

Reshaping  
your  
world.

**NORTON**

SAINT-GOBAIN

ABRASIVE SOLUTIONS

CUTTING-OFF  
& GRINDING  
WHEELS



SAINT-GOBAIN



IMAGINE A WORLD SHAPED BY US - IMAGINE A WORLD WE ARE CONSTANTLY DESIGNING FOR THE BEST - IMAGINE TODAY WE ARE RESHAPING OUR WORLD TOGETHER, EVERYWHERE.

So when you rise to start your day, we have already been thinking of you and how the products we supply can deliver a material difference to shaping your world – today and tomorrow.

Saint-Gobain Abrasives brings powerful, precise and user-friendly solutions to grind, shape and finish all types of materials, across all applications everywhere around us.

To reshape our world, our customers want the smartest designs so we obsess over material sciences and technologies to design and co-develop our products with sustainability and innovation top of mind. Our customers want the right choices so we are committed to the highest standards for your safety, your comfort and your efficiency, supplying the widest portfolio of abrasives solutions.

We cut, we shape and we finish every material for every application.

Our customers want true value partners. So focusing on our roots and our diversity, with our highly recognized Norton brand with more than 135 years of experience and with over 10,000 passionate employees, through our global network of 60 facilities in almost 30 countries across all continents, with our R&D centers in the US, Europe, China and India, our local sales professionals, application engineers, and customer services,... we dedicate ourselves to our customers and our distribution partners.

And we continually invest to optimize our supply chain and digitalize our processes, for service excellence and ultimate customer satisfaction, every day, everywhere.

We serve many market segments – Metal Fabrication, Manufacturing and Industry, Electronics and Specialties, Woodworking, Transportation, Automotive Aftermarket, Construction and Home Improvement, Energy and Environment.

At the end of the day, no matter the market, no matter the application, we're here to help your business produce results, making every day better, and reshaping your world, together.





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# YOUR SAFETY IS OUR PRIORITY

Abrasive safety starts with us. Your safety is our first priority so all Norton products are manufactured in accordance with the most rigorous European and International health, safety and environmental norms. We understand your environment is tough and demanding, risks and expectations are high, you risk life and limb every time you pick up a machine to cut, grind or sand. That's why we'll always make sure our products perform to the highest standard, safely. Not only that, we give great importance to maintaining safe working conditions for our own employees throughout the production process.

## oSa®

The Organisation for the Safety of Abrasives

As a member of oSa, we position ourselves amongst quality manufacturers with the highest safety levels and we're proud to carry the trademark. Through a stringent monitoring and audit system year after year we maintain our reputation as a reliable safe and responsible producer of quality abrasives. We conform to European and international standards, EN12413, EN13236 and EN13743 for bonded, diamond and coated products as well as ISO 9001, 14001 and OHSAS 18001 for our manufacturing sites. This is not just because it is a legal requirement, it's also because we care. Opt for the oSa® trademark; tested quality products of the highest safety level

## FEPA

The Federation of European Producers of Abrasives

As a member of the FEPA association, we are always up to date with the latest technical, legal and scientific regulatory frameworks, meaning we're always one step ahead. Together with oSa, FEPA pursues the objective of supporting both the currently attained safety standards and further future developments.



The mark of responsible forestry

## Our Commitment to Employees and Sustainability

As a global leader, and aligned with our business values and vision, our operational policies and practices underpin our commitment to employees and sustainability, which include: pursuing an ambitious policy to constantly improve workplace health & safety; continuously encouraging the personal development of our employees; being a responsible and sustainable player internationally and within our local communities; minimizing the environmental footprint of our operations with five clear priorities; continuously develop eco-valorized products bringing additional value to our customers.

For more information on our commitment to employees and sustainability, and for detailed safety please visit our website [www.norton-abrasives.com](http://www.norton-abrasives.com). You can also find helpful tip and do's & Don'ts on Safety at the back of this catalogue.





