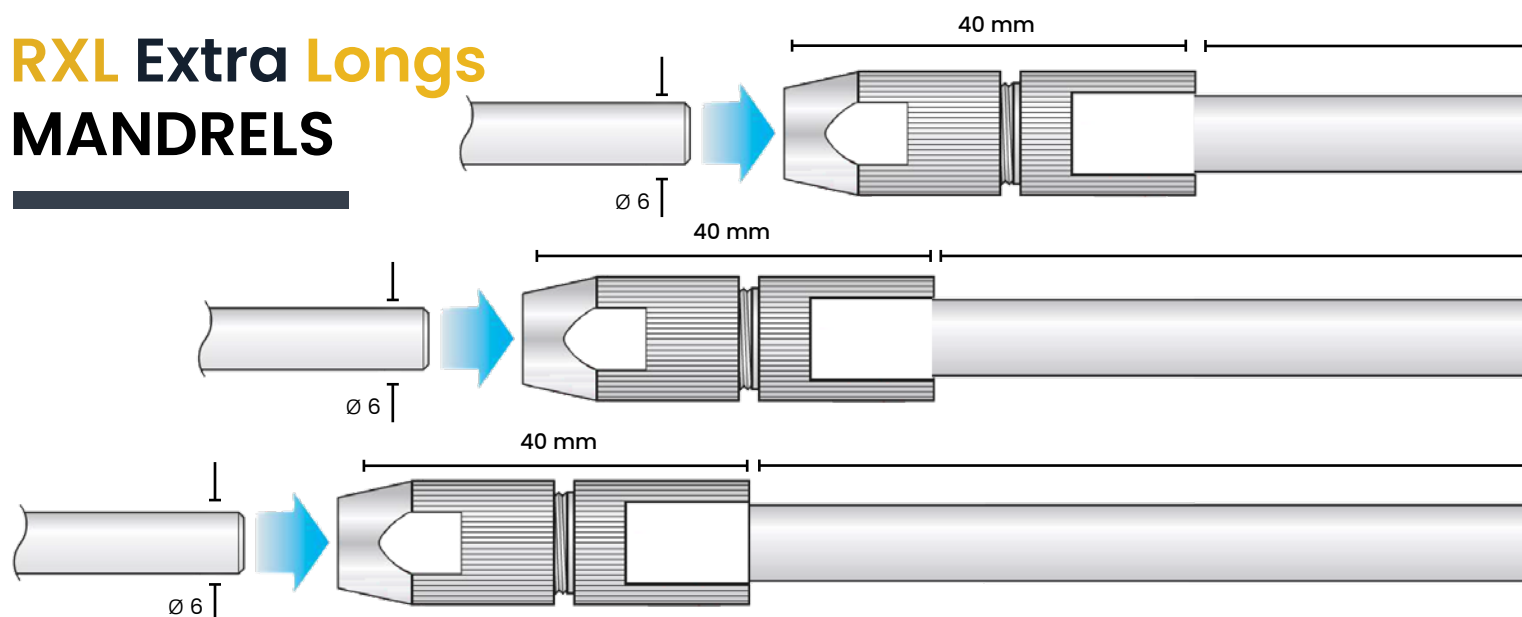


Description	Part No.	
RAL HNO 235 - Shank 2.35mm LG100 mm for tool shank 1.6 mm	403 000 011	1
RAL HNO 300 - Shank 3.00mm LG100 mm for tool shank 2.35 mm	403 000 012	1

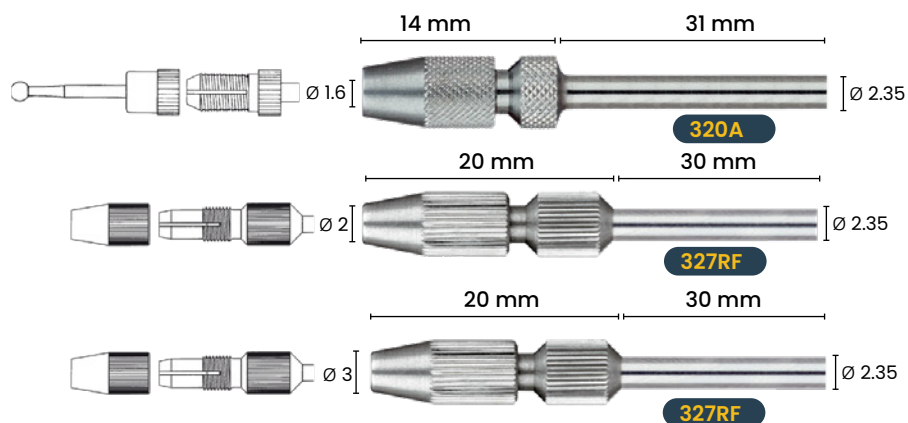


Mandrel wrenches
R231-232-233-234
Part No. 460 000 423

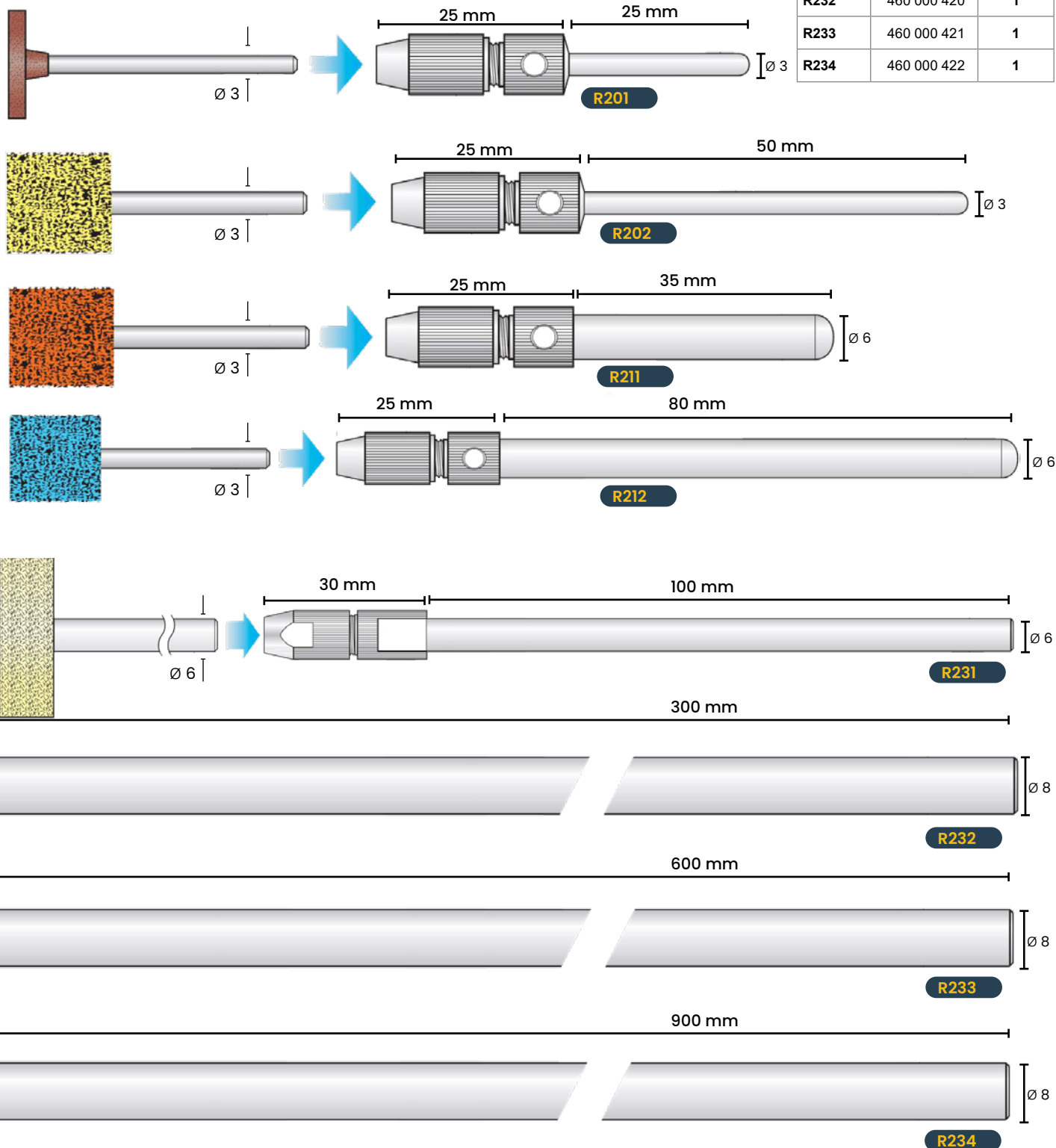
RXL Extra Longs MANDRELS



MANDRELS & EXTENSIONS – EXTRA LONG EXTENSIONS



Type	Part No.	
320 A	416 000 008	2
327 RF	415 000 047	1
327 RF	415 000 023	1
R201	460 000 415	1
R202	460 000 416	1
R211	460 000 417	1
R212	460 000 418	1
R231	460 000 419	1
R232	460 000 420	1
R233	460 000 421	1
R234	460 000 422	1



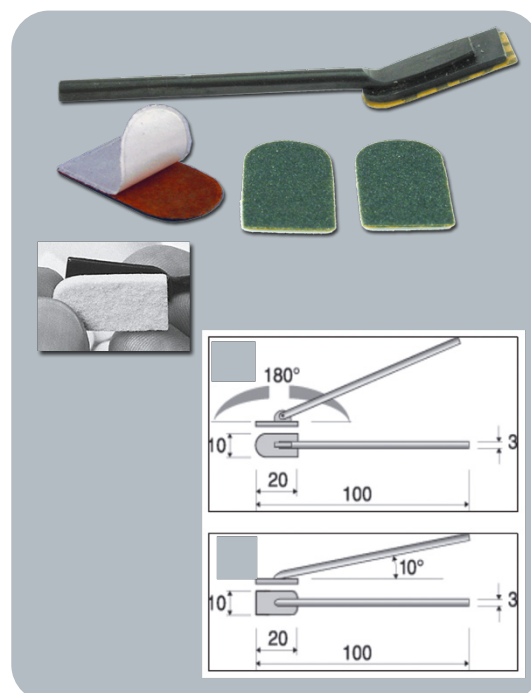
MOUNTED ROTATING TOOLS – FELT

Dedicated Recipro tools, depending on the model, can be mounted on our electric tool holders (NPO-P11, NPO-P12, Ar-tima 7 system and RE35 & RE55 motorized file holders, as well as our Turbolap range of pneumatic grinders). All these products can also be used manually, thanks to our various Manual Holders.

Self-adhesive abrasive or felt pads and holders

Shank Ø 3.00 mm

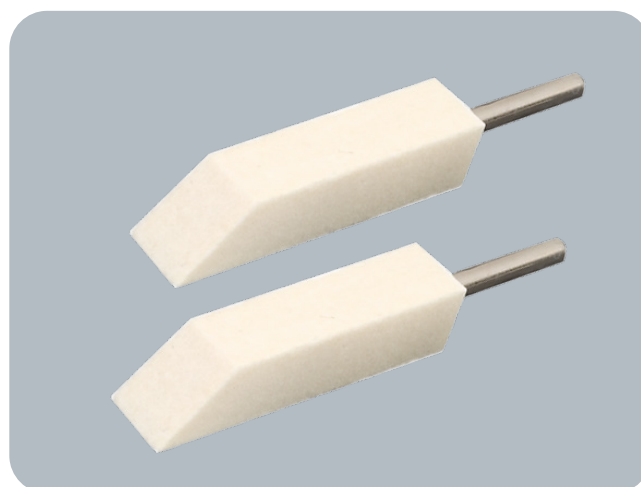
Description	Dimensions mm	Grit	Part No	
Abrasive pads	20 x 10	180	424 000 050	100
	20 x 10	240	424 000 051	100
	20 x 10	280	424 000 052	100
	20 x 10	320	424 000 053	100
	20 x 10	400	424 000 054	100
	20 x 10	600	424 000 055	100
	20 x 10	800	424 000 056	100
	20 x 10	1000	424 000 057	100
	20 x 10	1200	424 000 058	100
Felt pads	Dim. 20 x 10mm		424 000 026	50
Holder 180°	Length 85 mm x T3		424 000 025	1
Fixed holder	Length 60 mm x T3		424 000 024	1



Mounted felt stick

Shank Ø 3.00 mm

Dimensions mm	Length mm	FLEXIBLE	HARD	
6 x 6	40	424 000 016	424 000 020	10
8 x 8	40	424 000 017	424 000 021	10
10 x 10	40	424 000 018	424 000 022	10
12 x 12	40	424 000 019	424 000 023	10

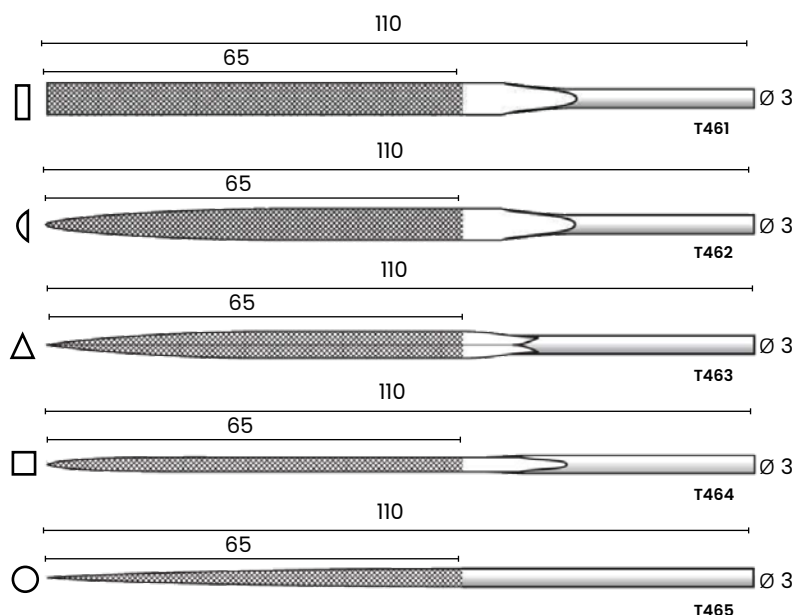


Recipro fine-cut steel files

Shank Ø 3.00 mm

Useful length 65 mm – Total length 110 mm

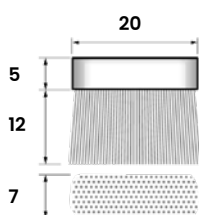
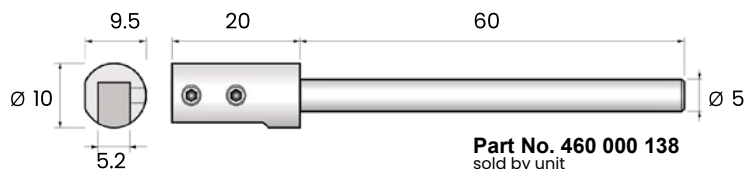
Shape	Dimensions mm	Part No	
Rectangular T461	1.0x5	460 000 450	3
Half round T462	1.6x5	460 000 451	3
Triangular T463	3.5	460 000 452	3
Square T464	2.4	460 000 453	3
Round T465	3.0	460 000 454	3



Brush & holders

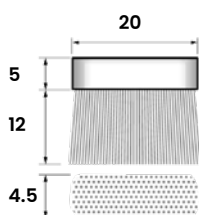


Brushes of various qualities. Once used, refills can simply be replaced on the universal holder.



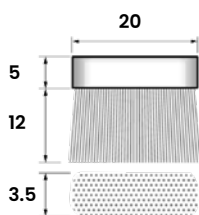
NA- Quality SIC 600 abrasive nylon grit

Description	Part No.	
RE35-NA refill (nylon abrasive)	460 000 139	2
RE35-NA brush set (1 brush & 1 holder)	460 000 140	1



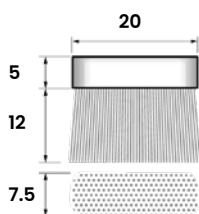
NC- Antistatic nylon quality (hard)

Description	Part No.	
RE35-NC refill (nylon antistatic)	460 000 141	2
RE35-NC brush set (1 brush & 1 holder)	460 000 142	1



PC- Horsehair quality (soft)

Description	Part No.	
RE35-PC refill (horsehair)	460 000 143	2
RE35-PC brush set (1 brush & 1 holder)	460 000 144	1



ST/AC- Stainless steel and steel quality

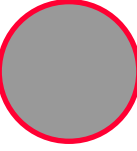
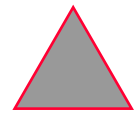
Description	Part No.	
RE35-ST refill (stainless steel)	460 000 145	2
RE35-ST brush set (1 brush & 1 holder)	460 000 146	1
RE35-AC refill (steel)	460 000 147	2
RE35-AC brush set (1 brush & 1 holder)	460 000 148	1

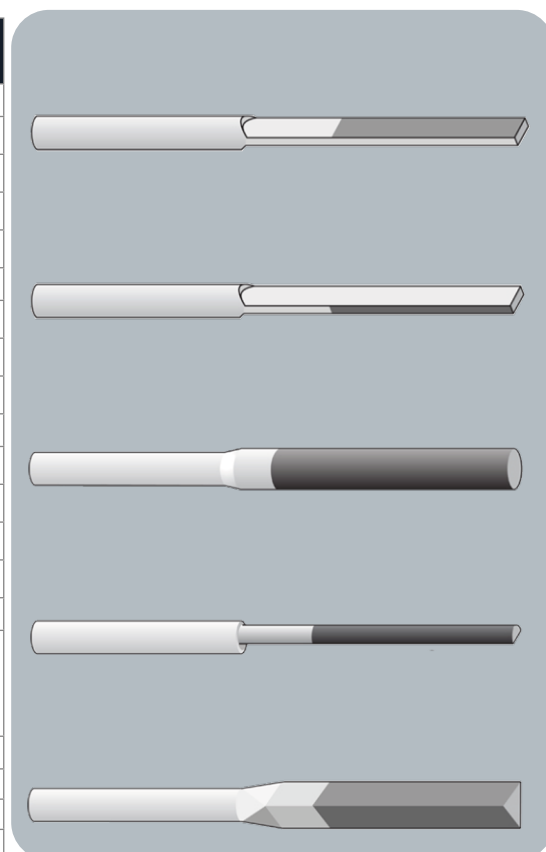
Diamond machine files

D 91	D 126	D 181
Fine	Standard	Coarse

Diamond Length	Total length	Shank
15 mm	50 mm	Ø 3 mm

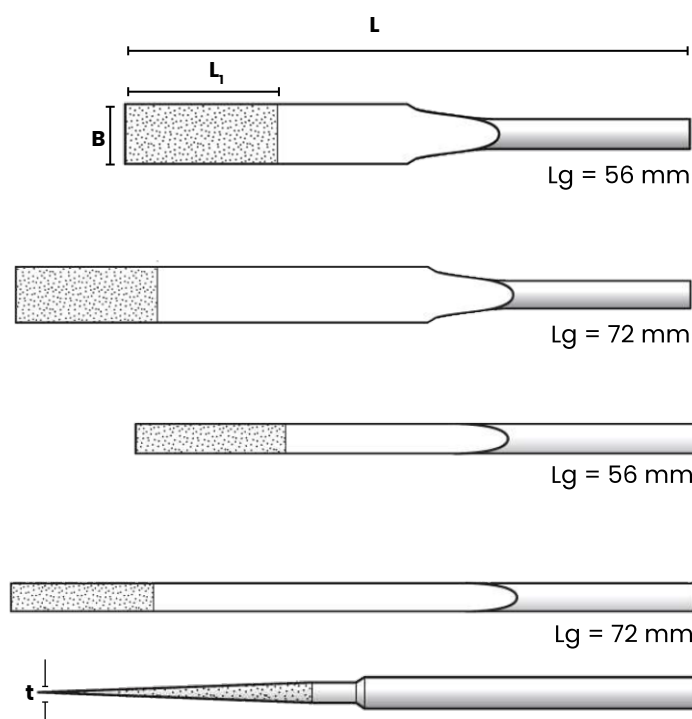
Diamond machine files are manufactured in a «hard chromed» version for excellent durability. Their precise geometry ensures a high level of efficiency, whether used manually or with our filing tool holders or ultrasonic unit. They are supplied in three different grit Dimensions.

