

 **Novo
Abrasive®**



**ABRASIVE WHEELS
FLEXIBLE ABRASIVE
DIAMOND WHEELS
SAW BLADES
BRUSHES FOR METAL**

2021/22

novoabrasive.com



ABRASIVE WHEELS FOR METAL AND STONE

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- 25 Abrasive grinding wheels for metal and inox
- 28 Abrasive cut-off wheels for stone

FLEXIBLE ABRASIVES

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2021/22

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Abrasive factory NovoAbrasive was founded in 2012 in the village of Novaya Vodolaga, Kharkiv region. The main activity is the production of abrasive cut-off and grinding wheels on a bakelite bond with reinforcing elements.

The plant is equipped with modern Italian equipment of the world leading manufacturers such as Davide Maternini S.P.A. and ABRAPRESS S.R.L. The plant has introduced advanced European technologies of abrasive wheels production.

The plant was certified under ISO 9001 Quality Management System in 2015. That same year, the products were certified in the laboratory of MPA Hannover, Germany.

According to the test results, German experts confirmed that NovoAbrasive products meet all safety requirements for European standard EN 12413. Since 2017, NovoAbrasive is a member of the Federation of European Producers of Abrasives (FEPA).

The plant has all the necessary special equipment for quality control. All our products undergo testing for compliance with the European safety standards.

The plant produces over 30 million abrasive cut-off and grinding wheels for metals and stone annually, delivering its products to more than 35 countries worldwide.



Novo Abrasive®

Abrasive factory NovoAbrasive

Advantages of cooperation

QUALITY

Raw materials from European Union
Leading Italian machineries with our R&D
department produce the best technologies.
6-level quality control system

SAFETY

Certified products by:
DSTU GOST 21963-2003
EN 12413
MPA Hannover
EAC

Factory certified by:
ISO 9001:2015

EFFICIENCY

Availability of goods in our stock
Short production period from 15 to 30 days
Support with organization of all logistics freight

LOYALTY

We produce more than 50 private labels
Open terms of cooperation
Transparent pricing policy
Permanent marketing support
Distributor interest protection



EN 12413

2021

novoabrasive.com



**UKRAINE
KHARKIV
NOVA VODOLAHHA**



PARTNERSHIP

- ✓ **5 000 000+** end users.
- ✓ Products of the NovoAbrasive Plant are exported to **30+** countries worldwide.
- ✓ We have **200+** dealers and we invite you to join our dealer network.
- ✓ **50+** private labels customers.

Russia

USA



Dear Partner,

All that you will see here is the result of nearly ten years of work by a young professional team of like-minded people.

NovoAbrasive is a leading Ukrainian company in the development and manufacture of abrasive tools on bakelite bonds. At the time of launch in 2012, the company produced 35 types of cut-off and grinding wheels on bakelite bond with reinforcing elements. At the beginning of 2021, the company produces more than 150 types of products in 3 Quality series.

The six-stage product quality control system enabled us to freely pass the QMS ISO 9001 certification in 2015. As a result, in 2018, all subsequent stages of the companies have been developed by the R&D Center using Quality Management System - Continuous Growth and Improvement.

The result of research in the field of heat treatment of grinding materials was the launch of serial production of the premium segment of cut-off and grinding wheels NovoAbrasive Extreme.

NovoAbrasive's team of professionals aims to provide complete technical support in selecting the necessary abrasive tools. Based on many years of production experience, innovation and importance in the abrasive industry, the company is ready not only to develop the necessary tools for the customer, but also to customize or create a new tool and meet the needs of each customer together.

A handwritten signature in white ink, appearing to read 'Ignat Bashmakov'.

Best regards, Chief technologist
Ignat Bashmakov



Manufacturing of reinforcing elements

Thanks to our special machine for cutting reinforcement elements, the company can reprogram the machinery in time to manufacture wheels of different thicknesses and diameter.



Raw materials quality control

The high quality of NovoAbrasive abrasive wheels directly depends on the quality of the components of the abrasive mixture, which is composed of abrasive grains of electrocorundum, liquid bakelite resin, powder resin and a number of fillers to improve the heat dissipation of the cutting area, generally increase the hardness of the wheel and improve the cohesion between the components of the product.

At this stage the following processes are carried out:

- Viscosity control of the liquid resins;
- Checking the chemical composition of the dry and liquid components of the mixture;
- Bulk weight control;
- Reinforcement of grinding materials for compliance with the FEPA standard;
- Visual control of label and package.



Mixture preparation

The main factors that ensure a high quality mixture:

- use of bonding materials and fillers from leading European manufacturers (Germany, Italy, Hungary);
- providing the most appropriate storage conditions for liquid bakelite in a special cooled warehouse;
- preparation of the mixture in mixing machines equipped with a software control system that eliminates human errors;
- the mixture is stored in a special warehouse with constant temperature and humidity temperature.



Production

- NovoAbrasive Factory uses the most modern pressing machines by the Italian leading producers.
- In the process of forming abrasive wheels, the impact of human errors is reduced through the use of presses with a high level of automation;
- Quality control staff provides constant monitoring of geometric sizes, unbalance and wheel weight during the production process;
- In order to ensure a stable condition of the final mixture used in production, the molding plant is equipped with automatic air conditioning and humidification system.



Placing
the first
reinforcing
element



Label placing



Dosing
and filling
the mix



Placing
calibration
ring



Placing
of the second
reinforcing
element



Pressing
and disc
removal

Thermal processing (bakelization)

Furnaces used at the factory are equipped with controllers that allow you to program different cycles of heat treatment of the wheel. The most important advantage of the bakelization technology at the enterprise is the use of aluminum disks during heat treatment, which provide uniform heat distribution on the surface of the wheel.



Wheel testing

After heat treatment, the wheels are tested and quality controlled. The quality control department inspects the wheels according to the following criteria: wheel size, weight and unbalance, bursting speed test, side loading test, hammer test, durability test and wheel efficiency.

Each batch of wheels passes the following tests:



Wheel unbalance and weight checking



Safety test – wheel bursting speed test



Cutting test – a test for wheel durability



Visual control of all geometric dimensions of the wheel;



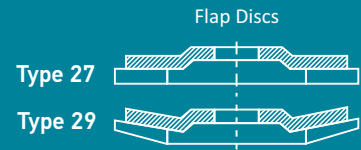
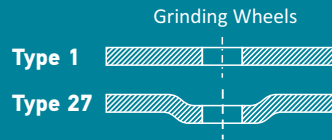
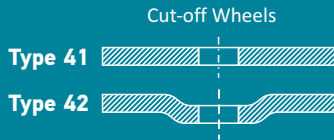
Side load and hammer tests



Defining cutting factor

Technical Information

Type of wheel



Quality ranges

DIY Line

STANDARD



Professional Line

PROFI



Industrial Line

EXTREME



Hardness of nonwoven grinding discs

HARD

Hard

SOFT

Soft

Description



100% higher cutting speed compared to the Basic series



50% + higher cutting speed compared with the Standard series



30% + higher cutting speed compared with the Standard series.
* for diamond discs comparison with the Basic series.



7 times increased resource compared with the Standard series.
* for diamond discs comparison with the Basic series. The resource is twice as much.



5 times increased resource compared with the Standard series.
* for diamond discs comparison with the Basic series. The resource is 30 percent more.



Number of flaps



Resistance to high temperatures



Maximum speed rpm



Base thickness



Fastening thread



Adapter diameter



Self hooked pad



Dust removal holes



Quantity inside package



Angle tilt



Width soldering



Number teeth



Dry cut



Wet cut



DIY Series



Professional Series



Industrial Series



Technology Hot Pressing



High productivity cut



100% disk balancing



+ Wire diameter 0.5 mm



Wire length – 25 mm



Additionally heat treatment wire



Brass



Cobalt tungsten



Stability to acids



Diamond width segment



Grinding of grooves



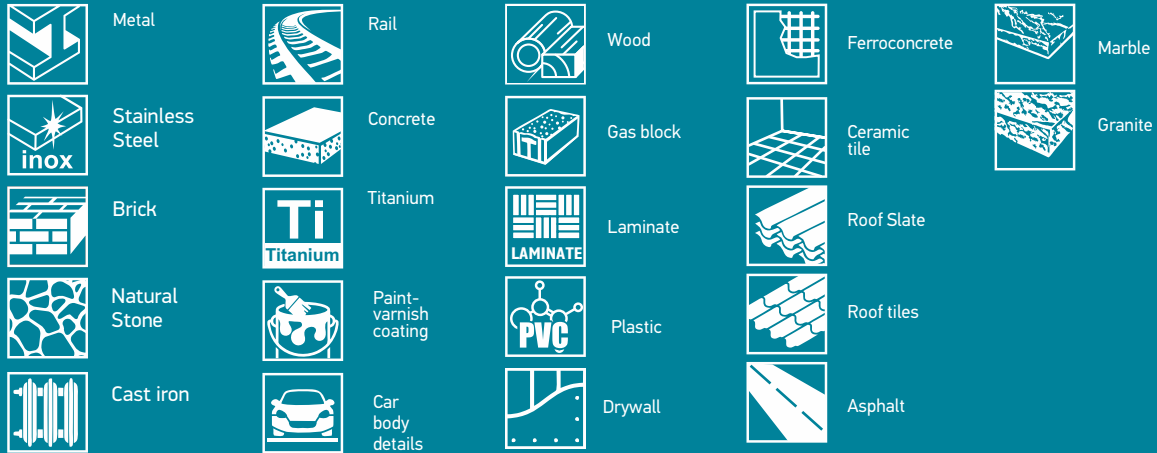
Grinding of curved surfaces



Protection against water ingress during operation

Technical Information

Materials



Certificates and standards



Certificate of compliance with European requirements for production quality

EN 12413

International safety standard for abrasive cutting and grinding wheels



European certificate of conformity to standard EN 12413

EN 13236

International safety standard for diamond disks



Member of the European Association of Abrasive Manufacturers

EN 847-1

International safety standard for saw blades with carbide solders



German security guarantee

EN 13743

International safety standard for abrasive products



Certificate of the Customs Union



Certificate of the content of the permissible level of harmful substances

Safety signs



Use personal protective equipment (gloves)



Do not use a damaged Wheel



Read the instructions before use



Do not cut Nails



Use personal protective equipment (goggles, respirators, headphones)



Not for Grinding



Use personal protective equipment (protective boots)

Tools



Belt grinder



Screwdriver



Eccentric grinder



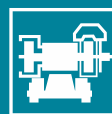
Angular grinder



Drill



Hand grater



Grinding machine



Circular saw



Tile cutter

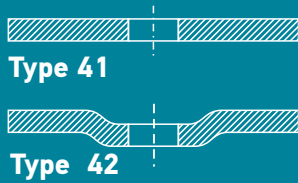


Gasoline cutter

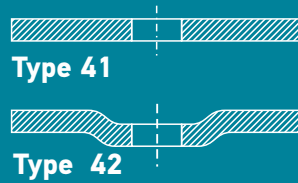


Assembly saw

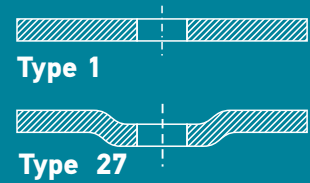
Cut-off wheels for metal



Cut-off wheels for stone



Grinding wheels for metal



General specifications marked on the wheel

Name (application)

Series name

Item number

Applied material

Rotation speed, rpm

Maximum working cutting speed, m/s

Basic wheel dimensions, mm: (outer diameter x thickness x bore size)

Document regulating wheel production:

- 1. GOST 21963:2003 - cutting wheels
- 2. TU U 23.9-38633740-001:2013 - grinding wheels

Safety icons

Wheel identification marks

Outer diameter, thickness, bore size

Free of iron, sulfur, chlorine ($\leq 0,01\%$)



Wheel type (41,1- flat, 27,42 - depressed center)

International marking of abrasive: material, grain, hardness and type

Application of discs

Typical application of abrasive materials in cutting wheels of different application regarding thickness of the wheels.

Type of cutting wheel	Wheel thickness, mm	Application
Cut-off wheels for metal	0,8 - 1,6	Thin metal sheet, thin-walled pipes and profiles, including stainless steel, tool steels. The thickness of the cut profiles should not exceed 3 mm.
	1,8 - 2,0	Steel rough parts of a small cross section (including pipes, steel sheet) from tool, heat-resistant grades of steel, cast iron, non-ferrous metals.
	2,5	Steel rough parts of large cross section of high strength, tool, heat resistant steel grades.
	2,5 - 4,0	Cutting of various rough parts, including castings and industrial products, etc.
Cut-off wheels for stone	1,2 - 1,6	For thin cutting of ceramic and other tiles, glass products, polymer materials, etc.
	2,0	For cutting rough parts of a small cross-section from granite, technical ceramics, electrotechnical porcelain, tiles, slate, ceramic pipes, specially glass.
	2,5	Details and fragments of concrete, granite, ceramics, porcelain, tile, slate, ceramic pipes, refractory and building bricks.
	2,5 - 4,0	For cutting rough parts of asphalt, reinforced concrete, granite, marble, basalt.