# INTRODUCTION

The Norton range of Cutting-Off and Grinding Wheels for portable and fixed machines provide superior performance in the most stringent working environment. The product range includes state-of-the-art solutions for Cutting-Off, grinding and Surface Finishing operations on any materials related to industrial fabrication markets. Norton, the industry's most comprehensive Cutting-Off and Grinding product line.



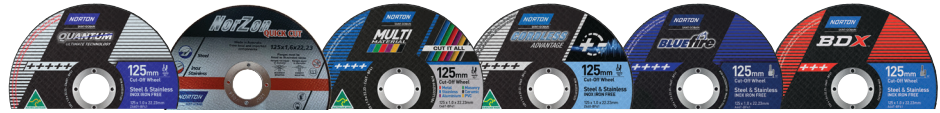
## UNDERSTANDING THE PRODUCT

- 1 Quality tier
- 2 Application material
- 3 Diameter x thickness x bore
- 4 Product specification
- 5 Maximum peripheral speed
- 6 Machine cutting or grinding
- 7 Product code
- 8 OSA certification
- 9 AS 1788.1-1987 & EN12413

## PRODUCT SELECTION GUIDE

### CUTTING-OFF WHEELS FOR ANGLE AND STRAIGHT GRINDERS

- Highly recommended
- ◐ Recommended
- Not recommended



	QUANTUM	NORZON	MULTI MATERIAL	CORDLESS ADVANTAGE	BLUEFIRE	BDX
MATERIALS	+++++	+++++	+++++	+++++	+++++	+++
Steel / construction steel	●	●	◐	●	◐	●
Low alloy	●	●	○	●	◐	◐
High alloy	●	●	○	●	◐	◐
Thin sheets, plates, profiles	●	●	◐	●	◐	●
Stainless steel / inox	●	●	◐	●	◐	◐
Cast iron	●	●	◐	●	◐	●
Non ferrous	●	●	◐	●	◐	●
Titanium	●	●	○	●	◐	◐
Masonry, Stone concrete	○	○	●	○	○	○
Tile ceramics	○	○	●	○	○	○
Ceramic, timber, rubber, pvc	○	○	●	○	○	○

# PRODUCT SELECTION GUIDE

## GRINDING WHEELS FOR ANGLE GRINDERS

- Highly recommended
- ◐ Recommended
- Not recommended



	QUANTUM	MULTI MATERIAL	CORDLESS ADVANTAGE	BLUEFIRE	BDX
MATERIALS	+++++	++++	+++++	+++++	+++
Steel / construction steel	●	◐	●	◐	●
Low alloy	●	○	●	◐	◐
High alloy	●	○	●	◐	◐
Thin sheets, plates, profiles	●	◐	●	◐	●
Stainless steel / inox	●	◐	●	◐	◐
Cast iron	●	◐	●	◐	●
Non ferrous	●	◐	●	◐	●
Titanium	●	○	●	◐	◐
Masonry, Stone concrete	○	●	○	○	○
Tile ceramics	○	●	○	○	○
Ceramic, timber, rubber, pvc	○	●	○	○	○

## DIFFERENTIATION IN THE RANGE

Norton offers the industry’s widest selection of abrasive products to meet every customer requirement. The range is classified into three quality-tiers (good/better/best) to help you choose the right product for your specific application

### INNOVATION

Norton’s innovative abrasive solutions offer outstanding productivity and versatility

#### GOOD +++

Our **Good** tier products promise the highest quality you expect from the Norton name with a low initial price. These products are a great purchase to supply performance above your expectations while being a competitive choice to our budget conscious user.

#### BETTER ++++

Our **Better** tier products provide an excellent blend of performance and price. They may be the right fit when you can’t easily measure the value of a best tier product, but still have higher expectations for performance. You’ll get your money’s worth and more with the performance-to-price ratio from our better tier.

