



Product Catalog



MATTAUBILAURRES SolAo



JAZEZAUBILAURRES.A.

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JAZ-ZUBIAURRE, S.A. has specialized in the manufacturing and selling of wire brushes for surface treatment since 1924. We are focused on distributing our products in both the industrial/professional and D.I.Y. markets. JAZ is the clear market leader in Spain. We export most of our production to more than 60 countries worldwide, with special activity in the USA and Mexico where we operate through our wholly owned subsidiary companies JAZ USA, INC. and Herramientas LEM, S.A. de C.V.

The vision of JAZ's staff is the continuous improvement of our competitiveness through our teamwork in quality, productivity and innovation. We are widely known and recognized worldwide among wire brush manufactures. In recent years, we have designed and developed revolutionary products in our industry such as Cup Brushes with "Protective Guard", JAZ PLUS brushes, JAZ's multithread nuts and a new safety handling system, as well as improvements in materials, products and processes.

Since 1996 JAZ's Quality Assurance System complies with the requirements of the standard UNE-EN ISO 9001:2000 Quality Systems. We have been establishing our systems in Health and Safety at Work, Training, Continuous Improvement Programs and Innovation. In this last area, we have developed important worldwide innovative products that have been registered as international patents and also honored with awards in technological innovation.







At JAZ, we work as a team and we all share the same goal of being a company, which offers unique and innovative products and solutions for surface treatment applications. This allows us to provide solutions and profitability to our customers, as well as being a reference in quality, service and innovation for them.

/ JAZ Management System

At JAZ we adapt to changes through the increasing of knowledge and the generation of new opportunities. To accomplish this objective we work systematically in the following five key areas for our competitiveness:

/ Quality Assurement Program

/ Training

/ Health and Safety at Work

/ Productivity

/ Innovation

/ Internationalization

JAZ USA, INC.: Through our wholly owned subsidiary company in Lincoln, Rhode Island, we offer a wide range of wire brushes and application solutions to our customers in the United States and Canada.

USA

MÉXICO

SPAIN (Eibar)



Activity

Power brushes: A wide range of standard products for industrial supplies and professional hardware sectors

Hand brushes: JAZ manufactures a wide range of wooden handle and plastic handle scratch brushes in different wire fills and styles for various application needs.

Engineered Brushes: JAZ has the ability to design and develop engineered brush solutions to meet your surface conditioning application needs.

Power Brushes, Hand Brushes and Engineered Brushes



Innovation

Among the innovative products developed during the past years, JAZ highlights the following ones: Cup brushes with "Protective Guard", Multithread Nut, Safety Handling System, High Performance Cable-Crimped wire and the new JAZ PLUS brushes.

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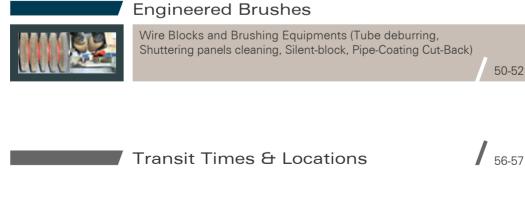
6 Product Catalog JAZ USA, INC.

In our Catalog we offer a wide range of new and unique products for your brushing and surface treatment solutions.

JAZ'S color coding system used in each page will help you identify the different parts of our Catalog: technical information, wire brushes, nylon brushes, and engineered brush solutions to meet your surface conditioning needs.







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Technical Information



Technical Brush information

TECHNICAL INFORMATION



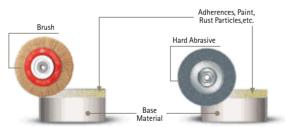
Crimped vs. Knotted wire



Crimped wire brushes, because of their flexibility, are better suited to work on uneven surfaces and they offer a more regular and fine finishing.

Twist knot wire brushes, offer longer life and a higher removal capacity but offer a rougher finish.

Wire Brushes vs. Hard Abrasives



Wire brushes act as an impact tool removing oxide, paint or other adherence from the surface without damaging the base material, as opposed to hard abrasives which will remove the base material along with the surface adherence.

Wire brushes are much more flexible, which allow the end user to clean areas difficult to reach and adapt to irregular surfaces, which bonded and coated abrasives cannot. The selection of the right type of brush depends on the type of finishing required (fine or coarse) and the characteristics of the surface to be brushed (stainless steel, carbon steel, aluminum, etc.)

Also, if the brush is fixed in a machine, it is necessary to know the main features of the machine in order to choose the correct brush type:

- The maximum diameter allowed.
- The machine's max RPM.
- The arbor hole diameter or the thread type required.

Wire Diameter

The wire gauge of a brush determines the type of surface finishing:

- A thicker wire provides a more aggressive brushing action.
- A finer wire provides a less aggressive brushing action with a finer finish.

Trim Length

- A shorter trim length makes the brush face rigid and consequently the brush removal capacity is higher.
- With a longer trim length the brush becomes more flexible, providing a uniform brushing even on irregular surfaces.

MACHINE Normal Speed	MOST COMMON BRUSHES	MODEL	BRUSH DIAMETER	
Bench Grinders	Crimped & Knotted Wheels	CT, CAM, CCA, DNA, CTP	3"-14"	
Angle Grinders	Crimped Et Knotted Wheels	CT, CAM, CPL, CCA, CTP	4"-7"	
5,000-8,500 R.P.M.	Crimped Et Knotted Wheels	TO, TT, TCA, TOG TTG, TCAG, TNA TOP, TTP	3-1/2" to 6"	
Mini Angle Grinders 10,000-12,000 R.P.M.	High Speed Cups, Discs & Wheels	HSC, HST, HSD, HSK, HSP, HSR, HCA, HSCG, HSTG, HCAG, HSKG, HSDG, HSCP, HSTP, HSRP, CPL	2-3/4" to 4-1/2"	
Drills & Pneumatic Tools 15,000-20,000 R.P.M.		CDE, CDO, CAM, BA, BC, BR	1/2" to 3"	
Drills 4,500 R.P.M.	Wheels, Cups & End Brushes with shank	BDER, BTE, BBC, BDOR, CNA	1" to 4"	

Technical Brush information

TECHNICAL INFORMATION



Brush Usage Recommendations

The brushing operation must be performed with the wire ends. Excessive pressure causes over-bending to the wires, which increases their flexing fatigue causing premature breaking and reduces significantly the brushes working life.

If you need higher removal capacity, rather than putting more pressure on the brush, we suggest the following:

- Use a more aggressive brush: A Brush with a thicker wire with less trim length or a twist knot wire instead of a crimped wire brush.
- Increase the brushing speed with a brush that can satisfy the required MAX R.P.M.
- Select a brush with a larger diameter.

IMPORTANT: Never exceed the recommended "MSFS" (Maximum Safe Free Speed) or the MAX R.P.M. rating of the brush.

Safety Warnings

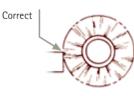
The European Standard EN 1083-2 regarding Safety Requirements for the use of Power-Driven brushes states the safety instructions that all brush operators must observe.

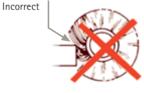
These requirements and common safety practices will reduce the likelihood of physical injury and brush failure:

- Wear safety goggles, protective clothing and equipment.
- Observe all speed restrictions indicated on the brushes, containers and/or packaging, labels, or printed in pertinent literature.
- Do not exceed "M.S.F.S" Maximum Safe Free Speed (MAX R.P.M.) under any circumstances.
- Keep all machine guards in place.
- Do not use deteriorated brushes.
- Oxidation or any other chemical alteration in the wire may cause malfunctioning.
- Store brushes in original packaging, in a clean and dry location protected from dust, humidity and other environmental effects.



FAILURE TO OBSERVE SAFETY PRECAUTIONS MAY RESULT IN INJURY







JAZ's Color Coding System (JCCS) allows many of our brushes to be easily identified. The symbol (right) will be shown throughout the catalog. Red are carbon steel, blue are stainless steel and green are made with solid brass wire. This color coding system helps reduce the chances of cross contamination, which is a common error in the industry.





Material Information

TECHNICAL INFORMATION



For most applications the most common wires are the following:

High Resistance Brass Coated Steel –Crimped in our stateof-the-art factory by our proprietary 3D crimping process. This wire is mainly used in JAZ's crimped wire brushes.
Tempered Steel – Used in twist knot style brushes for maximum removal capacity.

• Stainless (304) Wire – Highly corrosion resistant. Used on crimped wire brushes and twist knot types for brushing stainless steel and non-ferrous metals.

Cable Crimped Wire Brushes High Performance

High Performance Cable-Crimped brushes are made with cable-crimped wire, which consists of groups of high resistance brass coated steel wires, which form into a flexible and compact unit. With this wire you can obtain similar finishing and removal capacity of an industry standard crimped brush made with .012" wire fill.

- Performance: Cable-Crimped wire brushes provide for a 50% longer lasting brush, due to a higher degree of resistance to flexing fatigue
- Flexibility: Cable-Crimped offers higher flexibility by allowing the wire to adapt to irregular surfaces.
- Safety: Cable-Crimped wire reduces and in many cases eliminates the breakage caused by flexing fatigue. This means the wire being "split" or "thrown" is considerably reduced. See pages 23 & 26

JAZ Plus Brushes Made with Laminated Wire

JAZ Plus brushes are a unique product in the wire brush industry. On one hand, the JAZ PLUS brush made with laminated wire is easier and safer for the operator to handle and helps avoid the wires from pricking the operator's hands. On the other hand, the JAZ PLUS wire brushes provide a higher performance (longer working life) due to the lower level of wire fractures of the laminated wires when compared to industry standard wire brushes. See pages 32 & 33

Main Advantages:

- · Easier and safer handling for the operator's hands.
- Longer life than standard wire brushes.



When specific brushing effects are required, such as nonsparking, prevention of rust contamination, very fine polishing, etc., there are other more appropriate wires: Brass, Stainless Steel, German Silver, Galvanized Steel, etc.

Please reference chart below of a variety of available wire fills.

