



Electrolux Bitola

New for 2006

Innovative Solutions of the Brush Specialist

Brsni cetki za metal i cistenje na površini

Listed below are some new additions to our 2006 catalogue. These brushes you will find updated on the specified catalogue pages.

Thanks for your interest in our products.

Your Lessmann-Team



Two Row Knot Cup Brushes of diameter 100–150 mm for special heavy duty use (Page 14)



Roller Brush for deburring machines with extended performance (Page 20)



Single Segment Brush for deburring work and machining centers with both abrasive nylon, stainless steel and steel wire (Page 22)



Plastic Adapter + Double Key Way now for all Standard Wheel Brushes, also with tube 80–100 (Page 18)



Multiple Row Knot Wheel Brush and Wheel Brushes of diameter 250–300 mm for industrial use (Page 12)



Professional Hand Brush with ergonomic Two-Component-Handle (Page 37)



Microabrasive Interior Brushes for precise deburring of holes (Page 48)

Ovo je crtež e sopstvenost na Electrolux-Bitola. Bez negovo pismeno odobruvanje isti ot nesmee da se prepisuva , umozuva niti kopira bez soglasnost od Electroluks vo sprofitno se snosat posledici vo smislana clenovite 163 i 164 od krivicniot zakon R.M. (povreda na avtorsko pravo)

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Adresa: ул. Браќа Минѓови бр.18, Стара Царшија Битола
Adresa: ул. Ајдосиол Гусларов 1-а Г.Т.Ц.Бунјаковец Скопје
Тел/Факс: 047/203-900; 203-330; 070/237-108
Тел/Факс: 02/329 8 130; 070/237 198

www.elektroluks.com.mk , electrolux@mt.net.mk





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Guidance

The following catalogue provides you with information about us as a company, our products and their uses. The catalogue is set out for easy and rapid reference. In the first section you will learn about how we see ourselves and the potential advantages of your dealing with . Following on you will find useful information regarding materials used, testing, technology, safety and sales promotion.

Our products are presented in groups relating to their technical data, advise regarding their composition and the possible application in use. Each of the 8 most important groups of products are shown on this page. These are shown in different colour codes in order that they may be easily found in the catalogue.

The full spectrum and diversity of our specially manufactured items is shown on pages 54 to 57. Please refer to these pages if you cannot find the specific article that you are looking for in the main section of the catalogue.

Please let us know if you have any suggestions about how we might further improve our catalogue.

In the course of further technical developments, the right is reserved to change the construction and appearance of the brushes without prior notice. Indications of size are approximate and without obligation or recourse to third parties.

Bold printed item numbers are always on stock. The other items as well as special brushes will be produced for you with a short delivery time. Please also see our terms on page 58.

 Information about Marketing

 Technology, Material and Safety

 Knotted Brushes

 Knot- and Conical Brushes

 Wheel Brushes

 Shank Brushes

 Sales Presentation

 Hand Brushes

 Brooms and Scrubs

 Interior Brushes

 Special Brushes

 Art. No./Conditions



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Many considerations,

different customers, one aim.

For Lessmann consideration and thorough thinking means more than just developing brushes. For our customers we are a reliable partner who is looking after their interests by helping them to find the right brush solution. We co-operate with distributors, wholesalers and retailers as well as industrial consumers in more than 100 countries throughout the world. Every continent in the world has brushes delivered from here in Oettingen.

We offer support to our customers by way of advice and sales promotion material. A video on brush applications is available. Training for technical salesmen about our brushes is available in order to help give more specific advice to end users.

In co-operation with various industries we develop brushes for very new and specific purposes. Lessmann are well known for their precise solutions and short development times. These are some of the reasons why Lessmann is one of the most renowned companies for technical brushes.



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Perfect Service for Perfect Presentation

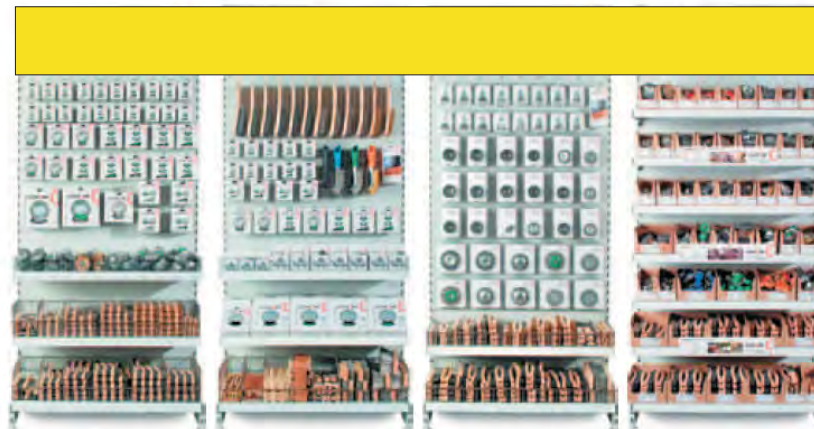
Every day the right brush...

Electrolux knows what is important for traders: short delivery times, an advice service as necessary, no complaints if possible – the ideal situation for articles, which are the most profitable.

Electrolux fully meets these requirements by high quality products, trouble free logistics, committed service, and the ability to supply a complete range of products and attractive packaging, as well as displays.

The brand Electrolux signifies quality and gives clearly structured information.

Please have a look at our home page in the internet! On www.lessmann.com you will find our latest catalogue as well as leaflets to download. Further technical advice as well as operating instructions are available.



State of the Art Tool Bars

Self-service Tool Bar Displays

Professionalism, service, quality... The Electrolux Display Units will make a good impression on your customers. They are not only good for your image but will also have a positive effect on promoting and increasing your brush sales. The comprehensive and at the same time clear presentation makes the customer's choice much easier. Take advantage of our experience and use this idea that will lead to successful and increased sales. Please do not hesitate to contact us and we will arrange your individual programme.

Display Boxes

The handy boxes for the fast sellers. They can be put on tool shelves or on the counter.

Further presentation and packaging examples as well as sales promotions you will find on page 16.



» "Today abroad calling a client, tomorrow here in our factory, where we develop, test and produce: That's what I like – bringing things together. The high demand of our market and our superb service!"

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Brush filling materials

Important reasons for choosing the right filling material



Fibre

This is a heat resistant plant fibre. It is especially suitable for cleaning work. Fibre is slightly abrasive, i.e. it can be used for smooth grinding, above all for working on wooden surfaces.

Horse Hair

Used for light cleaning and dusting work.

Beech Wood

One of the advantages of wooden handles compared to plastic handles is the ability to absorb fat, oil and moisture. The waste disposal of beech wood is not a problem. The beech for our wooden handles originates only from local, re-timbered forests. Proof has been furnished that the requirements of the Pan European Forest Certification (PEFC) procedure are fulfilled.