#### BEST +++++

Our **Best** tier products are designed for the customer who is seeking the highest productivity at the lowest total cost. These top-of-the-range solutions mean impressive, measurable impact on your process cost. You can expect to spend less time changing abrasives and more time focusing on a production when you make an investment in Best tier Norton products.



# CUTTING-OFF WHEELS

## FOR METAL FABRICATION & WELDING

The use of abrasives in secondary steel industries is vast: from ship building and production of domestic appliances, automotive and construction components, special profiles, pipes and electrical goods to maintenance and repair of equipment, tools and machines.

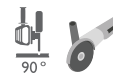
### NORTON QUANTUM

#### ULTIMATE TECHNOLOGY

BEST \*\*\*\*\* INNOVATION

- Premium aggressive NorZon Heavy Duty Grain
- Revolutionary Bond technology

- Long lasting wheel
- Lowest total abrasive costs
- High metal removal rate



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
TYPE 41	100	1.0 x 16.0	T41-Z46Y	66253371185	9310357284154	25
	115	1.0 x 22.23	T41-Z46Y	66253371186	9310357284161	25
	125	1.0 x 22.23	T41-Z46Y	66253371187	9310357284178	25

#### CUTTING-OFF WHEELS

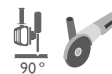





# NORTON MULTI-MATERIAL BETTER ++++

- One wheel for all materials
- The easy choice in general trade

- No lost time due to wheel changing
- Quick, comfortable and versatile




	TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
<b>CUTTING-OFF WHEELS</b>							
	TYPE 41	100	1.0 x 16.0	T41-C46T	66253371182	9310357284123	25
		115	1.0 x 22.23	T41-C46T	66253371183	9310357284130	25
		125	1.0 x 22.23	T41-C46T	66253371184	9310357284147	25

# NORTON CORDLESS ADVANTAGE BETTER ++++

- Ultra thin fast cut reinforced straight wheel for fast cutting off, formulated for cordless grinders

- For stainless steel, alloy steels, cast iron & hard ferrous metals.
- Fillers free of Iron, Sulphur & Chlorine



	TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
<b>CUTTING-OFF WHEELS</b>							
	TYPE 41	115	1.0 x 22.23	T41-Z46X	66253371232	9310357284185	25
		125	1.0 x 22.23	T41-Z46X	66253371233	9310357284192	25

# NORTON NORZON QUICK CUT BETTER ++++

- Premium NorZon Grain
- Revolutionary bond technology
- For stainless steel, alloy steels, cast iron, tool steel & hard ferrous metals
- Long lasting cut off wheel
- Lowest total abrasive costs
- High metal removal rate



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
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**CUTTING-OFF WHEELS**



TYPE 41	100	1.6 x 16.0	T41-ZA46Z	66252841301	3157624559203	25
	115	1.6 x 22.23	T41-ZA46Z	66252829496	3157626434577	25
	125	1.6 x 22.23	T41-ZA46Z	66252841302	3157626434430	25
	180	1.6 x 22.23	T41-ZA46Z	66252832870	3157623767708	25
	230	1.9 x 22.23	T41-ZA46Z	66252832683	3157623767715	25

# NORTON BLUEFIRE BETTER ++++

STEEL & STAINLESS

- Ultra thin fast cut reinforced straight wheel for fast cutting off where minimal material loss is desired
- For stainless steel, alloy steels, cast iron & hard ferrous metals.
- Fillers free of Iron, Sulphur & Chlorine



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
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**CUTTING-OFF WHEELS**



TYPE 41	100	1.0 x 16.0	T41-A46Z	66252841300	9310357266566	25
	115	1.0 x 22.23	T41-A46Z	66252829482	3157624474926	25
	125	1.0 x 22.23	T41-A46Z	66252829925	3157624475107	25



TYPE 41	100	1.0 x 16.0	T41-A46T	66253371235	9310357283515	1
	115	1.0 x 22.23	T41-A46T	66253371236	9310357283522	1
	125	1.0 x 22.23	T41-A46T	66253371237	9310357283539	1

