

Surface finishing & polishing





Committed to excellence working with surfaces since 1924

Since 1924 JAZ has specialized in the manufacturing and selling of power and hand wire brushes, nylon brushes, coated abrasives, etc. for solutions used in surface treatment.

We are the market leader in Spain and export the majority of our production to more than 65 countries worldwide, with special activity in the USA through our wholly owned subsidiary JAZ BRUSH USA, INC.

After 100 years of experience and internationally recognized for our quality, service and innovation, JAZ continues with the same vision and goals that we started with back in 1924.

This is evident through our constant commitment and investments in R&D and the commitment to the future, redefining the way to better understand our products, offering a new look and feel geared towards better educating the end user, expanding our product offering and our new brand image. All of this with the goal of continuing to offer the absolute best solutions and best service to our customers and end users.

JAZ



In JAZ, we work as a team and we share the aim of being an enterprise that offers different products and solutions for surface treatment applications. This allows us to provide satisfaction and profitability to our customers, as well as being a reference of quality, service and innovation for them.

Management System

In **JAZ** we adapt to changes through the increasing of knowledge and the generation of new opportunities.

For this objective we work systematically in the 5 key areas for our competitiveness

- Quality Assurement Program
- Training
- Health and Safety at Work
- Productivity
- Innovation







Activity

Wire Brushes:

A wide range of standard articles for industrial supplies and professional hardware sectors.

Range of Abrasives: Wide variety of solutions for finishing and polishing surfaces.

Technical Brushes:

We offer new brushing solutions for different industrial applications and areas.





Present in 65 countries



Internationalization

In **JAZ** we export most of our production to 65 countries worldwide with special activity in the USA where we operate through our subsidiary **JAZ USA Inc.** -located in New Bedford, MA-, who gives service to our customers in the USA and CANADA.





JAZ

Specialist in surface treatment

Innovation

In **JAZ** innovation is the systematic search for changes in the market and the analysis of the opportunities offered by such changes.

In recent years we have developed and registered new international patents and we have received awards in technological innovation.







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01. Technical information about abrasives

source erners

LAME,

An **abrasive** is a material that is hard enough to scratch other materials and tough enough to withstand continuous work with minimal wear, either by removing excess material by deburring or improving the quality of the surface finish through polishing.

There are solid types of abrasives such as resin bonded grinding discs and flexible types such as bands and fiber grinding discs. Today, flexible abrasives have improved and in many applications can replace solid abrasives by being more efficient and more user friendly for the operator and with the environment.

TYPES OF ABRASIVES PRODUCTS

In the abrasive products world we have 2 main types: natural abrasives and synthetic abrasives.

Natural abrasives, as their name indicates, come from natural resources. Many of them are minerals like **quartz** or **diamond**, which are two of the most widely used abrasives.

Quartz is common abrasive material and is also known as silica sand. It is on the level 7/10 on the Mohs scale.

On the other hand, diamond is composed of carbon atoms. It is one of the hardest abrasive materials. It is at level 10/10 of the Mohs scale and is widely used to obtain highly accurate results such as in jewelry applications.

In synthetic abrasives we also find high-quality materials such as silicon carbide, aluminum oxide as well as **Zirconium Alumina** and **Corundum**. These two are the most common along with synthetic diamond.





 1_{-}

PHASES FOR METAL POLISHING

The entire process for polishing a piece consists of five phases or metal finishing techniques. They are teh following:

01. Brushing

This technique is applied when after stripping there are still traces of rust or impurities of dirt, especially in pieces with many bends and cracks.

• Gratation is done with brushes made of steel wires, since these can access deeper into difficult areas.

02.

Deburring

It refers to the action of removing roughness or impurities from the coarser parts of a material that you want to polish. It can be done with both mechanical and manual tools and on all type of materials: wood, stone, metal, plastics, etc.

On metal: with a file, with sanding belts, with discs of different grains, etc., you can remove the extra material to smooth the surface of a weld, for example.

Deburring is done with sandpaper belts of different sizes and grains.

• The higher the grit number, the finer the sandpaper. For lines and imperfections more pronounced, the sandpaper must be thicker and, therefore, the grit number must be lower, and vice versa.

• There are sanding belts for different types of metals, for example, for polishing steel or for brass polishing, and some of them can be used in more than one.

· Softer metals are usually deburred with finer belts, and harder metals with thicker belts.

The deburring process is carried out at a speed of 3,000 r.p.m.

03.

Grinding

Its main function is to eliminate the marks that the sanding belts have left on the pieces. However, in objects that cannot be subjected to deburring because they cannot withstand the hardness of the contact with the sandpaper, grinding becomes the first step in the polishing process.

· Grinding is always done with felt discs. The size and shape of the discs will depend on the shape of the piece.

• The discs can be of different grains. The most used are between numbers 80 and 220.

· Some examples: for a large piece a disc or a wide band is needed. This process is also carried out at a speed of 3,000 r.p.m.

04.

Polishing

Through polishing we remove the marks that may have been produced during grinding.

- Polishing is done with Sisal and Flannel discs at 3,000 r.p.m.
- · Sisal discs are used to polish stainless steel and iron, which are hard metals.
- Flannel discs are used on softer metals, such as brass and zamak.
- 05.

Brightening

The purpose of brightening is to give the piece maximum shine.

- Brightening is applied to parts that, once polished, will not have any other metallic coating.
- In this process we always use a cotton disc, regardless of the metal the disc is made of.

Like the other processes, brighening is carried out at 3,000 r.p.m.