Structure of abrasive wheel




- 1 Reinforcing fiberglass mesh
- 2 Abrasive mixture
(electro corundum + resin)
- 3 Reinforcing fiberglass mesh
- 4 Label
- 5 Metal ring

FEPA SAFETY RECOMMENDATIONS FOR THE USE OF CUTTING AND GRINDING WHEELS FOR ANGLE GRINDERS


DO'S

- ✓




Ensure the blade bears the mark EN 12413 and displays and expiry date

1
- ✓



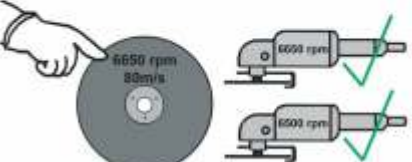
Always read the safety instructions

2
- ✓



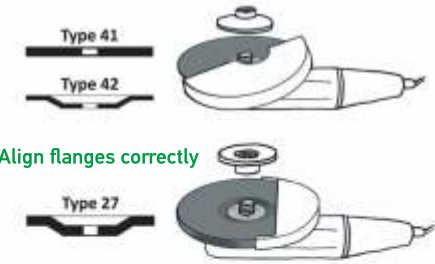
Examine the blade for damage or unusual stains

3
- ✓




Check that the speed marked on the machine is not greater than the speed marked on the wheel

4
- ✓



Align flanges correctly

5
- ✓





Ensure the guard is fitted

6

DONT'S


- ✗






1


Do not use a blade without the EN 12413 mark
- ✗






2


Don't throw away the instructions before reading
- ✗






3

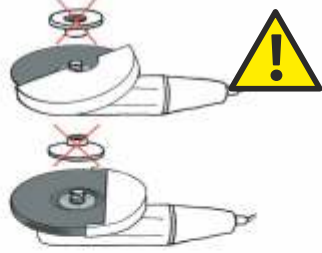
Never use damaged blades
- ✗






4


Do not use wheel if the speed is lower than the speed marked on the machine or if no speed is marked on the wheel
- ✗






5

Flanges incorrectly aligned
- ✗



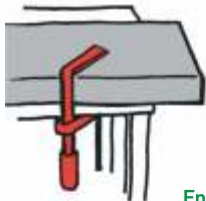


6

Never remove the guard


DO'S

7



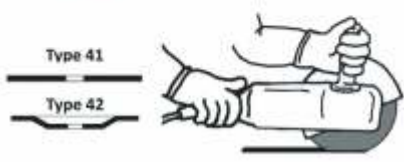
Ensure work piece is secure

8



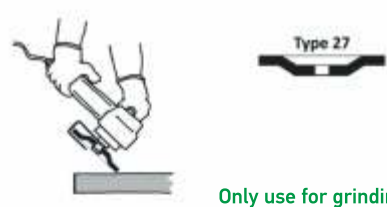
Use protective equipment

9



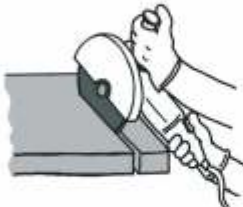
Only use for cutting off

10




Only use for grinding

11



Always straight cutting

12



Let the wheel cut freely

DONT'S

7





Never cut an unstable work piece

8





Never cut without protective equipment

9





Do not grind with a cutting wheel

10





Do not use for cutting unless stated as suitable

11





Never twist in the cut

12





Never force the cut

IMPROPER USE OF ABRASIVE TOOLS MAY BE VERY DANGEROUS.

II ABRASIVE WHEELS FOR METAL AND STONE



Quality ranges of abrasive wheels



★★★★★ Industrial series

Abrasive cut-off and grinding wheels TM NovoAbrasive Extreme. Series of cut-off wheels for industrial use.

Extreme series abrasive wheels have a record cut ratio, cutting speed and easy to use. The wheels contain additives to improve heat elimination from the cutting area.

- Modified electrocorundum with active ceramic coating + 50% cutting speed*;
- Special adhesive with strengthening additives provides up to 7 times increased resource;
- Protection against water getting on the wheel during operation;
- European certification recognized worldwide (EN 12413, MPA Hannover, FEPA, ISO 9001:2015);
- Designed for stainless steel processing (Fe + S + Cl <0.1%).



★★★★☆ Professional series

NovoAbrasive Profi TM Abrasive Cut-off and Grinding Wheels

A series of cut-off wheels for professional and home use. They have high values of cutting ratio, cutting speed and price. The cut-off wheels contain additives to improve heat dissipation from the cutting area.

- High quality corrosion resistant electrocorundum + 30% cutting speed
- Improved contact formatting saves up to 5 times the resources
- European certification is recognized worldwide (EN 12413, MPA Hannover, FEPA, ISO 9001:2015);
- Designed for stainless steel processing (Fe + S + Cl <0.1%).



★★★★☆ DIY series

Abrasive cut-off and grinding wheels of TM NovoAbrasive Standard and TM Hetman.

Cut-off wheels are characterized by high quality and cutting speed for household use. They are made of normal electro-corundum and contain additives to reduce heat generation in the cut area.

- High speed and cutting ability for household use.
- European certification recognized worldwide (EN 12413, MPA Hannover, FEPA, ISO)
- Designed for metal and stainless-steel processing (Fe + S + Cl <0.1%).

* Compared to standard series wheels.

ABRASIVE CUT-OFF WHEELS FOR METAL AND INOX

Cut-off and grinding wheels manufactured by NovoAbrasive Plant with the use of bakelite bond with reinforcing elements. A high quality raw materials is provided from leading European suppliers, automation of Italian manufacturing lines and proven production technology.

Due to the absence of impurities of Iron, Chlorine, Sulfur (Fe + Cl + S <0.1%) impurities and the use of special additives to improve heat removal from the cutting zone, all series of wheels are suitable for cutting stainless steel.

NovoAbrasive wheels are manufactured according to GOST standards and own technical specifications DSTU GOST 21963-2003 and according to European standard EN 12413 and safety rules. They are certified by MPA Hannover (Germany).

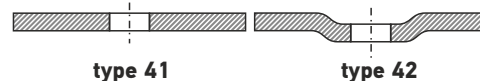
NovoAbrasive is a member of the Federation of European Producers of Abrasives (FEPA) and has been certified in accordance with ISO 9001: 2015.

★★★★★ Industrial Series

NovoAbrasive Extreme is the latest development of premium quality from the specialists of the NovoAbrasive Factory. The wheels of this series are created according to a unique formula and with the help of innovative technological solutions. They have standard indicators of resources, cutting speed and comfort during work.

The basis of the NovoAbrasive Extreme cut-off wheels is made of modified fused corundum with active coating that allows for increased mechanical durability. Thanks to advanced innovations in wheel production, we were able to achieve high tool productivity and increased performance.

Cut-off wheels for metal and inox NovoAbrasive Extreme

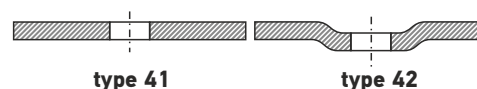


Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 1,0 x 22,23	41	13300	25	25	A 60 S BF	NAECD11510
115 x 1,2 x 22,23	41	13300	25	25	A 46 S BF	NAECD11512
115 x 1,6 x 22,23	41	13300	25	25	A 36 S BF	NAECD11516
125 x 1,0 x 22,23	41	12250	25	25	A 60 S BF	NAECD12510
125 x 1,2 x 22,23	41	12250	25	25	A 46 S BF	NAECD12512
125 x 1,6 x 22,23	41	12250	25	25	A 36 S BF	NAECD12516
150 x 1,6 x 22,23	41	10200	25	25	A 36 S BF	NAECD15016
180 x 1,6 x 22,23	41	8500	25	25	A 36 S BF	NAECD18016
230 x 1,6 x 22,23	41	6650	25	25	A 36 S BF	NAECD23016
230 x 1,9 x 22,23	41	6650	25	25	A 30 S BF	NAECD23019
230 x 2,0 x 22,23	41	6650	25	25	A 30 S BF	NAECD23020
180 x 3,0 x 22,23	42	8850	25	25	A 30 S BF	NAECD18030/42

★★★★★ Professional Series

A series of cutting wheels for professional and home use. They have an optimal ratio of resource cutting capacity and price. The wheels are based on normal high-quality electro-corundum and special additives to improve heat removal from the cut area.

Cut-off wheels for metal and inox NovoAbrasive Profi

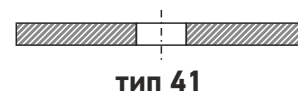


Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 0,8 x 22,23	41	13300	25	200	A 60 S BF	WM11508
115 x 1,0 x 22,23	41	13300	25	200	A 60 S BF	WM11510
115 x 1,2 x 22,23	41	13300	25	200	A 46 S BF	WM11512
115 x 1,6 x 22,23	41	13300	25	200	A 36 S BF	WM11516
115 x 2,0 x 22,23	41	13300	25	100	A 30 S BF	WM11520
115 x 2,5 x 22,23	41	13300	25	100	A 30 S BF	WM11525
115 x 3,0 x 22,23	41	13300	25	100	A 30 S BF	WM11530
115 x 3,2 x 22,23	41	13300	25	100	A 30 S BF	WM11532
125 x 0,8 x 22,23	41	12250	25	200	A 60 S BF	WM12508
125 x 1,0 x 22,23	41	12250	25	200	A 60 S BF	WM12510
125 x 1,2 x 22,23	41	12250	25	200	A 46 S BF	WM12512
125 x 1,6 x 22,23	41	12250	25	200	A 36 S BF	WM12516
125 x 2,0 x 22,23	41	12250	25	100	A 30 S BF	WM12520
125 x 2,5 x 22,23	41	12250	25	100	A 30 S BF	WM12525
125 x 3,0 x 22,23	41	12250	25	100	A 30 S BF	WM12530
125 x 3,2 x 22,23	41	12250	25	100	A 30 S BF	WM12532
150 x 1,6 x 22,23	41	10200	25	75	A 36 S BF	WM15016
150 x 2,0 x 22,23	41	10200	25	50	A 30 S BF	WM15020
150 x 2,5 x 22,23	41	10200	25	50	A 30 S BF	WM15025
150 x 3,0 x 22,23	41	10200	25	50	A 30 S BF	WM15030
180 x 1,6 x 22,23	41	8500	25	75	A 36 S BF	WM18016
180 x 2,0 x 22,23	41	8500	25	50	A 30 S BF	WM18020
180 x 2,5 x 22,23	41	8500	25	50	A 30 S BF	WM18025
180 x 3,0 x 22,23	41	8500	25	50	A 30 S BF	WM18030
180 x 4,0 x 22,23	41	8500	25	25	A 30 R BF	WM18040
230 x 1,6 x 22,23	41	6650	25	25	A 36 S BF	WM23016
230 x 1,9 x 22,23	41	6650	25	25	A 30 S BF	WM23019
230 x 2,0 x 22,23	41	6650	25	25	A 30 S BF	WM23020

Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
230 x 2,5 x 22,23	41	6650	25	25	A 30 S BF	WM23025
230 x 3,0 x 22,23	41	6650	25	25	A 30 S BF	Wm23030
230 x 3,2 x 22,23	41	6650	25	25	A 30 S BF	WM23032
300 x 3,0 x 32	41	5100	15	15	A24P BF	WM30030
350 x 2,6 x 25,4	41	4400	15	15	A 24 P BF	WM35026
350 x 3,0 x 25,4	41	4400	15	15	A24P BF	WM35030
350 x 3,5 x 25,4	41	4400	15	15	A24P BF	WM35035
350 x 3,5 x 32	41	4400	15	15	A24P BF	WM35035/32
350 x 4,0 x 25,4	41	4400	15	15	A 24 P BF	WM35040
355 x 3,0 x 25,4	41	4400	15	15	A24P BF	WM35530
355 x 3,5 x 25,4	41	4400	15	15	A24P BF	WM35535
400 x 3,5 x 32	41	3850	10	10	A24P BF	WM40035
400 x 4,0 x 32	41	3850	10	10	A 24 P BF	WM40040
115 x 3,0 x 22,23	42	13300	25	100	A 30 S BF	WM4211530
125 x 3,0 x 22,23	42	12250	25	100	A 30 S BF	WM4212530
180 x 3,0 x 22,23	42	8500	25	50	A 30 S BF	WM4218030
230 x 1,9 x 22,23	42	6650	25	25	A 30 S BF	WM4223019
230 x 3,0 x 22,23	42	6650	25	25	A 30 S BF	WM4223030



Cutt-off wheels for metal and stainless steel in NovoAbrasive Profi boxes

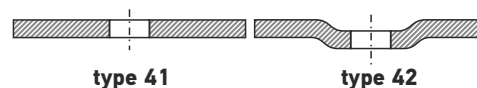


Size, mm	Type	Макс. Об./хв.	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 1,0 x 22,23	41	13300	10	10	A 60 S BF	WM11510-10
125 x 1,0 x 22,23	41	12250	10	10	A 60 S BF	WM12510-10

★★★★★ **DIY Series**

Abrasive Plant NovoAbrasive also offers DIY series of cut-off and grinding wheels. The products are characterized by high quality and cutting speed in the low price segment of DIYers. They are made of normal electrocorundum and contain additives to reduce heat generation in the cut area.