Shape	Dimensions mm	D 91	D 126	D 181	
	Flat				
	2 x 1	420 000 021	420 000 022	420 000 023	1
	3 x 1	420 000 024	420 000 025	420 000 026	1
	4 x 1	420 000 027	420 000 028	420 000 029	1
	5 x 2	420 000 030	420 000 031	420 000 032	1
	Flat				
	0,50 x 4	420 000 033	420 000 034	420 000 035	1
	0,75 x 4	420 000 036	420 000 037	420 000 038	1
	1,00 x 4	420 000 039	420 000 040	420 000 041	1
	Round				
	1	420 000 042	420 000 043	420 000 044	1
	2	420 000 045	420 000 046	420 000 047	1
	3	420 000 048	420 000 049	420 000 050	1
	4	420 000 051	420 000 052	420 000 053	1
	Half round				
	r 2,0	420 000 060	420 000 061	420 000 062	1
	Triangular				
	2,0 x 2,0	-	420 000 073	420 000 074	1
	3,5 x 3,5	420 000 075	-	-	1



Conical files for fine retouching

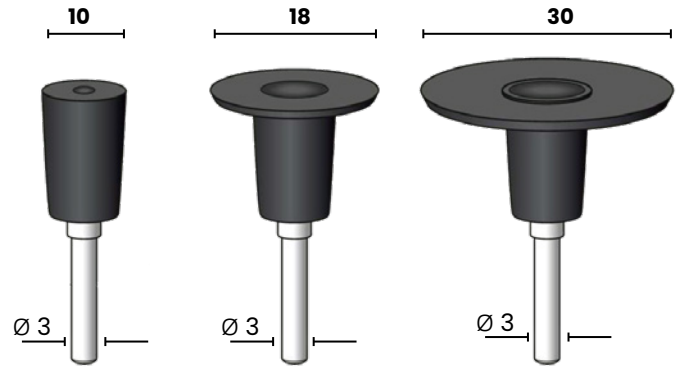
t	B	L ₁	L	Grit	Part No.	
0,3	6	15	56	F	510 001 024	5
0,3	6	15	56	S	510 001 025	5
0,3	6	15	56	G	510 001 026	5
0,3	6	15	72	F	510 001 014	5
0,3	6	15	72	S	510 001 015	5
0,3	6	15	72	G	510 001 016	5
0,3	3	15	56	F	510 001 017	5
0,3	3	15	56	S	510 001 018	5
0,3	3	15	56	G	510 001 019	5
0,3	3	15	72	F	510 001 020	5
0,3	3	15	72	S	510 001 021	5
0,3	3	15	72	G	510 001 022	5
12-piece set					510 001 023	1



G	S	F
Coarse	Standard	Fine
200	400	600

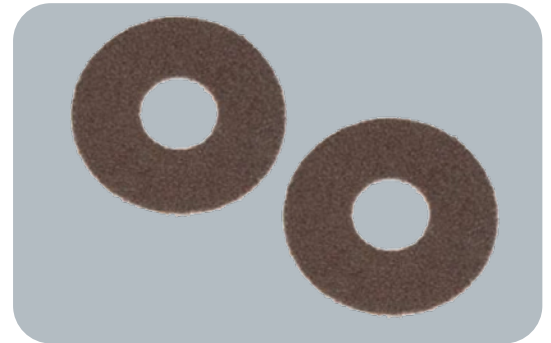
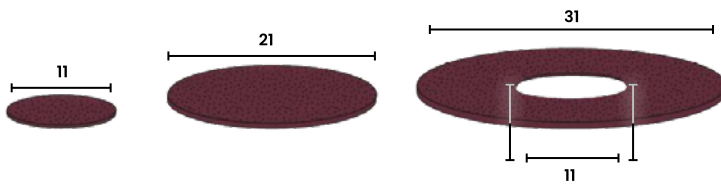
Discs holders

Ø mm	Shank mm	Part No.	
10	3	108 000 200	5
18	3	108 000 201	5
30	3	108 000 202	5



SPD-AC self-adhesive discs

Reinforced treated abrasive paper.
Universal use on wood & metal



Grits	Ø mm			Max rpm	
	11	21	31/11		
60	460 000 465	460 000 475	460 000 485	15.000	100
80	460 000 466	460 000 476	460 000 486	15.000	100
120	460 000 467	460 000 477	460 000 487	15.000	100
180	460 000 468	460 000 478	460 000 488	15.000	100
240	460 000 469	460 000 479	460 000 489	15.000	100
320	460 000 470	460 000 480	460 000 490	15.000	100
400	460 000 471	460 000 481	460 000 491	15.000	100
600	460 000 472	460 000 482	460 000 492	15.000	100
800	460 000 473	460 000 483	460 000 493	15.000	100
Set 10 pieces of each grit	460 000 474	460 000 484	460 000 494	15.000	1

Self-adhesive abrasive discs

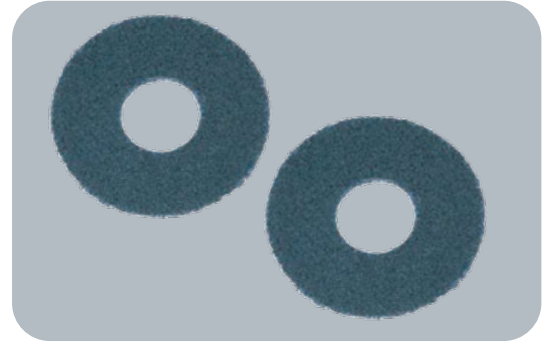
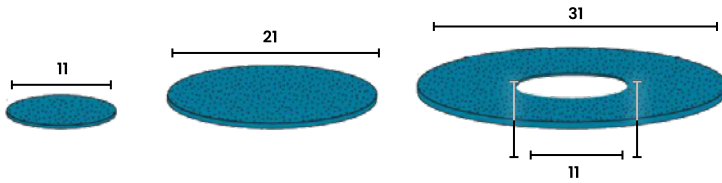
Adhesive cloth abrasive discs, high-grade corundum.
Other Dimensions and qualities available in our Abrasives catalog.



Grits	Ø mm			
	12	20	33	
60	108 000 031	108 000 040	108 000 049	100
80	108 000 032	108 000 041	108 000 050	100
120	108 000 033	108 000 042	108 000 051	100
150	108 000 034	108 000 043	108 000 052	100
180	108 000 035	108 000 044	108 000 053	100
240	108 000 036	108 000 045	108 000 054	100
320	108 000 037	108 000 046	108 000 055	100
400	108 000 038	108 000 047	108 000 056	100
600	108 000 091	108 000 092	108 000 093	100

SPD-Z self-adhesive discs

Zirconium oxide abrasive cloth backing. For stainless steel & aluminium

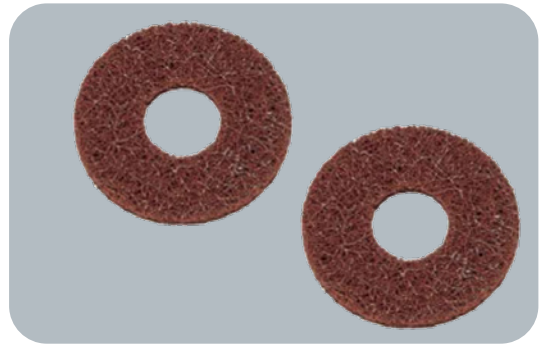
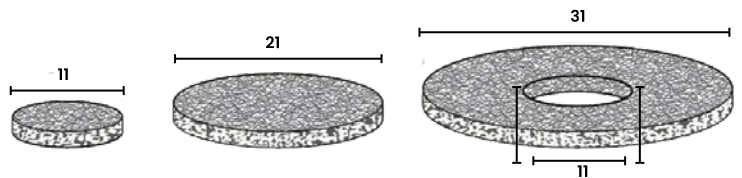


Grits	Ø mm			Max rpm	
	11	21	31/11		
60	460 000 496	460 000 501	460 000 506	15.000	100
80	460 000 497	460 000 502	460 000 507	15.000	100
120	460 000 498	460 000 503	460 000 508	15.000	100
150	460 000 499	460 000 504	460 000 509	15.000	100
Set 10 pieces of each grit	460 000 500	460 000 505	460 000 510	15.000	1

Self-adhesive non-woven nylon abrasive discs

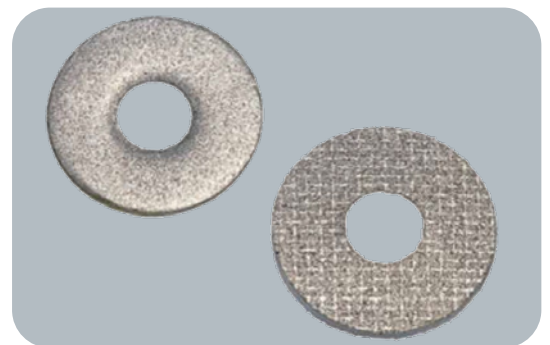
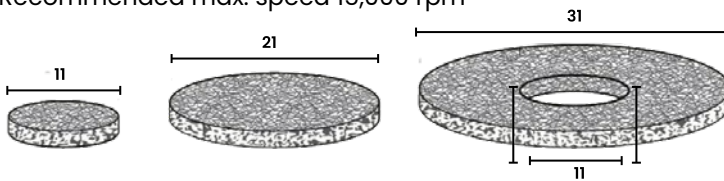
Recommended speed. 15,000 rpm.

Diameter mm	Grit	Part No.	Max rpm	
11	240	460 000 376	15.000	20
11	400	460 000 377	15.000	20
11	800	460 000 378	15.000	20
11	1200	460 000 379	15.000	20
21	240	460 000 380	15.000	20
21	400	460 000 381	15.000	20
21	800	460 000 382	15.000	20
21	1200	460 000 383	15.000	20
31/11	240	460 000 384	15.000	20
31/11	400	460 000 385	15.000	20
31/11	800	460 000 386	15.000	20
31/11	1200	460 000 387	15.000	20



Diamond self-adhesive discs

Available in 2 hardnesses: Soft & Hard.
Recommended max. speed 15,000 rpm

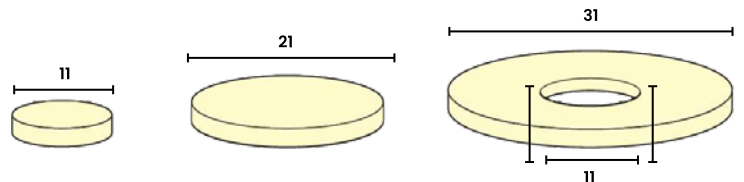
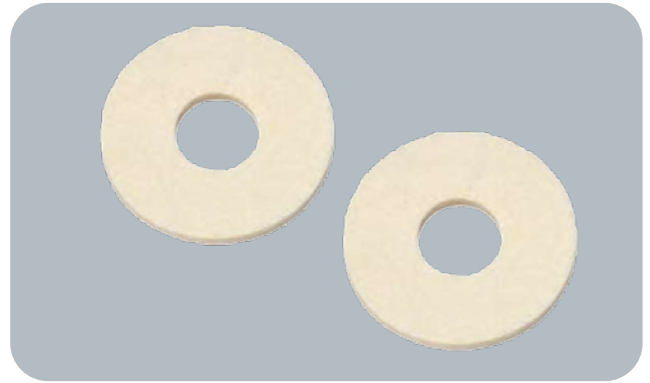


Hard quality Ø mm				Soft quality Ø mm				
Grits	11	21	31/11	Grits	11	21	31/11	
140	460 000 512	460 000 518	460 000 524	100	460 000 530	460 000 536	460 000 542	1
200	460 000 513	460 000 519	460 000 525	180	460 000 531	460 000 537	460 000 543	1
320	460 000 514	460 000 520	460 000 526	240	460 000 532	460 000 538	460 000 544	1
400	460 000 515	460 000 521	460 000 527	320	460 000 533	460 000 539	460 000 545	1
600	460 000 516	460 000 522	460 000 528	400	460 000 534	460 000 540	460 000 546	1
800	460 000 517	460 000 523	460 000 529	800	460 000 535	460 000 541	460 000 547	1

Self-adhesive felt discs

Recommended speed. 15.000 rpm.

Type	Diameter mm	Thickness mm	Part No.	
FD-411	11	2	460 000 440	20
FD-412	21	2	460 000 441	20
FD-413	31/11	2	460 000 442	20



Felt Discs and silky fabric

Self-adhesive superfinishing discs available in 2 qualities.
Black (hard) Mirror-polished on all hard materials with diamond paste up to 1µ.
White (soft) Silky fabric for 1-6µ diamond pastes.

Ø mm	Black	White	
12	423 000 300	423 000 304	50
20	423 000 301	423 000 305	50
33	423 000 302	423 000 306	50



Mounted Satiflex discs shank

Elastic-bonded discs with incorporated abrasive grit. Excellent wear resistance. Discs are cast directly onto 3.0mm shafts fitted with a color-coding system for quick selection of the appropriate Disc.

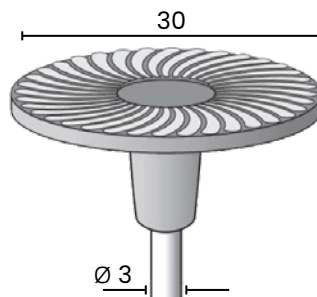
2 qualities available:

TG quality for grinding and fine-grinding operations

TF quality for finishing operations on metals and other materials (non metallic)
Vitesse max conseillée. 15.000 t/min

Quality TG

Grit	Sanding	Fine sanding	
 80	460 000 550	460 000 552	3
 120	460 000 551	460 000 553	3



Quality TF

Grit	Polishing metals	Polishing other material	
 80	460 000 554	460 000 561	3
 120	460 000 555	460 000 562	3
 180	460 000 556	460 000 563	3
 220	460 000 557	460 000 564	3
 320	460 000 558	460 000 565	3
 500	460 000 559	460 000 566	3
Set (x6)	460 000 560	460 000 567	1

SSH Micro ceramic stones

Stones encrusted with abrasive powder in epoxy-bonded ceramic fibers. These very small stones can be used to manually polish very small surfaces.



L = 50 mm



Dimensions mm	Col. Grit	Green 120	Gold 180	Light brown 300	Orange 400	Brown 600	Blue 800	White 1000	Red 1200	
0,3x0,3x50		509 000 110	509 000 111	509 000 112	509 000 113	509 000 114	509 000 115	509 000 116	509 000 117	10
0,5x0,5x50		509 000 090	509 000 091	509 000 092	509 000 093	509 000 094	509 000 095	509 000 096	509 000 097	10
0,7x0,7x50		509 000 118	509 000 119	509 000 120	509 000 121	509 000 122	509 000 123	509 000 124	509 000 125	10
0,9x0,9x50		509 000 098	509 000 099	509 000 100	509 000 101	509 000 102	509 000 103	509 000 104	509 000 105	10
1,4x1,4x50		509 000 130	509 000 131	509 000 132	509 000 133	509 000 134	509 000 135	509 000 136	509 000 137	10

SSH Micro stones holders

Type	For section	Part No	
SSH-C03	0.3 x 0.3 mm	509 000 126	1
SSH-C05	0.5 x 0.5 mm	509 000 106	1
SSH-C07	0.7 x 0.7 mm	509 000 127	1
SSH-C09	0.9 x 0.9 mm	509 000 107	1
SSH-C14	1.4 x 1.4 mm	509 000 407	1
SSH-R03	Ø 3.0 mm	509 000 661	1



Versatile stones holder

Hand-held holder for ceramic rods (Micro and SSH) in various sections and shapes.



Type	Part No	
SSH-SU	509 000 662	1

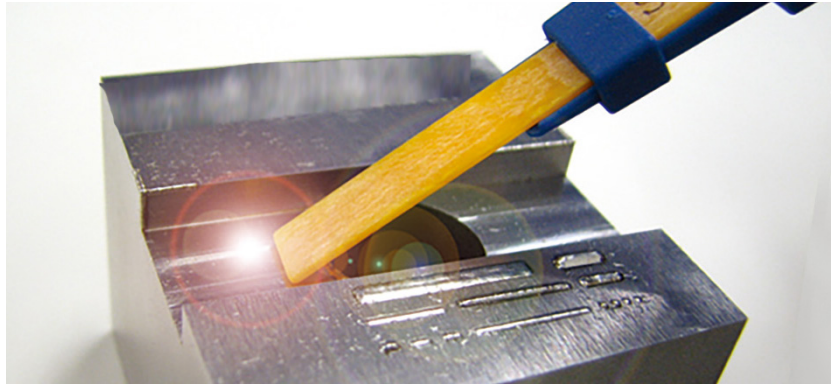


SSH ceramic stones

Extremely robust and flexible stones. Highly resistant to high temperatures. They give excellent results with ultrasonic polishing, but can also be used by hand or with an electric or pneumatic file.