SOLID POLISHING PASTES

Used for polishing, re-polishing and polishing all types of material. Iron, stainless steel, copper, brass, marble, glass, aluminum, precious metals, methacrylate, plastic, figures in polyester resin, etc.

Generally used with polishing wheels for cloth, cotton, sisal-cloth, flannel, sisal-rope, etc.

- BROWN PASTE: For polishing non-ferrous metals, applied to materials such as brass, bronze, copper, etc...
- **GRAY PASTE:** For polishing carbon and stainless steel, removes scratches from sanding. Ease of application, speed in removing scratches from metals, smooth and uniform surface finishing.
- **GREEN PASTE:** For bronze chrome. For polishing and brightening soft metals. Easy to apply, excellent characteristics in removing scratches from pieces, with a persistent shine, improves the finish on spare part surfaces.
- WHITE PASTE: Applied to materials such as aluminum, marble, granite and acrylic. Generally employed in combination with buffing wheels of blanket cloth, cotton, denim, rag cloth and flannel.
- **PINK PASTE:** For polished-tinted finishing on Stainless Steel and Aluminum mainly. It is used in conjunction with sisal discs and cotton-sewn discs depending on the hardness of the material to be worked.



Code	Description
PSPROSA	Solid Polishing Paste (Pink)
PSPMARRON	Solid Paste Polishing Non-Ferrous Metals (Brown)
PSPGRISNEGRA	Solid Steel Polishing Paste (Grey-Black)
PSPBLANCA	Solid Gloss Paste (White)
PSPVERDE	High Gloss Solid Paste (Green)



CHOOSE THE BRUSH ACCORDING TO THE ACTION TO BE PERFORMED



WORK SAFELY: REGULATIONS AND DIRECTIONS

In any company that produces or transforms goods, as required by law, operators must comply with the safety standards recommended by your company, taking into account the risks to which you are subject (as reported in the DVR of each company, in accordance with Legislative Decree 81/08) and Personal Protective Equipment (PPE) that is required during each application. Depending on the type of work performed, it may be necessary Wear work gloves, safety glasses, dust masks, leather aprons, headphones, and earplugs.

The correct use of PPE is essential to safeguard the health of workers and avoid accidents in the workplace.

Safety pictograms

Safety pictograms provide information on the correct use of products through images explanation. Pictograms with a black background require the use of the PPE shown, while those marked with a prohibition sign in red represent recommendations to avoid problems.

It is recommended to pay special attention to the safety instructions before starting abrasive applications. It is also essential to follow the safety instructions of the products (protection against wear, maximum allowed revolutions per minute, etc.).









USE OF GLASSES

USE OF EAR PROTECTOR

USE OF GLOVES

USE OF MASK



RESPECT ALL REGULATIONS



ONLY FOR CUTTING



DO NOT USE IF IT'S BROKEN



IRON & SULFUR FREE



02. Brushes for Finishing

1

FH Flexible Hone



You can use it on all types of cylinders

The FH is a flexible abrasive tool ideal for lapping, deburring cylinders, hydraulic elements, aluminum injection parts, automotive, precision parts, etc.

Tool composed of small and independent unbreakable balls tied to the center by nylon strips. It is self-centering and adjustable, so you can adapt it to any unevenness of the surface of the hole to work.

Reduces the values of RA, but keeping Rpk Rk and Vo and keeps Rvk and volume. Achieving a perfect polished.

You can attach it, in manual and automatic machine drills.

This tool is ideal for cylinders, connecting rods, crankshafts tooling...

Technical Information

Tool composed of silicon carbide balls impregnated with different grits. Can be used in dry surfaces or with oils having viscosity SAE 10 to 30 (it is recommended to lubricate).

Do not use solvents during use or for cleaning the cylinders.

For the choice of suitable diameter, this will be the inside diameter of the cylinder polish or the next higher.

The recommended speed is between 500 and 1200 rpm. Not to be used in high-speed engines.

Progress will be between 3 to 4.5 m/sec.

The oscillations for correct work will be 20 to 45 seconds per cylinder. (5-15 passes).

It is important that the tool gets into the hole and to be always in rotation After work, and in order to remove any residue, use soapy water and a brush Nylon spiral (LNY) of the same diameter.

We have a wide range of dimensions, and abrasive grits outside the permanent stock table.

Applications

Air Compressors, Air Hydraulic Cylinders, Pneumatic Cylinders, Boiler componets, Pneumatic Tools, Brake Cylinder, Brake Rotors, Cylinders and Engine Blocks, Guns and Weapons and Musical Instruments.



	er of the to clean	Total L	enght	Usefi	ul Lenght	SC Grit	SC Grit
mm	53	mm	33	mm	33	120	180
4	.157"	150	6"	21	0.53/64"		04SC18
8	.315"	203	8"	53	2.3/32"	08SC12	08SC18
9	.354"	203	8"	53	2.3/32"	09SC12	09SC18
10	.394"	203	8"	53	2.3/32"	10SC12	10SC18
12,7	1/2"	203	8"	65	2.9/16"	13SC12	13SC18
14	.552"	203	8"	65	2.9/16"	14SC12	14SC18
16	5/8"	203	8"	65	2.9/16"	16SC12	16SC18
18	.709"	203	8"	65	2.9/16"	18SC12	18SC18
20	.787"	203	8"	65	2.9/16"	20SC12	20SC18
22	7/8"	203	8"	65	2.9/16"	22SC12	22SC18
25,4	1"	203	8"	80	3.5/32"	26SC12	26SC18
29	1.1/8"	203	8"	80	3.5/32"	29SC12	29SC18
31,8	1.1/4"	203	8"	80	3.5/32"	32SC12	32SC18
35	1.3/8"	203	8"	80	3.5/32"	35SC12	35SC18
38	1.1/2"	203	8"	80	3.5/32"	38SC12	38SC18
41	1.5/8"	203	8"	80	3.5/32"	41SC12	41SC18
45	1.3/4"	203	8"	80	3.5/32"	45SC12	45SC18
48	1.7/8"	203	8"	80	3.5/32"	48SC12	48SC18
51	2"	203	8"	80	3.5/32"	51SC12	51SC18