MATERIAL	Ømm	Ø "	WIRE CODE
Temp. Steel	0,12	.005″	А
	0,15	.006"	В
	0,20	.008″	С
	0,25	.010"	D
Brass Coated	0,30	0.12"	E
Steel	0,35	.014"	F
	0,40	.016″	G
	0,50	.020"	Н
	12 x 0,23	12 x .009"	@
	0,15	.006"	Μ
	0,20	.008"	Ν
Stainless	0,30	.012"	Z
Steel	0,40	.016"	Р
	0,50	.020"	Q
	0,08	.003"	U
Brass	0,30	.012"	V
	0,40	.016″	Х
	0,37	.015"	J
Temp. Steel	0,50	.020"	K
	0,80	.032"	L
German Silver	0,08	.003"	0
Flat Steel	0,90 x 0,50	.035" x .020"	Т
Galvanized Steel	0,43	.017"	S
Laminated	3 x 0,20 + 6 x 0,35	3 x .008" + 6x.014"	W
Wire	0,50	.020"	Y

Material Information

TECHNICAL INFORMATION

Brass coated steel High Performance and flexibile Anti-corrosion material. Suitable for a large range of finishing.	Traction resistance 230-250 Kgs/mm ² . Carbon content 0,75%. Available thickness (in): .006"008"010"012"014"016"020" We have the following cable crimped wire range: $6 \times .009$ " - $12 \times .009$ " (3 × .008") + (6 × .014")
Cable-Crimped wire High Performance and flexibile. 50% longer life than standard crimped-wire. Similar finish as .012" wire.	Traction resistance 230-250 Kgs/mm ² . Carbon content 0,75%. Available thickness (in): .006"008"010"012"014"016"020" We have the following cable crimped wire range: $6 \times .009$ " - $12 \times .009$ " (3 x .008") + (6 x .014")
Brass Anti- sparkling wires. Suitable for soft finishing in non-ferrous materials.	Traction resistance 80-95 Kgs/mm ² . Available thickness (in): .003"012"016"
Tempered steel Suitable for twist-knotted brushes and a high removal capacity. Non suitable for stainless steel surfaces.	Traction resistance 180-200 Kgs/mm ² . Carbon content 0,50-0,60%. Available thickness (in): .005"008"012"015"020"032" We have .004" mm Bessemer wire.
Stainless steel These wires are used for the brushing of stainless steel, aluminium or non ferrous metal surfaces. Stainless steel turned into wire becomes slightly magnetic.	Traction resistance 160-180 Kgs/mm ² following AISI 304 regulations. Available thickness (in): .006"008"012"016"020" We have stainless steel wire following AISI 3016-L regulations and stainless steel cable 7 x .014".
German Silver Suitable for soft polishing in silver color surfaces.	Copper content 60-65%, Zinc 22-25% and Nickel 11-13%. Available thickness: .003".
Abrasive Nylon Abrasive nylon trims regenerate constantly and offer a uniform finishing during its lifetime.	We have 2 sorts of filaments: Nylon 6-12 with silicon carbide grains for industrial applications and with 120,180 and 320 grains. Nylon 6 with aluminium oxide for DIY and with 80 and 150 grains.

Application Information

TECHNICAL INFORMATION



Please consider the following criteria when selecting a brush:

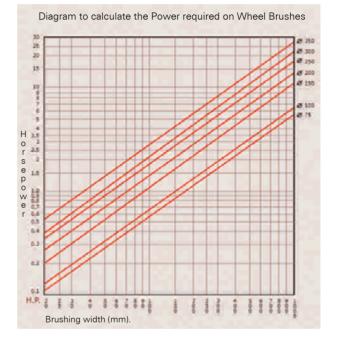
To choose the kind of brush:

- The work to be done.
- Application surface.
- RPM parameters of the machine.
- To decide on the type of material, wire or nylon abrasive:
- The material of the application surface.
- Desired Finishing.
- RPM parameters for machine.

Work efficiency increases as a brush diameter increases. To calculate the biggest possible diameter, it is necessary to consider the maximum RPM of the power tool or machine being used (i.e. for an electric tool with maximum RPM of 6,000, the brush should not exceed 7" diameter). A shorter trim length provides a more aggressive brushing action, whereas flexibility to adapt to irregular or uneven surfaces increases as trim length increases.

In contrast to abrasives and cutting tools, wire brushes do not remove the base material of a treated surface. Herein, brushes serve as an essential tool for a wide range of industrial processes.







Application Information

TECHNICAL INFORMATION



Troubleshooting Guide

Several factors can influence a brush application. If the selected brush does not achieve the expected result, the following table may provide solutions for the most common problems faced by the user.

For further information, please contact our Technical Department by calling 1-877-529-8721.

PROBLEM	SUGGESTED SOLUTIONS
Brush is too aggressive	Increase trim length. Decrease wire diameter. Work at lower speed.
Finish too coarse	Increase trim length. Decrease wire diameter. Choose a nylon abrasive brush.
Action of brush is not uniform	Decrease brushing pressure. Decrease wire diameter. Work at lower speed.
Life of the brush is too short	Decrease wire diameter. Increase brush diameter. Decrease brushing pressure.

Multi-threads and Adapters

The exclusive and patented JAZ threaded nut provides for a number of advantages:

- Easier tighten and loosen on and off angle grinders.
- Greater strength and higher resistance to torque and "brush back off."
- The multi-thread nut allows the use of one brush on machines with different spindle thread sizes:
 - R88 threaded nut: fits both 5/8-11" and M14-2 machines.
 - R77 threaded nut: fits both M10x1.25 and M10 x 1.50.

The main advantage of the multi-thread nut is to aid the distributor in better managing their inventory by reducing the number of SKU's. At the same time their inventory is reduced by half yet can still satisfy the end user's accessory needs by having a brush that can accept two spindle sizes.



Multi-thread adapters: JAZ is offering a variety of thread adapter options for 5/8"-11 nuts:

- Catalog #99001 Multi M10 adapter converts a 5/8"-11 thread to both M10 x 1.25 and M10 x 1.50
- Catalog #99009 3/8"-24 adapter converts a 5/8"-11 thread to fit a 3/8"-24 thread

NOTE: When using catalog #99001 (Multi M10 adapter) in conjunction with our multithread nut, this brush can fit 4 threads: 5/8"-11, M14 x 2.0, M10 x 1.25 and M10 x 1.50. Making it a four-in-one brush!



The JAZ Advantage

FEATURES & BENEFITS



High-Performance Cable Crimped Wire

- Provides for a 50% longer lasting brush, due to a higher degree of resistance to flexing fatigue.
- Ability to adapt to irregular surfaces, and an excellent shape recovery of the wire.
- Cable-Crimped wire reduces the breakage caused by flexing fatigue. The wires break off in much smaller pieces making it safer to use.

Metal Knock-Off Ring

- Metal ring is standard on JAZ#57050, 54052, 55052, 57080, 54080 and 55082.
- Prevents the cup from flaring out too much, which allows for more aggressive surface cutting action.
- When the wire is worn to the metal ring, it can be knocked off with a screw driver and hammer blow to expose more wire extending the life of the brush by 30%.



Cup Brushes with "Protective Guard"

- Patented guard opens up into a shield to protect the user from flying wire projections as well as dust and any other kind of debris.
- Provides for safe handling and installation of brush.

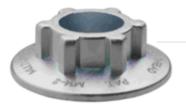


Laser Marking System

- With a state-of-the-art laser marking system, JAZ brushes are the only industry brushes to be engraved with all product information.
- Helps facilitate inventory management and provides ease for the customer when reordering.

The JAZ Advantage

FEATURES & BENEFITS





- New nut has gripping points that allow easier loosening and tightening on and off angle grinders.
- Nut base covers a greater area, which gives the nut greater strength against resistance, torque, and brush "back off."
- Multi-thread technology allows one brush to fit any 5/8"-11 and M14 \times 2.0 spindles.



Patented Multi-Arbor

- JAZ has developed and patented a multi-fitting arbor hole for bench wheels.
- Fits (7) difference sizes just by knocking out the plastic bushings.
- Prevents selling a bench wheel to a customer with the wrong arbor hole size.



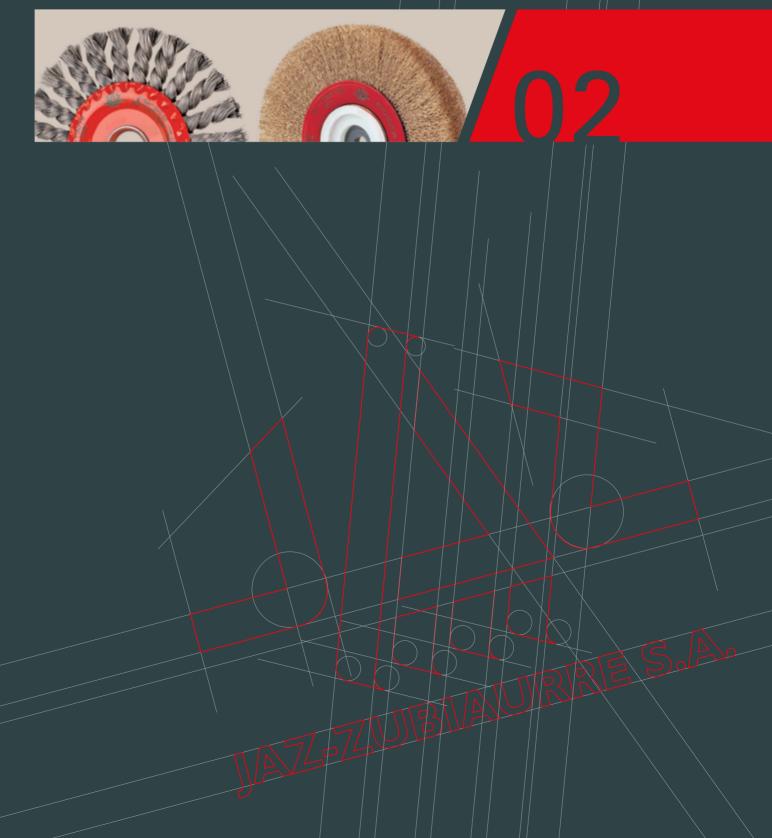
- Painted hubs to prevent rusting.
- Color-coding system for easy identification.