3 different kinds of grit in silicon carbide

Steel Wire

In co-operation with the wire producers we develop wires that are specially made for our products. Normally they are alloyed with manganese in order to increase their toughness. The wires will have a higher reverse bending strength to prevent premature breakage.

The most important attribute of steel wires is their tensile strength. The standard wires withstand 1,800 – 2,000 N/mm². High tensile wires, e.g. those used for knotted brushes have a tensile strength of 2,300 – 2,500 N/mm².

Brass and Bronze Wire

Used for working on nonferrous metals, as they are softer than steel wires. They are also used when working with bleach or when sparkless brushes are needed.

Synthetic Filaments

These are abrasive resistant and resistant against diluted acids and bleaches, but will only have limited heat resistance. Most often used for cleaning, and sometimes for deburring.

Abrasive Filaments

These are polyamide filaments containing abrasive grits. This modern material is ideal for deburring work, fine surface finishing of plastic and metal parts, as well as grinding, cleaning, polishing, and structuring of surfaces. With their flexible surface, brushes with abrasive nylon align to the different shapes of working pieces. Abrasive nylon bristles also have grinding effects on the side, which makes them even more flexible to application possibilities. Different grits are available (from grit 60 to grit 1000), and you can choose between aluminiumoxyd and siliconcarbide. As a material for the brush body we recommend PA 6.12 for working in wet places and PA6 for working in dry places.

Material Tests

These are the first steps of our quality management: All deliveries of raw material are tested according to and above specification details. All wires are tested for their tensile strength and for their reverse bending strength by a fatigue measuring process.

Beside the quality of the material it is important that its attributes are as suitable as possible for their intended use.

Following please see the most important materials used and their attributes:

Stainless Steel Wire

This wire has to be used when working on stainless steel material. The most common qualities are the wires with material number 1.4301 and 1.4310 (AISI 304 and 301). They are resistant against corrosion and high temperatures. If a brush is required that has to be extremely resistant against acid and bleach, we use the wire 1.4401 (AISI 316). This particular wire is also non-magnetic.

Brassed Steel Wire

Used as single or stranded wire (corded wire) with a very high tensile strength. The brassed surface protects against corrosion.

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"Simply the Best" by testing

Innovation and quality management

Our own production of nearly all components of our standard programme of brushes, of more than 10,000 products, and our own development of special articles enables us to have an excellent knowledge in both manufacturing quality and safety testing.

Creating Innovation, Exceeding Safety Standards, Keeping Top Quality

With this motivation we make complex development and product tests as an essential part of our work.

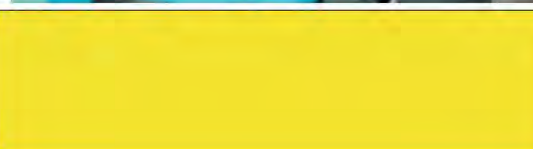
Imbalance Test

An imbalance of machine driven brushes is not pleasant and is dangerous for the health of persons working at the machine.

Although it is not necessary under the DIN or the EN Norms, we produce our brushes according to our own standards for minimum imbalance. By doing so our customers take advantage of smooth running fatigue reducing brushes. Our employees in production ensure that these high quality aspects are maintained.

Safety Tests:

According to European safety norms all brushes have to withstand 1.5 times of the mentioned maximum RPM. Naturally when developing a brush, we test every brush type for this safety aspect. Only if all tests are satisfactory, can the article be produced. During production many samples are taken of the brushes in order to check the required safety speed. Should a model or a raw material



be changed we begin the tests again. For this very reason every customer can rely on a high quality and safe tool.

brushes. Even if in comparison tests with competitor brushes such testing has shown and proved the high quality of our products:

Lifetime and Power

For the measurement of the lifetime and power of technical brushes there are neither norms nor standard procedures. After long developing processes and many tests we have found testing methods that simulate testing in real working conditions. On self built machines we are able to test the abrasion and thus the lifetime and power of machine driven brushes. Beside the quality aspect these tests are helpful in optimising materials used, as well as component parts and the construction of

We keep on testing to guarantee customer satisfaction.

Quality is our feature!



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Recommendations for Safe Brush Use

Safety information and technical introduction

We guarantee the best quality and long lifetime for our products. Our brushes are manufactured according to the existing standard DIN 68 347 part 1 and 2 and EN 1083. All the relevant machine driven brushes are checked for occupational safety using a centrifugal force test.

Safety Information

All machine driven brushes require as with other rotary tools, that the required safety precautions are kept:

Safety for Your Body

All operators and other personnel in areas where rotary brushes are being used must wear safety goggles or face shields and protective clothing.

For your own safety:
Wear Eye Protection!



Brush Check

The brushes should be checked for damage before using. A correct mounting is imperative.

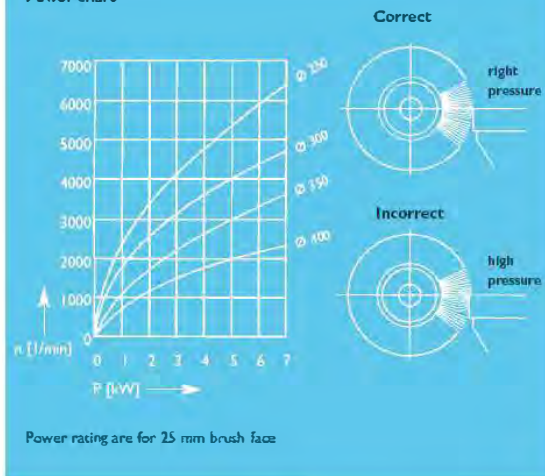
Peripheral Speed

The max. RPM indicated in the catalogue are safety figures by which the brushes can be used without danger. Please do not exceed these figures under any circumstances! In most cases a lower RPM is sufficient to gain an optimal result.

Correct Pressure

The schedule shows the necessary motor drive power for different brush diameters. The brushes need only a light pressure while brushing because only the wire points are effective (please look at the schedule) A higher pressure

Power chart



Power rating are for 25 mm brush face

minimum boresize for wheel brushes according to DIN EN 1083

diameter of the brush in mm	minimum diameter of bore in mm
50	4.6
75	6.5
100	10
150	13
200	16
250	20
300	20
350	32



does not improve the brushing effect. In fact the brush lifetime is reduced and greater power is needed. The indicated curves inform you about the expected power. The power ratings refer to a brush with 25 mm width.