ORDER EXAMPLE: FH 20SC12 1.Model: FH 2.Article Code: 20SC12 3. Grit: 120 4. Workojece diameter: 20mm

Any diameter until 914 mm (36") may be produced on request.

CCM Brush range

JAZ "CCM" brushes are mainly composed of nylon filaments impregnated with:

Silicon carbide, aluminum oxide, diamond, ceramic coating, etc.

The "CCM" line is designed to be mounted as a tool for use in machining centers, robots, flexible cells, etc.

The "CCM" brushes provide a variety of solutions such as deburring, blending and finishing, rounding of edges, contouring of edges and refinement of surfaces.

Our abrasive filament brushes can be run dry (without a coolant), however applying a "coolant" to the abrasive filaments will improve the finish and performance of the tool.

Industries such as Automotive, Aeronautics, Sintered Metals, etc., where surface finishing is important, can find a solution to many surface finishing problems with JAZ "CCM" brushes.



ACTION SURFACE TOOL FINISHING REMOVAL FLEXIBILITY FINISHING STEEL / STAINLESS / ALUMINUM INDUSTRIAL MACHINE MEDIUM, FINE MAY VARY ACCORDING TO THE MATERIAL MAY VARY ACCORDING TO THE MATERIAL

Tool Holder for CCM Brushes

For the correct mounting of CCM brushes in CNC machines, we recommend to use the Tool Holder. The Tool Holder is designed to provide the best performance of CCM brushes. Manufactured in one solid piece to improve the balancing and the life of the tool.

The design allows the coolant to flow through the Tool Holder, reducing the heating and also avoiding rust corrosion.



Class of Burr:

CLASS I: Micro Burrs can only be seen with magnification.

CLASS II: Feather Burrs can be seen without magnification. They can be removed with your fingernail.

CLASS III: Well attached small burrs are small in nature, but require a lot of force to be removed. **CLASS IV:** Well attached large burrs are large in nature and have a larger attachment point than a CLASS III burr.

CLASS V: Extruded burrs are very large burrs that extrude from the base material. These burrs need to be preconditioned before brushing.



CCM BRUSH RANGE

BUNDLE



2.2



Characteristics

Designed for edge deburring and surface finishing.

The position of the filaments allows to enter in small bores or difficult areas access. Applications

Suitable for Class I and II burrs.

Recommended for deburring surfaces where all burrs are on the same level. Sectors

Industry: Engineering, Aeronautics, Automotive, Sintered Metals and many more.



	ØOu	utside	Ø Arb	or Hole	Trim	Length	SILI	SILICIUM CARBIDE - Grit			DIAMOND - Grit		
r	mm	33	mm	33	mm	53	80	120	320	80	120	320	
	115	4.1/2"	14	9/16"	25	1"	CCM11580CSBU	CCM11512CSBU	CCM11532CSBU	CCM11580DBU	CCM11512DBU	CCM11532DBU	
1	150	6"	20	3/4"	30	1.3/16"	CCM15080CSBU	CCM15012CSBU	CCM15032CSBU	CCM15080DBU	CCM15012DBU	CCM15032DBU	

Ø ex	terior	Ø	eje	Sa	liente	(CERAMICO - Gran	0	0>	Grano		
mm	33	mm	33	mm	33	80	120	320	80	120	320	
115	4.1/2"	14	9/16"	25	1"	CCM11580CRBU	CCM11512CRBU	CCM11532CRBU	CCM115800ABU	CCM115120ABU	CCM115320ABU	
150	6"	20	3/4"	30	1.3/16"	CCM15080CRBU	CCM15012CRBU	CCM15032CRBU	CCM150800ABU	CCM150120ABU	CCM150320ABU	

TURBO





Characteristics

Turbo brushes are the most practical and impressive brushes in the entire range Medium deburring for Class II and Class III type burrs.

Applications

For rounding and roughing edges.

Recommended for flat surfaces, where all burrs are on a flat surface.

Sectors

Industry: Engineering, Automotive, Aeronautical, Sintered.



ØO	utside	Ø Arb	or Hole	Trim	Length	SILICIUM CARBIDE - Grit			DIAMOND - Grit			
mm	33	mm	"	mm	33	80	120	320	80	120	320	
115	4.1/2"	14	9/16"	25	1"	CCM11580CSTR	CCM11512CSTR	CCM11532CSTR	CCM11580DTR	CCM11512DTR	CCM11532DTR	
150	6"	20	3/4"	30	1.3/16"	CCM15080CSTR	CCM15012CSTR	CCM15032CSTR	CCM15080DTR	CCM15012DTR	CCM15032DTR	
ØO	utside	Ø Arb	or Hole	Trim	Length		CERAMIC - Grit		A	LUMINUM OX G	rit	
mm	33	mm	33	mm	33	80	120	320	80	120	320	
115	4.1/2"	14	9/16"	25	1"	CCM11580CRTR	CCM11512CRTR	CCM11532CRTR	CCM115800ATR	CCM115120ATR	CCM115320ATR	
150	6"	20	3/4"	30	1.3/16"	CCM15080CRTR	CCM15012CRTR	CCM15032CRTR	CCM150800ATR	CCM150120ATR	CCM150320ATR	

FULL



Applications For harder Class III and Class IV type burrs. Deburring coarse burrs Good for flat surfaces. Sectors Industry: Engineering, Aeronautics, Automotive, Sintered Metals.

