

AVOS™

A new vision in surface finishing from Norton

AVOS™ is a revolutionary system of abrasive products for mini portable right angle grinders that lets you see the surface of the material when grinding. AVOS - allows view of surface - is a Norton patented product.

In addition, thanks to its unique design AVOS is extremely cool cutting, offering long disc life with the ability to produce superior surface finishes.

CLEAR VIEW of WORK SURFACE The innovative combination of a triangular disc shape together with special holes in the AVOS™ disc and back-up pad provides a view of the material being ground never seen previously with an abrasive disc.

The clear view of the grinding zone through the spinning disc allows the operator to continually monitor the grinding process when in contact with the material. With the help of this extra vision, AVOS™ enables operators to produce work of higher quality, more comfortably and much quicker than could be achieved with conventional discs.

COOL CUTTING The specially designed shape and holes incorporated into AVOS™ products produce an interrupted grinding cycle which is a rapidly repeating sequence of grinding time and "rest time".

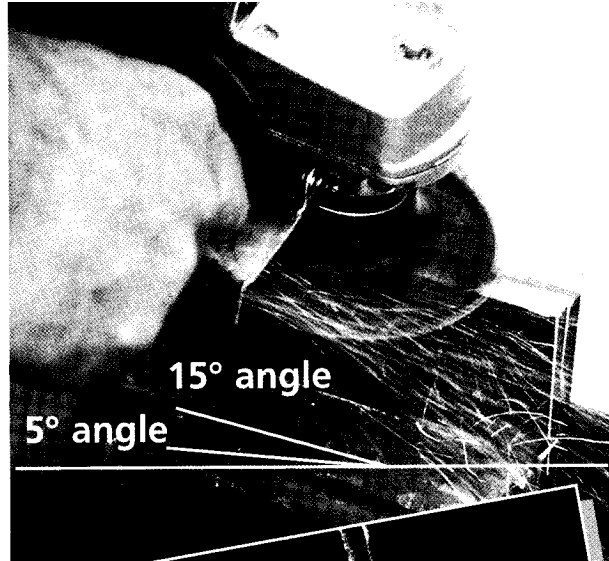
During the rest time, when no cutting is taking place on part of the grinding surface, loose abrasive grit and metal are released from the grinding zone. The special air flow "scoops" shaped into the AVOS back-up pads and discs then create an air flow to pull these released particles towards the edge of the disc, reducing disc loading and the heat generation this causes by up to 25%.

SUPERIOR FINISH The AVOS™ see through system allows the operator to hold the grinder at a much flatter angle-from 5 to 15 degrees instead of the more usual 30 degrees needed to see the work surface clearly.

As a result much more of the disc surface is in contact with the work material, rather than just the edge. The gouge marks normally seen with conventional abrasive discs are eliminated, enabling AVOS to produce a smoother and more uniform finish.

LONG LIFE and FAST CUTTING AVOS™ will remove greater amounts of material more quickly than a conventional abrasive disc.

The combination of a flatter grinding angle, bringing more abrasive into contact with the work surface, and more effective loose material removal, reducing disc loading, allow the AVOS™ disc to grind more aggressively and with significantly less wear on the outer edge.



Left : AVOS™ disc : by allowing vision of the grinding area, operators can grind at an angle of 5 to 15 degrees with the AVOS™ disc and produce a gouge free surface with minimal disc wear.



Right : Conventional disc : the conventional disc used at a 30 degree angle is prone to gouging and results in discs wearing quickly on the edge.

The patented scoops formed into the AVOS™ system holes create an airflow to pull loose abrasive and material towards the edge of the disc. This reduces loading or clogging of the abrasive disc increasing wear life and generating up to 25% less heat.



ADVANTAGES

- Clear view of work surface ● Cool cutting ● Superior finish ● Long life
- Faster cutting ● Easy mounting

APPLICATIONS

- Weld and braze grinding ● Deburring and light fettling ● Surface and part preparation ● Sheet metal cleaning ● Removal of rust and paint

USERS

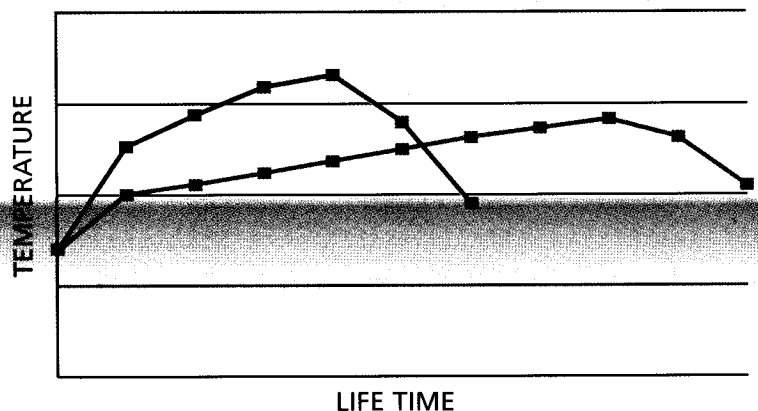
- Maintenance and repair shops in all industries ● Foundries and forges
- Car body repair shops ● Car manufacturers and coach builders ● Food processing industry equipment manufacturers ● Container, cabinet and enclosure manufacturers ● Sheet metal fabricators ● Pipe and plant installation ● Shipyards and boat builders ● Construction ● DIY