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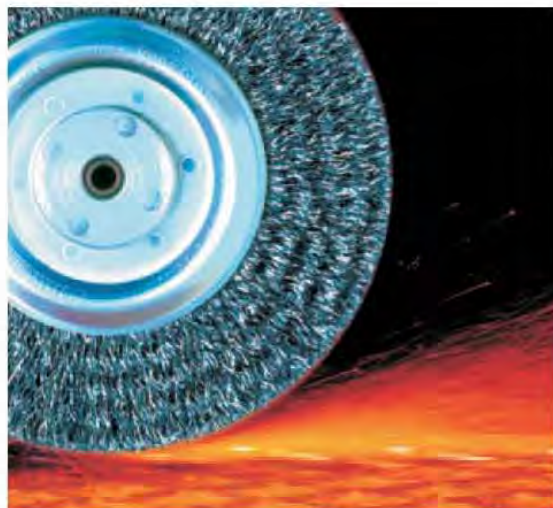
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Producing Quality – brushing the correct way

Important hints for the use of brushes



Optimise Brush Results

The brush diameter and filling length are most important for the perfect brushing result. It is therefore very easy to eliminate almost all bad brushing results:

Brushing effect too weak:

- Increase the peripheral speed by increasing the brush diameter or the operating speed, but never exceed the maximum RPM rating.
- Use a brush with shorter trim length.
- Use a brush with larger wire diameter.

Brushing effect too powerful:

- Reduce the peripheral speed by reducing the brush diameter or the operating speed.
- Use a brush with longer trim length.
- Use a brush with smaller wire diameter.

Brush transfers burr:

- Use a brush with shorter trim length.
- Examine brush and work piece position.
- Use a brush with wider face.
- Use a brush with thicker wire diameter.

Peripheral Speed v in m/sec.

n [1/min] (RPM)	Brush diameter d in mm/inches					
	50 2"	80 3"	100 4"	125 5"	150 6"	200 8"
1,000		4.2	5.2	6.5	7.9	10.5
1,500	3.9	6.3	7.9	9.8	11.8	15.7
2,000	5.2	8.4	10.5	13.1	15.7	20.9
2,500	6.5	10.5	13.1	16.4	19.6	26.2
3,000	7.9	12.6	15.7	19.6	23.6	31.4
3,500	9.2	14.7	18.3	22.9	27.5	36.7
4,000	10.5	16.8	20.9	26.2	31.4	41.9
5,000	13.1	20.9	26.2	32.7	39.3	52.4
6,000	15.7	25.1	31.4	39.3	47.1	62.8
8,000	20.9	33.5	41.9	52.4	62.8	83.8
10,000	26.2	41.9	52.4	65.4	78.5	
12,500	32.7	52.4	65.4	81.8		
15,000	39.3	62.8	78.5			
20,000	52.4	83.8				
25,000	65.4					

$$v = \frac{\text{Brush diameter (d)} \times \pi \times \text{Peripheral Speed (n)}}{1,000 \times 60}$$

Conversion mm in Inches

Brush diameter		Wire diameter	
Millimeter	Inches	Millimeter	Inches
25	1"	0.08	0.0031
50	2"	0.10	0.0039
75	3"	0.12	0.0047
100	4"	0.15	0.0059
125	5"	0.20	0.0079
150	6"	0.25	0.0098
180	7"	0.30	0.0118
200	8"	0.35	0.0138
250	10"	0.40	0.0157
300	12"	0.50	0.0197
350	14"	0.80	0.0315

Conversion m/sec. in ft./min.

1 m/sec. = 197 ft./min.

1,000 ft./min. = 5.08 m/sec.

Recommended Peripheral Speed for Brushing Application

Application	Peripheral Speed in m/s						
	15	20	25	30	35	40	45
Removing Burrs			25	35			
Cleaning Welds					35	45	
Removing Scale					35	45	
Polishing				30	40		
Working on Plastic	15	20					

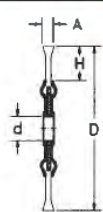
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Knot Wheel Brushes



Z = number of knots R = number of rows



Knot Wheel Brushes

D	A	d	H	Z	R	RPM	Pack.	steel 0.35/0.014"	steel 0.50/0.020"	steel 0.80/0.031"	stainl. 0.35/0.014"	stainl. 0.50/0.020"
mm/inch	mm/inch	mm/inch				max.		Art. No.	Art. No.	Art. No.	Art. No.	Art. No.
75 / 3	10 / 3/8	13 / 1/2	15	18	1	20,000	1	470.111	470.211			
100 / 4	12 / 1/2	M 14 x 2.0	22	18	1	12,500	1	471.117	471.217 *			471.817
115 / 4 1/2	14 / 1/2	M 14 x 2.0	24	20	1	12,500	1	472.111 *	472.211 *		472.711	472.811 *
115 / 4 1/2	14 / 1/2	M 14 x 2.0	24	20	1	12,500	1	472.117	472.217 *		472.717	472.817
125 / 5	14 / 1/2	M 14 x 2.0	29	20	1	12,500	1	473.111	473.211 *			473.811
125 / 5	14 / 1/2	M 14 x 2.0	29	20	1	12,500	1	473.117	473.217			473.817
150 / 6	14 / 1/2	M 14 x 2.0	32	26	1	9,000	1	474.111	474.211	474.311		474.811
150 / 6	14 / 1/2	M 14 x 2.0	32	26	1	9,000	1	474.117	474.217	474.317		474.817
178 / 7	14 / 1/2	M 14 x 2.0	38	32	1	9,000	1	475.111	475.211 *	475.311		475.811 *
178 / 7	14 / 1/2	M 14 x 2.0	38	32	1	9,000	1	475.117	475.217	475.317		475.817
200 / 8	14 / 1/2	M 14 x 2.0	41	36	1	9,000	1	476.111	476.211	476.311		476.811
200 / 8	14 / 1/2	50.8 / 2	41	36	1	9,000	1		476.210.51			
200 / 8	25 / 1	50.8 / 2	41	36	2	9,000	1		476.220.51			
200 / 8	35 / 1 1/2	50.8 / 2	41	36	3	9,000	1		476.231			
250 / 10	18 / 3/4	50.8 / 2**	42	52	1	4,500	1		477.210.75	477.310.75		
205 / 10	30 / 1 1/4	50.8 / 2**	42	52	2	4,500	1		477.220.75	477.320.75		
300 / 12	18 / 3/4	50.8 / 2**	56	58	1	3,600	1		478.210.75	478.310.75		
300 / 12	30 / 1 1/4	50.8 / 2**	56	58	2	3,600	1		478.220.75	478.320.75		

Thread 5/8 x 11 NC on request / * packed 25 pieces per carton / ** with double key way

Knot Wheel Brushes

Knot wheel brushes for grinders, angle grinders and stationary machines used in the preparation and reworking of bolt fillet and butt welds. They remove scale, rust, paint, slag, rubber residue and can be used for deburring.

All knots on our standard twisted wire wheel brushes are left hand twisted in order to minimize the undoing of the knots should the

brush be used incorrectly.

On request we can supply right hand twist brushes.

We recommend that the brush should be turned during use in order to maintain sharpened wire ends.

Electrolux's knotted brushes are filled with a special high tensile strength steel wire in order to meet the exacting requirements during use.