Round shape

L (50mm)



Thickness per width mm	Purple 80	Green 120	Gold 180	Light brown 300	Orange 400	Brown 600	Blue 800	White 1000	Red 1200	
Ø 2.35 x 50	509 001 226	509 001 227	509 001 228	509 001 229	509 001 230	509 001 231	509 001 232	509 001 233	509 001 234	5
Ø 3.00 x 50	509 001 235	509 001 236	509 001 237	509 001 238	509 001 239	509 001 240	509 001 241	509 001 242	509 001 243	5
Ø 3.17 x 50	509 001 244	509 001 245	509 001 246	509 001 247	509 001 248	509 001 249	509 001 250	509 001 251	509 001 252	5

L (100mm)

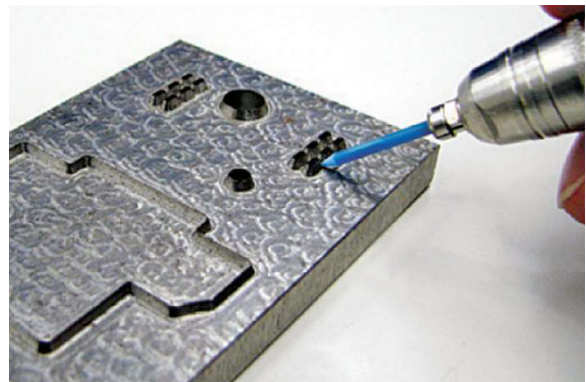
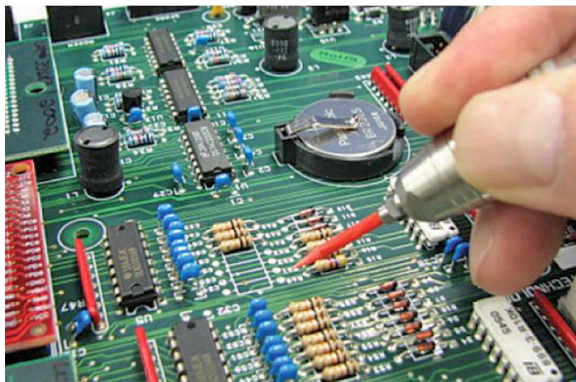


2.35 x 100	509 001 487	509 001 488	509 001 489	509 001 490	509 001 491	509 001 492	509 001 493	509 001 494	509 001 495	1
3.00 x 100	509 000 379	509 000 410	509 000 045	509 000 046	509 000 047	509 000 048	509 000 049	509 000 050	509 000 051	1
3.17 x 100	509 001 496	509 001 497	509 001 498	509 001 499	509 001 500	509 001 501	509 001 502	509 001 503	509 001 504	1

L (150mm)



2.35 x 150	509 001 694	509 001 695	509 001 696	509 001 697	509 001 698	509 001 699	509 001 700	509 001 701	509 001 702	1
3.00 x 150	509 000 389	509 000 670	509 000 671	509 000 672	509 000 673	509 000 674	509 000 675	509 000 676	509 000 677	1
3.17 x 150	509 001 703	509 001 704	509 001 705	509 001 706	509 001 707	509 001 708	509 001 709	509 001 710	509 001 711	1



Rectangular shape

L (50mm)



All our stones can be used by hand or machine.

Thickness per width mm	Purple 80	Green 120	Gold 180	Light brown 300	Orange 400	Brown 600	Blue 800	White 1000	Red 1200	
1.0 x 4 x 50	509 001 109	509 001 110	509 001 111	509 001 112	509 001 113	509 001 114	509 001 115	509 001 116	509 001 117	5
1.0 x 6 x 50	509 001 118	509 001 119	509 001 120	509 001 121	509 001 122	509 001 123	509 001 124	509 001 125	509 001 126	5
1.0 x 10 x 50	509 001 127	509 001 128	509 001 129	509 001 130	509 001 131	509 001 132	509 001 133	509 001 134	509 001 135	5

SSH ceramic stones

Extremely robust and flexible stones. Highly resistant to high temperatures. They give excellent results with ultrasonic polishing, but can also be used by hand or with an electric or pneumatic file.

Rectangular shape



L (100mm)



Thickness per width mm	Purple	Green	Gold	Light brown	Orange	Brown	Blue	White	red	
	80	120	180	300	400	600	800	1000	1200	
0.5 x 1 x 100	509 001 298	509 001 299	509 001 300	509 001 301	509 001 302	509 001 303	509 001 304	509 001 305	509 001 306	1
0.5 x 2 x 100	509 000 370	509 000 400	509 000 304	509 000 305	509 000 306	509 000 307	509 000 308	509 000 309	509 000 310	1
0.5 x 4 x 100	509 000 371	509 000 404	509 000 010	509 000 011	509 000 012	509 000 013	509 000 014	509 000 015	509 000 016	1
0.5 x 6 x 100	509 001 307	509 001 308	509 001 309	509 001 310	509 001 311	509 001 312	509 001 313	509 001 314	509 001 315	1
0.5 x 10 x 100	509 001 316	509 001 317	509 001 318	509 001 319	509 001 320	509 001 321	509 001 322	509 001 323	509 001 324	1
0.8 x 1 x 100	509 001 325	509 001 326	509 001 327	509 001 328	509 001 329	509 001 330	509 001 331	509 001 332	509 001 333	1
0.8 x 2 x 100	509 001 334	509 001 335	509 001 336	509 001 337	509 001 338	509 001 339	509 001 340	509 001 341	509 001 342	1
0.8 x 4 x 100	509 001 343	509 001 344	509 001 345	509 001 346	509 001 347	509 001 348	509 001 349	509 001 350	509 001 351	1
0.8 x 6 x 100	509 001 352	509 001 353	509 001 354	509 001 355	509 001 356	509 001 357	509 001 358	509 001 359	509 001 360	1
0.8 x 10 x 100	509 001 361	509 001 362	509 001 363	509 001 364	509 001 365	509 001 366	509 001 367	509 001 368	509 001 369	1
1.0 x 1 x 100	509 001 370	509 001 371	509 001 372	509 001 373	509 001 374	509 001 375	509 001 376	509 001 377	509 001 378	1
1.0 x 2 x 100	509 000 372	509 000 401	509 000 311	509 000 312	509 000 313	509 000 314	509 000 315	509 000 316	509 000 317	1
1.0 x 4 x 100	509 000 373	509 000 405	509 000 017	509 000 018	509 000 019	509 000 020	509 000 021	509 000 022	509 000 023	1
1.0 x 6 x 100	509 000 374	509 000 406	509 000 024	509 000 025	509 000 026	509 000 027	509 000 028	509 000 029	509 000 030	1
1.0 x 10 x 100	509 001 379	509 001 380	509 001 381	509 001 382	509 001 383	509 001 384	509 001 385	509 001 386	509 001 387	1
1.5 x 1 x 100	509 001 388	509 001 389	509 001 390	509 001 391	509 001 392	509 001 393	509 001 394	509 001 395	509 001 396	1
1.5 x 2 x 100	509 000 375	509 000 402	509 000 318	509 000 319	509 000 320	509 000 321	509 000 322	509 000 323	509 000 324	1
1.5 x 4 x 100	509 001 397	509 001 398	509 001 399	509 001 400	509 001 401	509 001 402	509 001 403	509 001 404	509 001 405	1
1.5 x 6 x 100	509 000 376	509 000 407	509 000 031	509 000 032	509 000 033	509 000 034	509 000 035	509 000 036	509 000 037	1
1.5 x 10 x 100	509 001 406	509 001 407	509 001 408	509 001 409	509 001 410	509 001 411	509 001 412	509 001 413	509 001 414	1
2.0 x 2 x 100	509 001 424	509 001 425	509 001 426	509 001 427	509 001 428	509 001 429	509 001 430	509 001 431	509 001 432	1
2.0 x 4 x 100	509 001 433	509 001 434	509 001 435	509 001 436	509 001 437	509 001 438	509 001 439	509 001 440	509 001 441	1
2.0 x 6 x 100	509 000 377	509 000 408	509 000 038	509 000 039	509 000 040	509 000 041	509 000 042	509 000 043	509 000 044	1
2.0 x 10 x 100	509 001 442	509 001 443	509 001 444	509 001 445	509 001 446	509 001 447	509 001 448	509 001 449	509 001 450	1
3.0 x 2 x 100	509 001 460	509 001 461	509 001 462	509 001 463	509 001 464	509 001 465	509 001 466	509 001 467	509 001 468	1
3.0 x 4 x 100	509 001 469	509 001 470	509 001 471	509 001 472	509 001 473	509 001 474	509 001 475	509 001 476	509 001 477	1
3.0 x 6 x 100	509 000 378	509 000 409	509 000 061	509 000 062	509 000 063	509 000 064	509 000 065	509 000 066	509 000 067	1
3.0 x 10 x 100	509 001 478	509 001 479	509 001 480	509 001 481	509 001 482	509 001 483	509 001 484	509 001 485	509 001 486	1

SSH ceramic stones

Extremely robust and flexible stones. Highly resistant to high temperatures. They give excellent results with ultrasonic polishing, but can also be used by hand or with an electric or pneumatic file.



Rectangular shape

L (150mm)

Thickness per width mm	Purple	Green	Gold	Light brown	Orange	Brown	Blue	White	Red	
	80	120	180	300	400	600	800	1000	1200	
0.5 x 1 x 150	509 001 505	509 001 506	509 001 507	509 001 508	509 001 509	509 001 510	509 001 511	509 001 512	509 001 513	1
0.5 x 2 x 150	509 000 380	509 000 411	509 000 332	509 000 333	509 000 334	509 000 335	509 000 336	509 000 337	509 000 338	1
0.5 x 4 x 150	509 000 381	509 000 415	509 000 262	509 000 263	509 000 264	509 000 265	509 000 266	509 000 267	509 000 268	1
0.5 x 6 x 150	509 001 514	509 001 515	509 001 516	509 001 517	509 001 518	509 001 519	509 001 520	509 001 521	509 001 522	1
0.5 x 10 x 150	509 001 523	509 001 524	509 001 525	509 001 526	509 001 527	509 001 528	509 001 529	509 001 530	509 001 531	1
0.8 x 1 x 150	509 001 532	509 001 533	509 001 534	509 001 535	509 001 536	509 001 537	509 001 538	509 001 539	509 001 540	1
0.8 x 2 x 150	509 001 541	509 001 542	509 001 543	509 001 544	509 001 545	509 001 546	509 001 547	509 001 548	509 001 549	1
0.8 x 4 x 150	509 001 550	509 001 551	509 001 552	509 001 553	509 001 554	509 001 555	509 001 556	509 001 557	509 001 558	1
0.8 x 6 x 150	509 001 559	509 001 560	509 001 561	509 001 562	509 001 563	509 001 564	509 001 565	509 001 566	509 001 567	1
0.8 x 10 x 150	509 001 568	509 001 569	509 001 570	509 001 571	509 001 572	509 001 573	509 001 574	509 001 575	509 001 576	1
1.0 x 1 x 150	509 001 577	509 001 578	509 001 579	509 001 580	509 001 581	509 001 582	509 001 583	509 001 584	509 001 585	1
1.0 x 2 x 150	509 000 382	509 000 412	509 000 339	509 000 340	509 000 341	509 000 342	509 000 343	509 000 344	509 000 345	1
1.0 x 4 x 150	509 000 383	509 000 416	509 000 269	509 000 270	509 000 271	509 000 272	509 000 273	509 000 274	509 000 275	1
1.0 x 6 x 150	509 000 384	509 000 417	509 000 276	509 000 277	509 000 278	509 000 279	509 000 280	509 000 281	509 000 282	1
1.0 x 10 x 150	509 001 586	509 001 587	509 001 588	509 001 589	509 001 590	509 001 591	509 001 592	509 001 593	509 001 594	1
1.5 x 1 x 150	509 001 595	509 001 596	509 001 597	509 001 598	509 001 599	509 001 600	509 001 601	509 001 602	509 001 603	1
1.5 x 2 x 150	509 000 385	509 000 413	509 000 346	509 000 347	509 000 348	509 000 349	509 000 350	509 000 351	509 000 352	1
1.5 x 4 x 150	509 001 604	509 001 605	509 001 606	509 001 607	509 001 608	509 001 609	509 001 610	509 001 611	509 001 612	1
1.5 x 6 x 150	509 000 386	509 000 418	509 000 283	509 000 284	509 000 285	509 000 286	509 000 287	509 000 288	509 000 289	1
1.5 x 10 x 150	509 001 613	509 001 614	509 001 615	509 001 616	509 001 617	509 001 618	509 001 619	509 001 620	509 001 621	1
2.0 x 2 x 150	509 001 631	509 001 632	509 001 633	509 001 634	509 001 635	509 001 636	509 001 637	509 001 638	509 001 639	1
2.0 x 4 x 150	509 001 640	509 001 641	509 001 642	509 001 643	509 001 644	509 001 645	509 001 646	509 001 647	509 001 648	1
2.0 x 6 x 150	509 000 387	509 000 419	509 000 290	509 000 291	509 000 292	509 000 293	509 000 294	509 000 295	509 000 296	1
2.0 x 10 x 150	509 001 649	509 001 650	509 001 651	509 001 652	509 001 653	509 001 654	509 001 655	509 001 656	509 001 657	1
3.0 x 1 x 150	509 001 658	509 001 659	509 001 660	509 001 661	509 001 662	509 001 663	509 001 664	509 001 665	509 001 666	1
3.0 x 2 x 150	509 001 667	509 001 668	509 001 669	509 001 670	509 001 671	509 001 672	509 001 673	509 001 674	509 001 675	1
3.0 x 4 x 150	509 001 676	509 001 677	509 001 678	509 001 679	509 001 680	509 001 681	509 001 682	509 001 683	509 001 684	1
3.0 x 6 x 150	509 000 388	509 000 420	509 000 297	509 000 298	509 000 299	509 000 300	509 000 301	509 000 302	509 000 303	1
3.0 x 10 x 150	509 001 685	509 001 686	509 001 687	509 001 688	509 001 689	509 001 690	509 001 691	509 001 692	509 001 693	1

SSD ceramic diamond stones

Stones encrusted with diamond particles in epoxy-bonded ceramic fibers. They combine the advantages of flexible diamond files for perfect contour finishing. Particularly recommended for use with our filing tool holders and ultrasonic polishing units. Long service life.

L (100mm)



Dimensions mm	Col. Grit	Black 200	Green 400	Grey 800	
1,0x04x100		421 000 001	421 000 002	421 000 003	1
1,0x06x100		421 000 004	421 000 005	421 000 006	1
1,0x10x100		421 000 007	421 000 008	421 000 009	1

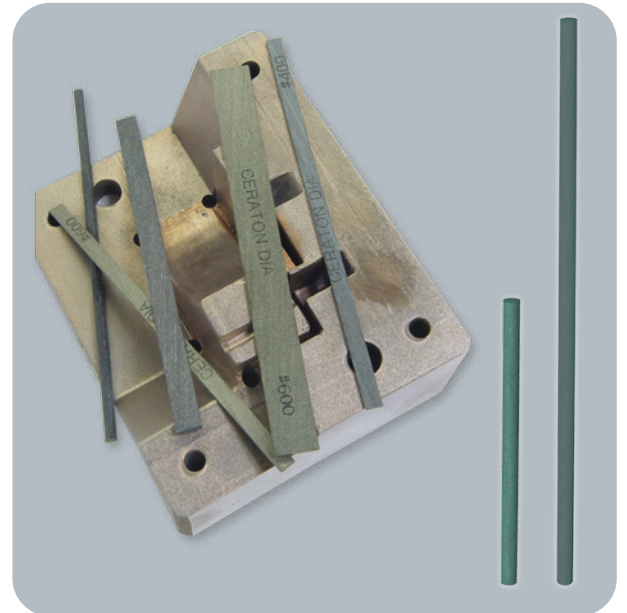
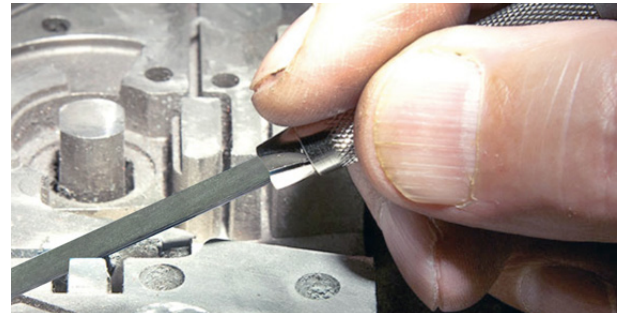
L (50mm)



L (100mm)



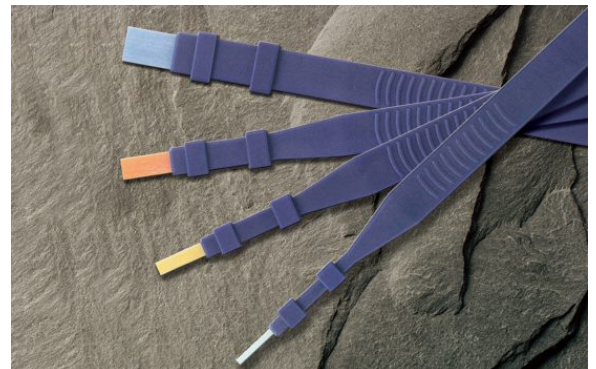
Dimensions mm	Col. Grit	Black 200	Green 400	Grey 800	
Ø 3.00 x 50		421 000 013	421 000 014	421 000 015	1
Ø 3.00 x 100		421 000 010	421 000 011	421 000 012	1



Hand supports for ceramic stones

Manual supports accept all our SSH and SSD ceramic stones.

Type	Width mm	(T) for stones thickness (mm)	Part No	
SP05	0.5	4.0	509 000 680	1
SP10	1.0	0.5~3.0	509 000 054	1
SP20	2.0	0.5~3.0	509 000 660	1
SP30	3.0	0.5~3.0	509 000 663	1
SP40	4.0	0.5~3.0	509 000 052	1
SP60	6.0	0.5~3.0	509 000 053	1
SP80	8.0	0.5~3.0	509 000 668	1
SP100	10.0	0.5~3.0	509 000 055	1
SP130	13.0	1.0~3.0	509 000 669	1
SP130L	13.0	2.0~6.0	509 000 681	1
SSH-R03	Ø 3 (round)	3	509 000 661	1



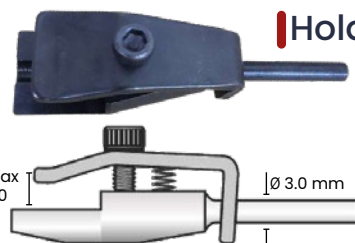
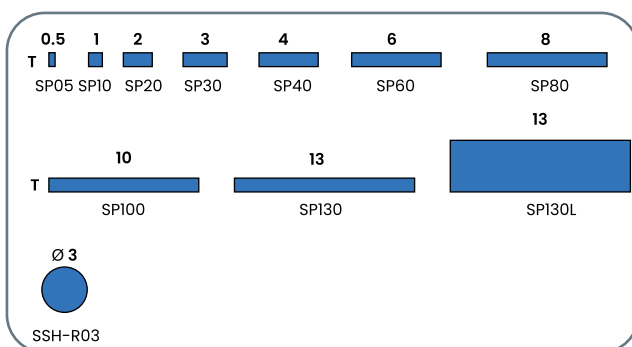
SP05



SP10
to
SP130L



SSH-R03



Holder machine Recipro

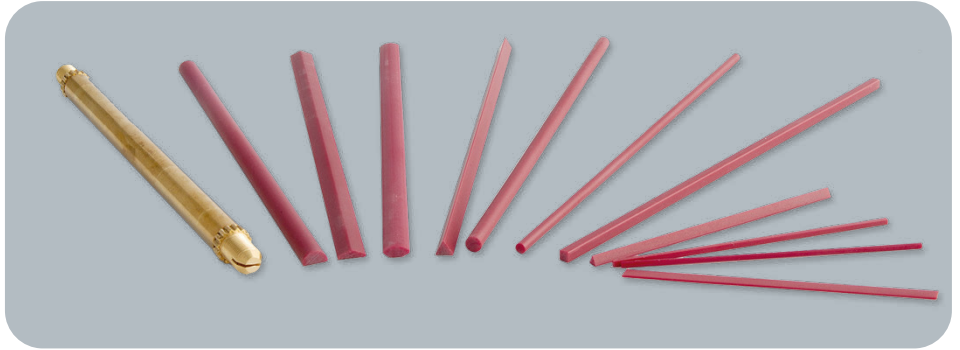
For SSH ceramic stones. Holds flat stones up to 8mm thick and round stones up to Ø 3mm.