QUALITY ASSURANCE and SAFETY

All AVOS™ fibre products are manufactured under the control of a quality assurance system certified as meeting the requirements of the ISO 9002 standard.

All AVOS™ fibre products carry the DSA license no. 2416 for safety, with the fibre products rated for operating speeds up to 80 m/s = 13,000 rpm and the Bear-Tex® products up to 68 m/s = 11,000 rpm.

TEMPERATURE / LIFE TIME



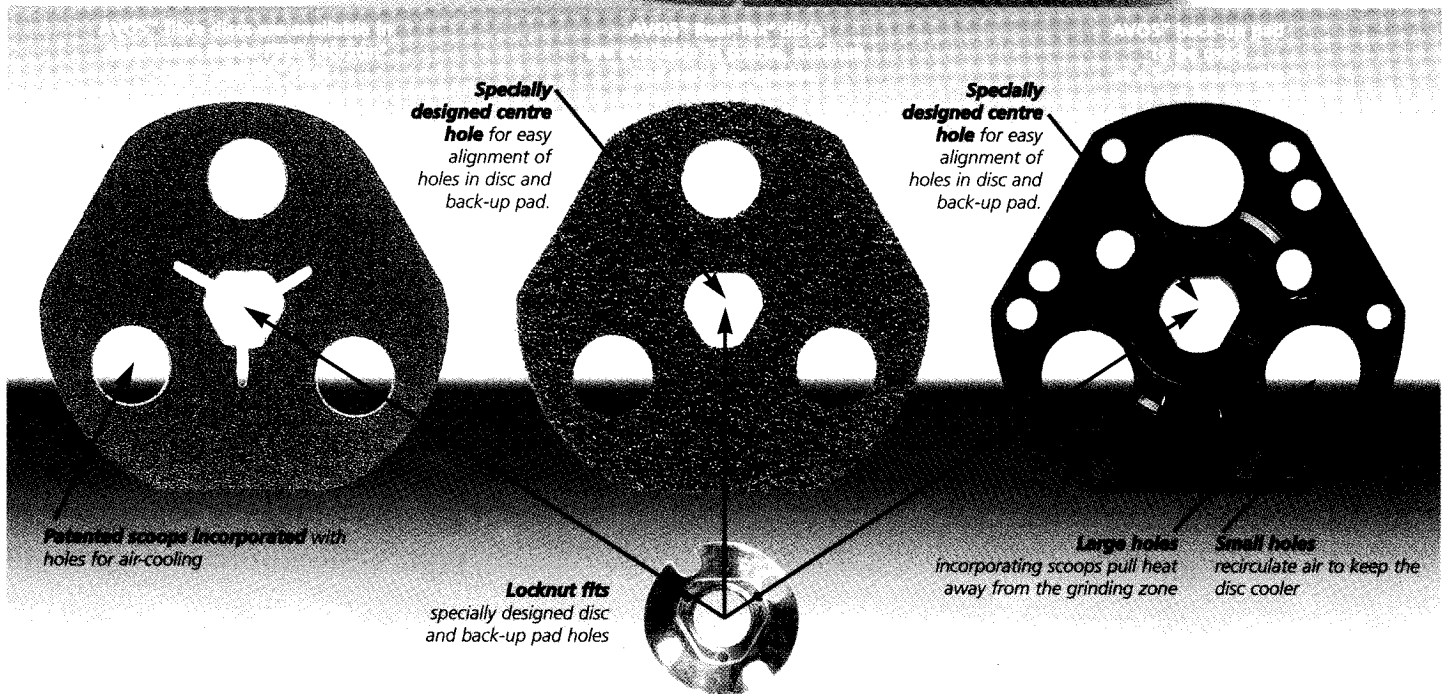
■ Conventional disc

■ AVOS™ disc

AVOS™

A new vision in surface finishing

The secrets of the AVOS™ system



AVOS™ locknut available with M14 or 5/8" B.S.W. thread types

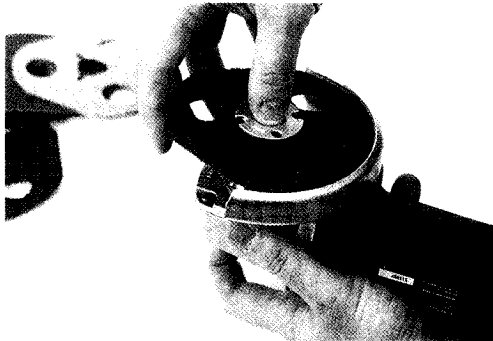
Designed for easy mounting

Patented air scoops



Triangular shaped locknut automatically lines up disc with back-up pad.