# NORTON BLUEFIRE

## METAL & MILD STEEL

BETTER ++++

- Designed with aluminium oxide grain for general purpose fast cutting of metals
- Durable resin bond for fast cutting while retaining excellent wheel life
- Fillers free of iron, sulphur & chlorine



CUTTING-OFF WHEELS	TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
	TYPE 41	100	2.5 x 16.0	T41-A36T	66252841303	9310357264828	10
		115	2.5 x 22.23	T41-A36T	66252841304	9310357264835	10
		125	2.5 x 22.23	T41-A36T	66252841305	9310357264842	10
		180	2.5 x 22.23	T41-A24T	66252841308	9310357300274	10
		230	2.5 x 22.23	T41-A24T	66252841313	9310357300359	10

# NORTON BLUEFIRE

## MASONRY

BETTER ++++

- C24R Silicon carbide grain
- Fast cutting reinforced straight cutting off wheel
- Durable resin bond designed for fast cutting while retaining excellent wheel life
- Ideal for dry cutting of brick , concrete, ceramic & stone
- Also suitable for non ferrous metals



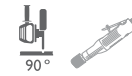
CUTTING-OFF WHEELS	TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
	TYPE 41	100	2.5 x 16.0	T41-C24R	66252841469	9310357265153	10
		115	2.5 x 22.23	T41-C24R	66252841470	9310357264804	10
		125	2.5 x 22.23	T41-C24R	66252841471	9310357264811	10
		180	2.5 x 22.23	T41-C24S	66252841474	9310357300076	10
		230	2.5 x 22.23	T41-C24S	66252841477	9310357300151	10

## NORTON BLUEFIRE STEEL & STAINLESS - DIE GRINDER

BETTER ++++

- Ultra thin fast cut reinforced straight wheel for fast cutting off where minimal material loss is desired

- For stainless steel, alloy steels, cast iron & hard ferrous metals.
- Fillers free of Iron, Sulphur & Chlorine



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
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### CUTTING-OFF WHEELS



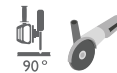
TYPE 41	50	2.0 x 6.35	T41-A60T	66252842746	5900442810326	25
	76	1.0 x 10.0	T41-A60T	66252828241	5900442786973	25

## NORTON ALU ALUMINIUM

BETTER ++++

- Specially developed gain and bond system, designed to cut through aluminium and non-ferrous metals without clogging

- Counteracts loading and wheel glazing for fast, easy and free cutting action on all non-ferrous material



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
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### CUTTING-OFF WHEELS



TYPE 41	115	1.6 x 22.23	T41-A46Q	66252828233	8711479983306	10
	125	1.6 x 22.23	T41-A30Q	66252828234	8711479983313	10

# NORTON BDX GOOD +++

## STEEL & STAINLESS - ULTRA THIN

- Ultra thin fast straight cutting wheel with low material loss
- Durable resin bond designed for long life
- For stainless steel, alloy steels & hard ferrous metals.
- Fillers free of Iron, Sulphur & Chlorine



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
TYPE 41	100	1.0 x 16.0	T41-A46T	66252846390	9310357290049	50
	115	1.0 x 22.23	T41-A46T	66252846391	9310357290056	50
	125	1.0 x 22.23	T41-A46T	66252846392	9310357290063	50

### CUTTING-OFF WHEELS



# NORTON BDX GOOD +++

## STEEL & STAINLESS

- Designed with aluminium oxide grain for general purpose fast cutting of metals
- Fast straight cutting wheel
- Durable resin bond designed for long life
- Fillers free of Iron, Sulphur & Chlorine



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
TYPE 41	100	2.5 x 16.0	T41-A46T	66252846393	9310357290070	50
	115	2.5 x 22.23	T41-A46T	66252846394	9310357290087	50
	125	2.5 x 22.23	T41-A46T	66252846395	9310357290094	50
	230	2.5 x 22.23	T41-A30S	66252846396	9310357290100	50
	230	2.5 x 25.4	T41-A30S	66252846397	9310357290117	50