PV-R
Part No. 460 000 666

Degussit stones & files

Ceramic Oxide stones are composed of a mixture of extremely resistant, hard crystals.

Long service life. Use on steel and carbide for deburring. Also recommended for glass, quartz and porcelain.

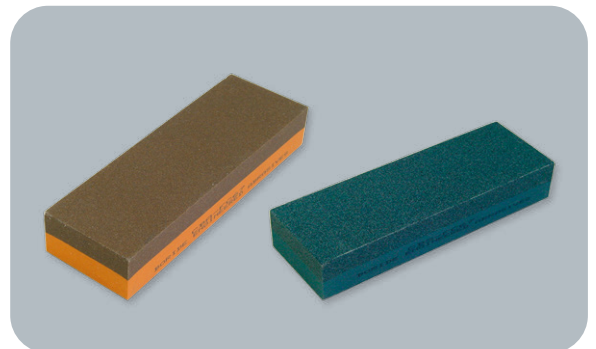


Shape	Dimensions (mm)	Grit	Part No		Shape	Dimensions (mm)	Grit	Part No	
	0,3 x 3 x 50	F	417 000 700			2 x 50	F	417 000 706	1
	4 x 100	F	417 000 701			3 x 100	F	417 000 707	1
	1 x 50	F	417 000 702			1 x 50	F	417 000 708	1
	2 x 100	F	417 000 703			2 x 100	F	417 000 709	1
	3 x 100	F	417 000 704			1,5 x 4 x 100	F	417 000 710	1
	1,5 x 5 x 100	F	417 000 705						
Degussit set (11 stones + 1 holder) (FOLLOW PHOTO)							F	417 000 711	1

Shape	Dimensions (mm)	Grit	Part No		Shape	Dimensions (mm)	Grit	Part No	
	4 x 100	F	417 000 715	1		4 x 100	F	417 000 727	1
	4 x 100	M	417 000 716	1		4 x 100	M	417 000 728	1
	6 x 100	F	417 000 717	1		6 x 100	F	417 000 729	1
	6 x 100	M	417 000 718	1		6 x 100	M	417 000 730	1
	8 x 100	F	417 000 719	1		8 x 100	F	417 000 731	1
	8 x 100	M	417 000 720	1		8 x 100	M	417 000 732	1
	4 x 100	F	417 000 721	1		3 x 6 x 100	F	417 000 733	1
	4 x 100	M	417 000 722	1		3 x 6 x 100	M	417 000 734	1
	6 x 100	F	417 000 723	1		6 x 8 x 100	F	417 000 735	1
	6 x 100	M	417 000 724	1		6 x 8 x 100	M	417 000 736	1
	8 x 100	F	417 000 725	1		3/0,5x15x100	F	424 000 002	5
	8 x 100	M	417 000 726	1					

Impregnated stones for deburring, sharpening and honing

Type	Dimensions(mm)	Quality	Part No.	
530-O	25 x 50 x 150	Aluminium oxide One side 120 grit One side 320 grit	421 000 576	1
530-S	25 x 50 x 150	Silicon Carbide One side 120 grit One side 320 grit	421 000 577	1



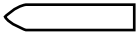
Arkansas stones

Extremely hard, fine grit polishing stones made from natural materials. Very long service life.

Use : With low-viscosity oil or water. Can be used dry for short periods. Used in mechanical engineering for highly advanced finishes. Absorbs oil slowly, so does not require pre-impregnation.

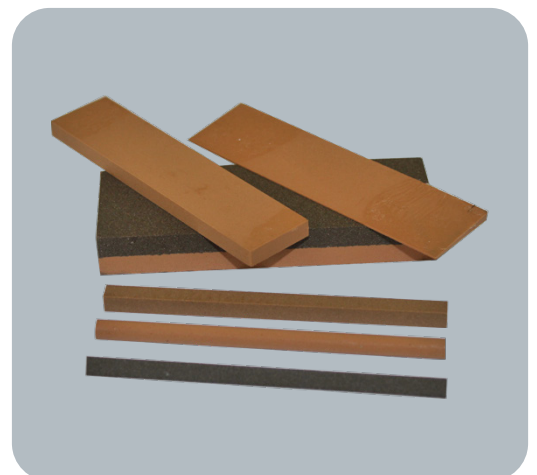
GRIT : UF



Shape	Dimensions (mm)	Type	Part No	Shape	Dimensions (mm)	Type	Part No	
 Triangular	75 x 9.5	USHF 133	417 001 005	 Oval	75 x 12.7 x 4.8	USHF 853	417 001 011	1
 Round	75 x 6.5	USHF 813	417 001 007	 Point	75 x 6.5	USHF 863	417 001 012	1
 Flat	75 x 9.5 x 3.2	USHF 823	417 001 008	 Knife blade	75 x 19 x 3.2	USHF 873	417 001 013	1
 Diamond	75 x 12.7 x 4.8	USHF 843	417 001 010	 Square	75x10x10	USHF-33	417 001 014	1

Set of impregnated polishing stones

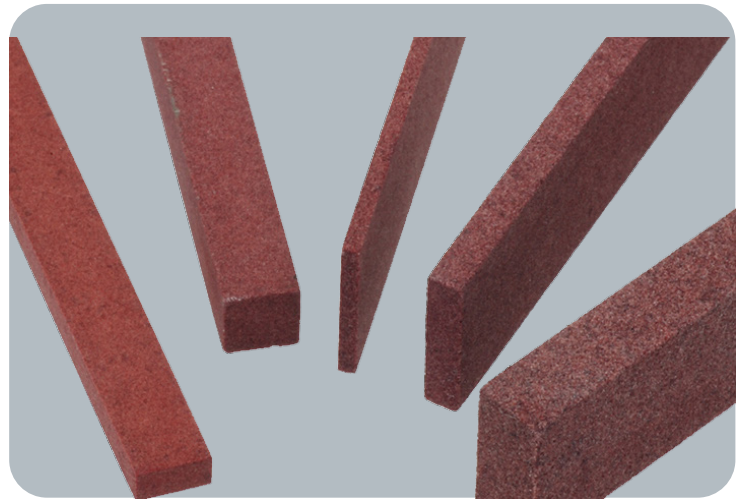
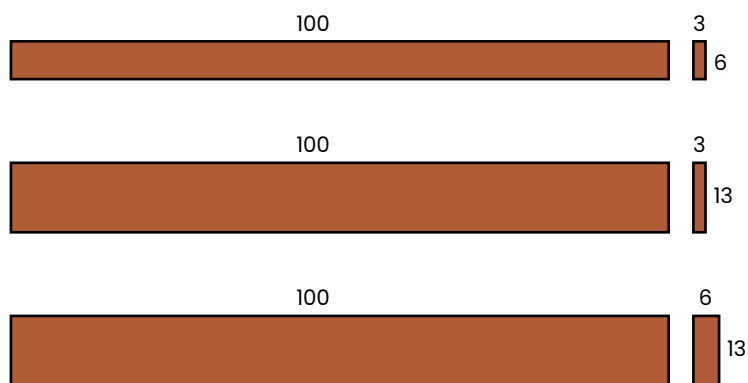
Type	Dimensions (mm)	Description	Part No.	
P-SET	Various	Set of 6 pre-impregnated stones for immediate use. For deburring, honing and sharpening..	417 001 050	1



EDM stones

These stones are the most effective for rapidly removing the hardest layer left by the electrical discharge machining (EDM) process.

Excellent results manually, and even better with our pneumatic, electric or ultrasonic filing equipment.

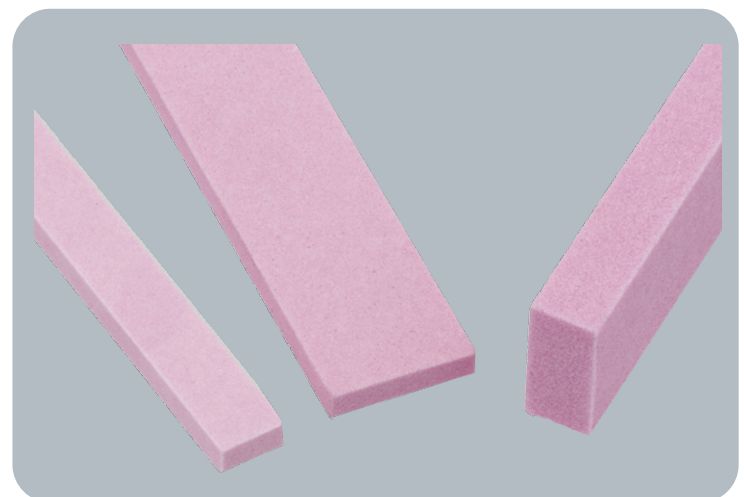
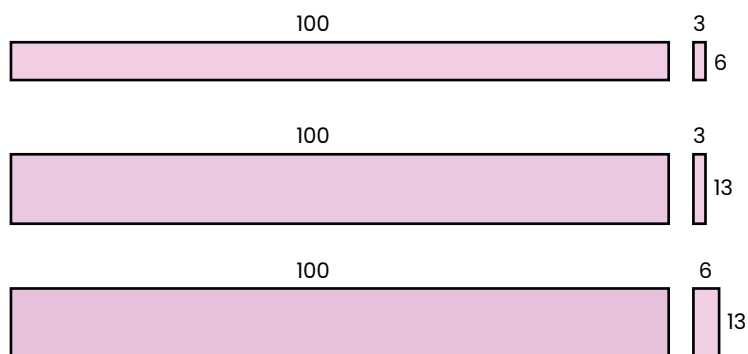


Grit/ dimensions	100x3x6 mm	100x3x13 mm	100x6x13 mm	
150	460 000 570	460 000 576	460 000 582	5
180	460 000 571	460 000 577	460 000 583	5
220	460 000 572	460 000 578	460 000 584	5
320	460 000 573	460 000 579	460 000 585	5
400	460 000 574	460 000 580	460 000 586	5
600	460 000 575	460 000 581	460 000 587	5

Fitting stones Pink

Made from premium alumina oxide powder.

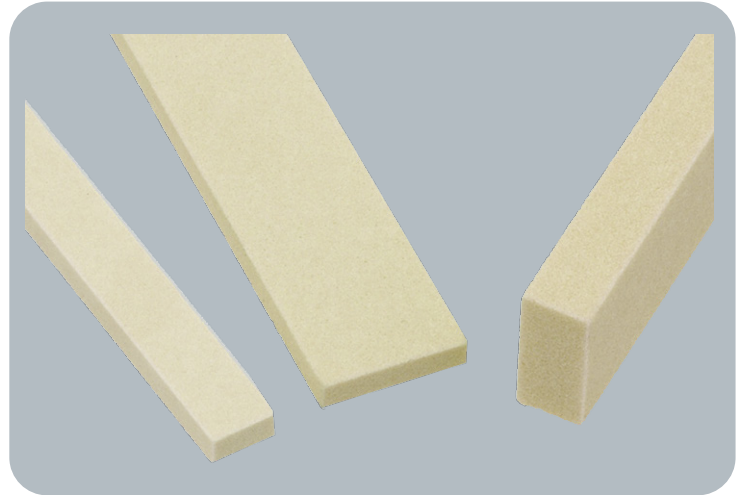
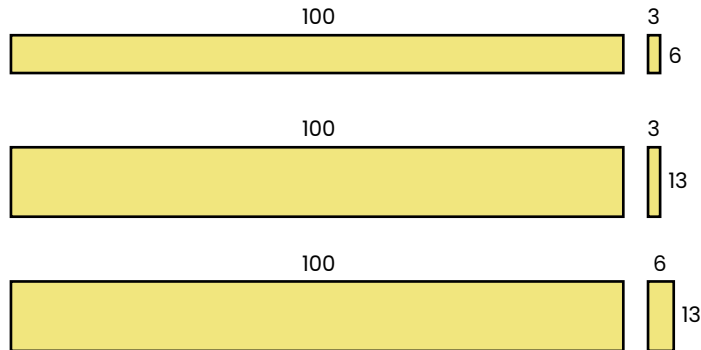
For intermediate surface preparation before using our abrasive finishing stones.



Grit/ dimensions	100x3x6 mm	100x3x13 mm	100x6x13 mm	
120	460 000 590	460 000 595	460 000 600	5
150	460 000 591	460 000 596	460 000 601	5
220	460 000 592	460 000 597	460 000 602	5
320	460 000 593	460 000 598	460 000 603	5
400	460 000 594	460 000 599	460 000 604	5

Finishing abrasive stones

Based on fine alumina powder, these stones are suitable for scratch-free metal finishing. Produces a final result suitable for polishing with diamond paste if required.



Grit	100x3x6	100x3x13	100x6x13	
400	460 000 606	460 000 611	460 000 616	5
600	460 000 607	460 000 612	460 000 617	5
800	460 000 608	460 000 613	460 000 618	5
1000	460 000 609	460 000 614	460 000 619	5
2000	460 000 610	460 000 615	460 000 620	5

Self-adhesive diamond sheets.

Grits	Dimensions mm	Part No.	
120	100x50	420 000 600	1
150	100x50	420 000 601	1
200	100x50	420 000 602	1
300	100x50	420 000 603	1
400	100x50	420 000 604	1
600	100x50	420 000 605	1
800	100x50	420 000 606	1
1200	100x50	420 000 607	1
1800	100x50	420 000 608	1

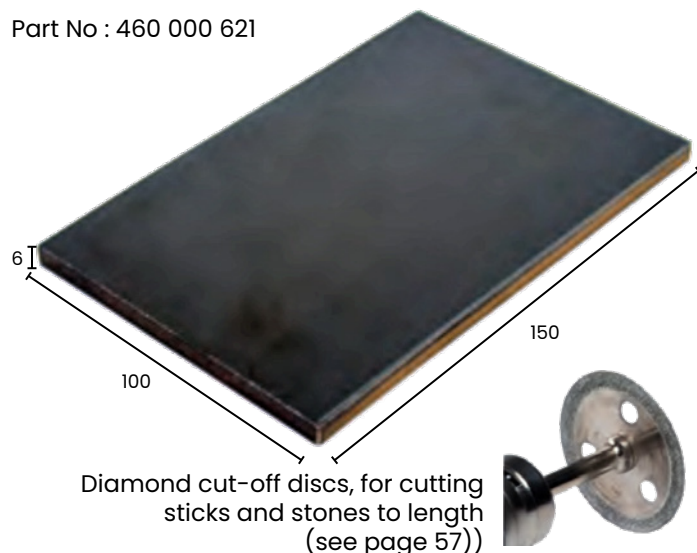
Diamond sheets are used to finish complex shapes. Self-adhesive, they are easy to fit. They can easily be cut with a pair of scissors and fitted to a suitable support.



Hard paper cutting

The laminated paper cuts are the perfect carriers for self-adhesive diamond films. The cuts are flat, do not distort and last forever. They let you build a perfect tool for dressing and contouring tools, ceramic fibre files and polishing stones.

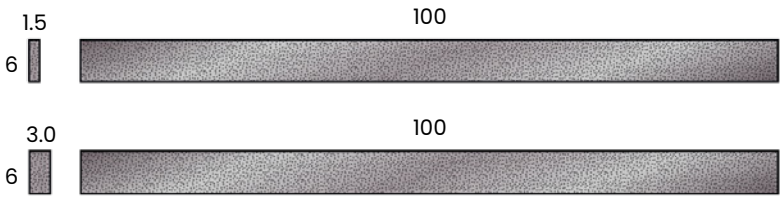
Part No : 460 000 621



Sintered diamond stones

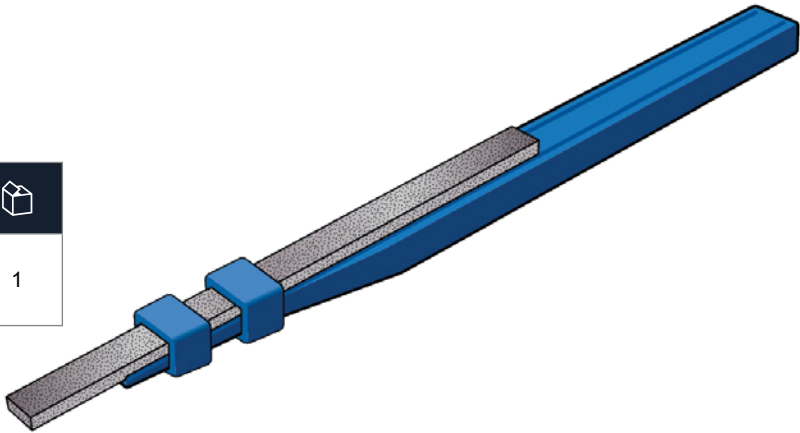
Polishing sintered diamond stones.