Cut-off wheels for metal and inox NovoAbrasive Standard



Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 1,0 x 22,23	41	12250	25	200	A 60 S BF	NAB11510
115 x 1,2 x 22,23	41	12250	25	200	A 46 S BF	NAB11512
115 x 1,6 x 22,23	41	12250	25	200	A 36 S BF	NAB11516
115 x 2,0 x 22,23	41	13300	25	100	A 30 S BF	NAB11520
115 x 2,5 x 22,23	41	13300	25	100	A 30 S BF	NAB11525
125 x 1,0 x 22,23	41	13300	25	200	A 60 S BF	NAB12510
125 x 1,2 x 22,23	41	13300	25	200	A 46 S BF	NAB12512
125 x 1,6 x 22,23	41	13300	25	200	A 36 S BF	NAB12516
125 x 2,0 x 22,23	41	12250	25	100	A 30 S BF	NAB12520
125 x 2,5 x 22,23	41	12250	25	100	A 30 S BF	NAB12525
125 x 3,0 x 22,23	41	12250	25	150	A 30 S BF	NAB12530
150 x 1,6 x 22,23	41	10200	25	75	A 36 S BF	NAB15016
150 x 2,0 x 22,23	41	10200	25	50	A 30 S BF	NAB15020
150 x 2,5 x 22,23	41	10200	25	50	A 30 S BF	NAB15025
180 x 1,6 x 22,23	41	8500	25	75	A 36 S BF	NAB18016
180 x 2,0 x 22,23	41	8500	25	50	A 30 S BF	NAB18020
180 x 2,5 x 22,23	41	8500	25	50	A 30 S BF	NAB18025
230 x 1,6 x 22,23	41	6650	25	25	A 36 S BF	NAB23016
230 x 1,9 x 22,23	41	6650	25	25	A 30 S BF	NAB23019
230 x 2,0 x 22,23	41	6650	25	25	A 30 S BF	NAB23020
230 x 2,5 x 22,23	41	6650	25	25	A 30 S BF	NAB23025
230 x 3,0 x 22,23	41	6650	25	25	A 30 S BF	NAB23030
300 x 3,0 x 32	41	5100	5	15	A 24 P BF	NAB30030

Cut-off wheels for metal and inox HETMAN

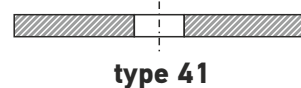


Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 1,0 x 22,23	41	13300	25	200	A 60 S BF	010115
115 x 1,2 x 22,23	41	13300	25	200	A 46 S BF	112115
115 x 1,6 x 22,23	41	13300	25	200	A 36 S BF	2616115
125 x 1,0 x 22,23	41	12250	25	200	A 60 S BF	210125
125 x 1,2 x 22,23	41	12250	25	200	A 46 S BF	312125
125 x 1,6 x 22,23	41	12250	25	200	A 36 S BF	416125
125 x 2,0 x 22,23	41	12250	25	100	A 30 S BF	122125
125 x 2,5 x 22,23	41	12250	25	100	A 30 S BF	132125
150 x 1,6 x 22,23	41	10200	25	75	A 36 S BF	516150
150 x 2,0 x 22,23	41	10200	25	50	A 30 S BF	152150
180 x 1,6 x 22,23	41	8500	25	75	A 36 S BF	616180
180 x 2,0 x 22,23	41	8500	25	50	A 30 S BF	172180
230 x 2,0 x 22,23	41	6650	25	25	A 30 S BF	720230
230 x 2,5 x 22,23	41	6650	25	25	A 30 S BF	825230
300 x 3,0 x 32	41	5100	15	15	A 24 P BF	213300
350 x 3,0 x 25,4	41	4400	15	15	A 24 P BF	223350



Cut-off wheels for rails NovoAbrasive Profi

These wheels are designed to cut any type of rails on stationary and manual equipment. The use of special hardened fused electro-corundum in combination with a soft bond allows you to quickly and efficiently perform cutting operations. Rotation speed of 100 meters per second. Processed material: hardened steel.



Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
350 x 3,5 x 25,4	41	5500	15	15	A 24 N BF	WM35035R
400 x 3,5 x 32	41	4800	10	10	A 24 N BF	WM40035R



ABRASIVE GRINDING WHEELS FOR METAL AND INOX

NovoAbrasive bakelite based grinding wheels are designed for peeling and grinding of metal and stainless steel work. Since there are no impurities of iron, chlorine and sulfur (Fe + Cl + S) and the use of special additives to improve heat dissipation from the contact area, all wheel chains are suitable for grinding of stainless steel. The grinding wheels produced by the Novoabrasive Factory are manufactured according to the technical requirements of TU U 23.9-37762568-001: 2014, according to the international safety standard EN 12413. They are MPA Hannover (Germany), the factory is a member of the European Abrasives Association FEPA Accredited according to ISO 9001: 2015.

★★★★★ Industrial series

Novoabrasive Extreme is a high-quality abrasives tool. This series of wheels has a standard life, high speed and convenience when working on metal and stainless steel grinding. Grinding wheels NovoAbrasive Extreme depend on the rate of molten aluminum oxide coating with an active, allowing an increase of its mechanical strength and special additives to improve the heat dissipation of the milling area. Due to the introduction of the latest engineering solutions in the production of grinding wheels, they are characterized by maximum productivity and highest performance.

Grinding wheels NovoAbrasive Extreme



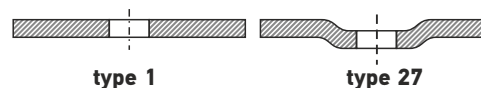
Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 6,0 x 22,23	27	13300	10	10	A 24 R BF	NAEGD11560/27
125 x 6,0 x 22,23	27	12250	10	10	A 24 R BF	NAEGD12560/27
180 x 6,0 x 22,23	27	8500	10	10	A 24 R BF	NAEGD18060/27
230 x 6,0 x 22,23	27	6650	10	10	A 24 R BF	NAEGD23060/27



★★★★★ Professional Series

Profi series grinding wheels are designed for grinding metal and stainless steel in both professional and home use. They have an optimal ratio of resource, material processing speed and price. For the production of wheels of this series, high-quality electrocorundum and special fillers are used to reduce heat generation in the grinding area.

Grinding wheels NovoAbrasive Profi

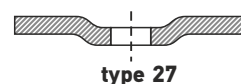


Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 6,0 x 22,23	1	13300	10	40	A 24 R BF	WG11560
115 x 8,0 x 22,23	1	13300	10	40	A 24 R BF	WG11580
125 x 6,0 x 22,23	1	12250	10	40	A 24 R BF	WG12560
125 x 8,0 x 22,23	1	12250	10	40	A 24 R BF	WG12580
150 x 6,0 x 22,23	1	10200	10	20	A 24 R BF	WG15060
150 x 8,0 x 22,23	1	10200	10	20	A 24 R BF	WG15080
180 x 6,0 x 22,23	1	8500	10	20	A 24 R BF	WG18060
180 x 8,0 x 22,23	1	8500	10	20	A 24 R BF	WG18080
230 x 6,0 x 22,23	1	6650	10	10	A 24 R BF	WG23060
230 x 8,0 x 22,23	1	6650	10	10	A 24 R BF	WG23080
115 x 6,0 x 22,23	27	13300	10	40	A 24 R BF	WG2711560
115 x 8,0 x 22,23	27	13300	10	40	A 24 R BF	WG2711580
125 x 6,0 x 22,23	27	12250	10	40	A 24 R BF	WG2712560
125 x 8,0 x 22,23	27	12250	10	40	A 24 R BF	WG2712580
150 x 6,0 x 22,23	27	10200	10	20	A 24 R BF	WG2715060
150 x 8,0 x 22,23	27	10200	10	20	A 24 R BF	WG2715080
180 x 6,0 x 22,23	27	8500	10	20	A 24 R BF	WG2718060
180 x 8,0 x 22,23	27	8500	10	20	A 24 R BF	WG2718080
230 x 6,0 x 22,23	27	6650	10	10	A 24 R BF	WG2723060
230 x 8,0 x 22,23	27	6650	10	10	A 24 R BF	WG2723080

★★★★★ DIY series

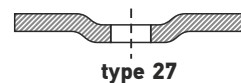
The standard series of wheels is the best solution for home use. Designed for grinding metal and stainless steel, have a high resource and grinding speed. Wheels are made on the basis of normal fused electro-corundum and contain additives to improve heat removal from the grinding zone.

Grinding wheels NovoAbrasive Standard



Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 6,0 x 22,23	27	13300	10	40	A 24 R BF	NAB11560
125 x 6,0 x 22,23	27	12250	10	40	A 24 R BF	NAB12560
150 x 6,0 x 22,23	27	10200	10	20	A 24 R BF	NAB15060
180 x 6,0 x 22,23	27	8500	10	20	A 24 R BF	NAB18060
230 x 6,0 x 22,23	27	6650	10	10	A 24 R BF	NAB23060

Grinding wheels Hetman



Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 6,0 x 22,23	27	13300	10	40	A 24 R BF	160115
125 x 6,0 x 22,23	27	12250	10	40	A 24 R BF	920230
180 x 6,0 x 22,23	27	8500	10	20	A 24 R BF	116180
230 x 6,0 x 22,23	27	6650	5	10	A 24 R BF	1025230

ABRASIVE CUT-OFF WHEELS FOR STONE

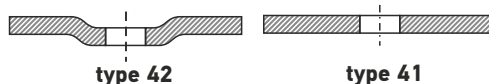
Cut-off wheels for stone and concrete are designed to work with bricks, concrete, stone tiles and natural stone.

Abrasive wheels are manufactured according to GOST standards DSTU GOST 21963-2003 and according to European standard EN 12413 and safety rules. They are certified by MPA Hannover (Germany). Novoabrasive Factory is a member of the European Association of Abrasive Manufacturers FEPA and has been certified according to the ISO 9001: 2015 standard.

☆☆☆☆☆ **Professional Series**

Grinding wheels are designed for grinding metal and stainless steel in both professional and home use. Made of silicon carbide, a material with high hardness with strengthening fillers providing high efficiency of working with construction materials.

Cut-off wheels for stone NovoAbrasive



Size, mm	Type	Max rpm	Qty, pcs/set	Qty, pcs/box	Marking	Item No.
115 x 2,0 x 22,23	41	13300	25	100	C 36 R BF	WS11520
115 x 2,5 x 22,23	41	13300	25	100	C 24 R BF	WS11525
115 x 3,0 x 22,23	41	13300	25	100	C 24 R BF	WS11530
125 x 2,0 x 22,23	41	12250	25	100	C 36 R BF	WS12520
125 x 2,5 x 22,23	41	12250	25	100	C 24 R BF	WS12525
125 x 3,0 x 22,23	41	12250	25	100	C 24 R BF	WS12530
150 x 2,0 x 22,23	41	10200	25	50	C 36 R BF	WS15020
150 x 2,5 x 22,23	41	10200	25	50	C 24 R BF	WS15025
150 x 3,0 x 22,23	41	10200	25	50	C 24 R BF	WS15030
180 x 2,0 x 22,23	41	8500	25	50	C 36 R BF	WS18020
180 x 2,5 x 22,23	41	8500	25	50	C 24 R BF	WS18025
180 x 3,0 x 22,23	41	8500	25	50	C 24 R BF	WS18030
230 x 2,0 x 22,23	41	6650	25	25	C 36 R BF	WS23020
230 x 2,5 x 22,23	41	6650	25	25	C 24 R BF	WS23025
230 x 3,0 x 22,23	41	6650	25	25	C 24 R BF	WS23030
115 x 2,5 x 22,23	42	13300	25	100	C 24 R BF	WS4211525
115 x 3,0 x 22,23	42	13300	25	100	C 24 R BF	WS4211530
230 x 2,5 x 22,23	42	6650	25	25	C 24 R BF	WS4223025
230 x 3,0 x 22,23	42	6650	25	25	C 24 R BF	WS4223030



FLEXIBLE ABRASIVES



**Novo
Abrasive** EXTREME

★★★★★

Ø 125
x 22.2 mm

80 m/s



EN 13743



P40

Type 29

MAX RPM
12200



NECR40125



КРУГ
ПЕЛЮСТКОВИЙ
ТОРЦЕВИЙ

FLAP DISC

КРУГ
ЛЕПЕСТКОВЫЙ
ТОРЦЕВОЙ

керамика металл+нерж / metal+inox ceramic

ООО "НовоАбразив", Харьковская обл., 63202, Украина, ЕОП ООО «НовоАбразив», Харьковская обл., 63202, Украина, ул. Карпинская 1А/Б, 63202, Украина, г.гт.Новий Бироза, ул. Карпинская 1А/Б, 63202, Украина.
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Tel./Fax: +38 (057) 765-34-28
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2021

novoabrasive.com

Flap discs



★★★★★ **Industrial series**

- aluminum oxide
- zirconium
- ceramic

Flap discs NovoAbrasive Extreme

As a high quality industrial product the Extreme range has been designed by Factory experts meeting the most demanding customers needs for work in hard conditions with a variety of materials.