### CUTTING-OFF WHEELS



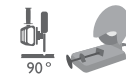
## NORTON BLUEFIRE

METAL - LOW SPEED CUTTING-OFF

BETTER ++++

- Straight fast cutting wheel
- Durable resin bond designed for long life

- Fillers free of Iron, Sulphur & Chlorine



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
<b>CUTTING-OFF WHEELS</b>						
TYPE 41	300	3.0 x 25.4	T41-A36P	66252841316	9310357300397	5
	350	3.0 x 25.4	T41-A36P	66252841318	9310357300410	10



## NORTON BDX

STEEL & STAINLESS - LOW SPEED CUTTING-OFF

GOOD +++

- Straight fast cutting wheel
- Durable resin bond designed for long life

- For stainless steel, alloy steels & hard ferrous metals.
- Fillers free of Iron, Sulphur & Chlorine



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
<b>CUTTING-OFF WHEELS</b>						
TYPE 41	350	3.8 x 25.4	T41-A36SB	66252846402	9310357290162	10



# NORTON BLUEFIRE

## METAL - HIGH SPEED CUTTING-OFF

BETTER +++++

- Designed with aluminium oxide grain for general purpose fast cutting of metals
- Durable resin bond for fast cutting while retaining excellent wheel life
- Fillers free of iron, sulphur & chlorine



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
<b>CUTTING-OFF WHEELS</b>						
TYPE 41	350	3.4 x 25.4	T41-A24R	66252841320	9310357300762	5





# GRINDING WHEELS FOR METAL FABRICATION & WELDING

The use of abrasives in secondary steel industries is vast: from ship building and production of domestic appliances, automotive and construction components, special profiles, pipes and electrical goods to maintenance and repair of equipment, tools and machines.

## NORTON QUANTUM ULTIMATE TECHNOLOGY

BEST +++++ INNOVATION

- Premium aggressive NorZon Heavy Duty Grain
- Revolutionary Bond technology

- No other wheel lasts longer
- Lowest total abrasive costs
- High metal removal rate



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
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### GRINDING WHEELS



TYPE 27	125	3.0 x 22.23	T27-ZA60P	66252811010	9310357284758	10
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# NORTON MULTI MATERIAL BETTER ++++

- One wheel for all materials
- The easy choice in general trade
- No lost time due to wheel changing
- Quick, comfortable and versatile
- For stainless steel, aluminium, masonry, ceramic, PVC and rubber



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
 TYPE 27	100	3.0 x 16.0	T27-C30P	66252811006	9310357284710	10
	115	3.0 x 22.23	T27-C30P	66252811007	9310357284727	10
	125	3.0 x 22.23	T27-C30P	66252811008	9310357284734	10

## GRINDING WHEELS




# NORTON CORDLESS ADVANTAGE BETTER ++++

## STEEL & STAINLESS

- Ultra thin grinding wheel for fast accurate grinding
- Formulated for cordless angle grinders
- For stainless steel, alloy steels & hard ferrous metals
- Fillers free of Iron, Sulphur & Chlorine



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
 TYPE 27	125	3.0 x 22.23	T27-C30T	66252811009	9310357284741	10

## GRINDING WHEELS



# NORTON BLUEFIRE

BETTER ++++

## METAL & MILD STEEL

- A24S Aluminium oxide grain
- Excellent depressed centre grinding wheel, for fast stock removal
- For mild steel and hard ferrous metals.
- Durable resin bond designed for grinding while retaining excellent wheel life



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
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GRINDING WHEELS



TYPE 27	100	6.0 x 16.0	T27-A24S	66252841321	9310357265122	10
	115	6.0 x 22.23	T27-A24S	66252841322	9310357265139	10
	125	6.0 x 22.23	T27-A24S	66252841323	9310357300564	10
	180	6.0 x 22.23	T27-A24S	66252841324	9310357300571	10
	230	6.0 x 22.23	T27-A24S	66252841325	9310357300588	10