Ø Οι	utside	Ø Arb	or Hole	Trim	Length	SILI	CIUM CARBIDE -	Grit		DIAMOND - Grit		
mm	"	mm	"	mm	23	80	120	320	80	120	320	
115	4.1/2"	14	9/16"	25	1"	CCM11580CSFL	CCM11512CSFL	CCM11532CSFL	CCM11580DFL	CCM11512DFL	CCM11532DFL	
150	6"	20	3/4"	30	1.3/16"	CCM15080CSFL	CCM15012CSFL	CCM15032CSFL	CCM15080DFL	CCM15012DFL	CCM15032DFL	

ØO	utside	Ø Arb	or Hole	Trim	Length	CERAMIC - Grit			ALUMINUM OX Grit			
mm	33	mm	33	mm	33	80	120	320	80	120	320	
115	4.1/2"	14	9/16"	25	1"	CCM11580CRFL	CCM11512CRFL	CCM11532CRFL	CCM115800AFL	CCM115120AFL	CCM115320AFL	
150	6"	20	3/4"	30	1.3/16"	CCM15080CRFL	CCM15012CRFL	CCM15032CRFL	CCM150800AFL	CCM150120AFL	CCM150320AFL	

TUFT





The TUFT model is used for a wide range of deburring degrees. Brushes with less density than other model types. There is more space between the abrasive filaments providing more flexibility when brushing. This characteristic provides more flexibility to adapt to complex surface geometries. Highly recommended for planetary machine, ideal for deburring flat parts. **Sectors**

Industry: Engineering, Aeronautics, Automotive, Sintered Metals.

Ø 01	utside	Ø Arb	or Hole	Trim	Length	SILICIUM CARBIDE - Grit			DIAMOND - Grit			
mm	**	mm	"	mm	"	80	120	320	80	120	320	
115	4.1/2"	14	9/16"	25	1"	CCM11580CSTF	CCM11512CSTF	CCM11532CSTF	CCM11580DTF	CCM11512DTF	CCM11532DTF	
150	6"	20	3/4"	30	1.3/16"	CCM15080CSTF	CCM15012CSTF	CCM15032CSTF	CCM15080DTF	CCM15012DTF	CCM15032DTF	
ØO	utside	Ø Arb	or Hole	Trim	im Length CERAMIC - Grit				ALUMINUM OX Grit			
mm	"	mm	"	mm	"	80	120	320	80	120	320	
115	4.1/2"	14	9/16"	25	1"	CCM11580CRTF	CCM11512CRTF	CCM11532CRTF	CCM115800ATF	CCM115120ATF	CCM115320ATF	
150	6"	20	3/4"	30	1.3/16"	CCM15080CRTF	CCM15012CRTF	CCM15032CRTF	CCM150800ATF	CCM150120ATF	CCM150320ATF	

DNA Wheel Abrasive Nylon 6.12"



ACTION SURFACE TOOL FINISHING REMOVAL FLEXIBILITY

STEEL / STAINLESS / ALUMINUM GRINDER, BENCH-GRINDER MEDIUM, FINE ORDER EXAMPLE: DNA 1511 1.Model: DNA 2.Article Code: 1511 3. Grit: 120

DEBURRING, FINISHING

Technical Information

Filaments impregnated with Silicon Carbide abrasive grains allow the brush to maintain a high cut rate while producing a consistent finish throughout the life of the brush.

Filaments flex to all angles, and permits them to deburr and finish highly contoured parts.

Nylon brushes are ideal when it is important that surface measures are not affected by the brushing process. Suitable for wet and dry applications.

Although coolants and lubrication may allow the use of higher speeds than initially recommended, these R.P.M. must never be exceeded.

Exclusive design and patented multifitting thread in two different versions; one is valid for M14 and 5/8-11 attachments; the other is valid for M10 x 1,5 and M10 x 1,25 systems. The new design is also extended to single threads. It allows an easier attachment and increases resistance resulting in more safety for the user.

Applications

Deburring of turbine blades and removing carbon encrustation from engines.

Cleaning of dies, steel and cast iron pieces.

Deburring of cylindrical parts, steering gear cases and control pistons in the automotive industry.