Stainless Steel Brushes

Electrolux brushes with stainless steel have green side plates. We use wire with material number 1.4310. Material number 1.4401 can be used on request.

For sales promotion all standard knot wheel brushes are packed individually for self display. They are also available bulk packed.

Knot Wheel Brushes with multiple Rows

The brushes with one row can be produced as multi row brushes. They can also be made with other wire diameters and other bores. These brushes are made to order.

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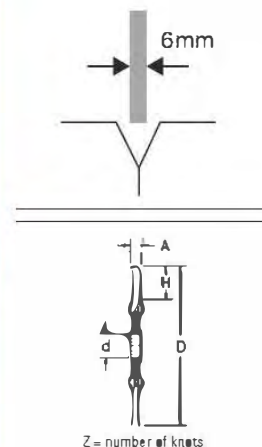
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Pipeline-Brushes



Pipeline-Brushes, Steel 0.50/0.020"

D mm/inch	A mm/inch	H	Z	RPM max.	Pack.* 5/10	Bo. 22.2 / 7/8" Art. No.	M 14 x 2.0 Art. No.	W 5/8 x 11 NC Art. No.
100 / 4	6 / 1/4	19	28	20,000	5		471.207.28	471.208.28
115 / 4 1/2	6 / 1/4	22	32	15,000	5/10	472.201.32	472.207.32	472.208.32
115 / 4 1/2	6 / 1/4	22	39	15,000	10	472.201.39		
125 / 5	6 / 1/4	18	40	12,500	5/10	473.201.40	473.207.40	473.208.40
150 / 6	6 / 1/4	30	48	12,500	5/10	474.201.48	474.207.48	474.208.48
178 / 7	6 / 1/4	36	48	12,500	5/10	475.201.48	475.207.48	475.208.48
178 / 7	6 / 1/4	30	56	12,500	5/10	475.201.56	475.207.56	475.208.56
178 / 7	6 / 1/4	30	76	12,500	5/10	475.201.76	475.207.76	475.208.76

Pipeline-Brushes, Stainless 0.50/0.020"

D mm/inch	A mm/inch	H	Z	RPM max.	Pack.* 5/10	Bo. 22.2 / 7/8" Art. No.	M 14 x 2.0 Art. No.	W 5/8 x 11 NC Art. No.
100 / 4	6 / 1/4	19	28	20,000	5		471.807.28	471.808.28
115 / 4 1/2	6 / 1/4	22	32	15,000	5/10	472.801.32	472.807.32	472.808.32
115 / 4 1/2	6 / 1/4	22	39	15,000	10	472.801.39		
125 / 5	6 / 1/4	18	40	12,500	5/10	473.801.40	473.807.40	473.808.40
150 / 6	6 / 1/4	30	48	12,500	5/10	474.801.48	474.807.48	474.808.48
178 / 7	6 / 1/4	36	48	12,500	5/10	475.801.48	475.807.48	475.808.48
178 / 7	6 / 1/4	30	56	12,500	5/10	475.801.56	475.807.56	475.808.56
178 / 7	6 / 1/4	30	76	12,500	5/10	475.801.76	475.807.76	475.808.76

* Brushes with thread = packed 5 pieces per carton, brushes with bore = packed 10 pieces per carton

Pipeline-Brushes

-Pipeline brushes are specially developed for professional use on U- and V-welds in the pipeline industry.

The remarkable features of the high quality Pipeline-brushes are the long lifetime and the quietness of running. They are especially narrow and therefore they are the perfect tool for cleaning all welds at tube connections.

Stainless Steel Brushes

-brushes with stainless steel wire have green side plates. We use wire with material number 1.4310. Material number 1.4401 can be used on request.



Ovo je sveska iz kataloga Elektroluks. Bez negovno pismeno odobruvanje istiot nesmee da se prepisuje, umnozava niti kopira bez soglasnost od Elektroluks vo sprotivno se snosat posledici vo smislana clenovite 163 i 164 od kriviciot zakon R.M. (povreda na avtorsko pravo)

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Adresa: ул. Ајосиол Гусларов 1-а Г.Т.Ц.Бунјаковец Скопје
Тел/Факс: 047/203-900; 203-330; 070/237-108
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Electrolux Bitola

Knot Cup Brushes



Knot Cup Brushes without Bridle, 1 Row, Steel Wire

D mm/inch	d mm/inch	H	Z	RPM max.	Pack. ☐	steel 0.35/0.014" Art. No.	steel 0.50/0.020" Art. No.	steel 0.80/0.031" Art. No.
65 / 2 1/2	M 10 x 1,5	20	18	12,500	1	482.114 *	482.214 *	
65 / 2 1/2	M 14 x 2,0	20	18	12,500	1	482.117 *	482.217 *	482.317
75 / 3	M 14 x 2,0	20	18	12,500	1	483.117	483.217	
80 / 3 1/4	M 14 x 2,0	33	18	12,500	25	480.117		
90 / 3 1/2	M 14 x 2,0	22	20	11,500	1		485.237 *	
100 / 4	M 14 x 2,0	25	26		1		486.237	
125 / 5	M 14 x 2,0	25	32		1		487.237	
150 / 6	M 14 x 2,0	22	36	6,600	1		488.237	
150 / 6	W 5/8 x 11 NC	22	36	6,600	1		488.238	

Knot Cup Brushes with Bridle, 1 Row, Steel Wire

D mm/inch	d mm/inch	H	Z	RPM max.	Pack. ☐	steel 0.35/0.014" Art. No.	steel 0.50/0.020" Art. No.	steel 0.80/0.031" Art. No.
80 / 3 1/4	22,2 / 7/8	25	20	9,000	1	484.111	484.211	484.311
80 / 3 1/4	M 14 x 2,0	25	20	9,000	1	484.117	484.217 *	484.317
80 / 3 1/4	W 5/8 x 11 NC	25	20	9,000	1	484.118	484.218	484.318
100 / 4	22,2 / 7/8	23	26	9,000	1	486.111	486.211 **	486.311 **
100 / 4	M 14 x 2,0	23	26	9,000	1	486.117	486.217	486.317
100 / 4	W 5/8 x 11 NC	23	26	9,000	1	486.118	486.218 **	486.318 **
125 / 5	22,2 / 7/8	25	32	7,000	1	487.111	487.211	487.311
125 / 5	M 14 x 2,0	25	32	7,000	1	487.117	487.217	487.317
125 / 5	W 5/8 x 11 NC	25	32	7,000	1	487.118	487.218	487.318