Grit	100x6x1.5 mm	100x6x3.0 mm	
400	460 000 758	460 000 764	1
600	460 000 759	460 000 765	1
800	460 000 760	460 000 766	1
1000	460 000 761	460 000 767	1
2000	460 000 762	460 000 768	1
3000	460 000 763	460 000 769	1



SP holder

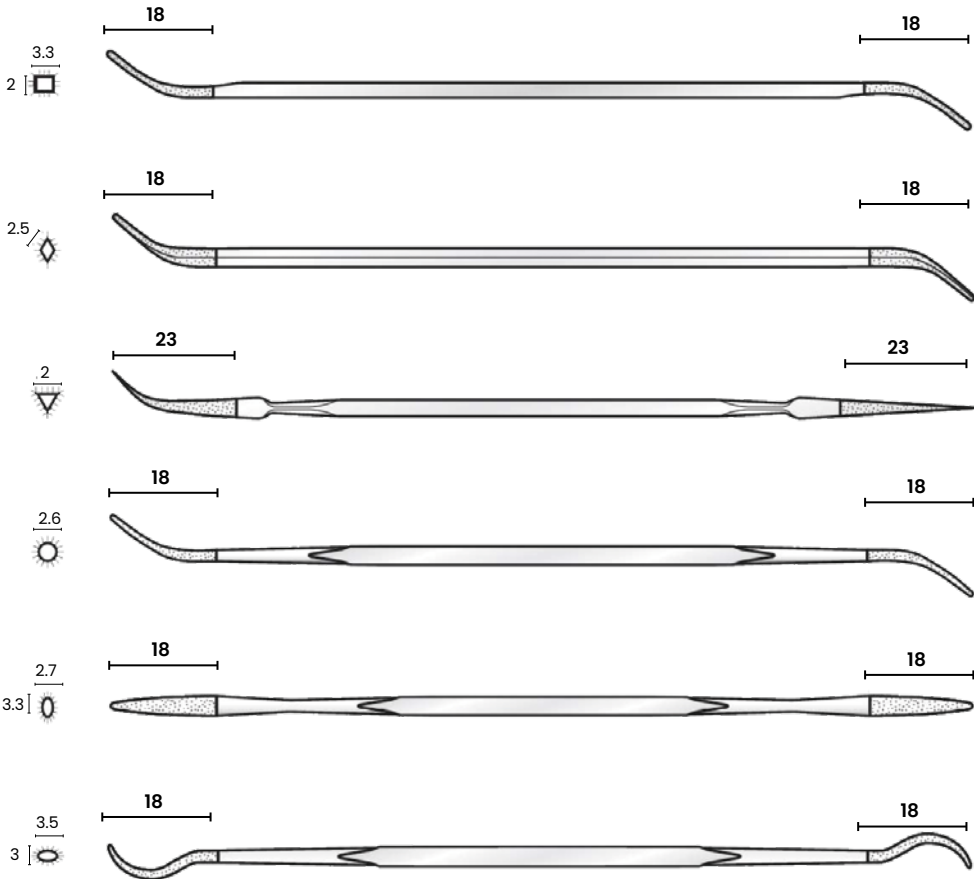
Type	Width mm	(T) for sticks thickness (mm)	Part No	
SP60	6.0	0.5~3.0	509 000 053	1



Diamond riffler Satidia duo

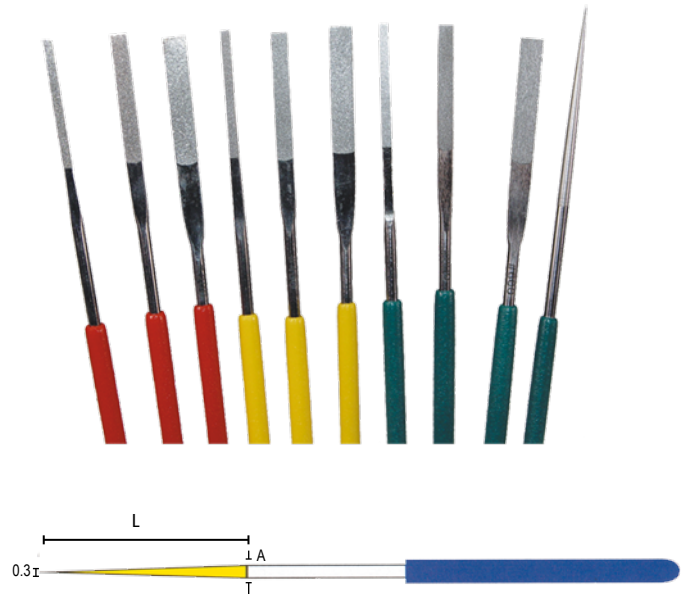
Coated on 2 sides. Medium grit.
Total length 148 mm

Shape (Ref)	Part No	
Square (R591)	460 000 774	1
Diamond (R592)	460 000 775	1
Triangular (R593)	460 000 776	1
Round (R594)	460 000 777	1
Oval flat (R595)	460 000 778	1
Oval (R596)	460 000 779	1



Mini conical diamond hand files

Width mm	L x A mm	Grit	Part No.	
FLAT width 2 mm				
2	30 x 1,3	200	420 000 101	1
2	30 x 1,3	400	420 000 102	1
2	30 x 1,3	600	420 000 103	1
FLAT width 4 mm				
4	30 x 1,3	200	420 000 104	1
4	30 x 1,3	400	420 000 105	1
4	30 x 1,3	600	420 000 106	1
FLAT width 6 mm				
6	30 x 1,3	200	420 000 107	1
6	30 x 1,3	400	420 000 108	1
6	30 x 1,3	600	420 000 109	1
ROUND Dia 3 mm - Coating 50 mm				
3	-	200	420 000 111	1
3	-	400	420 000 112	1
3	-	600	420 000 113	1
Set of 10 files			420 000 110	1
9 flat + 1 round 600 grit				



Diamond needle files Satidia

Shape	Dimensions mm	D 91	D 126	D 181	
	Flat - 2112				
	5 x 1,3 *	420 000 201	420 000 202	420 000 203	1
	Flat - rounded corners - 2112r				
	5 x 1,3	420 000 204	420 000 205	420 000 206	1
	Flat straight edge - 2122				
	5 x 1,3	420 000 207	420 000 208	420 000 209	1
	Flat pointed - rounded corners - 2122r				
	5 x 1,3	420 000 210	420 000 211	420 000 212	1
	Triangular - 2132				
	3,5 *	420 000 213	420 000 214	420 000 215	1
	Square - 2142				
	2,4 *	420 000 216	420 000 217	420 000 218	1
	Half round - 2152				
	5 x 2 *	420 000 219	420 000 220	420 000 221	1
	Round - 2162				
	Ø 3 mm *	420 000 222	420 000 223	420 000 224	1
	Knife edge - 2172				
	5 x 2	420 000 225	420 000 226	420 000 227	1
	Diamond - 2182				
	5 x 2	420 000 228	420 000 229	420 000 230	1
	Oval flat - 2192				
	5 x 2	420 000 231	420 000 232	420 000 233	1
	Triangle flat - 2102 t				
	5 x 2	420 000 224	420 000 235	420 000 236	1
	SET				
	5 files in set (*)	420 000 237	420 000 238	420 000 239	1
	Handle type 2000				
	Handle PVC		419 000 034		1

Description	Dim (mm)
Shank	Ø 3 mm
Total length	140 mm
Coating	70 mm

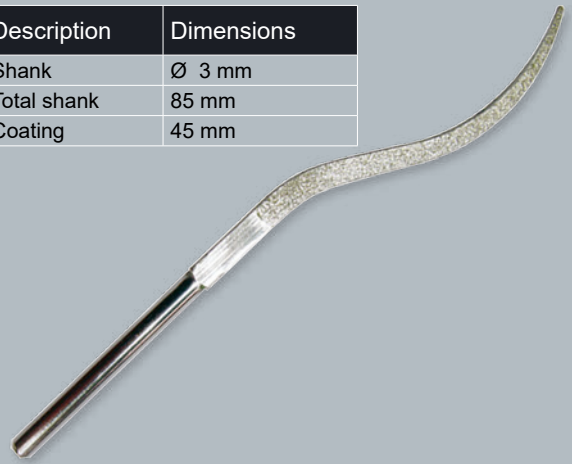


D 181
Coarse
D 126
Standard
D 91
Fine

Diamond riffler Satidia

Profile	Dimensions	Grits	Part No	
	Flat			
	4 x 1,5	D 91	420 000 250	1
		D 126	420 000 251	1
		D 181	420 000 252	1
	Round			
	Ø 2,3	D 91	420 000 253	1
		D 126	420 000 254	1
		D 181	420 000 255	1
	Cylinder universal			
	4,7 x 2,3	D 91	420 000 256	1
		D 126	420 000 257	1
		D 181	420 000 258	1
	Square			
	2,6 x 2,6	D 91	420 000 259	1
		D 126	420 000 260	1
		D 181	420 000 261	1

Description	Dimensions
Shank	Ø 3 mm
Total shank	85 mm
Coating	45 mm



D 181	D 126	D 91
Coated	Standard	Fine

Diamond hablis files

Diamond files supplied with ergonomic handle

Profile	Dimensions	Part No	
	Round		
	7 / 1,5	420 000 270	1
	Flat		
	10 x 3	420 000 271	1
	Triangular		
	10	420 000 272	1
	Square		
	5	420 000 273	1
	Half round		
	3,5 x 11	420 000 274	1
Set of 5 files		420 000 275	1

Description	Dimensions
Shank	Ø 6x6 mm
Total length	215 mm
Coating	100 mm
Grit	D 126

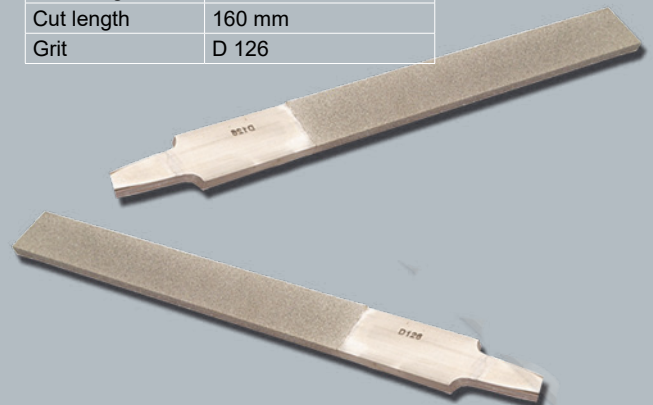


Diamond workshop files Satidia

Diamond workshop files are manufactured in a HARD CHROME version for excellent durability. They are supplied in D 126 grit (other grits on request). Delivered with handle

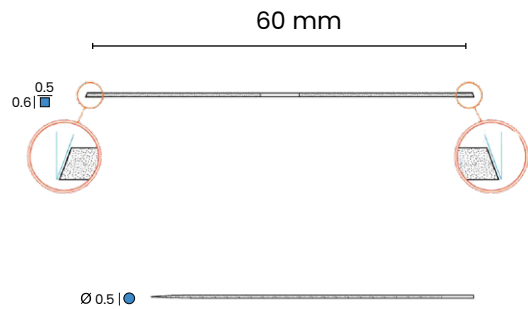
Shape	Dimensions	Grits	Part No	
	Flat - 6112			
	20 x 5	D126	420 000 002	1
	Triangular - 6132			
	14	D 126	420 000 006	1
	Square - 6142			
	8	D 126	420 000 010	1
	Half round - 6152			
	21 x 6	D 126	420 000 014	1
	Round - 6162			
	8	D 126	420 000 018	1

Description	Dimensions
Total length	250 mm
Cut length	160 mm
Grit	D 126



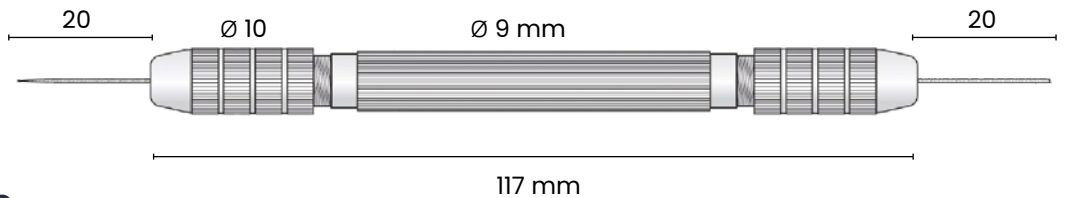
Tiny diamond files

Shape	Grit	Part No	
Round	400	460 000 670	1
Round	600	460 000 671	1
Square	400	460 000 672	1
Square	600	460 000 673	1



Polyvalent holder

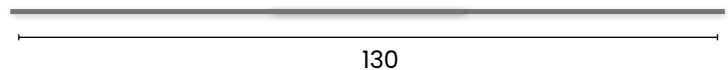
Type	Part No	
SSH-SU	509 000 662	1



Diamond wire flexible

Diameter mm	Grit	Part No	
0,4	D 30	461 000 001	1
0,5	D 54	461 000 002	1
0,6	D 91	461 000 003	1
0,7	D 91	461 000 004	1
0,8	D 91	461 000 005	1
0,9	D 91	461 000 006	1
1,0	D 91	461 000 007	1
1,5	D 91	461 000 008	1
2,0	D 91	461 000 009	1

Description	Dimensions
Length	130 mm
Coating	70 mm



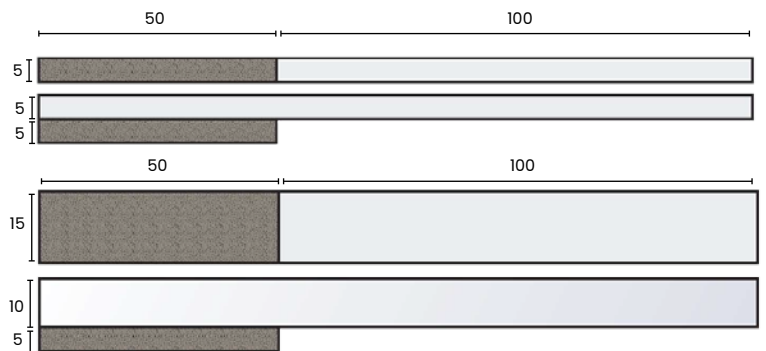
Diamond and borazon filers

Diamonds uses :

carbide metal
ceramics
glass
rubber
plastics
nonferrous metals
low-hardness steels and
hardenable hard materials

Borazon uses :

Tool Steels
Die Steels
Ball Bearing Steels
Rustproof Steels
Iron Alloys (Incl. Soft)
Hard Facing
Hard Cobalt-Based or
Nickel-Based High
Temperature Materials
Super Nickel Alloys



Diamond

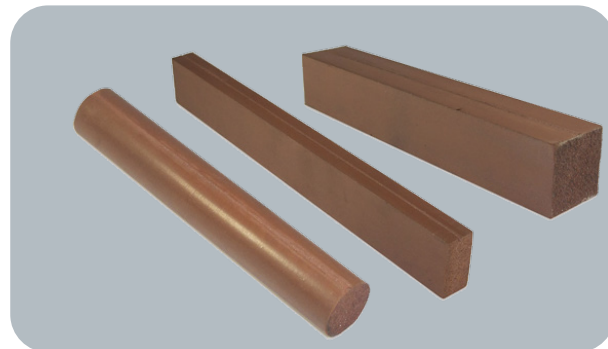
Dimensions mm	Grit	Part No	
150x05	600	460 000 676	1
150x05	800	460 000 677	1
150x05	1000	460 000 678	1
150x15	600	460 000 679	1
150x15	800	460 000 680	1
150x15	1000	460 000 681	1

Borazon

Dimensions mm	Grit	Part No	
150x05	600	460 000 682	1
150x05	800	460 000 683	1
150x05	1000	460 000 684	1
150x15	600	460 000 685	1
150x15	800	460 000 696	1
150x15	1000	460 000 687	1

Cratex® sticks

Soft rubber sticks made from silicon carbide powder. Oil-resistant. Recommended for deburring and satin-finishing work on cast-iron, ferrous and non-ferrous metals, precious metals, glass and plastics.



Shape	Type	Dimensions/ Grit	C - Dark green	M - Brown	F - Red	XF - Light green	
	6202	6,0 x 6,0 x 150	417 005 149	417 005 150	417 005 151	417 005 152	10
	6404	12,5 x 12,5 x 150	417 005 153	417 005 154	417 005 155	417 005 156	10
	6606	18,0 x 18,0 x 150	417 005 157	417 005 158	417 005 159	417 005 160	10
	46	Ø 6,0	417 005 201	417 005 202	417 005 203	417 005 204	10
	66	Ø 9,5	417 005 209	417 005 210	417 005 211	417 005 212	10
	86	Ø 12,5	417 005 213	417 005 214	417 005 215	417 005 216	10
	106	Ø 16,0	417 005 217	417 005 218	417 005 219	417 005 220	10
	6801	25,0 x 3,0 x 150	417 005 173	417 005 174	417 005 175	417 005 176	10
	6803	25,0 x 9,5 x 150	417 005 181	417 005 182	417 005 183	417 005 184	10

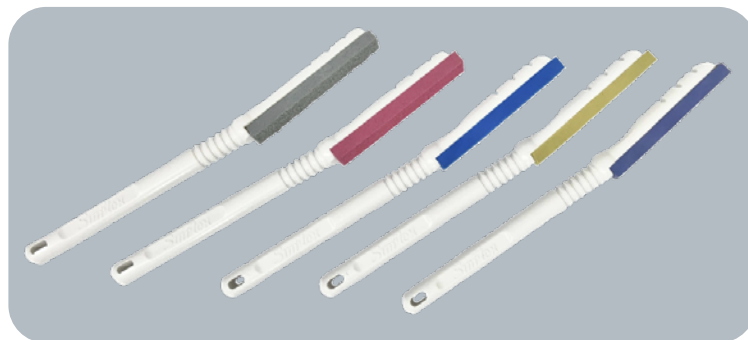
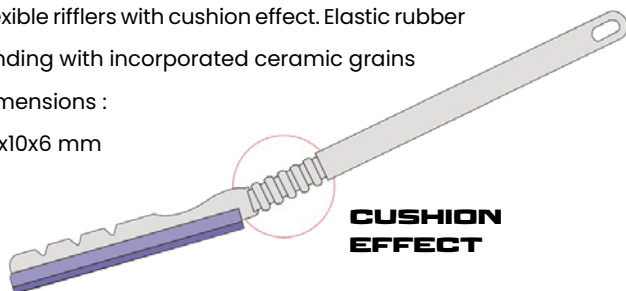
Other dimensions on request.

C-Flex Rifflers

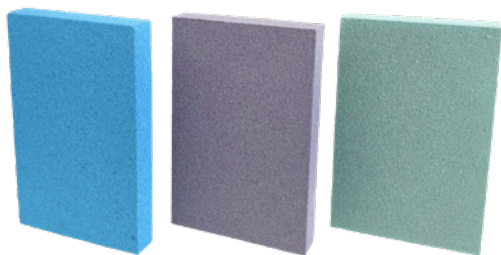
Flexible rifflers with cushion effect. Elastic rubber binding with incorporated ceramic grains

Dimensions :

70x10x6 mm



Grit 46 (grey)	Grit 80 (red)	Grit 120 (blue)	Grit 220 (yellow)	Grit 320 (violet)	
460 000 790	460 000 791	460 000 792	460 000 793	460 000 794	5
Set of 5 rifflers (1 in each grit)				460 000 795	1



C-Flex Rubber Blocs

Elastic rubber binding with incorporated ceramic grains.
Can be re cut according to needs
Dimensions: 80x50x10 mm

Grit 46 (grey)	Grit 80 (red)	Grit 320 (violet)	
460 000 796	460 000 797	460 000 798	3
Set of 3 blocs (1 in each grit)		460 000 799	1

SATIFLEX Abrasive rubbers

Ideal for dirt removal, hairline finishing and deburring stainless steel, aluminum, copper and so on. Even better polished surface for wet polishing using water or grinding liquid.

Grit	Dimensions mm	Part No.	
36	80x50x20	460 000 726	1
60	80x50x20	460 000 727	1
120	80x50x20	460 000 728	1
240	80x50x20	460 000 729	1



Satiflex self-adhesive sheets

Rubber-bonded abrasive sheets on adhesive backing. Cut to the desired shape and glue to a metal, wood or felt backing of your choice, or to our self-adhesive disc holders.