	Ø utside(d) Width (a) ^{Tri}		Trim	Length (s)		Δrb	or Hole	- (e)				R.P.M.		
mm	33	mm	"	mm	33						120 Coarse	180 Medium	320 Fine	Max.
100	4"	8	5/16"	18	11/16"		13, 16, 20	0, 22, 2	26, 30m	m	1011	1012	1013	12.000
100	4"	16	5/8"	18	11/16"	1/2"	- 5/8" -	3/4" -	7/8" - 1	1.3/16"	1021	1022	1023	12.000
150	6"	13	1/2"	27	1.1/16"						1511	1512	1513	6.500
150	6"	28	1.1/8"	27	1.1/16"		Multi Thread R (1)				1521	1522	1523	6.500
175	7"	16	5/8"	40	1.5/8"	13	1/2"		30	1.3/16"	1711	1712	1713	6.500
175	2"	29	1.1/8"	40	1.5/8"	16	5/8"		32	1.1/4"	1721	1722	1723	6.500
200	8"	16	5/8"	40	1.5/8"	20	3/4"		35	1.3/8"	2011	2012	2013	6.000
200	8"	29	1.1/8"	40	1.5/8"	22	7/8"		36	1.3/8"	2021	2022	2023	6.000
250	10"	16	5/8"	45	1.3/4"	25			40	1.5/8"	2511	2512	2513	5.000
250	10"	29	1.1/8"	45	1.3/4"	26	1"		50		2521	2522	2523	5.000
300	12"	16	5/8"	50	2"				50,8	2"	3011	3012	3013	4.500
300	12"	29	1.1/8"	50	2"						3021	3022	3023	4.500

(1) Arbor Hole: 13-16-20-22-26-30-50mm [1/2"- 5/8"- 3/4"- 7/8"- 1"- 1.3/16"- 2"] Code 99

DEBURRING, FINISHING

GRINDER

MEDIUM, FINE

.

STEEL / STAINLESS / ALUMINUM



ACTION SURFACE TOOL FINISHING REMOVAL FLEXIBILITY



ORDER EXAMPLE: TNA 1102 M14 1.Model: TNA 2.Article Code: 1102 3. Arbor Hole: M14

Technical Information

Filaments impregnated with Silicon Carbide abrasive grains allow the brush to maintain a high cut rate while producing a consistent finish throughout the life of the brush.

Filaments flex to all angles, and permits them to deburr and finish highly contoured parts.

Nylon brushes are ideal when it is important that surface measures are not affected by the brushing process. Suitable for wet and dry applications.

Although coolants and lubrication may allow the use of higher speeds than initially recommended, these R.P.M. must never be exceeded.

Exclusive design and patented multifitting thread in two different versions; one is valid for M14 and 5/8-11 attachments; the other is valid for M10 x 1,5 and M10 x 1,25 systems. The new design is also extended to single threads. It allows an easier attachment and increases resistance resulting in more safety for the user.

Applications

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Cleaning of dies, steel and cast iron pieces.

Deburring of cylindrical parts, steering gear cases and control pistons in the automotive industry.



Outside	e Diameter(d)	Trim Length (s)				Grit		R.P.M.
mm	33	mm	33	Arbor Hole (e)	120 Coarse	180 Medium	320 Fine	Max.
110	4.3"	35	1.3/8"	22-M14-W5/8-7/8" (1)	1101	1102	1103	8.500
150	6"	30	1.3/16"	22-M14-W5/8-7/8" (1)	1501	1502	1503	6.000

(1) Exclusively designed threaded M14 x 2 and W5/8"-11 (Code R-88) or M10 x 1,25 and M-10 x 1.50 (Code R-77)



CON DISC Abrasive Nylon



Outside	Diameter	Trim Length		Trim Length		Trim Length		Arbor Hole	Color Black	Color Red	Color Yellow	Color Blue	R.P.M. Max.
mm	**	mm	33		Grit 80	Grit 120	Grit 180	Grit 320	IVIAX.				
100	4"	25	1"	M14-W5/8 y DX	1010	1011	1012	1013	3.000				
120	5"	25	1"	M14-W5/8 y DX	1210	1211	1212	1213	3.000				
140	6"	25	1"	M14-W5/8 y DX	1410	1411	1412	1413	3.000				
250	10"	25	1"	50,8 mm 2"	2510	2511	2512	2513	3.000				

LNA Tubebrush Abrasive Nylon 6.12"



ACTION DE SURFACE STI TOOL DR FINISHING ME REMOVAL FLEXIBILITY

DEBURRING, FINISHING STEEL / STAINLESS / ALUMINUM DRILL, BY HAND MEDIUM, FINE

Outsid	e Diameter (d)	Arbor Hole (e)		r H		
mm	"		120 Coarse	180 Medium	320 Fine	, Ľ
20	3/4"	W1/4"-NPT 1/8"	2011	2012	2013	
25	1"		2511	2512	2513	
40	1.5/8"	W1/2"-NPT 1/4"	4011	4012	4013	
50	2"		5011	5012	5013	

ORDER EXAMPLE: LNA 2011 1. Model: LNA 2. Article Code: 2011

BNA End Brush Abrasive Nylon 6.12"



ACTION SURFACE TOOL FINISHING REMOVAL FLEXIBILITY DEBURRING, FINISHING STEEL / STAINLESS / ALUMINUM DRILL MEDIUM, FINE

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ORDER EXAMPLE: BNA 1902 1. Model: BNA 2. Article Code: 1902



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Outside Diameter Trim Length		ength	Arbor Hole				R.P.M.			
mm	"	mm	"	mm	"	120 Coarse	180 Medium	320 Fine	Max.	
12	1/2"	20	3/4"	6	1/4"	1201	1202	1203	20.000	
19	3/4"	30	1.3/16"	6	1/4"	1901	1902	1903	20.000	
25	1"	30	1.3/16"	6	1/4"	2501	2502	2503	20.000	