Wire Brushes



mod. CT Crimped Wire Wheel Brushes with Multi-Fitting Arbor

WIRE BRUSHES



Diameter (d)	Face Width (a)	Trim Length (s)	Multi Arbor Hole (e)	Coated Steel —				Stainles Steel —	SS	- Brass —	R.P.M. Max.
(-)	(-)	(-)		.008"	.012"	.016"	.020"	.008"	.012"	.012"	
	1/2"		1/01 5/01	21380	21300	21350	21310	21340	21330	21360	
4"	9/16"	11/16"	1/2" 5/8" 3/4" 7/8"	21480	21400	21450	21410	21440	21430	21460	C F00
4	5/8"	11/10	3/4 //8 1" 1-3/16"	21580		21550	21510	21540		21560	6,500
	7/8"		1 1-3/10	21780		21750	21710	21740	21730		
	1/2"		1/2" 5/8"	22380		22350	22310	22340		22360	
5"	5/8"	1-5/32"	3/4" 7/8"	22480		22450	22410	22440		22460	6,500
	3/4"	,	1" 1-3/16"	22580		22550	22510	22540		22560	-,
	1" r/o"		1/0" 5/0"	22780		22750	22710	22740		22760	
	5/8" 3/4"		1/2" 5/8" 3/4" 7/8"	23480 23580		23450 23550	23410 -	23440 23540		23460 23560	
6"	3/4 1"	1-1/8"	3/4 //8 1" 1-3/16"	23580		23550	- 23710	23540		23560	6,500
	1-1/4"		2"	23780		23750	23910	23940		23960	
	11/16"		1/2" 5/8"	23980		23950	24410	23940		23960	
	3/4"		3/4" 7/8"	24580		24550	-	24540		24560	
7"	1-1/16"	1-5/8"	1" 1-3/16"	24780		24750	24710	24740		24760	6,500
	1-1/4"		2"	24980		24950	24910	24940		24960	
	11/16"			25480	25400	25450	25410	25440	25430	25460	
	3/4"		1/2" 5/8"	25580	25500	25550	-	25540	25530	25560	
8"	1"	1-5/8"	3/4" 7/8"	25680	25600	25650	25610	25640	25630	25660	4,500
	1-1/16"		1" 1-3/16" 2"	25780	25700	25750	25710	25740	25730	25760	
	1-3/8"		2	25980	25900	25950	25910	25940	25930	25960	
	3/4"		1/2" 5/8"	26480		26450	26410	26440		26460	
	7/8"		3/4" 7/8"	26580		26550	26510	26540		26560	
9"	1-1/16"	2-1/16"	1" 1-3/16"	26680		26650	26610	26640		26660	3,600
	1-1/8"		2"	26780		26750	26710	26740		26760	
	1-3/8"		-	26980		26950	26910	26940		26960	
	7/8"		1/2" 5/8"	27480		27450	27410	27440		27460	
10"	1"	о г <i>I</i> о"	3/4" 7/8"	27580		27550	27510	27540		27560	2 000
10	1-1/8" 1-3/8"	2-5/8"	1" 1-3/16"	27680 27780		27650 27750	27610	27640 27740		27660 27760	3,600
	1-3/8 1-1/2"		2"	27780		27950	27910	27740		27960	
	7/8"			27980		27950	29410	29440		29460	
	1"		1/2" 5/8"	29480		29550	29510	29540		29560	
12"	' 1-3/4"	3-5/8"	3/4" 7/8"	29680		29650	29610	29640		29660	3,000
12	1-3/8"	5 6/6	1" 1-3/16"	29780		29750	29710	29740		29760	0,000
	1-1/2"		2"	29980		29950	29910	29940		29960	
	7/8"			20480		20450	20410	20440		20460	
	1-1/16"		1/2" 5/8"	20580		20550	20510	20540		20560	2,400
14"	1-1/4"	4-5/8"	3/4" 7/8"	20680	20600	20650	20610	20640	20630	20660	
	1-1/2"		1" 1-3/16" 2"	20780	20700	20750	20710	20740	20730	20760	
	1-5/8"		۷	20980	20900	20950	20910	20940	20930	20960	

Note: Face width measures are always approximate. Brushes made on request will indicate all necessary specifications on the side plates.

mod. CT Crimped Wire Wheel Brushes with Multi-Fitting Arbor

WIRE BRUSHES





Technical Information

- These wheels are designed for individual use or can be mounted on a shaft.
- Available in a wide variety of diameters, face widths, arbor holes and wire fills.

Applications

- Removal of rust, paint, scale, edges, etc.
- Cleaning of forged pieces
- Tire recovery
- Surface processing in metal, rubber, plastic, wood, glass, etc.
- Light deburring
- Edge blending

Multi-Fitting Arbor Hole

• 1/2", 5/8", 3/4", 7/8", 1", 1-3/16", 2"



mod. CT Crimped Wire Wheel Brushes with Threaded Nut

WIRE BRUSHES

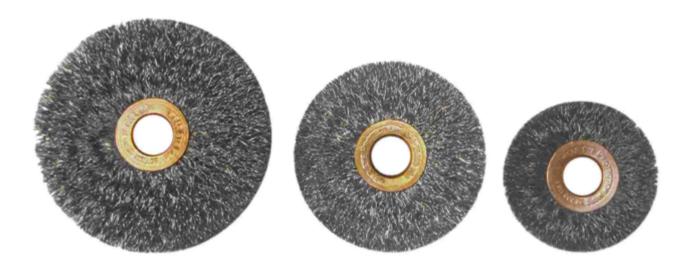


JAZ offers a range of 3/4" face width, .012" brass coated steel brushes in 6", 7" and 8" diameter that are equipped with a 5/8"-11 threaded nut. This allows the operator to easily mount the crimped wheel brush to portable angle grinders. Part No: 23502 24502 25502 CT brush models are packaged in our exlusive security handling system



mod. CDO Small Crimped Wheel brushes with Arbor Hole

WIRE BRUSHES



Diameter (d)	Wire Size	Arbor Hole (e)	Trim Length (s)	Face Width (a)	Tempered Steel ———	Stainless Steel ———	R.P.M. Max.
1"	.005" .006"	1/4" 1/4"	1/4"	3/16"	- 01321	01361 -	20,000
1-1/4"	.006 .008″	1/4" 3/8"	3/8" 5/16"	1/4"	02211 02322	02271 -	20,000
1-3/8"	.006" .008" .008 .0104	1/4" 1/4" 3/8" 1/4"	3/8"	1/4"	03211 03221 03222 03231	- - -	20,000
1-1/2"	.006" .008" .008" .0104" .0118 .014"	3/8" 3/8" 1/2" 3/8" 3/8" 3/8"	7/16" 7/16" 1/4" 7/16" 7/16" 7/16"	1/4"	04412 04422 04353 04432 04442 04442	04462 04472 - - -	20,000
2"	.005" .006" .008" .0104" .0118" .014"	1/2" 1/2" 1/2" 1/2" 1/2"-3/8" 1/2"-3/8"	1/2"	3/8"	- 05613 05423 05433 05446 05456	05766 - 05773 05783 05793 05703	20,000
2-1/2"	.0118" .014" .014"	1/2"-3/8" 1/2"-3/8" 1/2"	3/4"	1/2"	06746 06456 -	06706 - 06703	20,000
3"	.006" .006" .008" .008" .0104 .0118" .0118" .014" .014"	1/2" 5/8" 1/2" 5/8" 1/2" 1/2"-3/8" 5/8" 1/2"-3/8" 5/8"	1" 15/16" 1" 15/16" 1" 15/16" 1" 15/16"	5/8"	07013 07015 07723 07025 07033 07046 07045 07756 07755	07063 07765 07073 - - 07096 - 07706	20,000

mod. CCA Cable Crimped High Performance

WIRE BRUSHES



Diameter (d)	Face Width (a)	Trim Length (s)	Arbor Hole (e)	High-Performance Cable Crimped	R.P.M. Max. 12 x .009"
6"	3/4"	1-1/8"	Multi-Arbor (1/2", 5/8", 3/4", 7/8", 1", 1-3/16", 2")	23510	6,500
7"	3/4"	1-5/8"	Multi-Arbor (1/2", 5/8", 3/4", 7/8", 1", 1-3/16", 2")	24510	6,500
8"	3/4"	1-5/8"	Multi-Arbor (1/2", 5/8", 3/4", 7/8", 1", 1-3/16", 2")	25510	1,500

Technical Information

- In these brushes industry standard crimped wires (monofilaments) are substituted by crimped cables made of several wires each. These are groups of .009" diameter high resistance steel wires, making a flexible, compact and aggressive brush.
- The type of finish and removal capacity is medium, similar to that achieved by a traditional .012" industry standard crimped wire brush.

Applications

- Removal of rust, paint, scale and dirt
- Cleaning of castings
- Treating metallic surfaces, rubber, plastic, wood or glass
- Metallic construction, ship-building, boiler industry, stone and concrete

	STATILES
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mod. **G** Jewelry Wheel With Wooden Center WIRE BRUSHES

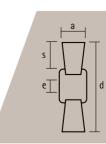
Diameter (d)	Face Width (a)	Trim Length (s)	Arbor Hole (e)	Brass .003"	G. Silver .003"	Bessemer .004"	R.P.M. Max.
	5/8"			0804U	08040	0804R	700
3-1/4"	5/8"	3/4"	1/4"	0805U	08050	0805R	700
	11/16"			0806U	08060	0806R	700
	11/16"			1004U	10040	1004R	600
4"	3/4"	1-3/16"	1/4"	1005U	10050	1005R	600
	7/8"			1006U	10060	1006R	600
	7/8"			1204U	12040	1204R	500
4-3/4"	15/16"	1-3/8"	1/4"	1205U	12050	1205R	500
	1-1/8"			1206U	12060	1206R	500
	1"			1504U	15040	1504R	380
6"	1-3/16"	2"	3/8"	1505U	15050	1505R	380
	1-3/8"			1506U	15060	1506R	380

Technical Information

- Special model for very fine polishing.
- Wooden center to avoid material damage.
- Brass: for gold plated metallic surfaces.
- German Silver: for silver plated surfaces.

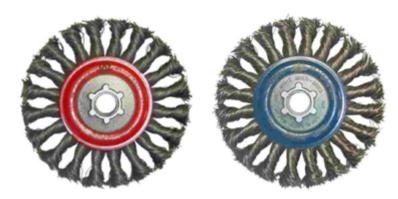
Applications

- Jewerly, silver plating, etc.
- Dental fitting
- Galvanizing processes
- · Polishing of oxidized surfaces



mod. CAM & HSR Twist Knot Wheel Knot of 3/8" & 1/2"

WIRE BRUSHES



Diameter (d)	No. of Knots	Knot Width (a)	Trim Thread a) Length (s) Size (e)		Tempered Steel ———		Stainless Steel ——		R.P.M. Max.
(u)	Rifets	(d)	Length (5)	5120 (0)	.015"	.020"	.015"	.020"	Max.
3"	20	3/8"	5/8"	1/2"-3/8" A.H.	39069	39059	39099	39089	20,000
4"	20	1/2"	3/4"	1/2"-3/8" A.H.	31069	31058	31099	31088	20,000
4"	20	1/2"	3/4"	5/8"-11/M14	-	31050	-	31080	20,000
4"	20	1/2"	3/4"	5/8"-11	-	31052●	-	31082	20,000
4-1/2"	20	1/2"	1"	5/8"-11	78062 ●	78052●	-	78082●	20,000
4-1/2"	20	1/2"	1"	5/8"-11/M14	-	78050	-	78080	20,000
5"	22	1/2"	1"	5/8"-11	-	32052	-	32082	12,500
6"	24	1/2"	1-3/8"	5/8"-1/2" A.H.	33066	33056	33096	33086	12,500
6"	24	1/2"	1-3/8"	5/8"-11	33062	33052•	33092	33082	12,500
7"	24	1/2"	1-3/4"	5/8"-11	-	34052	-	-	8,500
7"	24	1/2"	1-3/4"	5/8" A.H.	-	34057	-	-	8.500
8"	40	1/2"	1-1/8"	5/8" A.H.	-	35057	-	35087	4,500
8"	42	1/2"	1-1/8"	5/8" A.H.	-	35157	-	-	4,500
10"	56	3/4"	1-3/4"	1-1/4"	-	37169 🔺	-	-	4,500

● Available in Bulk Packaging. Add "B" to end of Part No. when placing order. ▲ 1/2" x 1/4" Double Keyway



Applications

- Removal of welding and forge scale.
- Weld cleaning at the tube joins in pipelines
- Tyre-rubber and glass bottle recovering.