Dimensions 100 x 100 mm – Thickness 2mm

Type	Grit	Part No	
FS-46 (grey)	46	460 000 720	1
FS-80 (pink)	80	460 000 721	1
FS-120 (blue)	120	460 000 722	1
FS-220 (green)	220	460 000 723	1
FS-320 (purple)	320	460 000 724	1
FS-500 (brown)	500	460 000 725	1



Silicon carbide abrasive cords

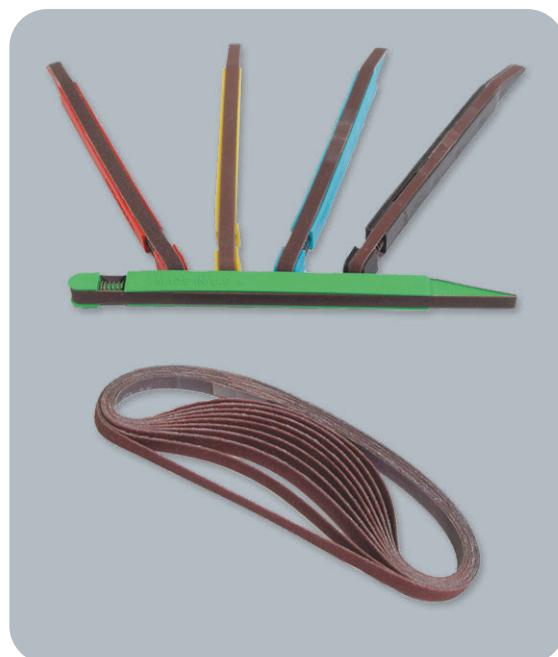
Abrasive cords for working in hard-to-reach places. Low clogging. Sold in reels + or - 15 meters

Type	Dimensions	Profile	Grit	Part No.	
				SIC	
01	1,6 x 0,45	flat	180	417 000 157	1
56	2,4 x 0,45	flat	180	417 000 175	1
66	Ø 0,31	round	280	417 000 158	1
55	Ø 0,46	round	200	417 000 159	1
54	Ø 0,76	round	200	417 000 160	1
53	Ø 1,02	round	180	417 000 161	1
52	Ø 1,40	round	150	417 000 166	1
50	Ø 1,78	round	180	417 000 167	1
49	Ø 2,08	round	120	417 000 168	1
48	Ø 2,38	round	150	417 000 179	1
47	Ø 3,18	round	120	417 000 171	1



Abrasive belt and holder

Type	Width	Grit	Part No	
Abrasive belt holder	7,0 mm	-	417 000 500	1
	13,0 mm	-	417 000 501	1
	19,0 mm	-	417 000 502	1
Abrasive belt (corundum cloth)	7,0 mm	120	417 000 503	10
	7,0 mm	240	417 000 504	10
	7,0 mm	320	417 000 505	10
	7,0 mm	400	417 000 506	10
	7,0 mm	600	417 000 507	10
	13,0 mm	120	417 000 509	10
	13,0 mm	240	417 000 510	10
	13,0 mm	320	417 000 511	10
	13,0 mm	400	417 000 512	10
	13,0 mm	600	417 000 513	10
	19,0 mm	120	417 000 515	10
	19,0 mm	240	417 000 516	10
	19,0 mm	320	417 000 517	10
	19,0 mm	400	417 000 518	10
	19,0 mm	600	417 000 519	10



Abrasive paper

FA-PWS: SIC waterproof paper backing (black)
Dimensions 230x280mm

Grits	FA-PWS	
240	108 000 489	50
320	108 000 491	50
400	108 000 492	50
600	108 000 494	50
800	108 000 495	50
1000	108 000 496	50
1200	108 000 497	50
1500	108 000 498	50
2000	108 000 499	50
2500	108 000 500	50
3000	108 000 501	50
5000	108 000 502	50
7000	108 000 503	50

FA-P: Extraflex abrasive cloth backing (resin-bonded corundum)
Dimensions 230x280mm

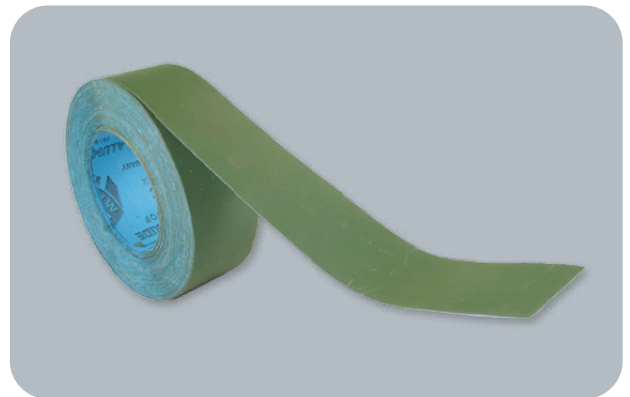
Grits	FA-P	
60	108 000 461	50
80	108 000 462	50
100	108 000 463	50
120	108 000 464	50
150	108 000 465	50
180	108 000 466	50
220	108 000 467	50
240	108 000 468	50
320	108 000 469	50
400	108 000 470	50



RPI waterproof abrasive paper roll

High-quality green corundum flexible paper. Waterproof.
50m roll

Grits	Part No	
800	108 000 454	1
1000	108 000 455	1
1200	108 000 456	1
1500	108 000 457	1



Extraflex abrasive cloth rolls

High-quality, extra-flexible, resin-bonded corundum abrasive cloth roll.
50m roll.

Grits	Width 25 mm	Width 40 mm	Width 50 mm	
60	417 000 600	417 000 620	417 000 607	1
80	417 000 601	417 000 621	417 000 608	1
120	417 000 616	417 000 622	417 000 617	1
150	417 000 602	417 000 623	417 000 609	1
180	417 000 603	417 000 624	417 000 610	1
240	417 000 604	417 000 625	417 000 611	1
320	417 000 605	417 000 626	417 000 612	1
400	417 000 606	417 000 627	417 000 613	1
600	417 000 614	417 000 628	417 000 615	1



RNA abrasive nylon workshop rolls

Nylon abrasive workshop rolls are used for satin-finishing and surface preparation operations on a wide range of materials. They can be used with or without lubricant (oil, water, polish).

Dimensions 120 mm x 10 m.

A M-80	A M-120	A F-180	A VF-320		
112 000 129	112 000 130	112 000 131	112 000 132		1
S F-180	S VF-320	S UF-600	S XF-1500		
112 000 134	112 000 135	112 000 136	112 000 142		1



Nylon abrasive sheets FNA

Nylon abrasive workshop sheets are used for satin-finishing and surface preparation operations on a wide range of materials. They can be used with or without lubricant (oil, water, polish).

Dimensions. 150x230 mm.

A G -80	A M-120	A F-180	A VF-320		
114 060 300	114 060 301	114 060 302	114 060 303		10
S F-180	S VF-320	S UF-600	S MF-800	S XF-1500	
114 060 305	114 060 306	114 060 308	114 060 309	114 060 311	10
White					
114 060 310					10

All-grain assortment. Part No 114 060 315.



Hand Pad and Croco mandrel

Our hand pad's surface holds the nylon abrasive sheets in place for more comfortable and precise flat work.

The croco mandrel transforms nylon abrasive sheets into a rotary tool for satin-finishing operations.

Description	Part No	
Manual pad holder for nylon abrasive	112 000 706	1
6.35mm croco mandrel	112 000 720	1



Felt sticks, pads and belts

Sticks

Dimensions mm	Length mm	Hard	Flexible	
6 x 6	150	423 000 145	423 000 146	10
8 x 8	150	423 000 111	423 000 114	10
10 x 10	150	423 000 112	423 000 115	10
12 x 12	150	423 000 113	423 000 116	10

Pads

Dimensions mm	Thickness mm	Hard	Average	
250x250	6	423 000 117	423 000 122	1
250x250	10	423 000 118	423 000 123	1
250x250	12	423 000 119	423 000 124	1
250x250	19	423 000 120	423 000 125	1

Belts

Length x width mm	Thickness mm	Hardness	Part No	
1000x100	1.5	0.35	206 000 151	1
1000x100	3.0	0.36	206 000 152	1



Polishing woods

Soft quality: Ideal for fine diamond polishing paste. Produces bright & polished surfaces.

Hard quality: Very suitable for pre-polishing and for operations requiring high stock removal.

Dimensions mm	Length mm	Part No		
		SOFT	HARD	
4 x 4	150	-	423 000 004	10
6 x 6	150	423 000 003	423 000 006	10
4 x 6	150	423 000 007	423 000 010	10
8 x 12	150	423 000 008	423 000 011	10
8 x 19	150	423 000 009	423 000 012	10
Ø 3,0	150	423 000 013	423 000 016	10
Ø 4,5	150	423 000 014	423 000 017	10
Ø 6,5	150	423 000 015	423 000 018	10



TEROSON SB2444 special adhesive

Quickly and securely glues the polishing felts to a flexible backing (rubber, wood, metal, cardboard, leather...).

Description	Part No	
Glue Tero 58 gr	423 000 144	1



Soft coton cleaning sticks

Allows to clean narrow holes after polishing operation.
Available in 2 versions. Coton alone or coton and nylon.
(sold in pack of 40 units)

Quality	Dimensions mm	Part No	
Soft Coton	Ø 4-5mm x 170mm	423 000 500	1
Soft coton / Nylon brush	Ø 4-5mm x 170mm	423 000 501	1



Polishing compound in bars

Range of polishing bars for preparation, polishing, honing and superfinishing of all materials. For use with our felt polishing tools or polishing discs.

(see Polishing catalog).



Quality	Use	Dimensions (mm)	Weight	Part No.	
Vornex	Roughening all metals. Removes marks and scratches on all common metals. Leaves a matt surface. For finishing, use a finishing compound.	100x33x30	130 gr	207 000 200	1
Green	Polishing and fine brightening of very hard metals, chrome, chrome cobalt and platinum	100x33x30	130 gr	207 000 201	1
White	Very fine polishing and brightening of all metals	100x33x30	130 gr	207 000 202	1
Grey	Stainless steel brightness	100x33x30	130 gr	207 000 203	1
Yellow	Polishing and brightening of non-ferrous and soft metals, copper, bronze, zamac, aluminum alloys, plastic materials and coatings	100x33x30	130 gr	207 000 204	1
Blue	Superfinish for all metals	100x33x30	130 gr	207 000 205	1

TETRABOR honing and polishing compounds

Highly compact superfinishing paste based on boron carbide powder. The extreme hardness of the media enables it to work on titanium, special steels, ceramics and synthetic materials (Teflon). Water-soluble. 100 ml tube

Grits	Part No	
F 100 (150-106 µm)	903 000 030	1
F 220 (75-45 µm)	903 000 031	1
F 320 (49-16,5 µm)	903 000 032	1
F 400 (32-8 µm)	903 000 033	1
F 600 (19-3 µm)	903 000 034	1
F 800 (14-2 µm)	903 000 035	1
F 1200 (7-1 µm)	903 000 036	1



SM honing and polishing compounds

Highly creamy microcrystalline paste for untempered steels and aluminum, available in 50ml tubes or 1kg pots.

Grit µm	Grade	Grit	Capacity	Part No.	
50 ml TUBES					
5 - 8	SF	800	50 ml	423 000 103	1
10 - 15	F	500	50 ml	423 000 104	1
30 - 50	G	320	50 ml	423 000 105	1
80 - 100	SG	150	50 ml	423 000 106	1
1 KG CAN					
5 - 8	SF	800	1 kg	423 000 150	1
10 - 15	F	500	1 kg	423 000 108	1
30 - 50	G	320	1 kg	423 000 151	1
80 - 100	SG	150	1 kg	423 000 110	1



SP diamond compound

Diamond compounds with very high injector concentration. Soluble in water and oil. These very creamy compounds offer very high resistance to high temperatures, enabling faster, more efficient working. Combine with our thinner to regenerate the compound and ensure even metal removal.

Grit μm	Grit	Capacity	Part No.	
0.25 μ	-	5 ml	421 000 250	1
1 μ	1600	10 ml	421 000 258	1
3 μ	1400	10 ml	421 000 259	1
6 μ	1200	10 ml	421 000 260	1
9 μ	1000	10 ml	421 000 261	1
15 μ	800	10 ml	421 000 262	1
30 μ	600	10 ml	421 000 263	1
45 μ	320	10 ml	421 000 267	1
J 3001 thinner for diamond paste 180 ml			421 000 280	1



Metal Polish compound

Cream for brightening, cleaning, maintaining, restoring and preserving precious and non-ferrous metals. Contains a powerful deoxidizer for copper, brass and silver. Repassivates stainless steel. Also recommended for hard synthetic materials.

Description	Part No	
Metal Polish (125 ml tube)	903 000 001	1
Metal Polish (1 kg can)	903 000 002	1



Plastic Polish compound

Practical and versatile product for removing scratches from hard plastic surfaces.

Two sizes available: 1000 ml can or 125 ml tube.

Applications :For polishing non-granular hard plastics, plexiglass and polyester.

Description	Part No	
Hard Plastic Polish (125 ml tube)	903 000 016	1
Hard Plastic Polish (1 kg can)	903 000 017	1



Acrylic glass repair set

Effectively removes even deep scratches from acrylic glass (Plexiglass). Quick and easy to use. Includes polishing cloth and special emery papers.

Description	Part No	
Quixx repair set (50 gr)	903 000 023	1



Vienna chalk

Vienna limestone is an excellent cleaning product for molds that have been polished with diamond paste up to 6μ. After the final polishing step, sprinkle into the mold and wipe dry with polishing wool.

It's also an excellent solution for the maintenance of special steels, chrome, brass, copper, nickel and aluminum. For this use, sprinkle onto a damp cloth and treat the surface. Then wipe vigorously with a soft, dry cloth.

Description	Capacity	Part No.	
Vienna chalk	125 grams	423 000 152	1
Polishing wool	100 g bag	424 000 008	1



Ouator

Absorbent cotton impregnated with polishing paste. For a perfect, high gloss finish on aluminum, metals and plastics. Reusable wadding.

Description	Part No	
Ouator A (aluminium) - 250gr tin	903 000 200	1
Ouator M (metals) - 250gr tin	903 000 201	1
Ouator P (plastics) - 250gr tin	903 000 202	1



Cotton protective gloves

100% Cotton, white, soft with reinforced inner protection.

Description	Part No	
Cotton gloves (pair)	423 000 155	10



Protective cream

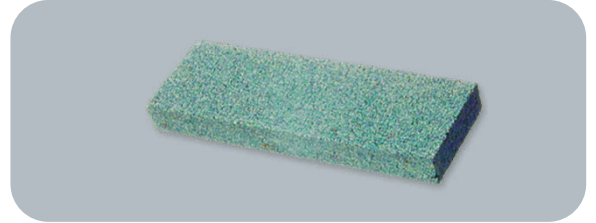
PR88 cream creates a dry, elastic and resistant protective film that stops dirt settling on hands. Simply remove with water, without soap. You'll leave no fingerprints or smudges on your delicate work, and your hands will be clean and soft again after mechanical or polishing work. Contains no silicone or preservatives, and has been clinically tested under dermatological control.

Description	Part No	
PR 88 - 105 ml	903 000 100	1
PR88 - 1 liter	903 000 101	1



Secateur sharpening stone

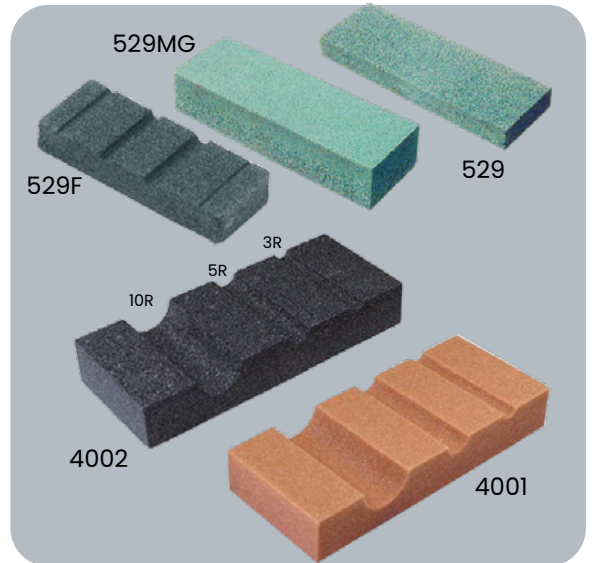
Description	Part No	
Green silicon carbide secateur stone 10x22x75	413 000 028	1



Dressing stones

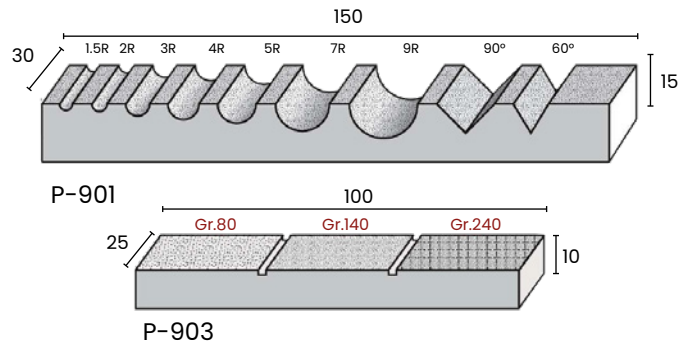
Type	Dimensions (mm)	Description	Part No.	
529	75 x 25 x 8	Sic medium grit	413 000 009	1
529 MG	75 x 25 x 15	Double-sided Sic coarse grit Sic medium grit	413 000 010	1
529 F	90 x 35 x 15	Dressing stone with 4 grooves (2,3,5 & 6mm) for refreshing and shaping with good surface finish	413 000 211	1
4001	120 x 50 x 20	60-grit alumina base for dressing soft, elastic-bonded abrasive grinding stones	460 000 730	1
4002	120 x 50 x 20	SIC 60 grit base for dressing harder mounted grinding stones	460 000 731	1

(dressing at max 15,000 rpm)



Diamond dressing stones

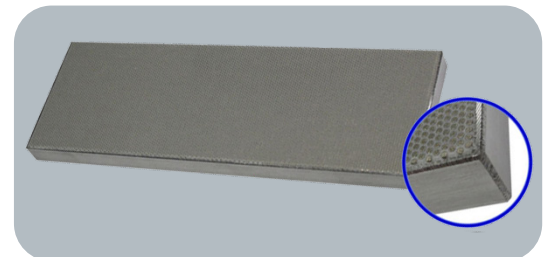
Type	Description	Part No	
P-901	Grooved dresser stone gr 120	460 000 734	1
P-903	3-grit dressing stone	460 000 736	1



Diamond softening stones

Mounted on a plastic stud with a one-piece aluminum base for stability

Type	Dimensions (mm)	Description	Part No.	
P-DIA	50 x 150	Diamond-coated D126-grain stone on 10mm-thick aluminium holder.	417 001 100	1

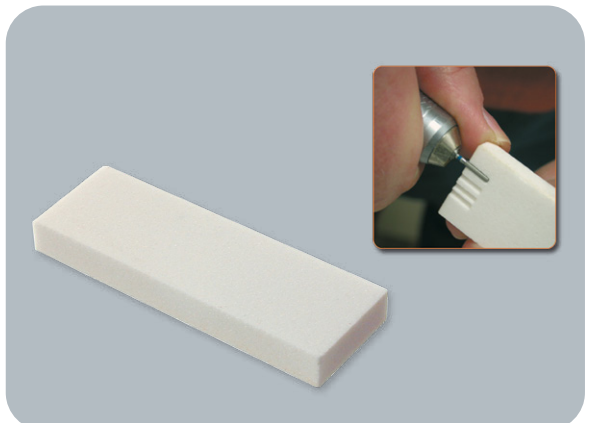


Cleaning stones for diamond tools

Type	Dimensions (mm)	Description	Part No.	
529D	75 x 25 x 8	White stone for cleaning galvanically bonded diamond instruments	410 000 016	1
529S	100 x 15 x 15	White stone for cleaning sintered diamond instruments and profiling diamond stones and polishers.	410 000 017	1

How to use

529 cleaning stones should be soaked in water before use for best results. Then run the diamond tools at medium speed and pressure.



Ceramic blade scrapers

Ceramic blade scraper.