This series is made in 3 ranges.

Ceramic grain ensuring resistance to high temperature in treatment of alloy steel.

Zirconium oxide for Stainless Steel. Applied for Inox and hard Steel.

Aluminum oxide – for Carbon Steel, non-ferrous metals, wood and composite materials.



★★★★☆ **Professional series**

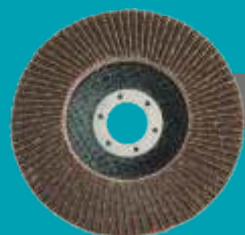
- aluminum oxide
- zirconium

Flap discs NovoAbrasive Profi

Flap Discs NovoAbrasive Profi – designed for professional use. The best choice for massive industrial use. Best ratio of price and quality.

- zirconium oxide is designed for processing stainless, alloy, high-carbon steel and hard alloys;

- alumina is designed for processing high-carbon steel, tool steel, non-ferrous metals, wood and composite materials.



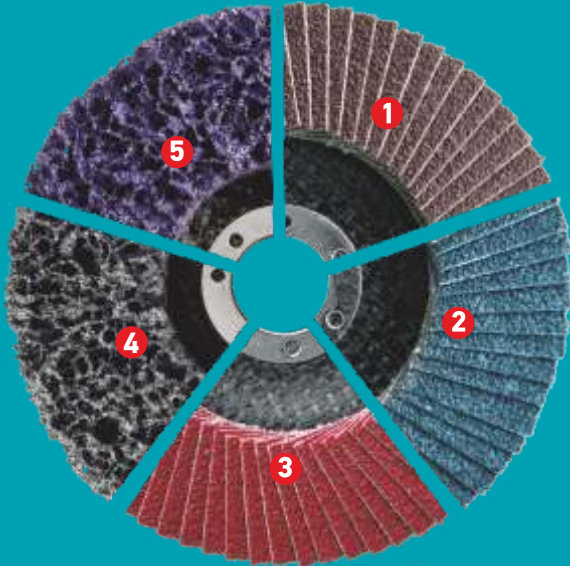
★★★★☆ **DIY series**

- aluminum oxide

Flap Discs TM NovoAbrasive Standard

It is characterized by high resource and fast processing speed for home use. The series includes alumina Flap Discs, which are designed to process high carbon steel, steel tools, non-ferrous metals, wood and composites.

Types of abrasive materials



1. Aluminum oxide (electro-corundum)

Designed to work with high carbon steel, tool steel, non-ferrous metals, wood, composite materials.

2. Zirconium oxide (zirconium fused alumina)

It is used for processing stainless, alloyed, high-carbon steel, hard alloys.

3. Ceramic grain

Designed to process stainless steel, alloy steel, high strength alloy and high carbon steel. Its distinctive feature is resistance to high temperatures, acids and alkalis;

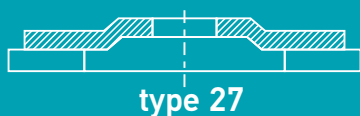
4. Non-woven abrasive material- soft (SOFT)

Designed to remove rust and paint from car body parts;

5. Non-woven abrasive material- hard (HARD)

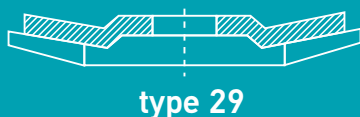
It is used to remove outdated paint and rust deeply penetrated from metal surfaces.

Type of flap disc by shape



T27 (flat type)

for application on flat surfaces (working angle is 0-15 degrees)



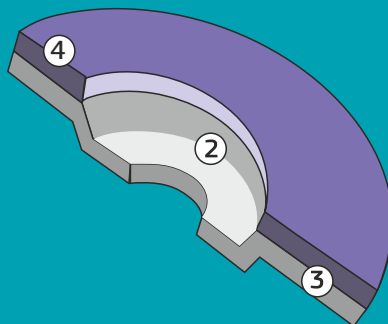
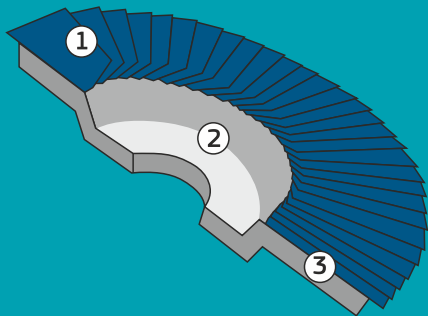
T29 (conical type)

for uneven surface treatment and edge grinding (working angle is 15-25 degrees)

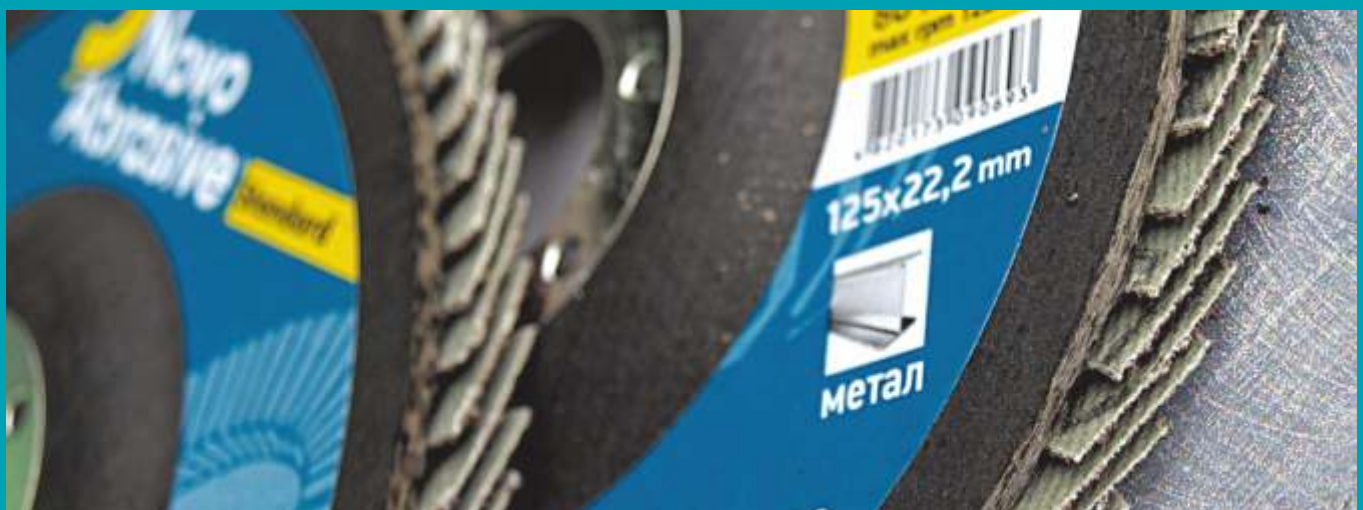
Technical information



Disc structure



- 1. Abrasive Flaps
- 2. Fiberglass Base
- 3. Polymer adhesive
- 4. Non-woven abrasive material (art. NAPCS125, NASCS125)



Clean & strip discs NovoAbrasive

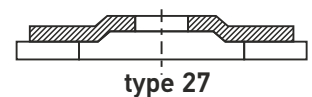
NEW



It is intended for fast removal of a rust and outdated paint from metal surfaces at preparation before painting by using angle grinder. The disc has an open (porous) structure that provides a high service life, prevents overheating and influx of metal on the rust. These disc are suitable for use with lubricating and cooling fluids (coolants). The range includes two types of disks:

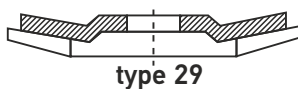
Soft - due to its low rigidity, the wheel is suitable for delicate removal of rust and paint from car body parts, leaving no traces of grinding on the metal during operation.

Hard - due to the increased concentration of abrasive grain, the wheel is suitable for cleaning deeply penetrated rust and old paint from the metal surface, leaving minimal traces of grinding.



Size, mm	Type	Max rpm	Color	Hardness	Qty, pcs/set	Item No.
125 x 22,23	27	7600	Violet	Hard	5	NAPCS125
125 x 22,23	27	7600	Black	Soft	5	NASCS125

Flap discs NovoAbrasive Extreme



Extreme AL industrial series is made of high-quality alumina, evenly and securely fixed on a high-density fabric base. The discs have an increased number of flaps - 90 pieces, which gives it a record life compared to other discs based on alumina. It is used in the processing of high carbon steel, tool steel, non-ferrous metals, wood and composite materials.

aluminum oxide



EN13743

Type	Max rpm	Grain	Qty, pcs/set	Item No.
29	12200	40	10	NEAL40125
29	12200	60	10	NEAL60125
29	12200	80	10	NEAL80125

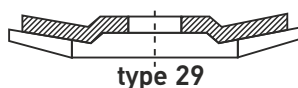
Extreme ZR industrial series is made of extremely strong zirconium oxide grain for aggressive metal removal, which is evenly and securely fixed on a high-density fabric base and has a self-sharpening effect. The disc has an increased number of flaps - 90 pieces, which gives it a record life compared to other discs based on zirconium oxide. Designed for processing stainless, alloy, high carbon steel and hard alloys. Free of iron, chlorine and sulfur.

zirconium



EN13743

Type	Max rpm	Grain	Qty, pcs/set	Item No.
29	12200	40	10	NE40125
29	12200	60	10	NE60125
29	12200	80	10	NE80125





Extreme CR industrial series is made on the basis of ceramic abrasive grain, which has the highest cutting and wear-resistant properties compared to other abrasive materials. Ceramic grain is resistant to high temperatures, acids and alkalis. The disc has an increased number of flaps - 82 pieces, which provides a high service life of grinding. Designed for grinding stainless steel, alloy steel and high-strength alloys. Free of iron, chlorine and sulfur.

ceramic



EN13743

Type	Max rpm	Grain	Qty, pcs/set	Item No.
29	12200	40	10	NECR40125
29	12200	60	10	NECR60125
29	12200	80	10	NECR80125

Flap discs NovoAbrasive Profi



Professional series Profi AL is made of the aluminum oxide fixed on a fabric pad of the increased density. The disc has an increased number of flaps - 82 pieces, that provides high productivity and long working life. It is used for working with high-carbon steel, tool steel, non-ferrous metals, wood and composite materials

aluminum oxide



EN13743

Type	Max rpm	Grain	Qty, pcs/set	Item No.
27	12200	P40	10	NP2740125
27	12200	P60	10	NP2760125
27	12200	P80	10	NP2780125
29	12200	P40	10	NP40125
29	12200	P60	10	NP60125
29	12200	P80	10	NP80125
29	12200	P100	15	NP100125
29	12200	P120	15	NP120125

Professional series Profi ZR is made of zirconium oxide fixed on a fabric pad of the increased density. The disc has an increased number of flaps - 82 pieces, that provides high productivity and long working life. It is used for working with inox, alloy, high-carbon steel and hard alloys.

zirconium



EN13743

Type	Max rpm	Grain	Qty, pcs/set	Item No.
27	12200	P40	10	NPZR2740125
27	12200	P60	10	NPZR2760125
27	12200	P80	10	NPZR2780125
29	12200	P40	10	NPZR40125
29	12200	P60	10	NPZR60125
29	12200	P80	10	NPZR80125
29	12200	P100	15	NPZR100125
29	12200	P120	15	NPZR120125

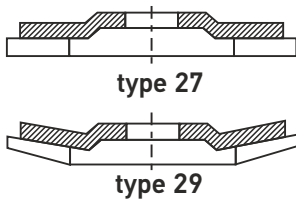
Flap discs NovoAbrasive Standard

Standard series AL flap discs for household use. The abrasive material is made of aluminum oxide. Flap disc has 72 flaps and provides efficient grinding of high-carbon steel, tool steel, non-ferrous metals, wood and composite materials.

aluminum oxide



EN13743



Type	Max rpm	Grain	Qty, pcs/set	Item No.
27	12200	P36	10	NS2736125
27	12200	P40	10	NS2740125
27	12200	P60	10	NS2760125
27	12200	P80	10	NS2780125
27	12200	P100	15	NS27100125
27	12200	P120	15	NS27120125
29	12200	P36	10	NS2936125
29	12200	P40	10	NS2940125
29	12200	P60	10	NS2960125
29	12200	P80	10	NS2980125
29	12200	P100	15	NS29100125
29	12200	P120	15	NS29120125



Velcro sanding discs, 8 holes NovoAbrasive

NEW



Aluminum oxide velcro sanding discs are intended for grinding of wood, parquet, paint and coatings surfaces, fiberboard, chipboard, plastic on random-orbital disc sanders. The disc are made on a paper base of high density, which provides a high resource and reliable fixation of abrasive material. 8 holes effectively remove dust in the place of grinding.