Technical Information

- The twist knot wire allows:
 - Long working life
 - High removal capacity
 - Possibility of working at high speed
- Exclusive design and patented multifitting thread in two different versions:
 - (Code R88) M14 and 5/8"-11
 - (Code R77) M10 \times 1.5 and M10 \times 1.25

The new design is also extended to single threads. It allows an easier attachment and increases resistance resulting in more safety for the user.

mod. CAM Joint Crack Cleaning Brush Knot of 3/8"

							~АЦ ВР
Diameter (d)	Wire Size	Arbor Hole (e)	Trim Length (s)	Face Width (a)	No. of Knots	Tempered Steel ————	R.P.M. Max.
12"	.035"	1" (3/8" pin hole)	3-1/4"	3/8"	40	38199	4,500

WIRE BRUSHES

mod. CPL Stringer Bead Twist Wheels Knot of 3/16" & 5/16"

WIRE BRUSHES



Diameter (d)	No. of Knots	Knot Width (a)	Trim Length (s)	Thread Size (e)	Tempered Steel ——— .020"	Stainless Steel ——— .020"	R.P.M. Max.
4"	32	3/16"	3/4"	5/8"-11 & M14 x 2.0	41050	41080	20,000
4"	32	3/16"	3/4"	M10 x 1.25 & M10 x 1.50	41051	41081	20,000
4"	32	3/16"	3/4"	5/8"-11	41052 ●	41082 ●	20,000
4"	32	3/16"	3/4"	3/8"-24	41059 •	41089 •	20,000
4-1/2"	32	3/16"	1-1/8"	5/8"-11	48052 ●	48082 ●	20,000
5"	32	3/16"	1-5/8"	5/8"-11	42052 •	42082 •	12,500
5"	38	3/16"	7/8"	5/8"-11	42552 🗨	42582 •	12,500
5"	38	3/16"	7/8"	7/8" A.H.	42558	42588	12,500
6"	40	3/16"	1-3/8"	5/8"-11	43142 ●	-	12,500
6"	50	3/16"	1-3/8"	5/8"-11	43152 ●	43182 •	12,500
7"	56	3/16"	1-1/8"	5/8"-11	44252 ●	44282 •	9,000

• Available in Bulk Packaging. Add "B" to end of Part No. when placing order.



Applications

- Removal of welding and forge scale.
- Weld cleaning at the tube joins in pipelines

Technical Information

- The twist knot wire allows:
 - Long working life
 - High removal capacity
 - Possibility of working at high speed
- Patented multi-fitting thread in two different versions:
 - 5/8"-11 and M14 x 2.0
 - M10 x 1.25 and M10 x 1.50

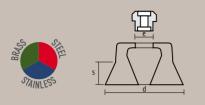
Patented nut design and multi-thread are available in two versions. One is available in 5/8''-11 & M14 x 2.0 thread combination and the other is available in the M10 x 1.25 & M14 x 1.50 thread combination.

This unique nut design is easier to tighten and loosen on and off angle grinders.



mod. TO & HSC Cup Brush Crimped Wire

WIRE BRUSHES





Diameter (d)	Trim Length (s)	Arbor Hole (e)	Coated Steel ———		Stainless Steel	—— Brass ———	R.P.M. —— Max.
(u)	(3)		.012"	.020"	.012"	.012"	Ivia.
3"	7/8"	5/8"-11 & M14 x 2.0	73000	-	73030	73090	13,000
3-1/2"	1-3/16"	5/8"-11	63002	63052	63032	63092	13,000
4"	1-3/16"	5/8"-11 & M14 x 2.0	64000	64050	64030	64090	8,500
5"	1-1/8"	5/8"-11	65002	65052	65032	65092	8,500
6"	1-1/8"	5/8"-11	66002	66052	66032	66092	6,000

mod. TCA & HCA Cable Crimped Wire High Performance

WIRE BRUSHES





Diameter (d)	Trim Length (s)	Arbor Hole (e)	High-Performace Cable Crimped 12 x .009"	R.P.M. Max.
3"	7/8"	5/8"-11 & M14 x 2.0	73010	13,000
4"	1-3/16"	5/8"-11 & M14 x 2.0	64010	8,500
5″	1-3/8"	5/8"-11	65012	8,500

Patented nut design and multi-thread are available in two versions: • 5/8"-11 & M14 x 2.0

• M10 x 1.25 & M10 x 1.50

This unique nut design is easier to tighten and loosen on and off angle grinders.

Technical Information

- Specially designed for use on portable machines (angle grinders), electric or pneumatic.
- Appropriate for brushing large surfaces with a medium removal capacity.

Application

- Cleaning of castings.
- Treating metallic surfaces, rubber, plastic, wood or glass.
- Metallic construction, ship-building, boiler industry, stone and concrete.
- Removal of rust, paint or any kind of adherence.

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mod. TT & HST Cup Brush Twist Knot Wire

WIRE BRUSHES



Diameter No. of Trim (d) Rows Length (Thread Size (e)	Tempered Steel ——			Stainless	Stainless Steel		
(u)	110103	Length (S)		.015"	.020"	.032"	.015"	.020"	— Max.	
2-3/4"	1	3/4"	5/8"-11 & M14x2.0	72060	72050	-	72090	72080	15,000	
2-3/4"	1	3/4"	5/8"-11	-	72052 ●	-	-	72082 ●	15,000	
2-3/4"	1	3/4"	M10x1.25 & M10x1.5	72061	72051 ●	-	-	72081 ●	15,000	
2-3/4"	1	3/4"	3/8"-24	-	72059 \star	-	-	72089	15,000	
3-1/2"	1	7/8"	5/8"-11	-	53052 ●	-	-	53082 •	15,000	
3-1/2"	1	1-3/16"	5/8"-11 & M14x2.0	-	57050 🗖	-	-	57080	8,500	
4"	1	1-1/16"	5/8"-11	-	54052	54092	-	54082	8,500	
4"	2	1-1/16"	5/8"-11	-	54252	-	-	-	8,500	
5″	1	1-3/16"	5/8"-11	-	55052 🗖	55092 🔳	-	55082	6,500	
6"	1	1-3/8"	5/8"-11	-	56052	56092	-	56082	6,000	
6"	2	1-3/8"	5/8"-11	-	56252	-	-	-	6,000	

• Available in Bulk Packaging. Add "B" to end of Part No. when placing order.

Equipped with removable metal ring.



Metal Ring Information

A metal bridle is a standard feature on the JAZ 4" and 5" twist knot cup brush. This serves a dual purpose:

1.

Prevents the cup brush from flaring out excessively, which allows for more aggressive surface cutting by having more wires contacting the surface.

2.

When the wire is worn to the metal knock-off ring, the ring can be removed with a hammer and screwdriver. Removing the ring exposes more trim length and allows for an additional 30% working life of the brush.

Technical Information

- The twist knot wire allows:
- Long working life
- High removal capacity
- Possibility of working at high speed
- Designed for use on portable machines (angle grinders).
- Appropriate for brushing large surfaces with a high removal capacity.
- Patented nut design and multi-thread are available in two versions:
 One is available in 5/8"-11 & M14 x 2.0 thread combination and the other is

available in the M10 x 1.25 \pm M10 x 1.50 thread combination.

This unique nut design is easier to tighten and loosen on and off angle grinders.

The nut design also covers a greater surface area, which gives the nut greater strength against resistance, torque, and "brush back off."

Applications

- Cleaning and removal of welding scale, metallic structures, ship building, etc.
- Removal of rust, scale, paint or other adherences on flat or irregular surfaces.
- Deburring.
- Heavy duty cleaning of large metal areas.

mod. HS High Speed Brushes Crimped

WIRE BRUSHES



Model	Diameter (d)	Trim Length (s)	Arbor Hole (e)	Coated Steel ——— .012"	High-Performace ——Cable Crimped — 12 x .009"		— Brass — .012"	R.P.M. — Max.
HSC	3"	7/8"	5/8"-11 & M14x2.0	73000	-	73030	73090	13,000
HSC	3"	7/8"	M10x1.25 & M10x1.50	73001	-	-	-	13,000
HCA	3"	7/8"	5/8"-11 & M14x2.0	-	73010	-	-	13,000
HSD	4"	1"	5/8"-11 & M14x2.0	74000	-	74030	-	13,000
HSP	4-1/2"	1"	5/8"-11 & M14x2.0	78000	-	78030	-	13,000





Technical Information

- JAZ High Speed Brushes have been specially designed for low weight and high speed mini-grinders (11,000 R.P.M.).
- High removal capacity and efficiency at high speed performance.
- Comfortable use and less operator fatigue.
- Special design allowing access to angles and flexible performance on any surface.

Applications

- For continuous and frequent brushing processes (ship building, metallic structures, welding, maintenance, etc.).
- Patented nut design and multi-thread are available in two versions:

One is available in 5/8"-11 & M14 x 2.0 thread combination and the other is available in the M10 x 1.25 & M10 x 1.50 thread combination.

This unique nut design is easier to tighten and loosen on and off angle grinders.