High-tech tool. The ceramic blade is much more durable than a conventional steel blade, guaranteeing precise deburring of plastics, steels and non-ferrous metals.

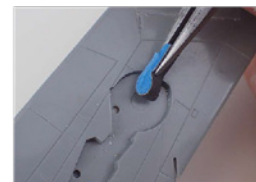
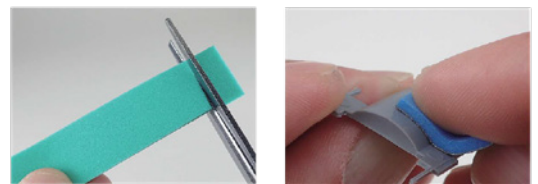
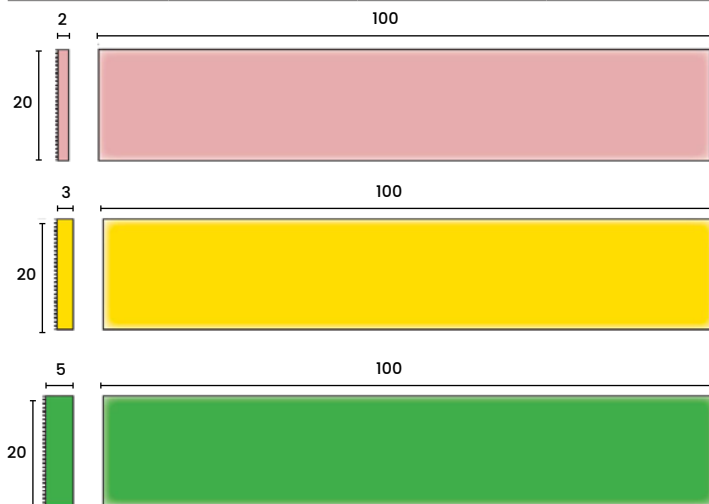
Designation	Blade dimensions mm	Part No	
Small model	25 x 5 x 1.5	417 000 300	1
Large model	40 x 14 x 1.5	417 000 301	1
Micro Cutter	0.5 x 4.0 mm	417 000 310	1
Spare blades for Cutter Micro (pack of 5 blades)	0.5 x 4.0 mm	417 000 310	1



Foam-backed abrasive belts

Foam-backed abrasive belts to be cut to your requirements. Available in 5 easily identifiable color-coded grits.

Grits	110x20x2 mm	110x20x3 mm	110x20x5 mm	
240	460 000 740	460 000 745	460 000 750	6
400	460 000 741	460 000 746	460 000 751	6
600	460 000 742	460 000 747	460 000 752	6
800	460 000 743	460 000 748	460 000 753	6
1000	460 000 744	460 000 749	460 000 754	6



SICO glue

Cyanoacrylate glue in 20g tube. Sold in gel form. Allows good bonding on metals and many plastics. SICO guarantees high mechanical strength, is thermally stable and very economical in use.

Type	Description	Part No	
SICO20	SICO glue 20 gr gel	460 000 760	1



Micro-sandblasting powders

We offer high-quality blasting powders specially adapted to our Microstar 100, 101-102-103 microblasting units.

They are available in 3 types:

- Glass beads

This breakable material is transformed into stable microbeads. Glass beads are ideal for cleaning, descaling, matting and final decoration operations.

- Premium white corundum

Delicate work. Ideal for roughening surfaces.

- Core shell powder

Natural powder. For removing impurities without tolerance variation. For deburring Duroplastics and matting synthetic surfaces. Also recommended for removing limescale from fossils.



Table of particle size selection aids

Particle size	Nozzle Ø
0/50 to 90/110 µ	0,8 mm (yellow)
50/90 to 110/150 µ	1,0 mm (blue)
110/150µ to 180µ/250 µ	1,2 mm (green)

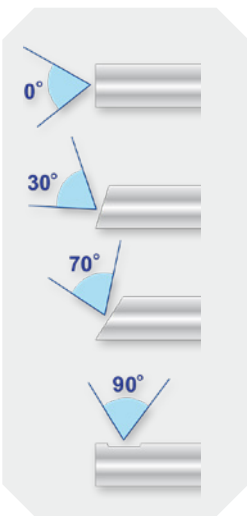
Quality	Type	Grit size	Part No	
			10 l can	
Premium glass beads				
	36-GP 0-50	0-50 μ	513 000 021	1
	36-GP 40-70	40-70 μ	513 000 036	1
	36-GP 70-110	70-110 μ	513 000 050	1
	36-GP 90-150	90-150 μ	513 000 066	1
	36-GP 100-200	100-200 μ	513 000 081	1
	36-GP 150-250	150-250 μ	513 000 095	1
	36-GP 200-300	200-300 μ	513 000 110	1
Premium white corundum				
	36-EK-90	180-125 μ	513 000 319	1
	36-EK-100	150-105 μ	513 000 560	1
	36-EK-150	105-75 μ	513 000 321	1
	36-EK-220	75-50 μ	513 000 336	1
	36-EK-240	60-40 μ	513 000 350	1
	36-EK-280	38-35 μ	513 000 365	1
	36-EK-320	35-25 μ	513 000 370	1
	36-EK-360	25-21μ	513 000 546	1
	36-EK-400	17 μ	513 000 573	1
	36-EK-500	13 μ	513 000 575	1
	36-EK-600	9 μ	513 000 577	1
	36-EK-800	7 μ	513 000 579	1
	36-EK-1000	5 μ	513 000 581	1
	36-EK-1200	3 μ	513 000 583	1
Core shell				
	36-N0	100-200 μ	513 001 039	1
	36-N1	200-400 μ	513 001 042	1

Co



Remote Visual Inspection

SV Endoscopes with large FoV



Directions of vision.

- Outer tube, body and light guide connector in stainless steel.
- Standard ISO 32mm ocular.
- Optical lens system for improved image.
- Clear image from 1mm to infinity.
- Resistance to fuels, oils, water and most industrial solvents.
- Working temperatures: - 40°/121°C.

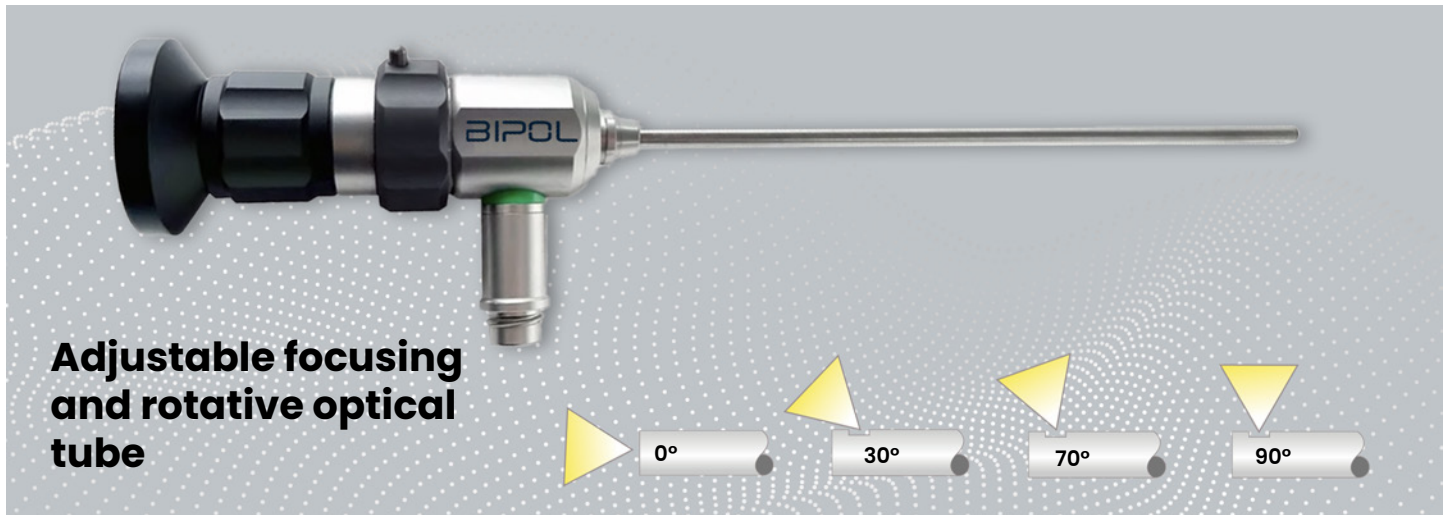
Part No	Diameter mm	WL mm	DoV	Field
SV - Ø 1,6 mm Large Field of view				
606 001 001	1.6	100	0°	95°
606 001 002	1.6	100	30°	65°
606 001 003	1.6	175	0°	95°
606 001 004	1.6	175	30°	65°
Protection sheaths for 1,6mm				
606 001 080	1.9	100	0°	-
606 001 081	1.9	100	30°	-
606 001 005	1.9	175	0°	-
606 001 006	1.9	175	30°	-
SV-S Ø 1,6 mm standard field of view (accepts mirror tube 90°)				
606 001 070	1.6	100	0°	40°
606 001 071	1.6	175	0°	40°
Removable mirror tubes for 1,6 mm SV-S				
606 001 072	1.9	100	90°	-
606 001 073	1.9	175	90°	-

Part No	Diameter mm	WL mm	DoV	Field
Ø 2.7 mm				
606 001 011	2.7	40	0°	75°
606 001 012	2.7	40	30°	75°
606 001 013	2.7	40	70°	75°
606 001 014	2.7	110	0°	75°
606 001 015	2.7	110	30°	75°
606 001 016	2.7	110	70°	75°
606 001 017	2.7	175	0°	75°
606 001 018	2.7	175	30°	75°
606 001 019	2.7	175	70°	75°
606 001 020	2.7	175	90°	65°
606 001 050	2.7	300	0°	75°
606 001 051	2.7	300	30°	75°
606 001 052	2.7	300	70°	75°

For the model 2.7mm with 90° Dov, the minimum diameter of holes is 5.5mm

Part No	Diameter mm	WL mm	DoV	Field
Ø 4.0 mm				
606 001 022	4.0	45	0°	75°
606 001 023	4.0	45	70°	75°
606 001 024	4.0	175	0°	85°
606 001 025	4.0	175	30°	85°
606 001 026	4.0	175	70°	85°
606 001 027	4.0	175	90°	65°
606 001 031	4.0	175	0°	105°
606 001 028	4.0	175	30°	105°
606 001 029	4.0	175	70°	105°
606 001 035	4.0	300	0°	85°
606 001 036	4.0	300	30°	85°
606 001 037	4.0	300	70°	85°
606 001 038	4.0	300	90°	65°

SV-R Endoscopes with large FoV



Adjustable focusing and rotative optical tube

Our SV-R line rigid rotating endoscopes are used for the visual inspection of very different cavities and bores in microscopic as well as macroscopic areas for visual inspection. The rotatable light source connection and focus function increase efficiency and enable maximum flexibility when carrying out your inspections in everyday work.

- Outer tube, body and light guide connector in stainless steel.
- Standard ISO 32mm ocular.
- Optical lens system for improved image.
- Clear image from 1mm to infinity.
- Resistance to fuels, oils, water and most industrial solvents.
- Adjustable focusing

Part No	Ø mm	W.L. mm	DoV	Field	Protection sheath
Ø 2.9 mm					
606 001 100	2.9	150	0°	80°	606 001 112
606 001 101	2.9	150	30°	80°	606 001 113
606 001 102	2.9	150	70°	80°	606 001 114
606 001 103	2.9	150	90°	80°	606 001 115
606 001 104	2.9	220	0°	80°	606 001 116
606 001 105	2.9	220	30°	80°	606 001 117
606 001 106	2.9	220	70°	80°	606 001 118
606 001 107	2.9	220	90°	80°	606 001 119
606 001 108	2.9	280	0°	80°	606 001 120
606 001 109	2.9	280	30°	80°	606 001 121
606 001 110	2.9	280	70°	80°	606 001 122
606 001 111	2.9	280	90°	80°	606 001 123

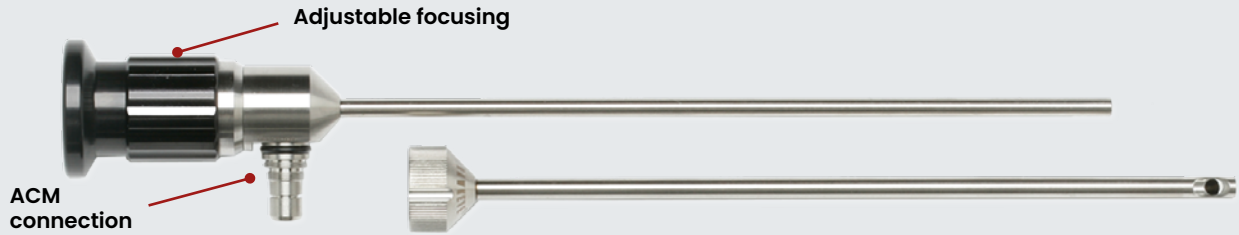
Part No	Ø mm	W.L. mm	DoV	Field	Protection sheath
Ø 3.8 mm					
606 001 124	3.8	150	0°	100°	606 001 148
606 001 125	3.8	150	30°	100°	606 001 149
606 001 126	3.8	150	70°	100°	606 001 150
606 001 127	3.8	150	90°	100°	606 001 151
606 001 128	3.8	220	0°	100°	606 001 152
606 001 129	3.8	220	30°	100°	606 001 153
606 001 130	3.8	220	70°	100°	606 001 154
606 001 131	3.8	220	90°	100°	606 001 155
606 001 132	3.8	280	0°	100°	606 001 156
606 001 133	3.8	280	30°	100°	606 001 157
606 001 134	3.8	280	70°	100°	606 001 158
606 001 135	3.8	280	90°	100°	606 001 159
606 001 136	3.8	340	0°	100°	606 001 160
606 001 137	3.8	340	30°	100°	606 001 161
606 001 138	3.8	340	70°	100°	606 001 162
606 001 139	3.8	340	90°	100°	606 001 163
606 001 140	3.8	470	0°	100°	606 001 164
606 001 141	3.8	470	30°	100°	606 001 165
606 001 142	3.8	470	70°	100°	606 001 166
606 001 143	3.8	470	90°	100°	606 001 167
606 001 144	3.8	630	0°	100°	606 001 168
606 001 145	3.8	630	30°	100°	606 001 169
606 001 146	3.8	630	70°	100°	606 001 170
606 001 147	3.8	630	90°	100°	606 001 171



Protection sheath available on both diameters

For model 2.9mm, diameter increases to 3.6mm.
For model 3.8mm, diameter increases to 5.0mm

Rigid Ecofix PRO endoscopes



Very large range of rigid industrial endoscopes. Superior optical quality. Integrates a light concentrator for better illumination.

They all accept 90° removable and rotative mirror tubes and stainless steel protection sleeves for shock protection. Our line of Ecofix Pro is available on stock. The exclusive lens system allows to offer very competitive repair costs. It gives excellent results in video endoscopy.

They can be made to operate up to 300°C on demand and are compatible with UV endoscopy applications.



The Endogrin® optical relay of the Ecofix PRO range allows to offer an excellent and bright image quality. Repairs can be done quickly at a fixed cost



ENDOSCOPES ECOFIX PRO				
Part No	Diameter mm	WL mm	DoV	Field
Ø 1.85mm (not compatible with video application)				
604 000 100	1.85	80	0°	40°
604 000 268	1.85	127	0°	40°
604 000 290	1.85	180	0°	40°
Ø 2.40 - 2.80mm				
604 000 500	2.40	100	0°	40°
604 000 501	2.40	185	0°	40°
604 000 510	2.80	265	0°	40°
604 000 515	2.80	350	0°	40°
604 000 520	2.80	435	0°	40°
Ø 4.20mm **				
604 000 490	4.20	50	0°	40°
604 000 502	4.20	180	0°	40°
604 000 503	4.20	305	0°	40°
604 000 504	4.20	435	0°	40°
604 000 505	4.20	560	0°	40°
Ø 6.35 - 7.20mm **				
604 000 506	6.35	180	0°	40°
604 000 507	6.35	305	0°	40°
604 000 540	6.35	435	0°	40°
604 000 541	6.35	559	0°	40°
604 000 542	7.20	730	0°	40°
604 000 543	7.20	940	0°	40°

Mirror Tubes				SS Sheath
Part No	Diameter mm	WL mm	DoV	Part No
For Ecofix Ø 1.85mm				
604 000 101	2.2	80	90°	604 000 267
604 000 269	2.2	127	90°	604 000 270
604 000 291	2.2	180	90°	604 000 292
For Ecofix Ø 2.4-2.8mm				
604 000 112	2.8	100	90°	604 000 220
604 000 113	2.8	185	90°	604 000 221
604 000 525	3.4	265	90°	604 000 526
604 000 530	3.4	350	90°	604 000 531
604 000 535	3.4	435	90°	604 000 536
For Ecofix Ø 4.2mm				
604 000 491	4.8	50	90°	604 000 492
604 000 123	4.8	180	90°	604 000 264
604 000 124	4.8	305	90°	604 000 265
604 000 125	4.8	435	90°	604 000 266
604 000 272	4.8	560	90°	604 000 273
For Ecofix Ø 6.35-7.20mm				
604 000 545	8.0	180	90°	604 000 555
604 000 546	8.0	305	90°	604 000 556
604 000 547	8.0	435	90°	604 000 557
604 000 548	8.0	559	90°	604 000 558
604 000 549	8.0	730	90°	-
604 000 550	8.0	940	90°	-

** Compatible UV

Micro fiberscopes Microflex

Microflex PRO flexible

Quickly and easily inspect cooling holes inside turbine blades, cannulas, catheters, needles, trocars, valves in medical devices, and many other micro manufactured parts. Use it with our Endo-Lux-T light (80 Watts) source for optimal results.

Our Microflex range offers a resolution range of 3,000 to 50,000, depending on the diameters, allowing excellent quality of vision.

As standard, we deliver models with a standard detachable 32mm ISO eyepiece with adjustable focus and optionally, 1 C-Mount ring, allowing a direct C-mount camera connection.

We can also study specific models according to your applications.