Size, mm	Grain	Qty, pcs/set	Qty, pcs/box	Item No.
125	P40	5	120	NASD812540
125	P60	5	140	NASD812560
125	P80	5	140	NASD812580
125	P100	5	180	NASD8125100
125	P120	5	180	NASD8125120
125	P180	5	180	NASD8125180
125	P240	5	190	NASD8125240
125	P320	5	190	NASD8125320
150	P40	5	120	NASD815040
150	P60	5	140	NASD815060
150	P80	5	140	NASD815080
150	P100	5	180	NASD8150100
150	P120	5	180	NASD8150120
150	P180	5	180	NASD8150180
150	P240	5	190	NASD8150240
150	P320	5	190	NASD8150320

Velcro sanding discs NovoAbrasive

NEW



Designed for grinding of wood, parquet, paint and coatings surfaces, fiberboard, particleboard, plastic, metal on angle grinders and drills. The discs are made on a paper pad of high density, that provides high resource and reliable fixation of abrasive material.

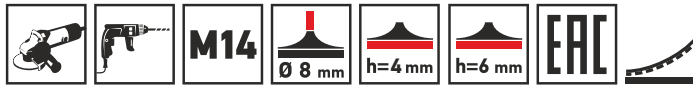


Size, mm	Grain	Qty, pcs/set	Qty, pcs/box	Item No.
125	P40	5	120	NASD12540
125	P60	5	140	NASD12560
125	P80	5	140	NASD12580
125	P100	5	180	NASD125100
125	P120	5	180	NASD125120
125	P180	5	180	NASD125180
125	P240	5	190	NASD125240
125	P320	5	190	NASD125320
150	P40	5	120	NASD15040
150	P60	5	140	NASD15060
150	P80	5	140	NASD15080
150	P100	5	180	NASD150100
150	P120	5	180	NASD150120
150	P180	5	180	NASD150180
150	P240	5	190	NASD150240
150	P320	5	190	NASD150320

Velcro backing pads, M14 NovoTools



The pads are designed to work with grinding and polishing discs that have a self-locking base, using angle grinders and drills. With their help it is possible to operate a wide range of grinding and polishing works on various surfaces.



Size, mm	Pad height, mm	Qty, pcs/box	Adapter	Item No.
100	4	120	+	NTRVD10014
125	6	100	+	NTRVD125142
150	6	60	-	NTRV15014
150	6	60	+	NTRVD15014



Sanding belts NovoAbrasive



The tape is intended for grinding large area of wood, parquet, coverings of paint and varnish, DVP and chipboard on belt mills. The high-density fabric base prevents tape from snagging and ensures high-quality material handling.



Size, mm	Grain	Qty, pcs/set	Qty, pcs/box	Item No.
100 x 610	P40	3	60	NASB10061040
100 x 610	P60	3	60	NASB10061060
100 x 610	P80	3	60	NASB10061080
100 x 610	P100	3	60	NASB100610100
100 x 610	P120	3	60	NASB100610120
75 x 533	P40	3	100	NASB7553340
75 x 533	P60	3	100	NASB7553360
75 x 533	P80	3	100	NASB7553380
75 x 533	P100	3	100	NASB75533100
75 x 533	P120	3	100	NASB75533120
75 x 457	P40	3	100	NASB7547540
75 x 457	P60	3	100	NASB7547560
75 x 457	P80	3	100	NASB75475680
75 x 457	P100	3	100	NASB75475100
75 x 457	P120	3	100	NASB75475120

Sanding mesh sheets NovoAbrasive



Sanding mesh sheets are intended for grinding of plaster, drywall, plaster, wood, fiberboard, a chipboard and plastic before priming and painting of surfaces by means of manual graters.



Size, mm	Grain	Qty, pcs/set	Qty, pcs/box	Item No.
115 x 280	P60	10	100	NASM11528060
115 x 280	P80	10	100	NASM11528080
115 x 280	P100	10	100	NASM115280100
115 x 280	P120	10	100	NASM115280120
115 x 280	P180	10	100	NASM115280180
115 x 280	P240	10	100	NASM115280240
115 x 280	P320	10	100	NASM115280320

Grinding sponges NovoAbrasive



The sponge for polishing is intended for processing of wood, plastic or metal manually. The profiled base of the sponge is able to adapt to the shape of the part for effective grinding, so it is ideal for processing grooves and smoothly curved surfaces. Due to the foam base, it is convenient to hold during sanding by hand. Sponges for polishing are resistant to moisture, so they can be washed and reused.



Size, mm	Grain	Qty, pcs/box	Item No.
100 x 68 x 26	P80	300	NASS682680
100 x 68 x 26	P120	300	NASS6826120
100 x 68 x 26	P180	300	NASS6826180
100 x 68 x 26	P240	300	NASS6826240
100 x 68 x 26	P320	300	NASS6826320
100 x 68 x 42 x 26	P80	360	NASS68422680
100 x 68 x 42 x 26	P120	360	NASS684226120
100 x 68 x 42 x 26	P180	360	NASS684226180
100 x 68 x 42 x 26	P240	360	NASS684226240
100 x 68 x 42 x 26	P320	360	NASS684226320



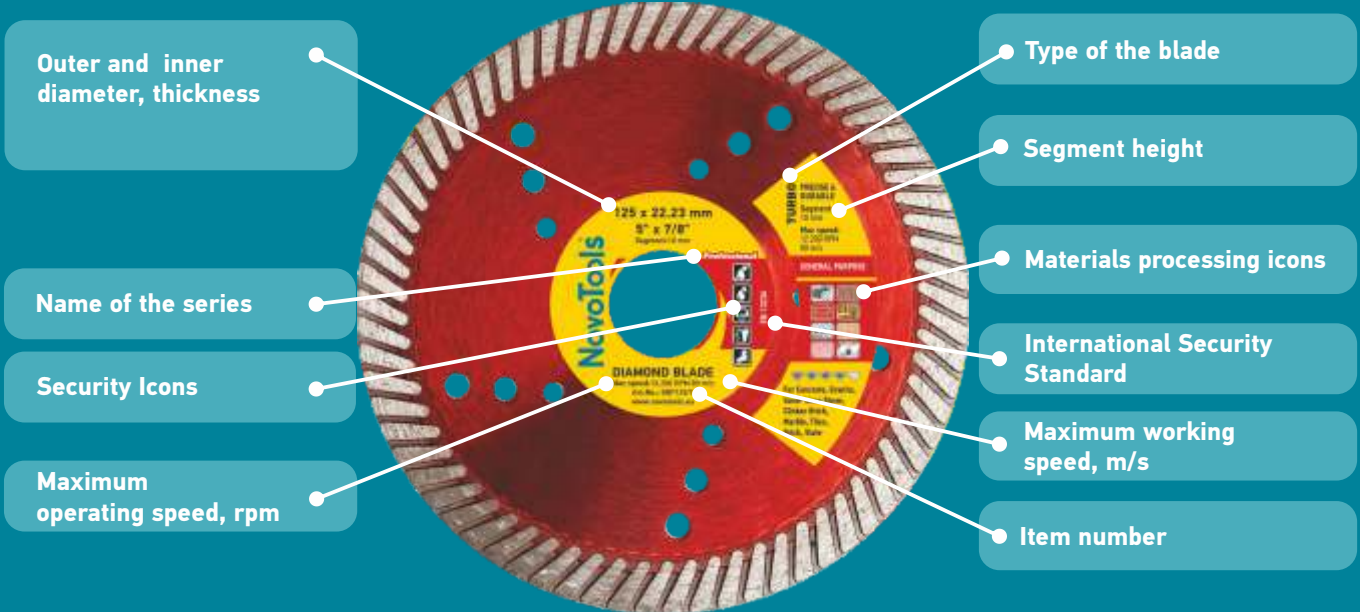
DIAMOND BLADES



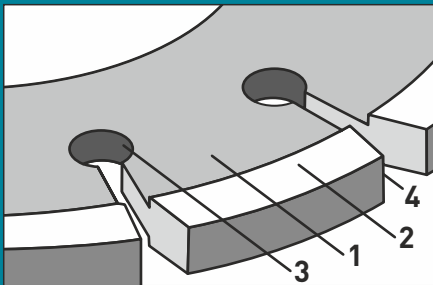
2021

novoabrasive.com

General specifications



Disc structure



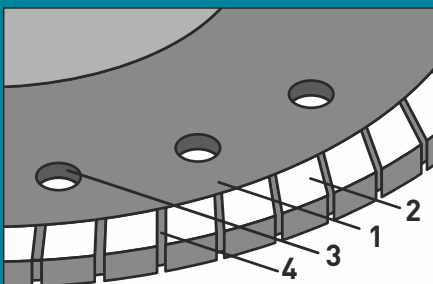
The best processing result is achieved by combining 4 main components:

1. Disc base - made of steel, which is connected with diamond tape segments.

2. Tape segments - consist of a mixture of metal powder and diamond grains.

3. Holes - used to dampen vibration during operation.

4. Segment slots - responsible for the removal of cutting products and additional cooling of the working surface of the disc.



NovoTools diamond Blades – European quality Diamond tool, which has a high service life and provides excellent material cutting speed. Diamond segments are made with a hot-pressing technique, in which a mixture of diamond grains and metal powder is exposed to high temperatures (600-800 °C) and pressure. Next, the diamond segments are sintered with the base of the disk. This method ensures that the diamond coating is resistant to overheating and allows the use of NovoTools diamond discs for dry cutting and cutting using water cooling.

NovoTools diamond discs are used for cutting concrete, brick, reinforced concrete, asphalt, roof tiles, ceramic tiles, granite and marble.

All tools comply with the international safety standard EN 13236.



Industrial Series

Diamond cutting Discs NovoTools Profi

The Industrial series NovoTools Profi are designed for those who value high resource and cutting speed. The disc has an increased concentration of diamond grains - 22-26% and a cutting segment width - 10 mm, that provides maximum resource and high productivity during operation. Due to the higher concentration of diamond grains, the disc has twice the service life and cutting speed compared to the DIY series. The choice of true professionals.



Professional Series

Diamond cutting and grinding Discs NovoTools Standard

The Professional series NovoTools Standard are designed with optimal life and cutting speed, the concentration of diamond grains applied to the cutting segment is 18-20%.

Therefore, the discs are well suited for both professional and home use. European quality at Ukrainian price.



DIY Series

Diamond cutting Discs NovoTools Basic

The DIY series NovoTools Basic have a concentration of diamond grains applied to the cutting segment is 14-16%. The discs are designed for small volumes of work and home use.

The DIY series has the lowest disc cost among of the three series.

Diamond blades NovoTools Continuous

Intended for a delicate and equal cut without chips of a ceramic tile, marble, an artificial stone by angle grinder or a tile cutter. To obtain the ideal cut quality and extend the life of the disc, it is recommended to use water cooling.

- Advantages:**
- Do not create chips;
 - Possibility of dry and wet cutting;
 - Diamond blades are manufactured according to international standard of safety EN 13236



Diamond blades NovoTools Profi, Continuous



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
125 x 22.23	10	Continuous	80 (12200)	50	DBP125/C

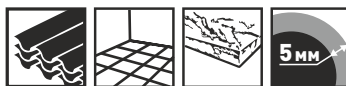
Diamond blades NovoTools Standard, Continuous



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
115 x 22.23	5	Continuous	80 (13300)	50	DBS115/C
125 x 22.23	5	Continuous	80 (12200)	50	DBS125/C
230 x 22.23	5	Continuous	80 (6600)	25	DBS230/C



Diamond blades NovoTools Basic, Continuous



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
115 x 22.23	5	Continuous	80 (13300)	50	DBB115/C
125 x 22.23	5	Continuous	80 (12200)	50	DBB125/C
150 x 22.23	5	Continuous	80 (10200)	50	DBB150/C
180 x 22.23	5	Continuous	80 (8600)	25	DBB180/C
230 x 22.23	5	Continuous	80 (6600)	25	DBB230/C



Diamond blades NovoTools Segmented

Intended for fast and deep cutting of concrete, brick, natural stone and asphalt covering by angle grinder. Segment slots contribute to the efficient removal of cutting products, additional cooling and increase the cutting speed.