BNAR Ceramic Nylon End Brushes



TOOL FINISHING REMOVAL FLEXIBILITY

ACTION

SURFACE

DEBURRING, FINISHING STEEL / STAINLESS / ALUMINUM DRILL, INDUSTRIAL MACHINE MEDIUM, FINE





ORDER EXAMPLE: BNAR 1280 1. Model: BNAR 2. Article Code: 1280



Outside Trim Length ABRASIVE NYLON SUPER CARBIDE Diameter ,, Grit 120 Grit 320 mm mm Grit 80 Grit 180 Grit 320 Grit 80 Grit 120 Grit 180 12 1/2" 25 1" BNAR1280 BNAR12120 BNAR12180 BNAR12320 BNARSC1280 BNARSC12120 BNARSC12180 BNARSC12320 19 3/4" 25 1" BNAR1980 BNAR19120 BNAR19180 BNAR19320 BNARSC1980 BNARSC19120 BNARSC19180 BNARSC19320 BNAR26120 BNAR26180 BNARSC2680 BNARSC26120 BNARSC26180 BNARSC26320 26 1" 25 1" BNAR2680 BNAR26320

Outside Diameter Trim Length		ength		DIAMOND		CERAMIC				
mm	"	mm	"	Grit 700	Grit 1000	Grit 2000	Grit 80	Grit 120	Grit 180	Grit 320
12	1/2"	25	1"	BNARD12700	BNARD121000	BNARD122000	BNARC1280	BNARC12120	BNARC12180	BNARC12320
19	3/4"	25	1"	BNARD19700	BNARD191000	BNARD192000	BNARC1980	BNARC19120	BNARC19180	BNARC19320
26	1"	25	1"	BNARD26700	BNARD261000	BNARD262000	BNARC2680	BNARC26120	BNARC26180	BNARC26320

CNA DIY Line Abrasive Nylon 6



ACTION SURFACE TOOL FINISHING REMOVAL FLEXIBILITY

STEEL / STAINLESS / ALUMINUM DRILL MEDIUM, FINE ORDER EXAMPLE: CNA 1000 1. Model: CNA 2. Article Code: 1000

Technical Information

Brushes made of nylon filaments impregnated with Aluminium Oxide abrasive particles. High flexibility without danger of breaking, providing long working life and increased safety. Suitable for dry applications only.

To be used in power drills.

Red colour nylon brushes (grit 80) produce a coarse finishing; the blue colour ones (grit 150) provide a fine polishing.

Applications

Nylon brushes do not scratch and therefore they are appropriate for cleaning and polishing of: • Any kind of wood (fine or rustic).

- Metallic surfaces such as automobile bodies.
- Tile, stone and concrete.
- · Plastic materials.
- Stainless Steel and Aluminium.

Operating Recommended Speed

Optimum performance is obtained at the recommended working speed 2.500 R.P.M.





Туре	Ext. Di	Ext. Diameter		Filament		cking	R.P.M.	Pieces per Box
,,	mm	33	Colour Grit		Bulk Display		Max.	
Wheel	75	3"	Red	80	7500	9475	4.500	12
Wheel	75	3"	Blue	150	7501	9575	4.500	12
Wheel	100	4"	Red	80	1000	9410	4.500	12
Wheel	100	4"	Blue	150	1001	9510	4.500	12
Cup	50	2"	Red	80	5000	9450	4.500	12
Cup	50	2"	Blue	150	5001	9550	4.500	12
Cup	75	3"	Red	80	7000	9470	4.500	12
Cup	75	3"	Blue	150	7001	9570	4.500	12
End Brush	25	1"	Red	80	2200	9422	4.500	12
End Brush	25	1"	Blue	150	2201	9522	4.500	12
Flap	100	4"	Red	80	1600	9416	4.500	12
Flap	100	4"	Blue	150	1601	9516	4.500	12

DL Flap Discs with Threaded Nut M14 or 22 mm Arbor Hole (7/8 ")





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GRINDING
STEEL / STAINLESS / ALUMINUM
MINI-GRINDER
COARSE, MEDIUM

ORDER EXAMPLE: DLZ 11540 M14 1. Model: DLZ 2. Article Code: 11540 3. Arbor Hole: M14

Technical Information

Grinding and polishing in one operation.

The fiber glass backing allows the disc to fit into corners, without deteriorating the piece of work.

The threaded nut results in an easier attachment to the machine, and increased safety and convenience at work. **Applications**

Grinding and sanding on metal: zirconium for hard metals (i.e. stainless steel), aluminium oxide or zirconium for other metals (carbon steel, aluminium...).

Cleaning and removal of welding scale, corners and edges.

Users: shipbuilding, boiler manufacturers, sheet metal shops, automotive, foundries, welding, aluminium fabricators.

Abrasive Clothing	Diameter			Code	R.P.M.	Pieces per Box	
Abrabito biotining	mm	"	Grit 40	Grit 60	Grit 80	Max.	r looco por box
Zirconium	115	4.1/2"	DLZ 11540	DLZ 11560	DLZ 11580	13.300	10
Zirconium	127	5"	DLZ 12740	DLZ 12760	DLZ 12780	12.000	10
Zirconium	178	7"	DLZ 17840	DLZ 17860	DLZ 17880	8.600	10
Alum. Oxide	115	4.1/2"	DLO 11540	DLO 11560	DLO 11580	13.300	10
Alum. Oxide	127	5"	DLO 12740	DLO 12760	DLO 12780	12.000	10
Alum. Oxide	178	7"	DLO 17840	DLO 17860	DLO 17880	8.600	10

Here are also available with arbor hole of 22mm (7/8") thread or Multithread (M14, W5/8", R-88 and R-77).