W Knot Cup Brushes without Bridle, 2 Rows, Steel Wire

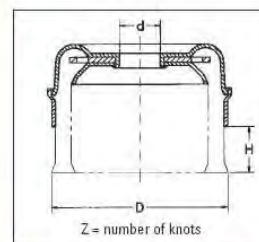
D mm/inch	d mm/inch	H	Z	RPM max.	Pack. ☐	steel 0.35/0.014" Art. No.	steel 0.50/0.020" Art. No.	steel 0.80/0.031" Art. No.
100 / 4	W 5/8 x 11 NC	25	26+20		1		486.248	
125 / 5	W 5/8 x 11 NC	25	32+26		1		487.248	
150 / 6	W 5/8 x 11 NC	25	36+32		1		488.248	

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 Тел/Факс: 02/329 8 130; 070/237 198
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Electrolux Bitola

Knot Cup Brushes



Knot Cup Brushes without Bridle, 1 Row, Stainless Steel Wire

D mm/inch	d mm/inch	H	Z	RPM max.	Pack.	stainless 0.35/0.014* Art. No.	stainless 0.50/0.020* Art. No.
65 / 2 1/2	M 10 x 1,5	20	18	12,500	1	482.714	482.814
65 / 2 1/2	M 14 x 2,0	20	18	12,500	1	482.717 *	482.817 *
75 / 3	M 14 x 2,0	20	20	12,500	1		483.817
80 / 3 1/4	M 14 x 2,0	33	18	12,500	25	480.717	

Knot Cup Brushes with Bridle, 1 Row, Stainless Steel Wire

D mm/inch	d mm/inch	H	Z	RPM max.	Pack.	stainless 0.35/0.014* Art. No.	stainless 0.50/0.020* Art. No.
80 / 3 1/4	22,2 / 7/8	25	20	9,000	1	484.711	484.811
80 / 3 1/4	M 14 x 2,0	25	20	9,000	1	484.717	484.817 *
80 / 3 1/4	W 5/8 x 11 NC	25	20	9,000	1	484.718	484.818
100 / 4	22,2 / 7/8	23	26	9,000	1	486.711	486.811
100 / 4	M 14 x 2,0	23	26	9,000	1	486.717	486.817
100 / 4	W 5/8 x 11 NC	23	26	9,000	1	486.718	486.818
EW 125 / 5	M 14 x 2,0	23	32	9,000	1		487.817

* Packed 25 pieces per carton.

Knot Cup Brushes

Knot cup brushes are for heavy duty use: for the preparing of metal surfaces before painting, the removal of slag, rust, scale or concrete waste.

knotted brushes are filled with a special steel wire of high tensile strength in order to meet the demands of this type of brush. The brushes diameter

80/100/125 mm (Art. No. 484/486/487) have a bridle fitted for stability. The bridle can be removed after wear of the wire exposing a further 20 mm of useable wire!

Stainless Steel Brushes

-brushes with stainless steel wire have green cups. We use wire with material number 1.4310. Material number 1.4401 can be used on request.

We recommend the use of our brush with diameter 90 mm for small angle grinders. Compared to the common brush with diameter 65 mm this model has 50% more wire and it is really something special in the brush market!



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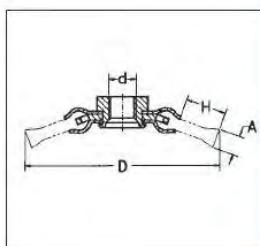
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www.elektroluks.com.mk, electrolux@mt.net.mk

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Electrolux Bitola

Knot Conical Brushes



Knot Conical Brushes

	D	A	d	H	Z	RPM	Pack.	steel 0.35/0.014"	steel 0.50/0.020"	stainl. 0.35/0.014"	stainl. 0.50/0.020"
	mm/inch	mm/inch	mm/inch			max.		Art.No.	Art. No.	Art. No.	Art. No.
1	100 / 4	12 / 1/2	M 10 x 1.5	20	18	12,500	1		471.254		
	100 / 4	12 / 1/2	M 14 x 2.0	20	18	12,500	1	471.157	471.257 *	471.757	471.857 *
	100 / 4	12 / 1/2	22.2 / 7/8	20	18	12,500	1		471.251		
2	115 / 4 1/2	12 / 1/2	M 14 x 2.0	24	20	15,000	1	472.157	472.257 *	472.757	472.857 *
	115 / 4 1/2	12 / 1/2	22.2 / 7/8	24	20	15,000	1		472.251		

Conical Brushes

	D	A	d	H	RPM	Pack.	steel 0.35/0.014"	stainless 0.30/0.012"	brassed steel 0.30/0.012"
	mm/inch	mm/inch			max.		Art.No.	Art. No.	Art. No.
	100 / 4	10 / 3/8	M 14 x 2.0	20	12500	1	422.177 *	422.367	422.767

* Packed 25 pieces per carton.

She believes that a constructive, pleasant co-operation is not only important for human relationships but also the best way putting things forward for customers and the company.

"To be in contact with customers means to find together the best solutions."



Knot Conical Brushes

The special shape of these brushes enables the user to work in hard to reach places. The knots are left hand twisted to increase stability. For promoting sales all standard knot conical brushes are packed individually for self display. These brushes are also available bulk packed.

Stainless Steel Brushes

brushes with stainless steel wire have green cups. We use wire with material number 1.4310. Material number 1.4401. can be used on request.

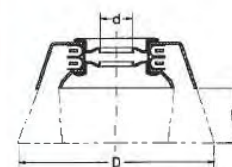
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Electrolux Bitola

Cup Brushes



Cup Brushes with Crimped Wire

	D mm / inch	d mm / inch	H	RPM max.	Pack.	steel 0.20/0.008"	steel 0.35/0.014"	steel 0.50/0.020"	stainless 0.30/0.012"	brass 0.30/0.012"
						Art. No.	Art. No.	Art. No.	Art. No.	Art. No.
2	60 / 2 3/8	M 10 x 1.5	20	12,000	1		421.164 *		421.364	421.564
	60 / 2 3/8	M 14 x 2.0	20	12,000	1	421.147	421.167 *	421.197	421.367 *	421.567
	75 / 3	M 14 x 2.0	25	12,500	1		423.167 *		423.367	
	75 / 3	W 5/8 x 11 NC	25	12,500	1		423.168		423.368	
	80 / 3 1/4	22.2 / 7/8	25	8,500	1		424.171		424.361	
3	80 / 3 1/4	M 14 x 2.0	25	8,500	1	424.147	424.177 *	424.197	424.367 *	424.567
	80 / 3 1/4	W 5/8 x 11 NC	25	8,500	1		424.178	424.198	424.368	
4	100 / 4	22.2 / 7/8	30	8,500	1		426.171	426.191	426.361	426.561
	100 / 4	M 14 x 2.0	30	8,500	1	426.147	426.177 **	426.197	426.367 **	426.567
	100 / 4	W 5/8 x 11 NC	30	8,500	1		426.178 **	426.198	426.368	426.568
	125 / 5	22.2 / 7/8	30	6,500	1		427.171			
	125 / 5	M 14 x 2.0	30	6,500	1		427.177	427.297	427.367	427.567
	125 / 5	W 5/8 x 11 NC	30	6,500	1		427.178	427.298		
	150 / 6	22.2 / 7/8	40	4,000	1		429.171	429.191		
	150 / 6	M 14 x 2.0	40	4,000	1		429.177	429.197	429.367	
	150 / 6	W 5/8 x 11 NC	40	4,000	1		429.178	429.198		

* Packed 25 pieces per carton. / ** packed 20 pieces per carton.