# NORTON BLUEFIRE

BETTER ++++

## ULT

- C24S Silicon carbide grain
- Fast grinding depressed centre grinding wheel
- Durable resin bond designed for fast grinding while retaining excellent wheel life
- Ideal for dry cutting of brick , concrete, ceramic & stone
- Also suitable for non ferrous metals



TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
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GRINDING WHEELS



TYPE 27	100	6.0 x 16.0	T27-C24S	66252841483	9310357265160	10
	115	6.0 x 22.23	T27-C24S	66252841484	9310357301332	10
	125	6.0 x 22.23	T27-C24S	66252841485	9310357301349	5
	180	6.0 x 22.23	T27-C24S	66252841486	9310357300519	10

# NORTON BDX

GOOD +++

## STEEL & STAINLESS

- Excellent depressed centre grinding wheel
- Fast stock removal
- For stainless steel, alloy steels & hard ferrous metals
- Fillers free of Iron, Sulphur & Chlorine



METAL INOX

TYPE	DIA (mm)	THICK x BORE (mm)	SPEC	PART NUMBER	BARCODE	MOQ
TYPE 27	100	6.0 x 16.0	T27-A24/30T	66252846398	9310357290124	50
	115	6.0 x 22.23	T27-A24/30T	66252846399	9310357290131	50
	125	6.0 x 22.23	T27-A24/30T	66252846400	9310357290148	50
	230	6.0 x 22.23	T27-A24/30T	66252846401	9310357290155	25

### GRINDING WHEELS



## GENERAL PRECAUTIONS

Safety instructions provided by the machine manufacturers must be followed. Where fitted, all guards, covers and hoods must be in place on the machine during operation and should not be modified in any way. Abrasives should not be used near inflammable material or in an environment where there is a risk of explosion.



Sparks should be directed away from the face and body, if possible towards the floor. Dust extraction equipment must be used whenever it is available. The instructions for use given by the abrasive manufacturer must be followed e.g. 'Not to be used without support', or 'Not to be used for wet grinding'. The workpiece must be firmly fixed before grinding/cutting starts. Check all abrasives visually before use and make certain that the product is suitable for the application. No modifications should be made to abrasive products after delivery.

When using a portable grinder always switch it off and allow the spindle to stop completely before putting the tool down.

## OPERATING SPEEDS

Norton products are designed and tested for certain applications and operating speeds. Choose a wheel suitable for the application material. Suitable materials are indicated on the wheel label. Before mounting the grinding or cutting-off wheel on the machine, ensure that the operating speed of the machine does not exceed the maximum safe operating speed as it is marked on the product.

WHEEL DIAMETER (mm)	SPEED CONVERSION FOLLOWING EN12413	
	MAXIMUM OPERATING SPEED (RPM) For resinoid bonded cutting-off & grinding wheels in handheld and stationary operations	
	80 metres / second	100 metres / second
50/51	30,600	38,200
63/65	24,300	30,250
76	20,100	25,150
100/102	15,300	19,100
115	13,300	16,650
125	12,250	15,300
150/152	10,200	12,700
180	8,500	10,650
230	6,650	8,350
250/254	6,150	7,650
300/305	5,100	6,400
350/356	4,400	5,500
400/406	3,850	4,800

# TECHNICAL INFORMATION

## SHAPE SPECIFICATION SYSTEM

BF 41



### FLAT CUTTING-OFF WHEELS

Available in diameters 50 - 400mm for hand held machines & 250 - 400mm for stationary machines.