Disc and back-up pad are recessed to allow more contact with work surface and prevent locknut fouling.



No tool needed with easy mounting system

ABRASIVE TYPES AVAILABLE

F944 FIBRE DISC :

Norton SG™ ceramic abrasive.

SG™ is Norton's patented ceramic abrasive with exceptional durability and the most aggressive rate of cut. These provide the ultimate level of grinding performance especially for high performance grinding of difficult to grind materials such as superalloys and hardened steels.

F827 FIBRE DISC :

Norzon® Zirconium Oxide abrasive.

An extremely durable and fast cutting abrasive particularly suited for high stock removal and rough grinding applications on all types of steel, but especially stainless steels.

F293 FIBRE DISC :

High grade Norton Aluminium Oxide abrasive.

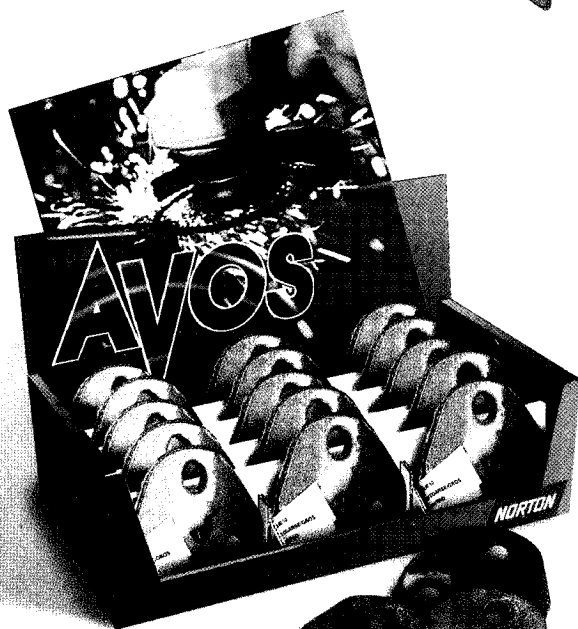
A general purpose, economical abrasive, suitable for a wide range of applications from rough to finish grinding on a variety of materials.

DSB1 NYLON :

Bear-Text® discs with aluminium oxide abrasive coated non-woven nylon fibres.

Designed for light finishing, deburring and cleaning operations and in particular to give more polished finishes or prepare a surface for painting.

AVOS™ test kits... Try them !



AVOS™

A new vision in surface finishing !

NORTON

Bridge Road East - Welwyn Garden City
Hertfordshire - AL7 1HZ - ENGLAND
Tel. 01707-323484 - Fax. 01707-325231

AVOS™ products

AVOS™ fibre discs Ø 115 mm

Part Number	Description	Grit	Std Pack
637379	F944	36	100 (4x25-pc boxes)
637380	F944	50	
637381	F944	60	
637382	F944	80	
637383	F944	100	
637373	F827	36	100 (4x25-pc boxes)
637374	F827	50	
637375	F827	60	
637376	F827	80	
637377	F827	100	
637378	F827	120	100 (4x25-pc boxes)
637367	F293	36	
637368	F293	50	
637369	F293	60	
637370	F293	80	
637371	F293	100	
637372	F293	120	

AVOS™ Bear-Text® discs Ø 115 mm

637384	DSB1	VF (320)	30
637385	DSB1	M (120)	30 (3x10-pc boxes)
637386	DSB1	C (80)	

AVOS™ accessories

637629	Special back-up pad to be used with AVOS™ discs Ø 115 mm - M14 locknut	5
637630	5/8" B.S.W. thread locknut Fits back-up pad # 637629	5

NORTON SG F944 trial kit - Part Number 637645

- 3 F944 36 Grit
- 2 F944 50 Grit
- 2 F944 80 Grit
- 1 Bear-Text® disc DSB1 C (80)
- 1 M14 back-up pad

NORZON F827 trial kit - Part Number 644144

- 3 F827 36 Grit
- 2 F827 60 Grit
- 2 F827 80 Grit
- 1 Bear-Text® disc DSB1 C (80)
- 1 M14 back-up pad

STANDARD F293 trial kit - Part Number 644143

- 3 F293 36 Grit
- 2 F293 60 Grit
- 2 F293 80 Grit
- 1 Bear-Text® disc DSB1 C (80)
- 1 M14 back-up pad

(AVOS™ is a NORTON Trade mark Patent pending)