Cup Brushes

	D mm / inch	d mm / inch	H	RPM max.	Pack.	brass steel 0.30 / 0.012"	abrasive nylon grit 80
						Art. No.	Art. No.
1	60 / 2 3/8	M 14 x 2.0	20	12,000	1	421.767	421.827
	100 / 4	M 14 x 2.0	30	8,500	1	426.767	

Cup Brushes

The cups are designed for best concentric running and a long life-time of the brushes, adapted to the latest requirements of the market.

Cup brushes with crimped wire are ideal for working on large surfaces. They can also be used for the removal of rust, paint, dirt or scale and for polishing. The cup brushes can be delivered with different filling materials according to your requirements.

Adapters and Drive Arbors

See page 23.

For promoting sales all standard wheel brushes are packed individually for self display. They are also available in bulk.

Stainless Steel Brushes

brushes with stainless steel wire have green cups and side plates. We use wire with material number 1.4301. Material number 1.4401 can be used on demand.

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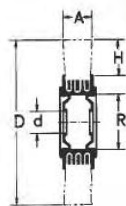
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Electrolux Bitola

Wheel Brushes



Wheel Brushes with Crimped Steel Wire

D	A	R	H	d	d	RPM	Pack.	steel crimped	
mm/inch	mm/inch	mm/inch		Stand. mm/inch	min./max. mm/inch	max.		0.15/0.006"	0.20/0.008"
								Art. No.	Art. No.
80 / 3 1/4	18-20 / 7/8	20 / 3/4	20	10 / 3/8	10 / 3/8 - 20 / 3/4	10,000	1		312.142
80 / 3 1/4	25-27 / 1	20 / 3/4	20	10 / 3/8	10 / 3/8 - 20 / 3/4	10,000	1		312.143
100 / 4	20-22 / 7/8	30 / 1 1/8	23	Set 1	10 / 3/8 - 30 / 1 1/8	8,000	1	323.132	323.142
100 / 4	28-30 / 1 1/8	30 / 1 1/8	23	Set 1	10 / 3/8 - 30 / 1 1/8	8,000	1	323.133	323.143
125 / 5	21-23 / 7/8	40 / 1 3/8	27	Set 2	13 / 1/2 - 40 / 1 3/8	6,000	1	334.132	334.142
125 / 5	29-31 / 1 1/4	40 / 1 3/8	27	Set 2	13 / 1/2 - 40 / 1 3/8	6,000	1		334.143
150 / 6	22-24 / 1	40 / 1 3/8	33	Set 2	13 / 1/2 - 40 / 1 3/8	6,000	1	344.132	344.142
150 / 6	30-34 / 1 1/4	40 / 1 3/8	33	Set 2	13 / 1/2 - 40 / 1 3/8	6,000	1	344.133	344.143
150 / 6	23-25 / 1	50 / 2	33	Set 3	13 / 1/2 - 50 / 2	6,000	1	345.132	345.142
150 / 6	30-34 / 1 1/4	50 / 2	33	Set 3	13 / 1/2 - 50 / 2	6,000	1	345.133	345.143
178 / 7	23-26 / 1	50 / 2	37	Set 3	16 / 5/8 - 50 / 2	6,000	1		355.142
178 / 7	32-35 / 1 1/2	50 / 2	37	Set 3	16 / 5/8 - 50 / 2	6,000	1	355.133	355.143
200 / 8	24-27 / 1	50 / 2	48	Set 3	16 / 5/8 - 50 / 2	6,000	1	365.132	365.142
200 / 8	35-38 / 1 1/2	50 / 2	48	Set 3	16 / 5/8 - 50 / 2	6,000	1	365.133	365.143
200 / 8	28-32 / 1 1/8	80 / 3	38	Set 4	16 / 5/8 - 80 / 3	4,500	1		366.142
200 / 8	40-45 / 2	80 / 3	38	Set 4	16 / 5/8 - 80 / 3	4,500	1		366.143
250 / 10	30-35 / 1 1/4	80 / 3	50	Set 4	20 / 3/4 - 80 / 3	3,600	1		376.142
250 / 10	42-45 / 2	80 / 3	50	Set 4	20 / 3/4 - 80 / 3	3,600	1		376.163
250 / 10	32-37 / 1 1/4	100 / 4	50	Set 4	20 / 3/4 - 100 / 4	3,600	1		377.142
250 / 10	43-48 / 2	100 / 4	50	Set 4	20 / 3/4 - 100 / 4	3,600	1		377.143
300 / 12	35-40 / 1 1/2	100 / 4	60	Set 4	30 / 1 1/4 - 100 / 4	3,000	1		387.142
300 / 12	47-52 / 1 3/4	100 / 4	60	Set 4	30 / 1 1/4 - 100 / 4	3,000	1		387.143
350 / 14	35-40 / 1 1/2	100 / 4	85	Set 4	30 / 1 1/4 - 100 / 4	2,400	1		397.142
350 / 14	55-60 / 2 1/4	100 / 4	85	Set 4	30 / 1 1/4 - 100 / 4	2,400	1		397.143

Bore must be indicated in the order. Standard bore delivery ex stock, short termed. Other bores are available with extra charge: 1 - 10 pcs. EUR 5,00 / 11 - 25 pcs. EUR 3,00

Wheel Brushes

Wheel brushes filled with crimped wire are used for the purpose of obtaining different surface finishing: the removal of rust, paint and dirt, for roughening, deburring, stripping or polishing.

A decisive factor for choosing the most suitable brush is the wire and tube diameter. Brushes with a larger tube diameter (measure R) are filled with more wire, are more aggressive and have a longer life. In our catalogue are the usual tube

diameters - other diameters can also be supplied. You will find additional equipment such as side plates and adapters on page 23. More technical instruction such as peripheral speed etc. see page 8/9.

The bore must be indicated in the order. Without any instruction delivery will be with standard bore "d Stand".

Ovo je sveska sa spiskom svih proizvoda koji su u ponudi u ovom katalogu. Bez negovog pismenog odobrenja isti ne sme se prepisivati, umnozavati niti kopirati bez saglasnosti od Elektroluksa. Ovo je sveska sa spiskom svih proizvoda koji su u ponudi u ovom katalogu. Bez negovog pismenog odobrenja isti ne sme se prepisivati, umnozavati niti kopirati bez saglasnosti od Elektroluksa.