Micro fiberscopes Microflex

Detachable ocular with adjustable focusing



Adjustable focusing by ring

Description	Diameter	Working length	Amount of pixels	Field of view	Direction of vision	Depth of field	Bending radius	Tube construction	Working temperatures
MF-037-20	0.37 mm	200 mm	3 000	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
MF-037-100	0.37 mm	1000 mm	3 000	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
MF-05-60	0.50 mm	600 mm	3 500	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
MF-05-100	0.50 mm	1000 mm	3 500	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
MF-10-100	1.00 mm	1000 mm	10 000	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
MF-10-150	1.00 mm	1500 mm	10 000	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
MF-10-200	1.00 mm	2000 mm	10 000	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
MF-12-80	1.20 mm	800 mm	30 000	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
MF-12-120	1.20 mm	1200 mm	30 000	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
MF-20-100	2.00 mm	1000 mm	50 000	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C

To order

Part No	Description
MF-037-20	Microflex flexible Ø 0,37 mm x 200 mm - 0°
MF-037-100	Microflex flexible Ø 0,37 mm x 1.000 mm - 0°
MF-05-60	Microflex flexible Ø 0,5mm x 600 mm - 0°
MF-05-100	Microflex flexible Ø 0,5mm x 1.000 mm - 0°
MF-10-100	Microflex flexible Ø 1,0mm x 1.000 mm - 0°
MF-10-150	Microflex flexible Ø 1,0mm x 1.500 mm - 0°
MF-10-200	Microflex flexible Ø 1,0mm x 2.000 mm - 0°
MF-12-80	Microflex flexible Ø 1,2mm x 800 mm - 0°
MF-12-120	Microflex flexible Ø 1,2mm x 1.200 mm - 0°
MF-20-100	Microflex flexible Ø 2,0mm x 1.000 mm - 0°
MF-VAL	Waterproof case for microflex



MF-37-20 shown with P1 monitor, FV35HQ camera & LED handle LED-RA



We offer on demand Microflex semi rigid with DoV 0° & 90°. Contact us for further details



LED-R BIPOL light handle

Portable high intensity source with white LED lamp. LED life is approximately 50,000 hours under normal use. Supplied with its charger with battery level indicator and rechargeable. Li-ion battery (approximately 500 charge cycles).

Technical data	
LED output	10 Watts (80,000 lux)
Intensity adjustment	Adjustable to 5 levels
Dimensions	Ø 24 mm x 140 mm
Weight with battery	130 gr
Battery	Li-Ion 2400 mHa 3.7V - type 18650
Average runtime	3-4 hours
Durée de vie LED	50 000 heures

To order

Part No	Description
LED-R	Bipol LED-R battery handle with rechargeable battery
LED-R-BAT	Spare battery LED-R
LED-R-BAT-CH	LED-R Spare battery charger



Mini LED light handle

Portable light source with ACMI connection and LED light. 2 AA batteries (supplied). Adjustable illumination.

Technical data	
Illumination	10,000 to 55,000 lux (Min-max)
Dimensions	Ø 25 mm x 170 mm
Weight with batteries	120 gr
Average runtime	2-7 hours depending on the use

To order

Part No	Description
605 000 565	Mini LED light handle with 2 AA batteries



LED-RA rechargeable light handle

Ultra-high-performance portable source with white LED lamp and continuously adjustable lighting. Bulb life is 50,000 hours. Rechargeable battery and wall/table support included. Compatible with portable video applications.

Technical data	
Illumination	15,000 to 180,000 lux (Min-max)
Dimensions	Ø 31mm x 150mm
Weight with batteries	148 gr
Battery	Rechargeable 3.7V, 220mAh Li-Ion
Average runtime	2-7 hours depending on the use

To order

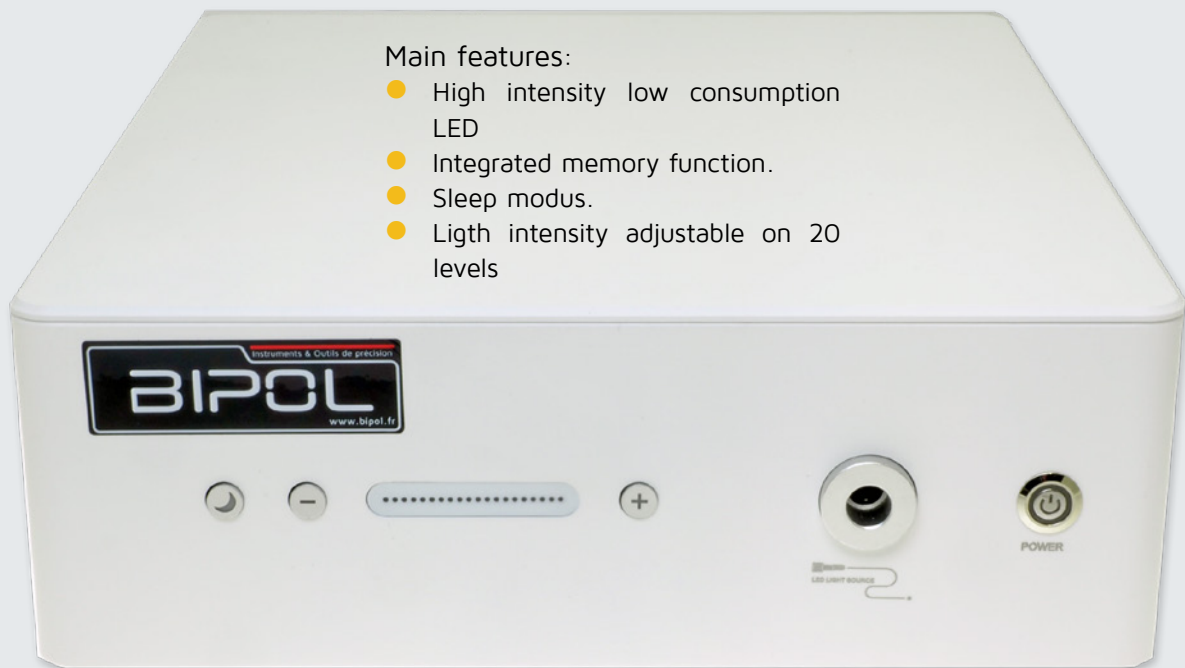
Part No	Description
605 000 570	Rechargeable RA LED handle & adjustable lighting. Comes with charging wall bracket.
605 000 571	Original streamlight battery for LED-RA



LED table light source Endolux-T

Main features:

- High intensity low consumption LED
- Integrated memory function.
- Sleep modus.
- Light intensity adjustable on 20 levels



Our Endo-lux T is a compact and powerful (80 watts) table light source with LED technology.

It comes with a continuous light adjustment (20 levels) and a standard RIWO output. It is compatible with video and photo applications and can be connected to our rigid endoscopes, fiberscopes.

Technical data

LED output	80 Watts
Illumination	800,000 lux
Light intensity	20 levels adjustable
Color temperature	5,000 - 7,000 k
Cable connection	RIWO
Power	110V-220V / 50 Hz-60Hz
Dimensions	355x315x120mm
Weight	5,2 kgs (11,46 lbs)
LED Lamp runtime	50,000 hours

Part No	Description
Endo-Lux-T	Bipol table light source Endo-lux T - 80 Watts - RIWO - bi tension 110/220 VA
Endo-Lux-C	Light cable SUPERFLEX Ø 4 x 1900mm Steel sheathing with outer PVC sheathing connection RIWO-STORZ/ACMI.
614 000 056	Y adapter for 2 cables
603 000 006	Rigid glass fibered probe Ø 5 x 120mm ACM Connection

Light cable
Endo-Lux-C



Y adapter (for 2 cables or 1 cable
and 1 probe)



Glass fibered rigid probe



S-UV table light source

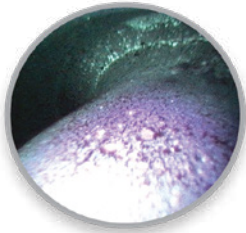
Compact, quiet, very powerful and engineered to achieve excellent results, the S-UV is your first choice for FPI (fluorescent penetrant inspection). This instrument's high-quality filters provide pure UV light without any white so even the smallest inclusions and flaws are clearly visible.

Switching from white light to UV and back is very easy

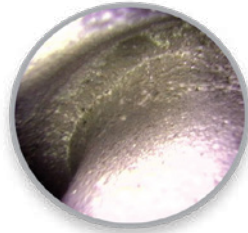
using the front-panel button or footswitch. We built an

automatic anti-glare function into the device to spare

you any discomfort from the white light's glare.



UV light



White light



Technical data	
Lamp life	Mercury vapor 150W Up to 2,500 hours (digital counter)
Dimensions (LxHxP)	340 x 310 x 160mm
Weight	7.5 kg
Automatic power	90/250 VA-50/60 Hz
Delivered with foot switch UV/WL	

To order

Code art	Description
613 000 006	Light source Endolux SUV-DC
613 000 016	Liquid light cable UV 5x1500mm

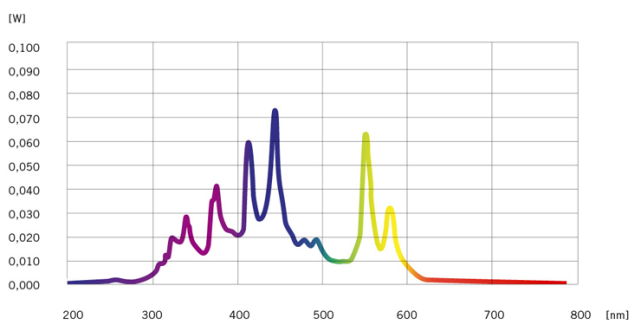


Liquid light cable

Position	Wavelength	Power*
UVA	320-400nm	1300mW
WL (white light)	400-700nm	400mW

(*) The radiation density (mW/cm²) depends on the distance between the radiation source and the observed area. Multiply by 5 the given values above to obtain the power in mW/cm² at the output of the standard cable Active diameter 5mm. Divide by the illuminated surface in cm² to have power in mW/cm² at other distances.

SPECTRUM



OPTICAL OUTPUT

	Spectrum	Power	Power Density
UVC	220-280 nm	500 mW	2,500 mW/cm ²
UVB	280-320 nm	2,000 mW	10,000 mW/cm ²
UVA	320-400 nm	3,500 mW	17,500 mW/cm ²
Violet	400-420 nm	1,300 mW	6,500 mW/cm ²
Blue	400-500 nm	5,000 mW	25,000 mW/cm ²
UVC-UVA	220-400 nm	6,000 mW	30,000 mW/cm ²
UVC-Blue	220-500 nm	11,000 mW	55,000 mW/cm ²

High resolution USB-HDM camera

High resolution compact video camera (2304x1536 px) specially developed for video endoscopy uses.

The camera can be used with any laptop that has a USB port.

The supplied visualization software is very easy to use and has many adjustable parameters.

Equipped with a 1/3" sensor and an automatic electronic shutter, it allows the inspection of places with changing light.

The camera has a dedicated HDMI output to be connected to an industrial monitor (cable supplied).

In this configuration, the camera is powered on mains.



Technical data	
CCD sensor	1/3.2" 3MP couleur CMOS
Resolution	2304 x 1536 px
White balance	Automatic
Signal Vidéo/Sortie	USB 3.0 / HDMI
Frame rate	HDMI: 1080i 60fps USB: 720p 30fps
HDMI recording	8GB Micro SD card
Power	USB charger - 5V (for HDMI connection) USB use: self-powered
Connection	C-Mount
Dimensions	Ø 40 mm x 100 mm
Weight	75 gr
Working temperature	+4°C to +50°C

Supplied with USB cable / HDMI cable / 8GB Micro SD card and dedicated image processing software (photo & video recording, digital zoom, measurement grid, image annotation)

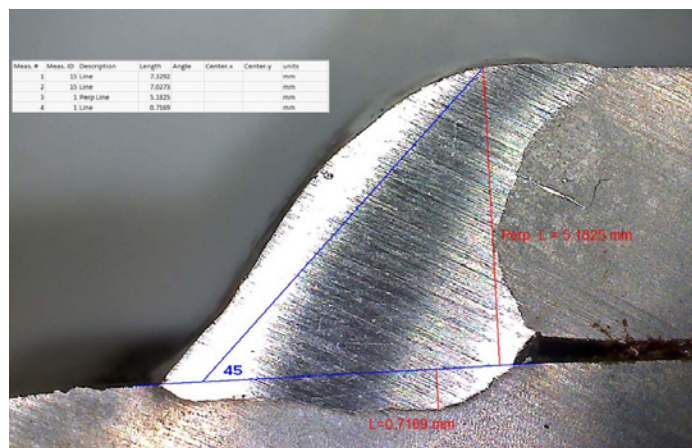


To order

Part No	Description
618 000 175	3MP USB-HDMI Bipol camera with F:35 video coupler
618 000 102	C-Mount video coupler with adjustable focus

Measurements function

The Pro version of the software has a wide range of measurements available including distance, angle, radius, pixel color and relational measurement – such as the distance between circles or the distance from the center of a circle to the midpoint of a line. The Pro version also allows export to an EXCEL spreadsheet.



FV-35 HQ CCD camera

Compact high-resolution video camera specially developed for endoscopy video applications.

Equipped with a 1/2" sensor and an automatic electronic shutter, it allows the inspection of places with changing brightness.

Very light (about 160 gr) with its shockproof housing, it will be ideal in workshop application, Research & Development or even in external maintenance intervention.

The video coupler (option) is compatible with all our rigid and flexible endoscopes.

Our FV35-HQ endocamera is compatible with P1 (7") video monitor

The TVSCOPE adapter allows it to be connected to an external monitor.



VIDEO COUPLER IN OPTION

Technical data	
CCD sensor	1/2" SONY
Resolution	800 TVL
White balance	Automatic
Video signal	PAL / NTSC
Power	12 DVC - unique cable
Connection	Integrated Video coupler
Dimensions	Ø 50 mm x 90 mm
Weight	160 gr (without cable)
Working temperatures	0°C to + 40°C
Weight	75 gr

Part No	Description
618 000 184	Bipol FV35 HQ endocamera C-MOUNT - P1 compatible
P1	P1 videoscope - 7" screen
P1-VID	Waterproof carrying case for Video Kit (camera - P1 - portable light source - Micro fiberscope/ endoscope)
619 000 012	Industrial Monitor 19" - 1280x1024 px
TV-SCOPE	External Monitor Connection Kit



P1 Monitor 7"



Industrial monitor 19"

Video accessories

BIPOL Video Coupler

Our video coupler connects an endoscope to a C-Mount CCD camera to view live images on a monitor.

It offers an extra wide field of vision. Compatible with all our CCD cameras.

Part No	Description
618 000 102	C-Mount video coupler with adjustable focus



Articulating holder Magic arm

Articulated holder with central locking lever to be mounted on a bench thanks to its clamp.

Compatible with Rugged & P1 videoscopes.

Part No	Description
618 000 106	Magic arm articulated holder with clamp
618 000 111	Additional clamp (for videoscope holder)



Industrial video monitor 19"

Our professional industrial video monitors have been specially developed to meet the needs of video control in technical endoscopy and fibroscopy. Excellent contrast and high definition (1280x1024 pixels) will allow you to view on screen the interior of your parts in a great comfort of use without visual fatigue. Numerous inputs allow you to connect a variety of devices to these monitors. In addition to two BNC ports, you also have a VGA input and an HDMI input.

Part No	Description
619 000 012	19" video monitor



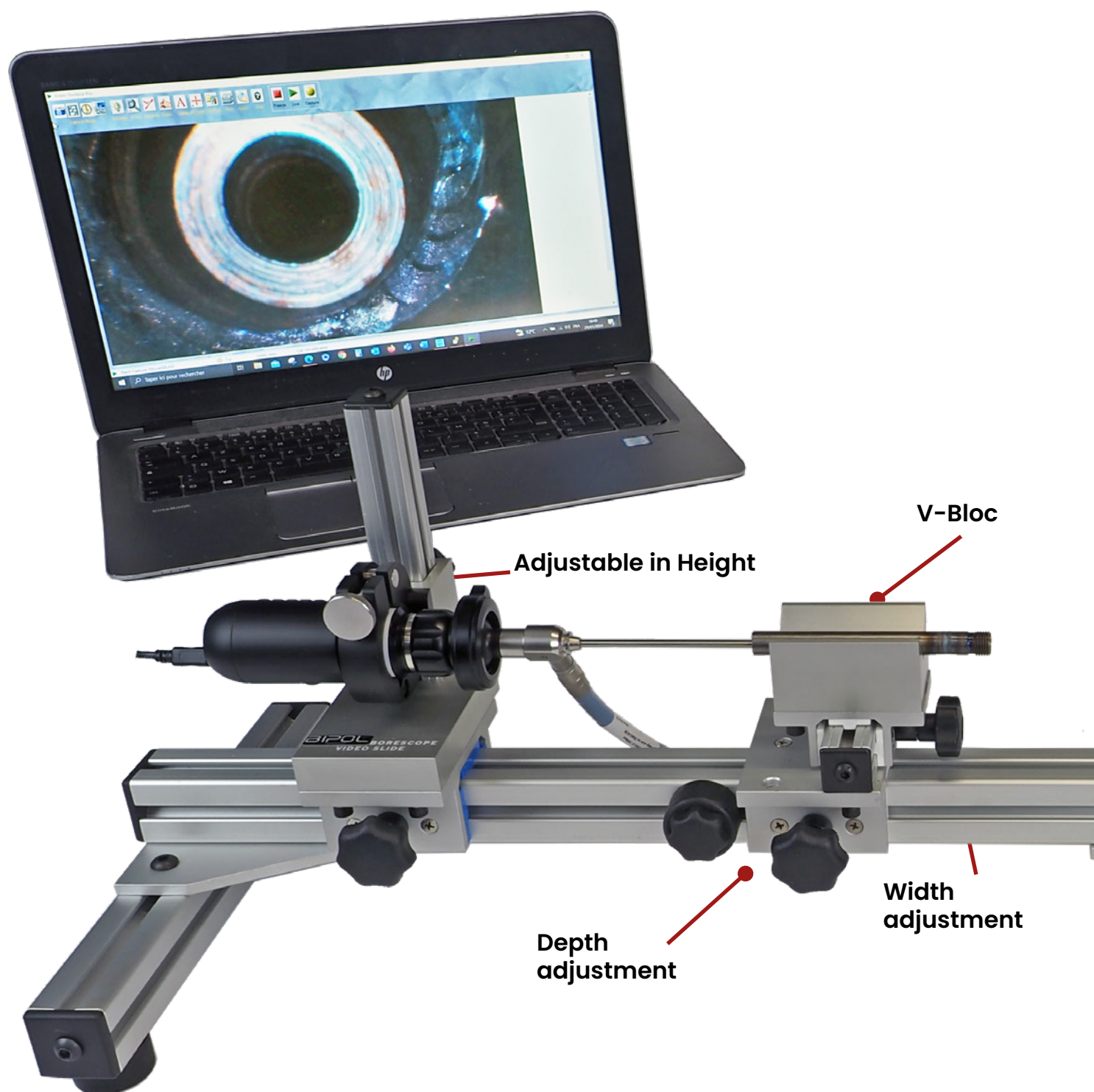
Storage cases

P1-VID. Carrying case specially designed to allow easy and safe transport of our cameras and accessories. Accepts as standard our 3 different video cameras, the LED-R portable lighting stick as well as a P1 or Rugged monitor.

VAL-RIG2X. Aluminum case with footprints for 2 endoscopes (up to 435 mm) & LED-R light source.

Part No	Description
VAL-RIG2X	Aluminum case with footprint for 2 rigid endoscopes (max length 435mm) & portable LED-R source.
P1-VID	Video carrying case with foam.





To order

Part No	Description
VID-SLD60	Video station 60 cm for USB-HDM Camera
VID-SLD120	Video station 120 cm for USB-HDM Camera
VID-VB	Additional V-Bloc

Video Station 60

Our video station VID-SLD was developed to offer high quality and stable video inspection. The part to inspect is positioned into a V-Bloc for maximum stability. Adjustments can be made in height, depth and width. Used with our USB-HDM camera, you will be able to perform top quality inspections.



Notes

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BIPOL

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