The nut design also covers a greater surface area, which gives the nut greater strength against resistance, torque, and "brush back off."

mod. HS High Speed Brushes Knotted

WIRE BRUSHES



Model	Model Diameter Trim Length (d) (s)		Arbor Hole	Tempered Steel		Stainless	Stainless Steel		
	(u)	(3)	(e)	.015"	.020"	.015"	.020"	— Max.	
HST	2-3/4"	3/4"	5/8"-11 & M14x2.0	72060	72050	72090	72080	15,000	
HST	2-3/4"	3/4"	5/8"-11	-	72052 •	-	72082 ●	15,000	
HST	2-3/4"	3/4"	M10x1.25 & M10x1.50	72061 ●	72051	-	72081 ●	15,000	
HST	2-3/4"	3/4"	3/8"-24	-	72059 •	-	72089	15,000	
Π	3-1/2"	7/8"	5/8"-11	-	53052	-	53082	15,000	
HSK	4"	7/8"	5/8"-11	-	74050	-	74080	15,000	
HSK	4-1/2"	1-1/8"	5/8"-11	-	76052	-	74182	12,000	
HSR	4-1/2"	1"	5/8"-11	78062 •	78052 •	-	78082 ●	20,000	
HSR	4-1/2"	1"	5/8"-11 & M14x2.0	-	78050	-	78080	20,000	

• Available in Bulk Packaging. Add "B" to end of Part No. when placing order.



Technical Information

- JAZ High Speed Brushes have been specially designed for low weight and high speed mini-grinders (11,000 R.P.M.).
- High removal capacity and efficiency at high speed performance.
- Comfortable use and less operator fatigue.
- Special design allowing access to angles and flexible performance on any surface.

Applications

- For continuous and frequent brushing processes (ship building, metallic structures, welding, maintenance, etc.).
- Exclusive design and patented multifitting thread in two different versions; one is valid for M14 and 5/8- 11 attachments (Code R88); the other is valid for M10 x 1,5 and M10 x 1,25 systems (Code R77).

This unique nut design is easier to tighten and loosen on and off angle grinders.

The nut design also covers a greater surface area, which gives the nut greater strength against resistance, torque, and "brush back off."

mod. Cup Brushes with "Protective Guard"

WIRE BRUSHES



Model	Type of Wire	Diameter (d)	Trim Length (s)	Thread (e)	Coated Steel—		Tempere — Steel —		Cable —Crimped	Stainles	5	R.P.M. – Máx.
	VVIIC	(u)	Length (3)	(C)	.012"	.020"	.020"	.032"	12x.009"		.020"	IVIAA.
TOG	Crimped	4"	1-3/16"	5/8"-11 & M14x2.0	64900	64950	-	-	-	64930	-	8,500
TTG	Twisted	4"	1-1/8"	5/8"-11 & M14x2.0	-	-	54950	-	-	-	54980	8,500
TCAG	Cable Crir	n. 4"	1-3/16"	5/8"-11 & M14x2.0	-	-	-	-	64910	-	-	8,500



Cups with Protection Guard

Protection

When the brush is working the guard acts as a protection shield that prevents not only wire projection but also protects the user against dust and particles generated at work.





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Visibility

The guard is made of a transparent material that allows the user to see the working area.

Flexibility

These brushes are ideal for open surfaces. However, the flexibility and adaptability of the plastic material permits the access of the brush to difficult and more hidden areas. Direct contact with other materials will result in an even wear of the shield.

It also provides for a more friendly handling of the brush, protecting end users against potential pricking caused by the wire.

mod. High Speed Mini Brushes with "Protective Guard"

WIRE BRUSHES



Model	Wire	Diameter (d)	Trim Length (s)	Thread (e)	Coated Steel	Tempered — Steel——	I	Cable — Crimped—	Stainless Steel —		R.P.M. Max.
	Туре	(u)	Length (s)	(C)	.012"	.015"	.020"	12x.009"	.012"	.020"	WidX.
HSCG	Crimped	3"	7/8"	5/8"-11/M14	73900	-	-	-	73930	-	13,000
HSTG	Twisted	2-3/4"	3/4"	5/8"-11/M14	-	72960	72950	-	-	72980	15,000
HSTG	Twisted	2-3/4"	3/4"	M10x1.25/1.50	-	72961	72951	-	-	-	15,000
HCAG	Cable Crir	n. 3"	7/8"	5/8"-11/M14	-	-	-	73910	-	-	13,000



mod. DIY Brushes with "Protective Guard"



mod. JAZ Plus Wire Brushes Crimped / Knotted

WIRE BRUSHES



Model	Type of wire	Diameter (d)	Trim Length (s)	Arbor Hole (e)	JAZ PLUS wire (3x .008") + (6x .014") —	.020"	R.P.M. Max.
CTP	Crimped	6"	3/4"	Multi-Arbor*	23520	-	6,500
TOP	Crimped	4"	1-3/6"	5/8"-11	64022	-	8,500
TTP	Knotted	4"	1-1/8"	5/8"-11	-	54022	8,500

(*) Multi-Arbor Sizes: 1/2", 5/8", 3/4", 7/8", 1", 1-3/16", 2"



Easy Handling

These NEW JAZ PLUS brushes are filled with polypropylene plastic coated wires. This coating allows the brush to be easier and safer to handle with your hands by eliminating the wires from "pricking" your hands and fingers.

High Performance

JAZ PLUS brushes have a higher performance by allowing the wires to resist flexing fatigue. This allows the wires to fracture less and in smaller pieces making it safer for the operator.

Distinctive appearance

The polypropylene plastic coating can be made in several different colors giving a customized and distinct appearance comparing to traditional wire brushes.

mod. JAZ PLUS High Speed Mini Brushes Crimped / Knotted

WIRE BRUSHES



Model	Type of wire	Diameter (d)	Trim Length (s)	Arbor Hole (e)	JAZ PLUS wire (3x .008") + (6x .014") —	.020"	R.P.M. Max.
HSCP	Crimped	3"	7/8"	5/8"-11	73022	-	15,000
HSTP	Knotted	2-3/4"	3/4"	5/8"-11	-	72022	15,000
HSRP	Knotted	4-1/2"	1"	5/8"-11	-	78022	15,000



Applications

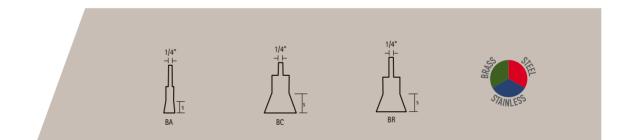
- For continuous and frequent brushing processes (ship building, metallic structures, welding, maintenance, etc.)
- Patented nut design is easier to tighten and loosen on and off angle grinders. This nut design also covers a greater surface area, which gives the nut greater strength agaist resistance, torque, and "brush back off."

mod. **B** End Brushes with 1/4" Shank

WIRE BRUSHES



Model	Overall Diam.	Trim length (s)	Temp. Steel ——	Coated – Steel ——			Cable - Crimped—	Stainless Steel ——			Cable	- Brass ——	R.P.M. Max.
	Diam.	(3)	.020"	.006"	.012"	.020"	12x.009"	.006"	.012"	.020"	12x.009"	.012"	
BA	1/2"	1"	-	13120	13100	13110	-	13140	13130	13180	-	13190	20,000
BC	3/4"	1"	-	14220	14200	14210	19200	14240	14230	14280	19230	14290	20,000
BC	1"	1"	-	14320	14300	14310	19300	14340	14330	14380	19330	14390	20,000
BR	3/4"	1"	12250	-	-	-	-	-	-	12280	-	-	20,000
BR	1"	1″	12350	-	-	-	-	-	-	12580	-	-	20,000
BR	1-1/8"	1"	12450	-	-	-	-	-	-	12480	-	-	20,000





Technical Information

- Shape and dimensions for use in difficult places to access, holes, corners, etc.
- Used on portable or fixed drills with chuck.

Applications

- Removal of edges, scale, paint, rust, rubber-metal pieces etc.
- Dies, tubes, engines, pistons, etc.

mod. CDE Small Industrial Wheel with 1/4" Shank

WIRE BRUSHES



Diameter (d)	Trim Length (s)	Face Width (a)	Coated Steel ———		Stainless Steel ———		— Brass——	R.P.M. — Max.
(u)	(3)	(a)	.008"	.012"	.008"	.012"	.012"	IVIAA.
1-1/4"	5/32"	3/8"	95210	-	-	-	-	20,000
1-1/2"	3/8"	3/8"	95320	-	-	-	95350	20,000
2"	7/16"	3/8"	95420	-	95440	-	-	15,000
2-1/2"	5/8"	5/8"	-	95500	-	95530	-	15,000
3"	7/8"	5/8"	-	95600	-	95630	95650	15,000
4"	1-3/16"	5/8"	-	95700	-	95730	-	15,000

mod. CAM Twist Knot Wheel with 1/4" Shank

WIRE BRUSHES



Diameter (d)	Trim Length (s)	Face Width (a)	Tempered Steel		Stainless Steel		R.P.M. Max.
(u)			.014"	.020"	.014"	.020"	Max.
3"	5/8"	3/8"	39068	39058	39098	39088	20,000
4"	3/4"	1/2"	31068	31059	31098	31089	20,000



Technical Information

- For use in difficult places to access.
- CDE: for drills with a chuck of 1/4".
- CAM: high speed and removal capacity.

Applications CDE & CAM

- Removal of rust, paint, scale, edges or any kind of adherence.
- CDE: inside cleaning of tubes, dies, holes, etc.
- CAM: rust, paint, scale or any kind of adherence.

mod. TB Single Stem, Single Spiral Hand Tube Brushes

WIRE BRUSHE	S							(<u> </u>		
									0		
Diameter	Brush Length	Stem Diameter	Overall Length	Tempere Steel—	ed			Stainles Steel —	is		
	Length	Diameter	Length	.003"	.004"	.005"	.006"	.003"	.004"	.005"	.006"
1/8"	1"	3/32"	6"	91000	-	-	-	91001	-	-	-
3/16"	1-1/2"	3/32"	7"	91010	-	91015	-	91011	-	91016	-
1/4"	1-1/2"	3/32"	7"	91020	-	91025	-	91021	-	91026	-
3/8"	2"	1/8"	8"	-	91040	-	91045	-	91041	-	91046
1/2"	2"	1/8"	8"	-	91060	-	91065	-	91061	-	91066
9/16"	2-1/2"	5/32"	9"	-	-	91070	-	-	-	-	-

Applications

• Hand cleaning

mod. **TB Nylon** Hand Tube Brushes

WIRE BRUSHES

Diameter	Brush Length	Stem Diameter	Overall Length	Black Nylon———			
	-		-	.005"	.010"	.012"	.014
1/4"	2"	3/32"	6-1/4"	94882	-	-	-
3/8"	2"	3/32"	6-1/4"	94883	-	-	-
1/2"	3"	1/8"	8-1/2"	-	94884	-	-
3/4"	3"	1/8"	8-1/2"	-	-	94866	-
1"	4"	5/32"	12-1/4"	-	-	-	94888
1-1/4"	4"	5/32"	13"	-	-	-	94890
2"	5"	3/16"	16-3/4"	-	-	-	94892