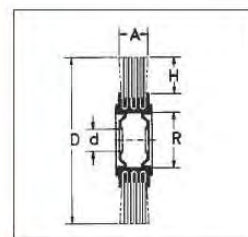
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Adresa: ul. Ajdoski Gueštarov 1-a, G. T. C. Bujakovci, Skopje
Tel/Faks: 047/203-900; 203-330; 070/237-108
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Electrolux Bitola

Wheel Brushes



1 Band Saw Brushes

D mm/inch	A mm/inch	H	d mm/inch	RPM max.	Pack. 10	steel crimped 0.35/0.014" Art. No.	brass coated steel 4 x 0.25/0.010" Art. No.	nylon 0.50/0.020" Art. No.
80 / 3 1/4	18-20 / 3/4	27	6 / 1/4	15,000	10		310.702.06	
100 / 4	13 / 1/2	21	13 / 1/2	6,000	10			320.004
100 / 4	13 / 1/2	20	12 / 1/2	6,000	10	320.161.12		

2 D.I.Y. Brushes

D mm/inch	A mm/inch	d mm/inch	RPM max.	Pack. 10	steel crimped 0.35/0.014" Art. No.	steel crimped 0.35/0.014" Art. No.
75 / 3	10 / 3/8	1/2"	4,500	10	300.102	
100 / 4	10 / 3/8	1/2"	4,500	10	320.102	
150 / 6	10-12 / 1/2	16 / 5/8	4,500	10		340.101
150 / 6	12 / 1/2	13 / 1/2	4,500	10		340.102

3 Stripping Brushes

D mm/inch	A mm/inch	d mm/inch	0.10/0.004"	0.15/0.006"	0.20/0.008"	steel 0.25/0.010"	0.30/0.012"	0.35/0.014"	0.40/0.016"
20 / 3/4	20 / 3/4	5 / 1/4	301.211.10	301.211.15	301.211.20				
30 / 1 1/4	20 / 3/4	6 / 1/4	301.213.10	301.213.15	301.213.20		301.213.30		
35 / 1 1/2	20 / 3/4	6 / 1/4		301.214.15	301.214.20		301.214.30		
40 / 1 3/8	25 / 1	10 / 3/8		301.225.15	301.225.20	301.225.25	301.225.30		
80 / 3 1/4	30 / 1 1/4	16 / 5/8			301.236.20		301.236.30		
80 / 3 1/4	40 / 1 3/8	16 / 5/8			301.246.20		301.246.30	301.246.35	301.246.40

All articles on request, please mention quantities!

Band Saw Brushes

These brushes clean saw blades of band saws while the saw is running. The shown brushes fit all machines of the leading manufacturers.

Do it yourself-Wheel brushes

These brushes are an excellent alternative to the professional tools for occasional brush work. The brushes can be mounted on shanks or directly on machines.

Stripping Brushes

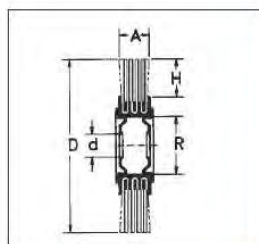
For the removal of lacquer and other insulations from cables and electric equipment. Specially dense and available with extremely thin wire. The polished surface and the concentric running enable soft removal of lacquer from the wires.

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Адреса: ул. Ајосидол Гусларов 1-а Г.Т.Ц.Бунјаковец Скопје
Тел/Факс: 047/203-900; 203-330; 070/237-108
Тел/Факс: 02/329 8 130; 070/237 198
www.elektroluks.com.mk, electrolux@mt.net.mk



Electrolux Bitola

Single Segment



IEW Single Segment Wheel Brushes with Steel Wire, Stainless Steel Wire

	D	A	H	d	d	RPM	Pack.	steel 0.20/0.008"	steel 0.30/0.012"	stainless 0.20/0.008"	stainless 0.30/0.012"
	mm/inch	mm/inch		Stand.	min. / max.	max.		Art. No.	Art. No.	Art. No.	Art. No.
	100 / 4	15-17 / 5/8	21	13	13-20	8,000	5	320.141	320.161	320.341	320.361
	125 / 5	15-17 / 5/8	33	13	13-20	8,000	5	330.141	330.161	330.341	330.361
②	150 / 6	15-17 / 5/8	32	13	13-30	6,000	5	340.141	340.161	340.341	340.361
	178 / 7	18-20 / 3/4	46	20	20-80	6,000	5	350.141	350.161	350.341	350.361
③	200 / 8	20-22 / 3/4	33	20	20-80	6,000	5	360.141	360.161	360.341	360.361
	250 / 10	22-24 / 3/4	58	20	20-80	6,000	5	370.141	370.161	370.341	370.361

IEW Single Segment Wheel Brushes with Abrasive Nylon

	D	A	H	d	d	RPM	Pack.	abrasive nylon grit 120	abrasive nylon grit 180	abrasive nylon grit 320
	mm/inch	mm/inch		Stand.	min. / max.	max.		Art. No.	Art. No.	Art. No.
①	100 / 4	15-20 / 5/8	21	13	10-20	8,000	5	320.841	320.851	320.871
	125 / 5	15-20 / 5/8	30	13	10-20	8,000	5	330.841	330.851	330.871
	150 / 6	15-20 / 5/8	34	13	10-30	6,000	5	340.841	340.851	340.871
	178 / 7	15-20 / 5/8	44	20	20-80	6,000	5	350.841	350.851	350.871
	200 / 8	15-20 / 5/8	39	20	20-80	6,000	5	360.841	360.851	360.871
	250 / 10	15-20 / 5/8	40	20	20-80	6,000	5	370.841	370.851	370.871

Single Segment Brushes

These brushes are mainly used for deburring purposes in stationary machines or processing centres. The construction of these brushes allows it to assemble them to roller brushes of any desired width. Many different filling materials like steel, stainless steel or abrasive nylon with various grit are at your disposal.

In contrast to steel wires the bristles also have grinding effect on the side, what makes them even more flexible to application possibilities.

For working in moist places the bristles are made of PA 6.12. Please mention in your enquiry/order if this is necessary.

The flexible bristles align to the different shapes of working pieces. An important advantage of the single segment brushes compared to other grinding tools, such as pads or grinding discs, is their gentle treatment. Furthermore the brushes do not become encrusted.

They are suitable for deburring work and fine polishing of stainless steel, light metal or plastic material. Besides the executions listed on this page other diameters and grit sizes are available.

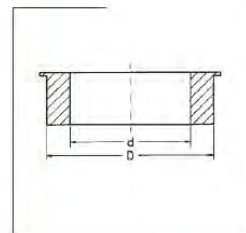
For further information regarding abrasive nylon bristles please see chapter MATERIALS on page 6.