Application: Cutting-off

BF 27



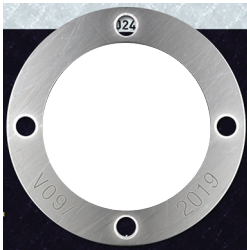
### DEPRESSED CENTRE GRINDING WHEELS

Available in diameters 76 - 230mm for hand held machines

Application: Grinding

## METAL RING WITH VALIDITY DATE

V = VALIDITY DATE (PRODUCTION QUARTER + 3 YEARS)



V01	V04	V07	V10
1st quarter	2nd quarter	3rd quarter	4th quarter

Example:  
V04/2019 indicates production in the 2nd quarter of 2016 and advised usage before the 2nd quarter of 2019

## PERSONAL PROTECTION

Safety goggles, ear defenders, safety gloves, dust masks and if conditions are severe, additional face protection. Leather aprons and safety shoes must be worn



Mouth Protection



Wear Gloves



Eye Protection



Ear Protection



Read Instructions



Damaged Wheel - Do Not Use



Not for Grinding



Dry



Do not use free handed

## SAFETY ADVICE

### DOs

Always handle & store wheels carefully. Cutting-off wheels should be stacked horizontally & flat, preferably on a steel base plate. Depressed centre wheels should be placed on top of each other or stored in the original packaging

Always visually inspect all wheels before mounting for possible damage in transit

Always use a safety guard & ensure that it is correctly positioned & securely fitted. It should cover at least one half of the wheel & protect the operator in the unlikely event of a wheel breakage. **NON-REINFORCED CUTTING-OFF WHEELS SHOULD ONLY BE USED ON FIXED MACHINES & SHOULD BE CORRECTLY GUARDED.**

Always switch 'OFF' the power at supply source &/or remove the plug from the socket before changing the wheel

Always ensure that the spindle speed of the machine does not exceed the operating speed marked on the wheel

Always use the correct wheel mounting flanges & ensure that they are undamaged, clean & free from burrs

SEE EN 12413

Allow newly mounted wheels to run at operating speed, with the guard in place, for a reasonable time before cutting or grinding

Always wear EYE PROTECTION

Always wear appropriate safety clothing such as DUST MASK, GLOVES, EAR PROTECTION, OVERALLS & SAFETY SHOES

Always have machine speeds checked regularly, especially after maintenance or repair. Machines fitted with speed control devices (Governors), must be properly maintained at all times

Check tension of driving belts, where fitted, on a regular basis. Belts must be kept tight to ensure full power transmission.

Always secure the workpiece firmly while it is being cut or ground

Put portable machines in suitable cradles, when not being used, to avoid damage to the wheel

Always use a portable machine in a comfortable position, where the workpiece is well balanced & the machine is well supported

Grind at an angle above 30 degrees to the workpiece with a depressed centre grinding wheel

Keep the working area around cutting & grinding operations clear. It is very dangerous if an operator trips & falls with an operating machine in his hands

### DON'Ts

Handle wheels roughly

Use non-reinforced cutting-off wheels on portable machines

Store wheels in a damp atmosphere or in extreme temperatures

Mount a damaged wheel

Tighten the mounting nut or locking flange excessively. To do so can distort the flanges

Force a wheel onto a machine spindle

Use mounting flanges which are incorrect, damaged, dirty or burred

Use blotters with depressed centre wheels less than or equal to 406mm (EN 12413)

Use a machine which is not in good mechanical condition

Use a machine without a wheel guard

Use wheels without proper ventilation or dust protection equipment

Apply side pressure to cutting-off wheels. You should not bend the wheel

Stop the wheel by applying pressure to the periphery or face. Always switch the machine off & allow the wheel to stop revolving

Allow the wheel to be trapped or pinched in the cut

Apply excessive pressure onto the wheel so that the driving motor slows down

Grind on the side of cutting-off wheels or depressed centre wheels below 4,0mm thickness

Drop or lower a portable machine by the cable or airline onto the floor. A wheel can be easily cracked, if it is put down hard, by the weight of the machine. This is a common cause of wheel breakage

Grind with a depressed centre grinding wheel at an angle below 30 degrees to the workpiece

Use a machine in a position where you do not have full control of the machine & you are not well balanced



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