JAZ

COATED ABRASIVES

AL Flap Wheels with 6mm (1/4") Shank





ORDER EXAMPLE: AL 603060 1.Model: AL 2.Article Code: 603060

Technical Information

Aluminium Oxide flaps, with highest quality resistant industrial clothing. Used in finishing operations that demand limited removal capacity. They adapt to all contours and shapes.

Uniform and constant finish throughout the life of the wheel.

Applications

Polishing and finishing on irregular surfaces and contours.

Cleaning and removal of rust, paint, weld and scratches.

Applications on steel, stainless and nonferrous materials (aluminium, wood, plastic).

Users: foundries, forging, stamping, moulding, welding, wood...

Dian	neter	Wic	lth		Code		R.P.M.	Pieces per Box
mm	"	mm	"	Grit 60	Grit 80	Grit 120	Max.	r looco por Box
30	1.1/8"	10	3/8"	AL 301060	AL 301080	AL 301012	25.000	10
40	1.5/8"	15	5/8"	AL 401560	AL 401580	AL 401512	19.000	10
60	2.3/8"	20	3/4"	AL 602060	AL 602080	AL 602012	12.600	10
60	2.3/8"	30	1.3/16"	AL 603060	AL 603080	AL 603012	12.600	10
80	3.1/8"	30	1.3/16"	AL 803060	AL 803080	AL 803012	9.500	10



2.4

03. Brushes for Polishing

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Rollers for Burnishing Machines





Technical information

The abrasive rollers for the burnishing machine allow deburring, glazing or polishing different materials and surfaces. We can eliminate or reduce oxidation and scratches, making the surface cleaner and refinished.

The quality of the burnishing (or brushing) depends on the grain of the abrasive rollers.

It is generally used to treat wood, metal and plastic.

Burnishing on stainless steel surfaces is commonly used in designer furniture, lighting, gates, handrails, etc. to achieve a semi-gloss finishing.

ACTION SURFACE

TOOL FINISHING REMOVAL FLEXIBILITY STEEL / STAINLESS / ALUMINUM NON-SPARKING / WOOD / OTHERS BURNISHING MEDIUM, FINE

DEBURRING, BURNISHING, POLISHING

ORDER EXAMPLE: RODMX180 1.Model: ROD 2.Article Code: MX180

Code	Description	Dimensions	Grit
RODMAA021			AO21 Coarse
RODMA041	Abrasive Mesh Rollers		A041 Medium
RODMAA061	ADIASIVE MEST ROIlers		A061 Fine
RODMAA071			A071 Very fine
RODMX40			40 grit
RODMX60			60 grit
RODMX80			80 grit
RODMX120	Mixed Abreaive Meeh+Sendnener DOLLS	100x100x19 CH	120 grit
RODMX150	Mixed Abrasive Mesh+Sandpaper ROLLS		150 grit
RODMX180			180 grit
RODMX220			220 grit
RODMX320			320 grit
RODLJ40			P40
RODLJ60			P60
RODLJ80			P80
RODLJ120	Canding DOLLS		P120
RODLJ150	Sanding ROLLS		P150
RODLJ180			P180
RODLJ220			P220
RODLJ320			P320
RODSD8C	Sisal-Rope Brushes		D8C-Polish
RODADQ	Cotton Brushes		DQ-Polishing
RODFCH	Felt Sheet Brush		CH-Polishing

Abrasive Mesh Brushes with Shank







Technical information Compact fleece brushes to ensure greater durability. Twisted sisal brush for polishing parts with difficult access thanks to its great flexibility. It is recommended to use polishing paste to improve the polishing action and obtain a longer duration. The surfaces that can be treated: Aluminum, non-ferrous materials, bronze, titanium, copper, brass, zinc,

Stainless, thermoplastics and Steel.

ACTION SURFACE TOOL FINISHING REMOVAL

FLEXIBILITY

DEBURRING, BURNISHING, POLISHING STEEL / STAINLESS / ALUMINUM NON-SPARKING / WOOD / OTHERS DRILL, BENCH-GRINDER MEDIUM, FINE

ORDER EXAMPLE: MA40306100 1.Model: MA 2.Article Code: 40306100

Code	Description	Dimensions	Grit
MA40206100			Coarse 100
MA40206180		40X20X6	Medium 180
MA40206280			Fine 280
MA40306100			Coarse 100
MA40306180		40X30X6	Medium 180
MA40306280			Fine 280
MA50206100			Coarse 100
MA50206180		50X20X6	Medium 180
MA50206280			Fine 280
MA50306100			Coarse 100
MA50306180		50X30X6	Medium 180
MA50306280			Fine 280
MA60306100		60X30X6	Coarse 100
MA60306180			Medium 180
MA60306280	Abrasive Mesh		Fine 280
MA60506100			Coarse 100
MA60506180		60X50X6	Medium 180
MA60506280			Fine 280
MA80306100			Coarse 100
MA80306180		80X30X6	Medium 180
MA80306280			Fine 280
MA80506100			Coarse 100
MA80506180		80X50X6	Medium 180
MA80506280			Fine 280
MA100306100			Coarse 100
MA100306180		100X30X6	Medium 180
MA100306280			Fine 280
MA100506100			Coarse 100
MA100506180		100X50X6	Medium 180
MA100506280			Fine 280

Abrasive Mesh Brushes and Sandpaper with Shank







Technical information

Brushes with sheets of fleece and interspersed with sheets of sandpaper fabric with the aim of achieving a greater removal of material and a rougher finishing.