Applications

• Light-duty hand cleaning

mod. TB Double Stem, Double Spiral Power Tube Brushes

WIRE BRUSHES

															And the second
Diameter	Brush Length	Stem Diameter	Overall Length	Temper Steel—	red					Stainle Steel –	SS				
	Length	Diameter	Length	.003"	.004"	.005"	.006"	.008"	.0104"	.003"	.004"	.005"	.006"	.008"	.0104"
3/8"	1-1/2"	1/8"	6"	92020	-	-	-	-	-	-	-	-	-	-	-
1/2"	2"	5/32"	5"	-	92040	-	92045	-	-	-	92041	-	92046	-	-
5/8"	2"	7/32"	5"	-	-	92060	-	92065	-	-	-	92061	-	92066	-
3/4"	2-1/2"	1/4"	5-1/2"	-	-	-	92080	-	92085	-	-	-	92081	-	92086
7/8"	2-1/2"	1/4"	5-1/2"	-	-	-	92100	-	92105	-	-	-	92101	-	92106
1"	2-1/2"	1/4"	5-1/2"	-	-	-	92120	-	92125	-	-	-	92121	-	92126
1-1/4"	2-1/2"	1/4"	5-1/2"	-	-	-	92145	-	92150	-	-	-	92146	-	92171

Applications

- Made to withstand the rigors of being driven by power tools, drills, and drill presses.
- Handles are double strand heavy-gauge wire, ending in a smooth stem to chuck readily in a power tool.



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mod. **TB** Side Action Power Tube Brushes

WIRE BRUSHES

Diameter	Brush Length	Stem Diameter	Overall Length	Std Pkg		Tempered Steel ———————————————————————————————————			Stainless Steel		
		Diameter	Length	TKg	.003" .005" .008"		.008"	.003"	.005″	.008″	
1/4"	9/16"	3/32"	2-1/8"	10	93000	93010	-	93001	93011	-	
5/16"	9/16"	3/32"	2-1/8"	10	93040	93050	-	-	-	-	
3/8"	9/16"	3/32"	2-1/8"	10	93080	93090	-	93081	93091	-	
3/8"	9/16"	1/8"	2-1/8"	10	-	93260	93100	-	-	-	
7/16"	9/16"	3/32"	2-1/8"	10	93140	93150	-	-	-	-	
1/2"	9/16"	3/32"	2-1/8"	10	93200	93210	-	-	93211	-	
1/2"	9/16"	1/8"	2-1/8"	10	-	93280	93220	-	-	-	
9/16"	5/8"	1/8"	2-1/4"	10	93300	93310	-	-	-	-	
5/8"	5/8"	1/8"	2-1/4"	10	93330	93340	93350	-	93341	-	
3/4"	5/8"	1/8"	2-1/4"	10	93360	93370	93380	-	93371	-	
7/8"	5/8"	1/8"	2-1/4"	10	-	93390	-	-	93401	-	
1"	5/8"	1/8"	2-1/4"	10	-	93460	93470	-	93461	-	
1-1/16"	5/8"	1/8"	2-1/4"	10	-	93490	-	-	-	-	
1-1/8"	5/8"	1/8"	2-1/4"	10	-	93520	-	-	-	-	
1-1/4"	5/8"	1/8"	2-1/4"	10	-	93580	-	-	93581	-	

• Cleaning interior of tubes and cylinders.

Brush Length

1"

1"

1"

• Can be chucked in any power tool.

• Most effective on threaded holes.

mod. **TB** Power Burr Tube Brushes

Stem

1/8"

1/8"

1/8"

Diameter

Overall

Length

3-1/2"

3-1/2"

3-1/2"

WIRE BRUSHES

Diameter

1/4"

5/16"

3/8"

Std Tempered Stainless Pkg Steel Steel .005" .006" .008" .004" .006 .008 .004" 00 10 94005 _ _ _ 94006 _ _ _ 10 -94035 _ 10 94055 94065 94070 94056 94071

7/16"	1"	1/8"	3-1/2"	10	-	94090	-	-	-	94091	-	-
1/2"	1"	3/16"	3-1/2"	10	-	94120	-	-	-	94121	-	-
9/16"	1"	3/16"	3-1/2"	10	-	94150	-	-	-	94166	-	-
5/8"	1"	3/16"	3-1/2"	10	-	94180	-	94190	-	94181	-	-
11/16"	1"	3/16"	3-1/2"	10	-	94210	-	-	-	-	-	-
3/4"	1″	7/32"	3-1/2"	10	-	-	94245	94250	-	-	94246	-
13/16"	1"	7/32"	3-1/2"	10	-	94270	-	-	-	-	-	-
7/8"	1"	7/32"	3-1/2"	10	-	94305	-	94310	-	94306	-	-
15/16"	1"	7/32"	3-1/2"	10	-	94330	-	-	-	-	-	-
1"	1"	1/4"	3-1/2"	10	-	94360	-	94370	-	94241	-	94371
1-1/8"	1"	1/4"	3-1/2"	10	-	94390	-	94400	-	-	-	94401
1-1/4"	1"	1/4"	3-1/2"	10	-	-	-	94430	-	-	-	94431
1-1/2"	1″	1/4"	3-1/2"	10	-	-	-	94580	-	-	-	-

• Cleaning inner bores of tubing and machined cylinders.

mod. **TBH** Side Action Power Tube Brush Holders

WIRE	BRL	JSHES
------	-----	-------

WINE BROSI	ILS					
Brush Stem Diameter	Holder Diameter	Overall Length	Std Pkg	ltem No.		
3/32"	1/4"	3-1/8"	5	93600		BR45
1/8"	3/8"	3-3/8"	5	93601		STAINLESS

• Reduces the bristle trim for side action brushes, which allows for more aggressive brushing action.

• Allows brush to be driven at higher RPM.

mod. VIP Universal Hand Brush Plastic Handle

WIRE BRUSHES





Exhibitor Box Packing of 24 pieces can be turned into an exhibitor box by an easy assembly.

Total Length (I)	Usable Length (u)	Face Width	Trim Length (s)	Steel ———	Stainless Steel ———————————————————————————————————	Brass .012"
10"	5"	5/8"	1-1/8"	85100	85130	85150



Technical Information

- Special design offering:
 - Long working life.
 - Maximum removal capacity.
- High wire density for a higher brushing pressure.
- Narrow face to allow easy access into slots (1/4").

Applications

- Welding: cleaning and scale removal.
 - Removal of rust, paint and any kind of adherence.
 - Appropiate for household and DIY due to its universal and comfortable use.

mod. MS, MAL & MLB Hand Scratch Brushes

WIRE BRUSHES



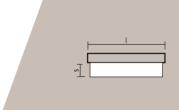
- Obtention of rustic appearance on wood.
- Removal of sand on forged pieces.
- Removal of rust, paint and any kind of Stone polishing. adherence.

Model	No. of Rows	Handle	Block Size (I)	Trim Length (s)	Tempered Steel ——		Stainless Steel ——		Brass		Black — Nylon
	NUWS	Туре	U	(5)	.006"	.012"	.006"	.012"	.006"	.012"	.012"
MS	3 x 13	Wood	11-1/4" x 1"	1"	-	80310	-	80340	-	80350	-
MS	4 x 16	Wood	10" x 1-1/8"	1-3/16"	-	80410	-	80440	-	80450	-
MS	4 x 16	Plastic	11" x 1"	1-3/16"	-	81410	-	81430	-	81450	-
MAL	3 x 19	Wood	14" x 7/8"	1-3/16"	-	82310	-	82340	-	82390	-
MLB	3 x 7	Wood	7-1/2" x 1/2"	1/2"	84170	-	84190	-	84180	-	84210
MLB	3 x 7	Plastic	7-1/2" x 1/2"	1/2"	84171	-	84191	-	84181	-	84211

mod. MF Chipper Hammer Refill Wood Handle

WIRE BRUSHES





No. of Rows	Brush Length	Block Size (l)	Trim Length (s)	Tempered Steel .012"
3 x 15	4-1/2"	4-5/8" x 7/8"	1-1/8"	82130

mod. MF Acid/Flux Brushes Horsehair with Tin Handle

WIRE BRUSHES



Width	Overall Length (I)	Trim Length (s)	Model No.
1/4"	5-3/4"	3/4"	86001
3/8"	5-3/4"	3/4"	86002
1/2"	5-3/4"	3/4"	86003

mod. **BDER Wheel DIY** with 1/4" Shank

WIRE BRUSHES



7	Model	Diameter	Coated Steel .008″	.012"
	BDER	2"	91411	91401
	BDER	2-1/2"	91511	91501
	BDER	3"	91611	91601
	BDER	4"	91711	91701



WIRE BRUSHES



Model	Diameter	Coated Steel	
		.008"	.012"
BTE	2"	92411	92401
BTE	3"	92611	92601
BTE	3-1/4"	92911	92901



Applications BDER & BTE

- Removal of rust, paint and any kind of adherence in gates, balconies, cars, etc.
- Cleaning of threaded holes.



WIRE BRUSHES





WIRE BRUSHES



Model	Diameter	Coated Steel ———		
		.008"	.012"	.020" Knotted
BDOR	3"	90611	90601	-
BDOR	4"	90711	90701	-
BDOR	5"	90811	90801	-
BDOR	6"	90911	90901	-
CAE	3"	-	-	93651

mod. **BBC Cup DIY** with Shank 1/4" Shank

WIRE BRUSHES





		Steel ———	
		.008"	.012"
BBC	1"	94111	94101



Applications BDOR, BBC & CAE

- Removal of rust, paint and any kind of adherence in gates, balconies, cars, etc.
- Preparing surfaces for painting.
- Polishing of metallic pieces.
- Working on wooden rustic pieces.

