

Отрезные круги на смоляной связке

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Resin-Bonded Cut-Off wheels

Resin Bonded Precision Cutting Wheels are most suitable for precision cutting applications. These include the precision dry cutting of: medical tubes, hypodermic needles, metallurgical sampling and other applications. They are also suitable for wet cutting applications.

Benefits include

- Cost-Effective Cutting
- Faster operation
- Minimum Heating
- Maximum Reduction of Burr
- Improved Efficiency

The Resin bond holds the wheels' abrasive components (*e.g. Aluminium Oxide, Silicon Carbide etc*) together and allows the wheel to wear away at a specific rate, releasing the abrasive particles for the cutting action.

Thanks to our diligent production staff, atto can produce cutting wheels to a thickness of 0.1mm at a tolerance of +/-0.025mm.



PRECISION CUTTING WHEELS

- 1. Rubber Bonded**
- 2. Resin Bonded**



Resin Precision Cutting Wheels

Resin Bonded Precision Cutting Wheels are suitable for dry cutting applications including medical tubes, hypodermic needles and metallurgical sampling.

Also suitable for wet cutting applications.

Benefits

- ◆ Cost Effective Cutting
- ◆ Faster operation
- ◆ Minimum Heating
- ◆ Maximum Reduction of Burr
- ◆ Improved Efficiency



Availability

Grit Types:	A, WA, C and GC
Grit Sizes:	46 to 600 (FEPA)
Grade:	L, M, N, O, P, Q
Diameter:	From 22 to 355mm
Thickness:	From 0.1 to 2.0mm
Tolerance:	+/- 0.05mm

The atto Abrasives product line includes,
but is not limited to:

- ⇒ Centreless Regulating Wheels in
Rubber and Cork Bond
- ⇒ Centreless Work Wheels
- ⇒ Rubber Bonded Grinding and
Polishing Wheels
- ⇒ Polymer Bonded Super Finishing
Wheels

Rubber Bonded Precision Cutting Wheels

atto Rubber Bonded Precision Cutting Wheels are formulated to cut a wide array of materials and are ideally suited for applications that require fast, accurate and consistent cutting with minimum heat build up.



Benefits

- ◆ Close Tolerances to Achieve Ultimate Precision
- ◆ Clean and Burr Free Cut
- ◆ No Alteration of Material Characteristics
- ◆ High Operating Speed
- ◆ Superior Finish
- ◆ Minimum Heating
- ◆ Long Wheel Life
- ◆ Cost Effective

Standard Dimensions

Diameter	Thickness	Thickness Tolerance*
50-75mm	0.1 to 0.8mm	+/- 0.025mm
100mm	0.12 to 0.8mm	+/- 0.025mm
125mm	0.2 to 0.8mm	+/- 0.025mm
150mm	0.25 to 0.8mm	+/- 0.025mm
175mm	0.35 to 0.8mm	+/- 0.025mm
200-300mm	0.5 to 2mm	+/- 0.075mm
300-610mm	0.8 to 3mm	+/- 0.125mm

*closer tolerances upon request

Availability

Grit Types:	A, WA, C and GC
Grit Sizes:	60 to 400 (FEPA)
Grades:	From E (soft) to V (hard)
Wheels are available grain-sided. Machining available (special faces for carding applications; coolant holes; etc.)	

Application Guide

Automotive and Aerospace Industry

Application	Material	Grade
Contact Parts	Tungsten	A120-M
Sprag Clutches	Mild Steel	A120
Control Cables, Valves, Piston Ring Slotting	Hardened Steel, Plastic/Steel	A120-R-R, A150-M, A120-M
Fasteners	Titanium	A120-M-R
Forgings and Castings	Various	A90-F
Metallurgy	High Nickel Alloy, Titanium	A90-F-R35

Medical Industry

Application	Material	Grade
Hypodermic Needles	Stainless Steel	WA400-N-R, A400-F
Dental Alloys, Ingots	Cobalt, Nickel	A150-M

Electrical Industry

Application	Material	Grade
Transformer Cores	Epoxy Laminated Steel	A120-M-R50
Contacts, Wires	Tungsten, Silver, Molybdenum	A120-M-R60
Electrodes	Tungsten	A150-P-R48SP
Magnets	Alnico	C120-F-R35
Light Components	Tungsten, Nickel, Molybdenum	A90-M-R35
Thermocouples		C320-M-R60

Additional Applications

Application	Material	Grade
Pen Nibs	Stainless Steel	A400
Collet Slotting	Mild Steel	A60-M-R40
Drill, Taps, End Mills	HSS	A120
Precision Tubes	Stainless Steel	A240, A400-O-RL85
Ejector Pins	Hardened Steel	A120-E-R218
Carding Wire		A120, A400-M-R60



Resin bonded cutting wheels

Resin-Bonded cut-off range.

Our special Resin Bonded cut-off wheels cut-off wheels are part of the atto abrasive precision cutting range.

These resin bonded cut-off wheels are specifically manufactured for the precision cutting of all Metallic types.

- Provide Burr free precision cutting
- Resin Bonded & suitable for cutting all Metallic types
- Safety Data sheet (atto Abrasives resin cut off MSDS 2017)
- **Further sizes and specifications available upon request [here](#).**

Description

Resin bonded cutting wheels are part of the Åtto Abrasives precision cutting range.

- These Resin bonded cutting wheels are created for precision burr-free.
- They are specifically designed for the cutting of any type of metallic material.
- They provide clean precise cuts due to their resin-bonded finesse.

Further sizes and specifications available upon request

- Standard Tolerances $\pm 0.05\text{mm}$ (0.002")
- Available in a full range of specifications, abrasive grit types & sizes
- Customised to suit particular process needs & applications

Applications include Burr-free cutting of:

- Metallographic sectioning
- Precision Tubes
- Dental Implants
- Fasteners
- Ejector Pins
- Control Cables
- Hypodermic Needles
- Collet Slotting



Resin bonded cut-off wheels

åtto Abrasives Metallurgical Sampling range

Our special metallurgical sampling cut-off wheels are specifically manufactured for the precision cutting of all Metallic types.

- Provide Burr free precision cutting
- Resin-Bonded & suitable for all Metallic types
- *atto Abrasives Safety Data Sheet for resin cut off wheels MSDS 2017*
- **Further sizes and specifications available upon request**

Description

Metallurgical Sampling cut-off wheels **manufactured by åtto Abrasives to meet your requirements.**

- We employ a variety of abrasive grit types, grit sizes, rubber and resin bonds to formulate our unique cut off wheels, **suitable for the precision cutting of all Metallic Types.**
- These are specialised cutting wheels for precision burr-free wet cutting of tubes & components, for metallurgy testing & metallurgical sampling.
- They are suitable for cutting any type of metallic material

- They provide very precise cuts due to product finesse
- **Further sizes and specifications available upon request**
- Standard Tolerances $\pm 0.05\text{mm}$ (0.002")
- Available in a full range of specifications, abrasive grit types & sizes
- Customised to suit any particular process needs & applications

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93