- Advantages:**
- Fast and deep cut;
 - Possibility of dry and wet cutting,
 - Diamond discs are manufactured according to international standard of safety EN 13236



Diamond Discs NovoTools Profi, Segmented



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
125 x 22.23	10	Segmented	80 (12200)	50	DBP125/S

Diamond Discs NovoTools Standard, Segmented



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
115 x 22.23	7	Segmented	80 (13300)	50	DBS115/S
125 x 22.23	7	Segmented	80 (12200)	50	DBS125/S
230 x 22.23	7	Segmented	80 (6600)	25	DBS230/S



Diamond Discs NovoTools Basic, Segmented



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
115 x 22.23	7	Segmented	80 (13300)	50	DBB115/S
125 x 22.23	7	Segmented	80 (12200)	50	DBB125/S
150 x 22.23	7	Segmented	80 (10200)	50	DBB150/S
180 x 22.23	7	Segmented	80 (8600)	25	DBB180/S
230 x 22.23	7	Segmented	80 (6600)	25	DBB230/S



Diamond blades NovoTools Turbo

Intended for the fastest and cleanest cutting of concrete, reinforced concrete, granite, brick, marble, slate, tiles with Angle Grinder. Special waves promote efficient dust removal and cooling.

- Advantages:**
- For the fastest possible cut;
 - Possibility of dry and wet cutting;
 - Diamond discs are manufactured according to international standard of safety EN 13236



Diamond Discs NovoTools Profi, Turbo



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
125 x 22.23	10	Turbo	80 (12200)	50	DBP125/T
230 x 22.23	10	Turbo	80 (6600)	25	DBP230/T



Diamond Discs NovoTools Standard, Turbo



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
115 x 22.23	7	Turbo segment	80 (13300)	50	DBS115/T
125 x 22.23	7	Turbo segment	80 (12200)	50	DBS125/T
230 x 22.23	7	Turbo segment	80 (6600)	25	DBS230/T



Diamond Discs NovoTools Basic, Turbo Wave



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
115 x 22.23	7	Turbo Wave	80 (13300)	50	DBB115/TW
125 x 22.23	7	Turbo Wave	80 (12200)	50	DBB125/TW
150 x 22.23	7	Turbo Wave	80 (10200)	50	DBB150/TW
180 x 22.23	7	Turbo Wave	80 (8600)	25	DBB180/TW
230 x 22.23	7	Turbo Wave	80 (6600)	25	DBB230/TW

Diamond grinding cups NovoTools



Professional Diamond Grinding Cups are designed to harden and remove surface imperfections in concrete, brick, natural stone, walls and floors with angle grinder. The double row of diamond segments provides high grinding speed and productivity.

- Advantages :**
- Long service life due to hot pressing technology;
 - High processing speed;
 - Individual balancing of each cup;
 - Wet and dry grinding capability;
 - Compliance with the international safety standard EN 13236.



Size, mm	Segment, mm	Type	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
125 x 22.23	7	Grinding	80 (12000)	20	NTDDGW125

Diamond polishing pad NovoAbrasive



The discs are designed for grinding and polishing ceramic tiles, porcelain tile, marble, granite and other hard and brittle materials using angle grinder. The flexible base of the disc allows well process a plane, ends and even rounded products. Suitable for both wet (using water) and dry grinding.



Size, mm	Grain	Qty, pcs/box	Item No.
100	P60	240	NADP10060
100	P100	240	NADP100100
100	P200	240	NADP100200
100	P400	240	NADP100400



Diamond Discs NovoTools Turbo comparison test

Data based on concrete cutting:

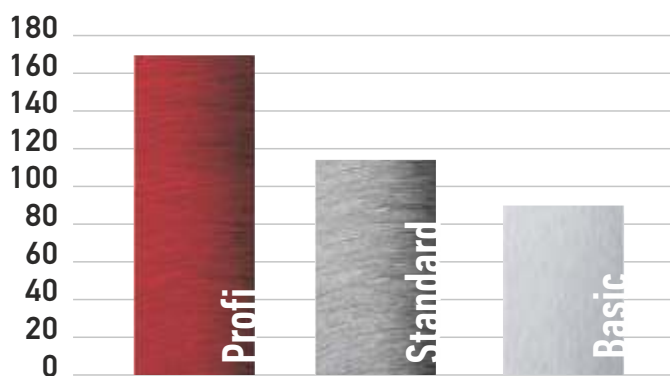
Cutting depth - 4 cm

Cutting length - 50 cm

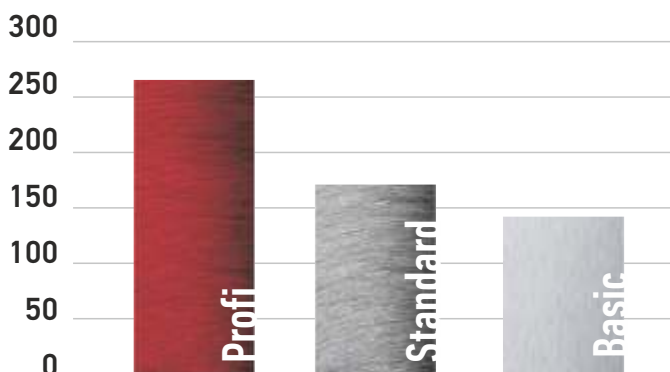
Tool: angle grinder 2,5 kW

Diamond Disc 230 mm

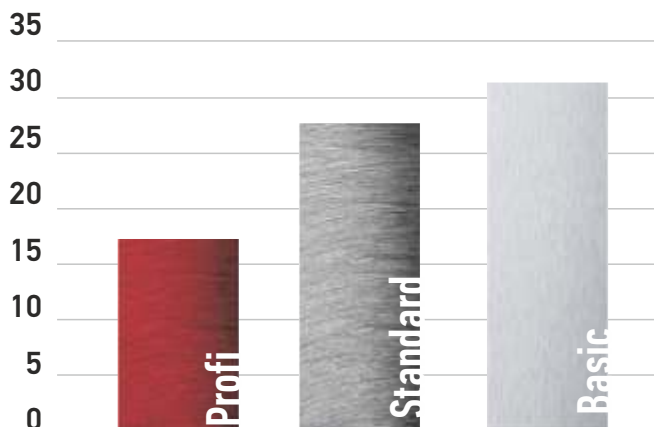
Productivity, cm/min



Cutting length, meters



Cutting time, seconds



Diamond Discs NovoTools Segmented Comparison Test

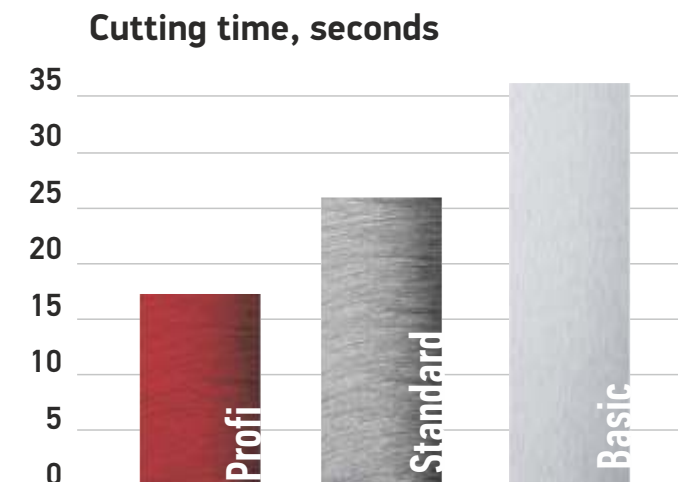
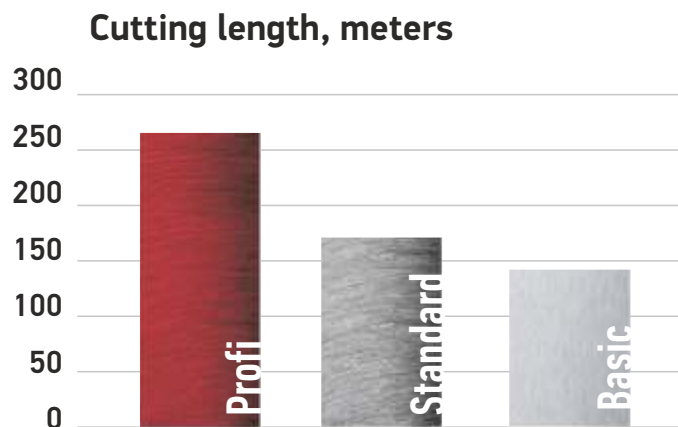
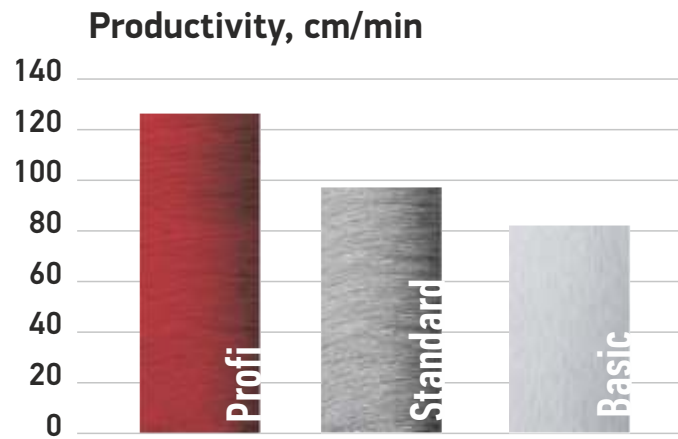
Data based on concrete cutting:

Cutting depth - 4 cm

Cutting length - 50 cm

Tool: angle grinder 2,5 kW

Diamond Disc 230 mm



Diamond Discs NovoTools Continuous Comparison Test

Data based on tile cutting:

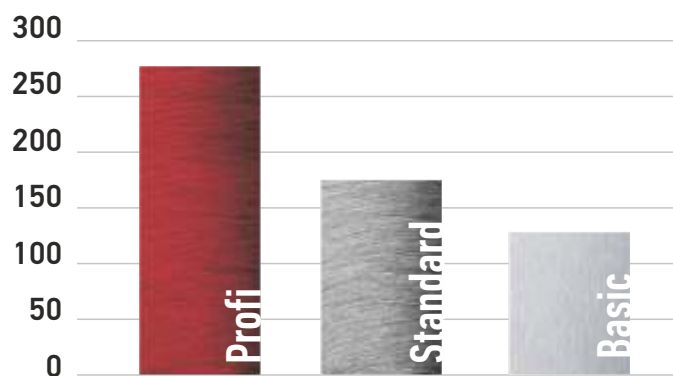
Cutting depth - 11 mm

Cutting length - 30 cm

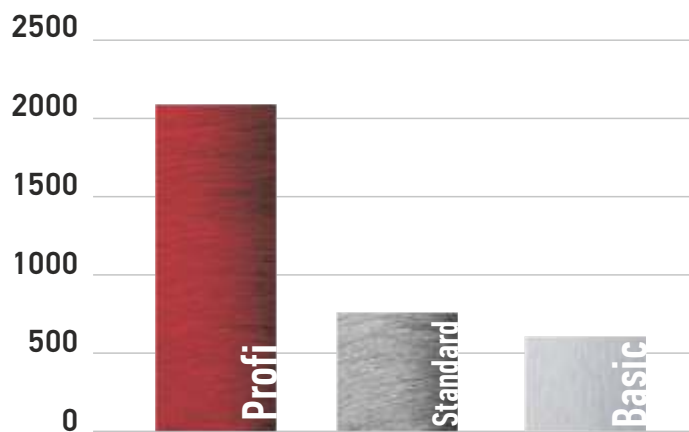
Tool: Tile saw 0.7 kW

Diamond Disc 230 mm

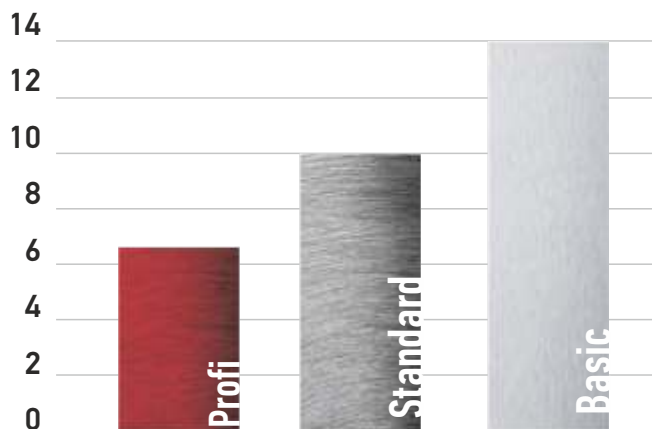
Productivity, cm/min



Cutting length, meters



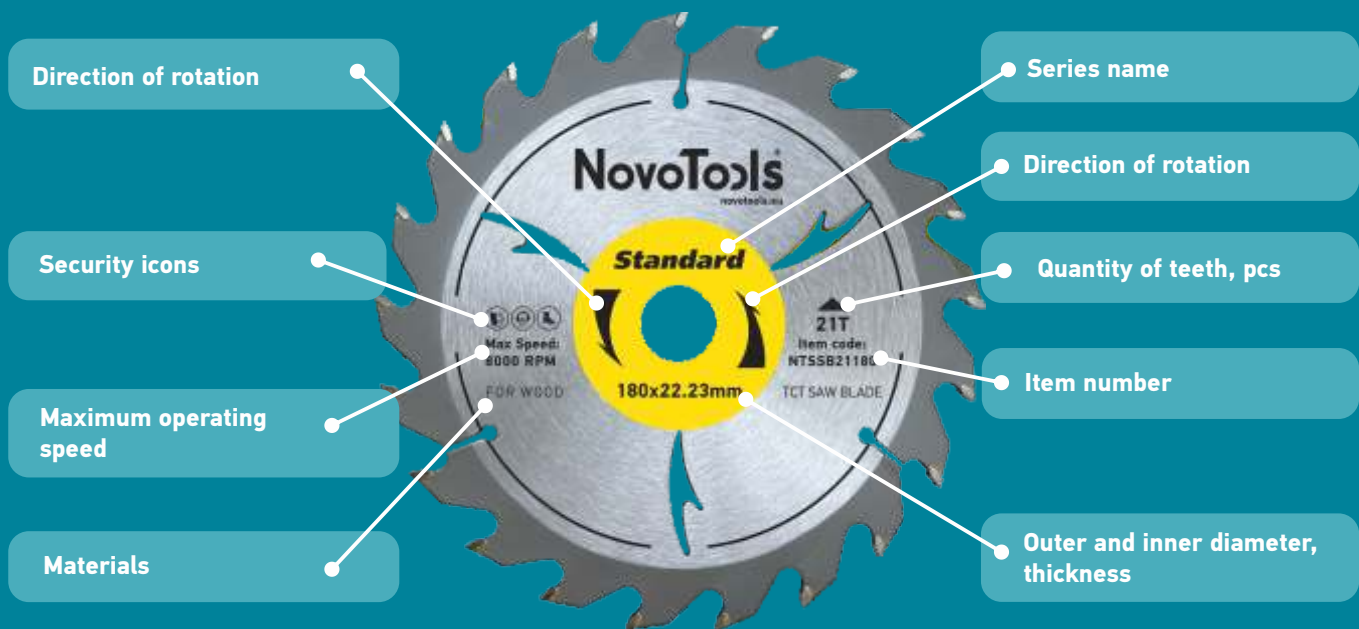
Cutting time, seconds



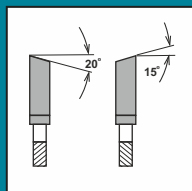
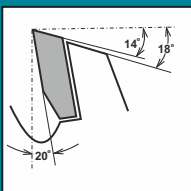


A distinctive feature of saw blades NovoTools and WellCut is their production technology by stamping from solid sheet metal instead of rolled sheet metal. All discs undergo an automatic balancing and grinding process, and additional slots reduce vibration and noise. All this ensures high accuracy of disc geometry and the absence of backlash during operation. Carbide solders made of cobalt and tungsten carbide alloy, which are in optimal concentration, give the disc high cutting ability and resource. The discs are equipped with transition rings of smaller diameter, which fit tightly into the bore and do not cause vibration during operation. And the transparent packaging that opens allows for easy storage of the tool.

General specifications



Types of saw blade tips



Saw blades have a variable angle of sharpening the teeth. The angles of inclination of the teeth are indicated in the diagram. All saw blades are well suited for both transverse and longitudinal clean cuts of hard and soft wood, chipboard, plywood.

Recommendations for saw blades Usage

For longitudinal sawing of wood it is recommended to use a disc with the number of teeth from 12 to 36, which provides fast cutting and allow you to see more material for further processing.

For cross-cutting of beams and workpieces, it is recommended to use a disc with the number of teeth from 48 to 120, which allows you to get a cleaner and smoother cut and allows you to proceed to the final finish.

For universal sawing, lengthwise and crosswise, it is recommended to use a disc with the number of teeth from 40 to 60, which without changing the disc, will allow to perform high-quality longitudinal and transverse sawing.

Universal saw blades for angle grinder



The discs are designed for safe sawing of wood, chipboard, fiberboard, plastic, drywall and aerated concrete using angle grinders and hand-held circular saws.

The special shape of the disc allows it to be securely fastened, prevents impacts and jamming and overheating during long-term operation.

- Advantages:**
- For safety use with angle grinder;
 - 100 % correct geometry and balancing of the disc;
 - High quality cobalt and tungsten carbide alloy welding;



Size, mm	Teeth, pcs	Width of teeth/disc, mm	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
115 x 22.23	3	3,8/2,2	13200	100	NTPSB1153T
125 x 22.23	3	3,8/2,2	12200	100	NTPSB1253T

Saw blades for wood

All saw blades are designed for professional use. Made of hardened steel. Saw teeth come with cobalt and tungsten carbide welding. Weld hardness is 88 according to the Rockwell method. Anti-vibration holes are used in saw blades to reduce vibration and cool the blade during operation.

- Advantages:-**
- 100 % correct disc geometry and balance;
 - high quality cobalt and tungsten carbide alloy tips;
 - resource increase by up to 10 times compared to monolithic disks;
 - adapter rings for changing the diameter of the fit in each package.

Saw blades for wood NovoTools



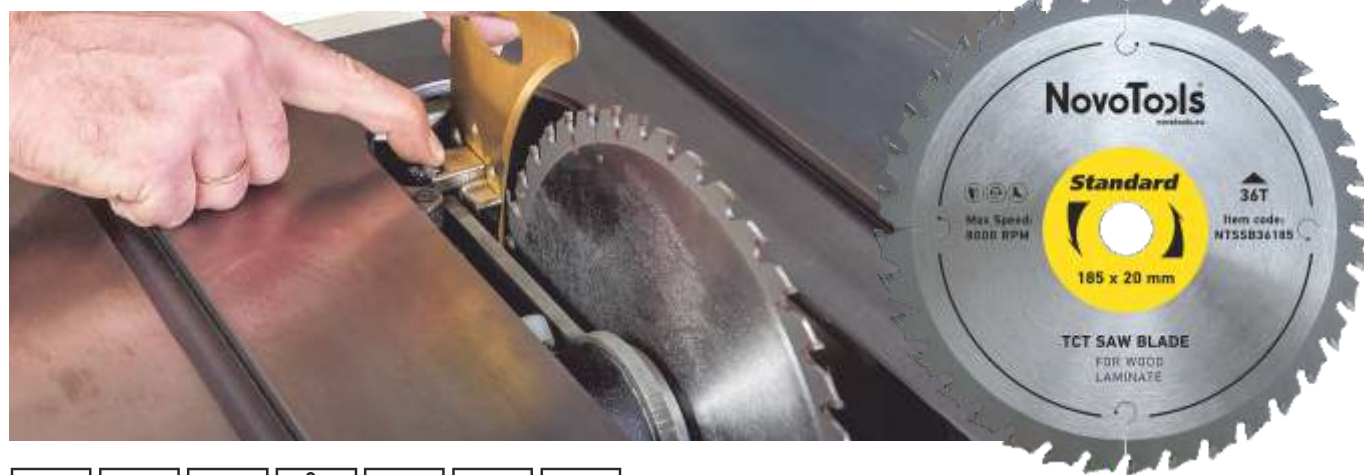
Size, mm	Teeth, pcs	Width of teeth/disc, mm	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
115 x 22.23	24	1,8/1,1	14000	100	NTSSB24115
115 x 22.23	40	1,8/1,1	14000	100	NTSSB40115
125 x 22.23	24	1,8/1,1	12000	100	NTSSB24125

Size, mm	Teeth, pcs	Width of teeth/disc, mm	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
125 x 22.23	40	1,8/1,1	12000	100	NTSSB40125
150 x 22.23	24	2,1/1,3	10000	50	NTSSB24150
150 x 22.23	30	2,1/1,3	10000	50	NTSSB30150
180 x 22.23	21	2,1/1,3	8000	50	NTSSB21180
180 x 22.23	30	2,1/1,3	8000	50	NTSSB30180
180 x 32	30	2,1/1,3	8000	50	NTSSB3018032
185 x 20	20	2,1/1,3	8000	50	NTSSB20185
185 x 20	40	2,1/1,3	8000	50	NTSSB40185
190 x 30	24	2,1/1,4	7800	50	NTSSB2419030
190 x 30	40	2,1/1,4	7800	50	NTSSB40190
200 x 32	40	2,1/1,4	7000	50	NTSSB40200
200 x 32	60	2,1/1,4	7000	50	NTSSB60200
210 x 30	24	2,1/1,4	7000	50	NTSSB24210
230 x 22.23	40	2,3/1,6	6500	25	NTSSB40230
230 x 22.23	60	2,3/1,6	6500	25	NTSSB60230
250 x 32	40	2,5/1,8	6000	25	NTSSB40250
250 x 32	60	2,5/1,8	6000	25	NTSSB60250
300 x 32	48	2,7/2	5000	10	NTSSB48300

Saw blades for laminate, wood and plastic

Intended for high-quality sawing of laminate boards and plastic. Due to the increased hardness of the weld, which is 91 by the Rockwell method, the disc does not produce chips when cutting the laminate.

At the base of the disc damping holes made by laser cut, providing high stability and accuracy. The special shape of the hole reduces the noise level during operation. These discs are also suitable for sawing hard and soft wood, chipboard and plywood.



Size, mm	Teeth, pcs	Width of teeth/disc, mm	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
185 x 20	36	2,1/1,3	8000	50	NTSSB36185



Monolithic-type saw blades

Quality discs for cutting wood. Made of hardened steel. They are characterized by affordable price and the ability to re-sharpen the teeth without the use of special equipment.

- Advantages:-**
- 100 % correct disc geometry and balance
 - suitable for re-sharpening
 - adapter rings for changing the diameter of the fit in each package.



long
life

100%
BALANCE

EN847-1

Size, mm	Teeth, pcs	Width of teeth/disc, mm	Max speed, m/s (rpm)	Qty, pcs/box	Item No.
125 x 22.23	48	1,1	12000	100	NTSSB48125



Adapter rings for saw blades

Adapter rings are designed to regulate a fit place of the disc for using with any rotary saw.



Size, mm	Material	Pcs
20 x 16	Steel	1
30 x 16	Steel	1
30 x 20	Steel	1
30 x 22	Steel	1
32 x 30	Steel	1
32 x 25,4	Steel	1
32 x 22	Steel	1
32 x 20	Steel	1
50 x 32	Steel	1

BRUSHES FOR METAL



NovoTools metal brushes are a high-quality European tool designed specifically for professional and home use, as well as for work with increased complexity. Each brush is subjected to wire heat treatment, automatic balancing and equipped with reinforced nuts and washers, that provides high resistance to wear, low vibration and a high level of safety. The tool is designed for cleaning surfaces, polishing, removing rust, paint, welding and other types of work. Used with angle grinders and drills. Suitable for working with metal, plastic and wood.

NovoTools Crimped wire cup brush, brass-coated



Bore: M14x2

Brushes made of crimped brass-coated wire are used for accurate work, large surface treatment and careful treatment for: paint, rust and contaminants removal, polishing.

- Diameter of a steel wire - 0,3 mm;
- Increased wire length - 30 mm;
- Secure retaining nut - 2 cm;
- High wire density allows you to keep the shape for a long time;
- Leaves on the surface a micro layer of material that prevents rapid oxidation of the metal;
- Automatic balancing of each brush



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
65	12500	80	NTWB6514BC
75	12500	80	NTWB7514BC
85	9000	80	NTWB8514BC
100	8500	40	NTWB10014BC
125	6500	30	NTWB12514BC

NovoTools Twist knotted wire cup brush, steel



Bore: M14x2

Brushes made of twist knotted steel wire are used for a rough heavy work with concrete remains, paint, rust removal, for preparing metal surfaces for painting.

- Diameter of a steel wire - 0.5 mm;
- Increased wire length - 25 mm;
- Secure Locking nut - 2 cm;
- During operation, the brush is self-sharpening and does not lose its properties;
- High wire density allows you to keep the shape for a long time;
- Automatic balancing of each brush.



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
65	12500	80	NTWB6514ST
75	12500	80	NTWB7514ST
85	9000	80	NTWB8514ST
100	8500	40	NTWB10014ST
125	6500	30	NTWB12514ST

NovoTools Twist knotted wire cup brush with metal ring, steel



Bore: M14x2

Brushes made of twist knotted steel wire are used for a surface treatment of hard-to-reach places. Increased wear resistance. The brush is enhanced by metal ring.



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
65	12500	60	NTWB6514STS
75	12500	40	NTWB7514STS
90	8500	40	NTWB9014STS
100	8500	30	NTWB10014STS

NovoTools Crimped wire bevel brush, brass coated



Bore: M14x2

Brushes made of crimped brass-coated wire are used for a careful processing of surfaces treatment of hard-to-reach places.

- Diameter of a steel wire - 0,3 mm;
- Secure Locking nut - 2 cm;
- Increased wire length - 30 mm;
- High wire density allows you to keep the shape for a long time;
- Leaves on the surface a micro layer of material that prevents rapid oxidation of the metal;
- Automatic balancing of each brush.