CAE: Removal of rust, paint, forge, scale and adherences in general.

mod. SURT High Speed SURT 0960

WIRE BRUSHES



Order Code	Content Qty.	Artícle	Thread	Box Dimensions
SURT 0960	6	73000	5/8"-11 & M14	3" x 11-1/2" x 12-1/2"
	3	72050		
	2	74000		
	1	74050		

mod. CNA Abrasive Nylon CNA 9430 & CNA 9530

WIRE BRUSHES



Order Code	Content Qty.	Artícle	Thread	Box Dimensions	
CNA 9430	6	96660	Red	11" x 7-1/2" x 3-1/8"	
	6	96760			
	4	97460			
	6	97660			
	4	94360			
	2	97760			
CNA 9530	6	96670	Blue	11" x 7-1/2" x 3-1/8"	
	6	96760			
	4	97470			
	697670494370				
		94370			
	2	97770			

mod. SURT Do It Yourself SURT 0890 & 0891

WIRE BRUSHES



Order Code	Content Qty.	Artícle	Description	Box Dimensions
SURT 0890	6	91400	3" Coarse Wheel	3-1/4" x 8" x 11"
	6	91700	4" Coarse Wheel	
	6	92400	2" Coarse Cup	
	6	92600	3" Coarse Cup	
SURT 0891	6	91600	3" Coarse Wheel	3-1/4" x 8" x 11"
	2	91610	3" Fine Wheel	
	3	91400	2" Coarse Wheel	
	6	92600	3" Coarse Cup	
	2	92610	3" Fine Cup	
	5	94100	1" End Brush	

mod. EXP Basic Exhibitor EXP 9640

WIRE BRUSHES

Code	Content Qty.	Artícle	Box Dimensions
EXP 9640	3	72050	32-3/4" x 21-1/4" x 12-1/4"
3	3	73000	
	3	73010	
	3	41050	
	3	41080	
	3	78050	
	3	78080	
	3	74050	
	3	74000	
	3	54052	
	3	64050	
	10	12350	
	10	14310	
	24	85100	
	24	85130	



The above product selections are only a suggested assortment. Products are sold separately.

mod. **EXP** Guard Exhibitor EXP 4060

WIRE BRUSHES

Code	Content Qty.	Artícle	Box Dimensions
EXP 4060	12	91691	32-3/4" x 21-1/4" x 12-1/4"
	12	92691	
	6	73900	
	6	72950	
	6	73910	
	6	72960	
	3	64910	
	3	64900	
	3	54950	
	1	54980	



The above product selections are only a suggested assortment. Products are sold separately.

mod. **EXP General Exhibitor** EXP 4250

WIRE BRUSHES

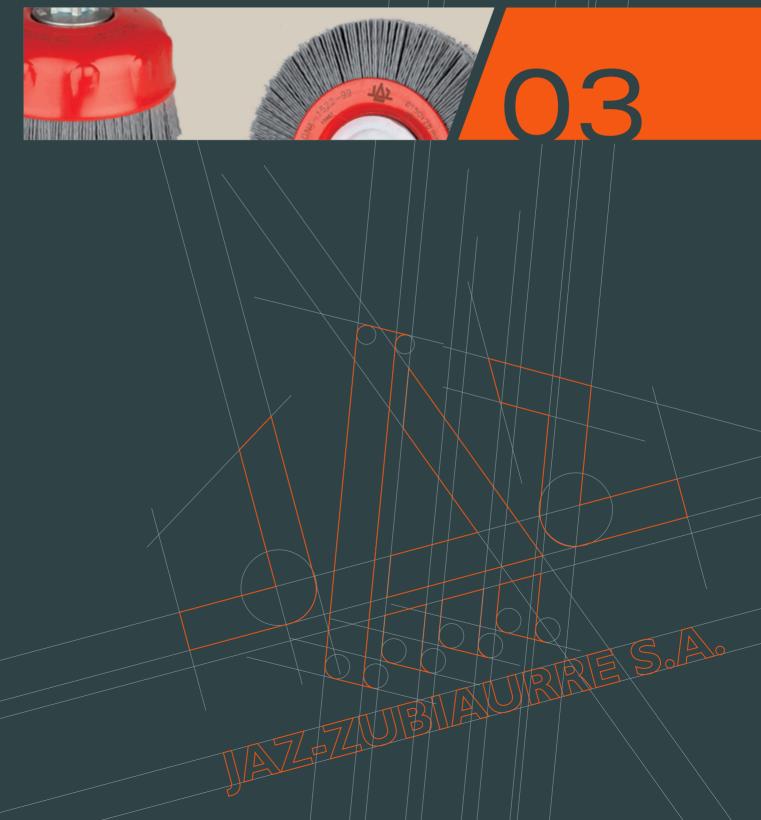
Code	Content Qty.	Artícle	Box Dimensions
EXP 4250	4	72050	82" x 24-1/2" x 17"
	4	73000	
	4	73010	
	4	72080	
	4	72950	
	4	73900	
4 73910			
	4	72980	
	6 41050		
	6	78050	
	6	41080	
	6	78080	
	1	56052	
	1	66052	
	1	54052	
	1	64050	
	24	85100	
	24	85130	
	12	82310	
	12	82340	

The above product selections are only a suggested assortment. Products are sold separately.





Nylon Brushes



mod. DNA Industrial Line Abrasive Nylon

ABRASIVES



Model	Diameter	Face Width in.	Trim Length in.	Arbor Hole in.	GRIT 120 Coarse	180 Medium	320 Fine	R.P.M. Max.
DNA	6"	1/2"	1-1/16"	Multi-Arbor (1/2" thru 2")	23371	23370	23372	6,500
DNA	6"	1-1/8"	1-1/16"	Multi-Arbor (1/2" thru 2")	23771	23770	23772	6,500
DNA	7"	5/8"	1-9/16"	Multi-Arbor (1/2" thru 2")	24371	24370	24372	6,500
DNA	7"	1-1/8"	1-9/16"	Multi-Arbor (1/2" thru 2")	24771	24770	24772	6,500
DNA	8"	5/8"	1-9/16"	Multi-Arbor (1/2" thru 2")	25371	25370	25372	4,500
DNA	8"	1-1/8"	1-9/16"	Multi-Arbor (1/2" thru 2")	25771	25770	25772	4,500
TNA	4-1/2"	-	1-3/8"	5/8"-11	68052	68072	68082	8,500
BNA	1"	-	1-3/8"	1/4" Shank	-	11370	-	20,000
LNA	3/4"	-	-	1/8" NPT	-	98070	-	-
LNA	1"	-	-	1/4" NPT	-	98170	-	-
LNA	1-9/16"	-	-	1/4" NPT	-	98370	-	-
LNA	2"	-	-	1/4" NPT	-	98570	-	-



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 allow 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, the MAX R.P.M. must never be exceeded.

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.
- Deburring of edges on aluminum extrusions, fabricated metals, and powdered metals.

mod. CNA DIY Line Abrasive Nylon

ABRASIVES



Туре	Diameter in.	Filament 80 Grit (red)	150 Grit (blue)	R.P.M. Max.
Wheel	3"	96661	96671	4,500
Wheel	4"	96761	96771	4,500
Сир	2"	97461	97471	4,500
Cup	3"	97661	97671	4,500
End Brush	1"	94161	94171	4,500
Flap	4"	97761	97771	4,500



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

Applications

Nylon brushes do not scratch and therefore they are appropriate for cleaning and polishing of:

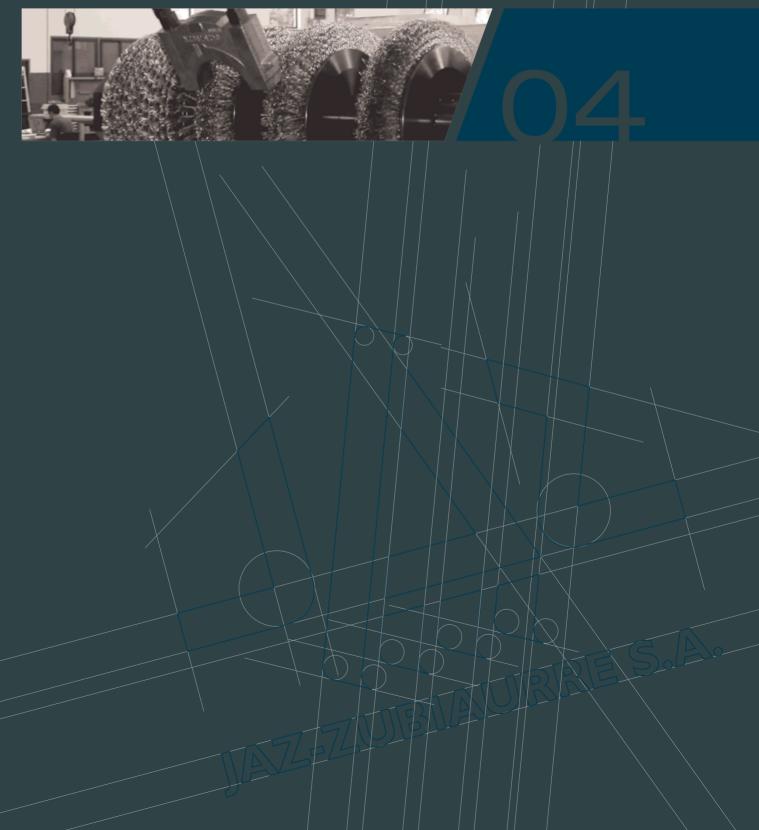
- Any kind of wood (fine or rustic).
- Metallic surfaces such as automobile bodies.
- Tile, stone and concrete.
- Plastic materials.
- Stainless steel and aluminium.

Operating Recommended Speed

- Optimum performance is obtained at the recommended working speed of 2,500 R.P.M.
- Speeds above the recommended ones may smear the workpiece due to heat build-up.



Engineered Brushes



ENGINEERED BRUSHES



JAZ's Enginnering Department offers different brush solutions for many industrial applications. Over the past 80 years, JAZ has been a preferred supplier to many customers in the industrial market that demand engineered solutions for increased productivity, while lowering their cost.

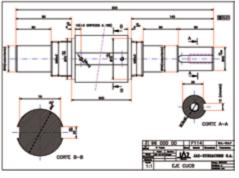
The manufacturing of engineered brushes requires the direct cooperation between the manufacturer and the end user. At JAZ, we have years of experience and the technical staff to offer the best advice and ability to provide the most cost effective solution. We offer a full service solution, which includes the definition of the shape and materials to be used, manufacturing of necessary support tooling (axis or engine), end user training and automation of the brushing process.

The knowledge of the different materials and wire fills is very important for the manufacturing of the right brush for each application. At JAZ, we have high performance steel wire fills between .003" and .032", as well as stainless steel, brass, abrasive nylon, and german silver wires. We also offer high performance cable-crimped wire in steel and stainless steel.

We can provide our customers with brushes equipped with a variety of arbor hole sizes and configurations: plain, with double keyway, etc.