Surfaces that can be treated: Aluminum, materials non-ferrous, bronze, titanium, copper, brass, zinc, stainless, thermoplastics and steel. ACTION SURFACE TOOL FINISHING REMOVAL FLEXIBILITY DEBURRING, BURNISHING, POLISHING STEEL/STAINLESS/ALUMINUM NON-SPARKING/WOOD/OTHERS DRILL, BENCH-GRINDER MEDIUM, FINE ••••••

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ORDER EXAMPLE: MAL80506100 1.Model: MAL 2.Article Code: 80506100

Code	Description	Dimensions	Grit
MAL40206100			Coarse 100
MAL40206180		40X20X6	Medium 180
MAL40206280			Fine 280
MAL40306100			Coarse 100
MAL40306180		40X30X6	Medium 180
MAL40306280			Fine 280
MAL50206100			Coarse 100
MAL50206180		50X20X6	Medium 180
MAL50206280			Fine 280
MAL50306100			Coarse 100
MAL50306180		50X30X6	Medium 180
MAL50306280			Fine 280
MAL60306100		60X30X6	Coarse 100
MAL60306180			Medium 180
MAL60306280	Abrasive Mesh + Sandpaper		Fine 280
MAL60506100			Coarse 100
MAL60506180		60X50X6	Medium 180
MAL60506280			Fine 280
MAL80306100			Coarse 100
MAL80306180		80X30X6	Medium 180
MAL80306280	-		Fine 280
MAL80506100	-		Coarse 100
MAL80506180	-	80X50X6	Medium 180
MAL80506280			Fine 280
MAL100306100		10020020	Coarse 100
MAL100306180	-	100X30X6	Medium 180
MAL100306280	-		Fine 280
MAL100506100 MAL100506180		100X50X6	Coarse 100 Medium 180
		100/20/0	
MAL100506280			Fine 280

Sanding Discs with Velcro Velour Strap



Ideal for fine sanding of panels before deburring or varnish application.

Suitable for manual and machine applications.

The flexible design ensures moldability and achieves a

quality matte finishing.

Diam: 40 mm to 1200 mm

TOOL FINISHING REMOVAL FLEXIBILITY





Code	Description	Dimensions	Grit
DLC40	Ceramic sandpaper disc. 777F	115	40
DLC60			60
DLC80			80
DLC100			100
DLC120			120
DTRZ6	Trizact discs. 237AA		A6
DTRZ16			A16
DTRZ30			A30
DTRZ45			A45
DTRZ65			A65
DTRZ80			A80
DTRZ100			A100
DTRZ160			A160
PLT115M14	Plates Record holder with velcro M-14		

Non-woven abrasive discs



SURFACE TOOL FINISHING REMOVAL

FLEXIBILITY

ACTION

DEBURRING, BURNISHING, POLISHING STEEL / STAINLESS / ALUMINUM NON-SPARKING / WOOD / OTHERS BENCH-GRINDER MEDIUM, FINE $\bullet \bullet \bullet \bullet \bullet$



ORDER EXAMPLE: VTCP1151019 1.Model: VTCP 2.Article Code: 1151019

Technical information

Non-woven abrasives disc ideal for polishing all types of surfaces. Available in cotton of different sizes. Use with abrasive pastes.

Code	Description	Dimensions
VTCP1001019	COTTON NON-WOVEN DISC. PLASTIC CORE 100X10X19	100X10X19
VTCP1151019	COTTON NON-WOVEN DISC. PLASTIC CORE 115X10X19	115X10X19
VTCM1501019	COTTON NON-WOVEN DISC. METAL RING 150X10X19	150X10X19
VTCM2001019	COTTON NON-WOVEN DISC. METAL RING 200X10X19	200X10X19

Sisal discs



Sisal rope brush with plastic center, plastic tube, metal ring, metal staple. Diam: 70mm to 1000mm Metal staples: 60 mm to 230 mm Metal rings: allow several holes. Also with center in carton.

plastic core: 8mm to 24/6mm

SURFACE TOOL FINISHING

ACTION



DEBURRING, BURNISHING, POLISHING STEEL / STAINLESS / ALUMINUM NON-SPARKING / WOOD / OTHERS BENCH-GRINDER MEDIUM, FINE

ORDER EXAMPLE: DSAL15020 1.Model: DSAL 2.Article Code: 15020

Technical information

materials (aluminum).

Suitable for coarse pre-polishing without heating. Eliminate sanding scratches and stubborn dirt. Does not contaminate stainless steel. It does not deform thin thickness materials. Excellent performance. Provides a uniform finishing. Great flexibility, adapting perfectly to any shape of parts from flat to tubular. It is recommended to impregnate with BLACK polishing paste for PRE-POLISED finish and PINK polishing paste in white

Code	Description	Dimensions
CSC1520AMC	SISAL ROPE. 150x20 METAL RING	150x20
CSC2020AMC	SISAL ROPE 200x20 METAL RING	200X20

Stitched Fabric for Polishing



Code Description Dimensions DSAL15020 SISAL AND COTTON FSTC. 150x20 150x20 DSAL20020 SISAL AND COTTON FSTC. 200x20 200X20 HAL150020 FTC COTTON SHEETS. 150x20 150X20 FTC COTTON SHEETS. 200x20 HAL20020 200X20

to 1000 mm.

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SURFACE EXPERTS



HOW TO CHOOSE YOUR RIGHT PRODUCTS

Use this table to guide you in choosing the solution for your task