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
125	6000	80	NTWWB12522BC
175	6000	60	NTWWB17522BC
200	6000	60	NTWWB20022BC

NovoTools Twist wire bevel brush, steel



Bore: M14x2

Brushes made of twist knotted steels are used for a surface treatment of hard-to-reach places. Increased wear resistance.

- Diameter of a steel wire - 0,5 mm ;
- Increased wire length - 25 mm;;
- Secure Locking nut - 2 cm;
- During operation, the brush is self-sharpening and does not lose its properties;
- High wire density allows you to keep the shape for a long time;
- Automatic balancing of each brush.



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
100	12500	80	NTBWBB10014ST
115	12500	60	NTBWBB11514ST
125	12500	60	NTBWBB12514ST

Novotools Crimped wire wheel brush, brass-coated



With adapters for various tools!



Brushes made of crimped brass coated wire are used for accurate work, large surface treatment and careful treatment for: paint, rust and contaminants removal, polishing.

- Diameter of a steel wire - 0.3 mm;
- Increased wire length - 30 mm;
- Adapter rings included;
- High wire density allows you to keep the shape for a long time;
- Leaves on the surface a micro layer of material that prevents rapid oxidation of the metal;
- Automatic balancing of each brush



Bore: 22.23 mm

Thickness: 20 mm

Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
125	6000	60	NTWWB12522BC
175	6000	20	NTWWB17522BC
200	6000	20	NTWWB20022BC

Novotools Crimped wire double wheel brush, brass-coated

Bore: 22.23 mm

Thickness: 40 mm

Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
175	6000	20	NTDWWB17522BC

NovoTools Twist knotted wire wheel brush, steel



Bore: 22.23, 32 mm

Brushes made of twist knotted steel wire are used for accurate work, large surface treatment and careful treatment for: paint, rust and contaminants removal, polishing.

- Diameter of a steel wire - 0.5 mm;
- Increased wire length - 25 mm;
- During operation, the brush is self-sharpening and does not lose its properties;
- High wire density allows you to keep the shape for a long time;
- Automatic balancing of each brush.



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
125	11000	40	NTWWB12522ST
150	9000	40	NTWWB15032ST
175	9000	20	NTWWB17522ST
200	6000	20	NTWWB20022ST

NovoTools Crimped wire cup brush for drills, brass-coated



Bore: shank 6 mm

Brushes for drills made of crimped brass-coated wire are used for surface treatment of hard-to-reach places. Increased wear resistance.

- Diameter of a steel wire - 0.3 mm;
- Increased wire length - 25 mm;
- High wire density allows you to keep the shape for a long time;
- Leaves on the surface a micro layer of material that prevents rapid oxidation of the metal.



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
75	12500	120	NTWSB756BCS

NovoTools Twist knotted wire cup brush for drills, steel



Bore: shank 6 mm

Brushes for drills made of twist knotted steel wire are used for surface treatment hard-to-reach places.

- Diameter of a steel wire - 0,5 mm;
- Increased wire length - 25 mm;
- During operation, the brush is self-sharpening and does not lose its properties;
- High wire density allows you to keep the shape for a long time.



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
75	12500	120	NTWSB756STS

NovoTools Set of brushes for drills, 6 pcs



Bore: shank 6 mm

Set of 6 wire brushes for drills. Brushes made of crimped brass-coated wire are used for accurate work, large surface treatment and careful treatment for: paint, rust and contaminants removal, polishing.

- Diameter of a steel wire - 0.3 mm;
- High wire density allows you to keep the shape for a long time;
- Leaves a micro layer of material on the surface that prevents the metal from oxidizing quickly.



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
2 шт. x 38	4500	48	NTWB38506375BCS/6
1 шт. x 50	4500		
1 шт. x 63	4500		
1 шт. x 75	4500		
1шт. торц. x 50	4500		

NovoTools Set of brushes for drills 4 pcs



Bore: shank 6 mm

Set of 4 steel brushes for drills of various form. Universal brush set, used for large surface and for a surface treatment of hard-to-reach places.

- Diameter of a steel wire - 0.3 mm;
- High wire density allows you to keep the shape for a long time.



Diameter, mm	Max speed, rpm	Qty, pcs/box	Item No.
1 pc cup x 75	4500	40	NTWBSCS/4
1 pc crimped x 75	4500		
1 pc spiral x 60 x 95	4500		
1 pc finish x 25	4500		



HAND BRUSHES



Hand steel wire brushes are applied for roughing and cleaning metal, wood, plastic and other surfaces from any dirt, rust, varnish and paint.

Brass-coated wire brushes, plastic handle NovoTools



Hand tools used for corrosion, contaminants and paint coatings removal from metal and other surfaces. Convenient usage, designed with plastic ergonomic handle.



Length, mm	Color	Qty, pcs/set	Qty, pcs/box	Item No.
250	Yellow	24	144	NTWBBC
250	Red	12	120	NTWBBCR

Hand brushes with hard wire NovoTools

Hand brushes with ecological handle for cleaning various surfaces from any dirt, corrosion, varnish coatings.



WOODEN HANDLE

Hand brushes with ecological handle for cleaning various surfaces from any dirt, corrosion, varnish coatings.

Rows	Qty, pcs/set	Qty, pcs/box	Item No.
4 x 16	12	120	NTWB416WH
5 x 16	12	120	NTWB516WH
6 x 16	12	120	NTWB616WH



WOODEN HANDLE WITH A SCRAPER

Hand brushes with an ecological handle for cleaning metal and other surfaces from any dirt, rust, varnish coatings. The brush is equipped with a metal scraper suitable for removing scale or cement from the metal.

Rows	Qty, pcs/set	Qty, pcs/box	Item No.
4 x 16	12	60	NTWB4SWH





PLASTIC HANDLE

Hand brushes with ergonomic handle for cleaning various surfaces from varnish, paint, corrosion, scale and other contaminants.

Rows	Qty, pcs/set	Qty, pcs/box	Item No.
4 x 16	12	120	NTWB416PH
5 x 16	12	120	NTWB516PH
6 x 16	12	120	NTWB616PH

PLASTIC HANDLE WITH A SCRAPER

Hand brushes with ergonomic handle for cleaning metal, wood and plastic surfaces from varnish, paint, corrosion, scale and other contaminants. The brush is equipped with a metal scraper suitable for removing scale or cement from the metal.

Rows	Qty, pcs/set	Qty, pcs/box	Item No.
4 x 16	12	60	NTWB4SPH

BRUSHES IN INDIVIDUAL BLISTER PACK

Hand brushes with ecological and ergonomic handle for cleaning metal, wood and plastic surfaces from paint, corrosion and other contaminants. Supplied in a convenient transparent packaging, the brush is easy to store after use.

Rows	Handle type	Qty, pcs/set	Qty, pcs/box	Item No.
4 x 16	Wooden	15	60	NTWB416WHB
4 x 16	Plastic	15	60	NTWB416PHB

NovoTools Sets of hand wire brushes



Sets of mini hand wire brushes, 6 pcs

Set of mini-brushes for careful precise operations on metallic surfaces. Suitable for working with auto parts. Must-have tool in auto repair shops and garages.



Wire	Length, mm	Qty, pcs/set	Qty, pcs/box	Item No.
Steel	175	2	120	NTWB17513/6
Brass		2		
Nylon		2		

Sets of mini hand wire brushes, 3 pcs

Set of mini-brushes for precise finishing of small parts and surfaces. Must-have tool in auto repair shops and garages.



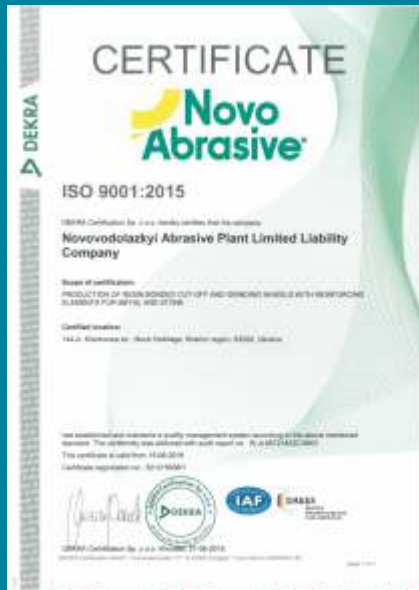
Wire	Length, mm	Qty, pcs/set	Qty, pcs/box	Item No.
Steel	220	1	72	NTWB9/3
Brass		1		
Nylon		1		



ISO 9001:2008 certificate

In December 2015 Abrasive factory NovoAbrasive successfully passed certification audit of the independent company and received ISO 9001:2008 certificate. Quality management system has been successfully implemented at the plant and is being efficiently used.

Obtaining of ISO 9001:2008 certificate is a major step on the way of development of the enterprise, improving of competitiveness both on Ukrainian and international market.



MPA certificate

Certifies safety of abrasive wheels.

Abrasive factory NovoAbrasive is the first abrasive plant in Ukraine to pass successfully testing and get MPA certification in Hannover, Germany.

NovoAbrasive wheels were tested in the laboratory. German experts have confirmed, that products made by Abrasive factory NovoAbrasive are in conformity with the requirements of EN 12413 European standard.



FEPA certificate

Abrasive factory NovoAbrasive is a first Ukrainian manufacturer, who became a member of the «FEPA» (Federation of European Producers of Abrasives) in 2017 year.

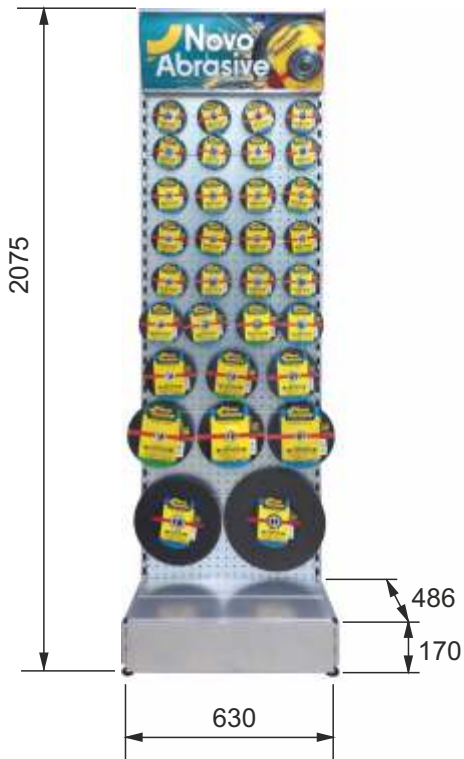


UkrSEPRO certificate

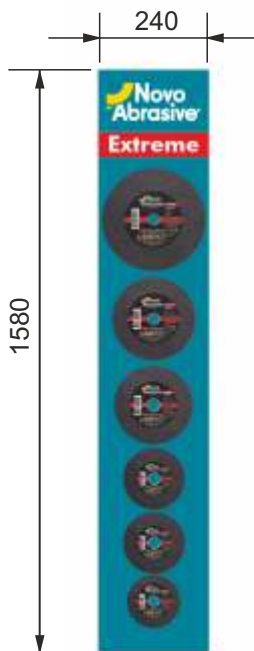
Annual conformity of NovoAbrasive TM wheels with regulatory documents: DSTU GOST 21963:2003 (Ukrainian National Standard), TU U 23.9-38633740-001:2013 (Ukrainian Technical Regulation).



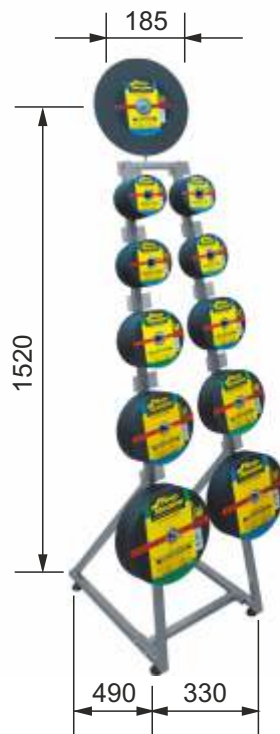
Stands



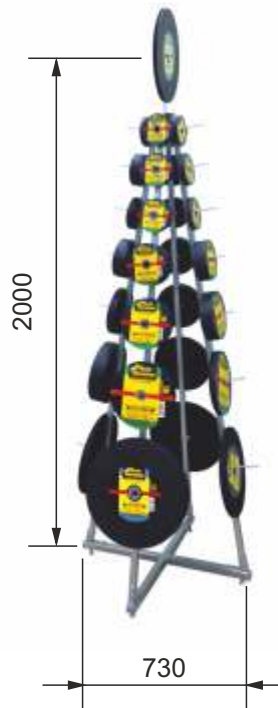
Perforated stand



Hanging stand



Mini stand



Fir-tree stand



Cashier wire stand

Calendar



Notepads



Pens



T-shirts



Stickers



Poster



Outdoor promo materials





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