Available wire type.		
WIRE QUALITY	WIRE TYPE	DIMENSIONS (in.)
Carbon steel wires	Grey steel Brass coated steel Tempered steel High performance tempered steel Brass coated cable crimped Galvanised high performance steel	.005"006"008"010"012"016"020"032" Cables (6x.009")-(12x.009")-(6x.014" + 3x.008")
Stainless steel wires	One filament AISI 304 One fialment AISI 316 Stainless steel cable crimped	.006"008"012"016"020" Cable (7x.014")
Special material wires	Brass German silver Bessemer	.003"012"016"
Abrasive nylon	Poliamida 6 with abrasive grain AO Poliamida 6,12 with abrasive grain SIC	.003"005"012"016" Grain Sizes: 80 - 120 - 150 - 180 -320





Available wire type:

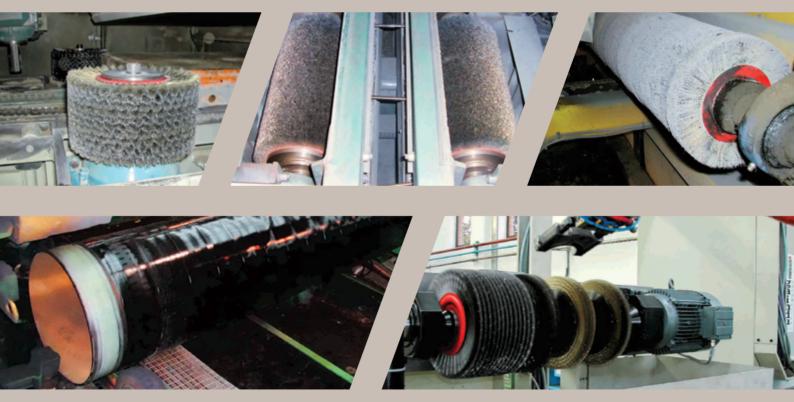
Areas

These are some of the professional areas where JAZ is working:

- Construction
- Tube Deburring
- Rubber-Metal Injection
- Bottle Treatment
- Continuous saw cleaning
- Stone Treatment
- Wood Texturization

- Food Industry
- Turning Tools
- Wire Rod
- Recaping
- Mold Cleaning
- Automated piece deburring
- Pipe Coating Cut-Back

- / Shuttering board cleaning brushes.
- / Tube cleaning brushes: Deburring, surface treatments...
- / Automatic cleaning brushes by robot.



Feel free to contact our Engineering Department for your brushing requirements. We have a wide range of engineered brushes for industrial applications.

ENGINEERED BRUSHES

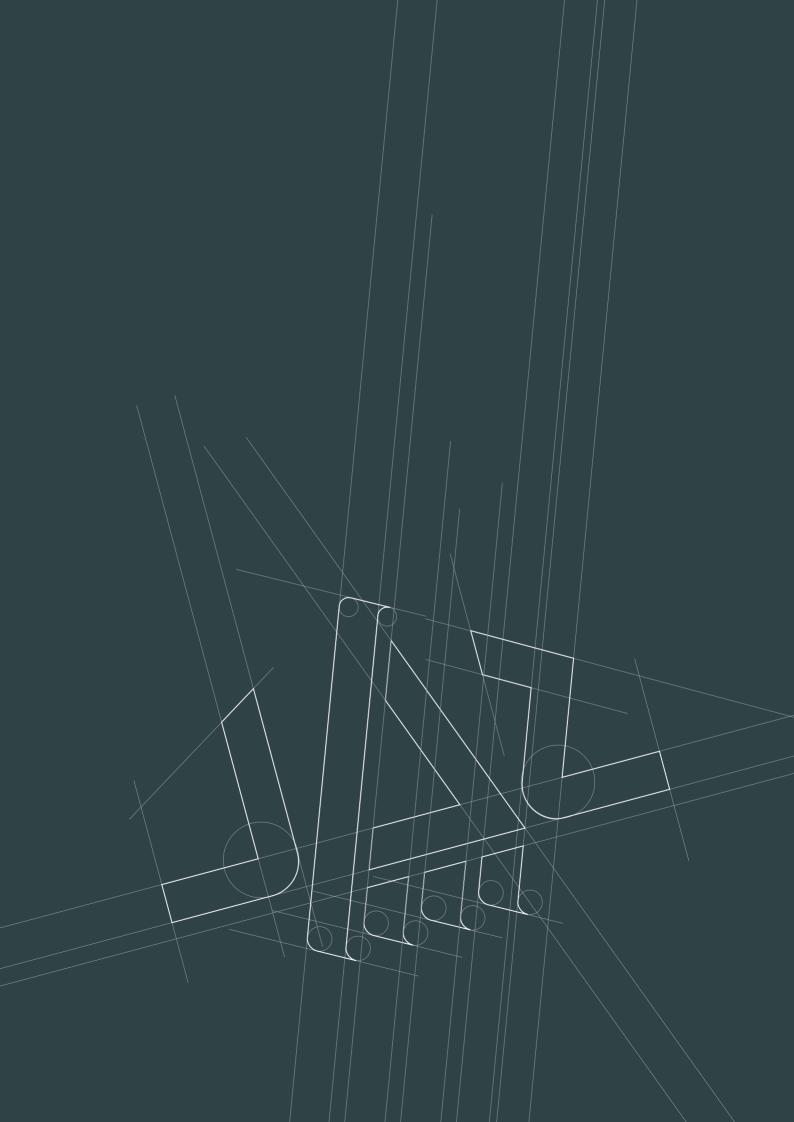


/ Automatic deburring for rubber-metal pieces

- / Cleaning Brushes for different shape and geometry mechanized pieces
- / Brushing process automatization
- / Deburring for foundry pieces



Feel free to contact our Enginnering Department for your brushing requirements. We have a wide range of engineered brushes for industrial applications.



Product Liability Insurance Policy

PRODUCT LIABILITY INSURANCE POLICY

Insurance Policy: 0BN8650413

Holder: JAZ USA, INC. 6 Carol Drive Lincoln, RI 02865

Coverage: \$2,000,000

Quality Assurance System

JAZ-ZUBIAURRE S.A. has been certified by Bureau Veritas through its Certificated No. 7000689 which proves our accomplishment with the requirements of the Standard ISO 9001: 2000.





Innovation System



At JAZ, we work methodically on our knowledge development and the continuous improvement of our products and processes. In the last years we have registered several invention patents and achieved awards for technological innovation.



www.jazusa.com

Visit our website to access informative videos about our firm, products and applications and to find out more about our latest developments.



User's Handbook

Included in each packed product of our industrial range, this useful handbook provides a complete technical and commercial information for the end user.

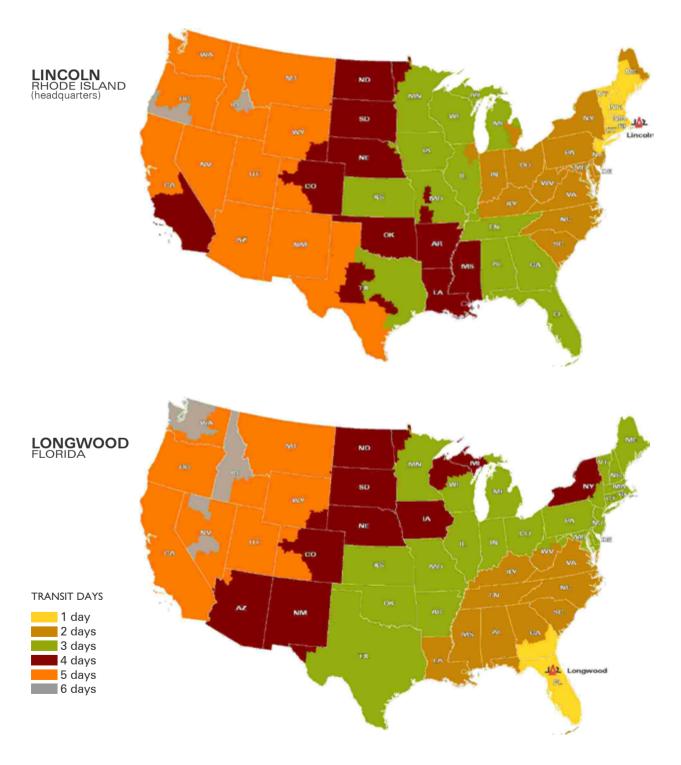


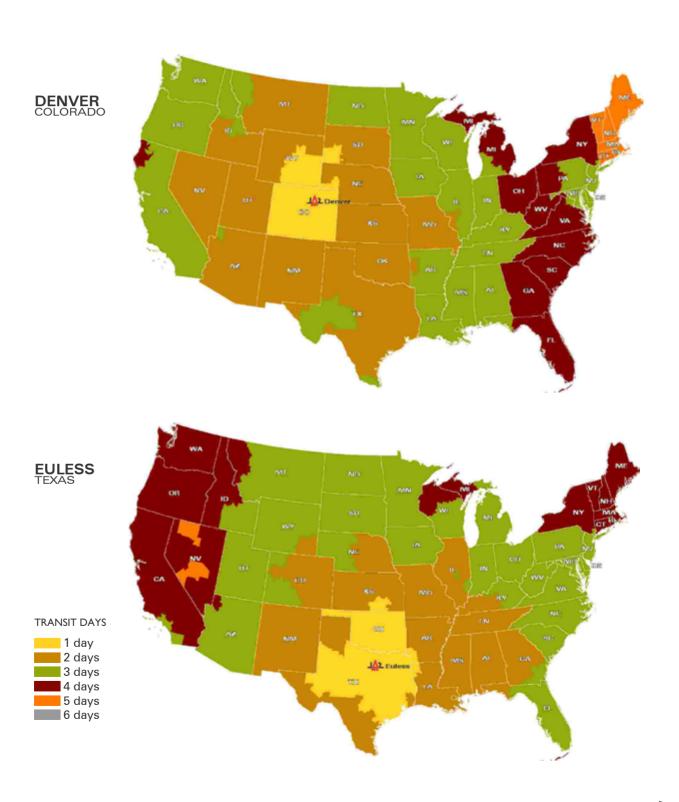


JAZ USA Locations TRANSIT MAPS

Ground Transit Times (Business days)

JAZ USA's corporate headquarters and main distribution facility is located in Lincoln, RI. In addition, JAZ has three regional warehouses in strategic locations across the US for extremely fast support and service for our customers. These full color US maps are a general representation of ground transit times from our various distribution points.





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Notes



Order Form

Acct. No.	 To be processed through your authorized JAZ distributor.		
Phone	Phone	(877) 529-8721	
_	Fax	(877) 529-3291	
Fax	 E-mail	sales@jazusa.com	
P.O. Number			
Authorized by			
Bill to Address	Ship to A	ddress	

Part #	Description	Quantity	Unit Price





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