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Electrolux Bitola

Accessories



Plastic Adapter Sets

1	Set 1	Tube 30	Art. No. 83.886.630	30 - 1" - 22.2 - 20 - 16 - 1/2" - 12
2	Set 2	Tube 40	Art. No. 83.886.640	40 - 32 - 1" - 22.2 - 20 - 16 - 1/2"
3	Set 3	Tube 50	Art. No. 83.886.650	50 - 32 - 1" - 22.2 - 20 - 16 - 1/2"
4	Set 4	Tube 80/100	Art. No. 83.886.680	50.8 - 30 (further adapters with Set 1)

6 Plastic Adapters

D mm/inch	d mm/inch	Art. No.	D mm/inch	d mm/inch	Art. No.	D mm/inch	d mm/inch	Art. No.
13 / 1/2	10 / 3/8	000.823	20 / 3/4	16 / 5/8	000.806	22.2 / 7/8	20 / 3/4	000.812
16 / 5/8	13 / 1/2	000.801	22.2 / 7/8	10 / 3/8	000.808	30 / 1 1/4	20 / 3/4	000.813
20 / 3/4	10 / 3/8	000.802	22.2 / 7/8	13 / 1/2	000.809	40 / 1 3/8	30 / 1 1/4	000.819
20 / 3/4	13 / 1/2	000.804	22.2 / 7/8	16 / 5/8	000.811			

6 Drive Arbors

D mm/inch	L mm/inch	Thread	Art. No.	D mm/inch	L mm/inch	Thread	Art. No.
6 / 1/4	60 / 2 5/8	M 10 x 1.5	000.041	6 / 1/4	40 / 1 3/8	M 10 left	000.044 *
10 / 3/8	60 / 2 5/8	M 10 x 1.5	000.042	6 / 1/4	50 / 2	M 12 left	000.045 **
10 / 3/8	75 / 3	M 14 x 2.0	000.043				

* e.g. for wheel brush Art. No. 301.163 (see page 29) / ** e.g. for wheel brush Art. No. 300.705 (see page 29)

7 Metal Discs as Spare Part

	R 30	R 40	R 50	R 80	R 100 *
Art. No.	000.631	000.641	000.651	000.661	000.671

Bore must be indicated! / * On request with double keyset 12 x 7 (50.8 / 52.9 / 54.5)

Drive Arbors

With these additional parts the wheel brushes and cup brushes can be adapted for use on drilling machines.

Adapters

With these adapters the bore can be reduced to the required size. The wheel brushes are supplied with adapter sets which makes it possible to mount the brushes on

all popular grinding machines. The adapters have the following dimensions:
Set 1 / tube 30:
30 / 1" / 22.2 / 20 / 16 / 1/2" / 12
Set 2 / tube 40:
40 / 32 / 1" / 22.2 / 20 / 16 / 1/2"
Set 3 / tube 50:
50 / 32 / 25.4 / 22.2 / 20 / 16 / 1/2"
Set 4 / tube 80+100:
with metal discs, bore 50.8 and double key way 7x13; adapter to

bore 30 + Set 1. A technical advice and safety information leaflet is included. The practical adapter sets can also be ordered separately. Please note that every brush requires two adapter sets.

Metal Discs

Brushes with tube diameter 80 and 100 mm are supplied with our standard metal plates made of

steel. Occasionally these metal plates are also required for brushes with smaller tubes. The metal plates on this page are therefore also suitable for the brushes on page 18 and 19. Please indicate the required bore size on your order and note that normally two metal plates are required for one brush.

Ovo je crtež e sopsštenost na Electrolux-Bitola. Bez negovo pismeno odobruvanje istiot nesmee da se prepisuva, umnozuva niti kopira bez soglasnost od Electroluks vo sprotivno se snosat posledici vo smislana clenovite 163 i 164 od krivicniot zakon R.M. (povreda na avtorsko pravo)

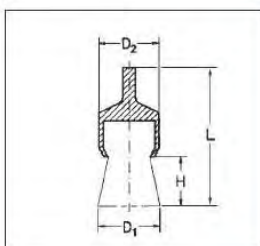
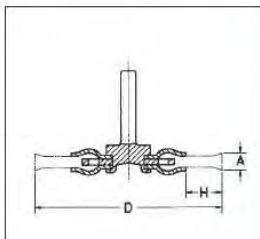
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Electrolux Bitola

Knotted Shank Brushes



Knotted Wheel Brushes with Shank 6 mm Ø

	D	A	H	Z	RPM	Pack.	steel 0.35/0.014"	steel 0.50/0.020"	stainl. 0.50/0.020"
	mm/inch	mm/inch			max.		Art. No.	Art. No.	Art. No.
1	75 / 3	9 / 3/8	15	18	25,000	10		417.198.11	
2	75 / 3	12 / 1/2	15	18	25,000	10	417.168	417.198	417.398
3	75 / 3	16 / 5/8	15	36	25,000	10		417.199	417.399

Knotted End Brushes with Shank 6 mm Ø

	D1/D2	L	H	Z	RPM	Pack.	steel 0.25/0.010"	steel 0.35/0.014"	steel 0.50/0.020"	stainl. 0.25/0.010"	stainl. 0.35/0.014"	stainl. 0.50/0.020"
	mm/inch	mm/inch			max.		Art. No.	Art. No.	Art. No.	Art. No.	Art. No.	Art. No.
4	19 / 3/4	72 / 2 7/8	28	6	20,000	10	453.258	453.278	453.298	453.358	453.378	
5	22 / 7/8	72 / 2 7/8	28	8	20,000	10	454.258	454.278	454.298	454.358	454.378	454.398
6	29 / 1 1/8	72 / 2 7/8	28	12	20,000	10	456.258	456.278	456.298	456.358	456.378	456.398
7	75 / 3	-	20	18	4,500	10			483.230			



Knotted Wheel Brushes with Shank

It does not matter if the brush has one or two rows, the brush is the perfect tool for removing underseal, rust deburring, roughening etc.

For working in narrow places we recommend our brush 417.198.11, which is an especially narrow brush.



Stainless Steel Brushes:

Brushes with stainless steel have green side plates. We use wire with material number 1.4310. Material number 1.4401 can be used on request.

Knotted End Brushes with Shank

These models are known for the high-quality of the wire and have therefore a longer service life.

According to the RPM the brush will vary in dimension and enable the user to work in hard to reach areas such as drilled holes and recesses of all kinds. The cups of the knotted brushes with stainless steel wire are coated with plastic to protect the stainless surface. Knotted end brushes with stainless steel wire are green characterized.

The brushes have a 6 mm shank. On demand the brushes can also be supplied with 1/4" shanks (USA execution).

Ovo je crtež e sopštenost na Electrolux-Bitola. Bez negovo pismeno odobruvanje isti ot nesmee da se prepisuva , umozuova niti kopira bez soglasnost od Electroluks vo sprotivno se snosat posledici vo smislana clenovite 163 i 164 od krivicniot zakon R.M. (povreda na avtorsko pravo)

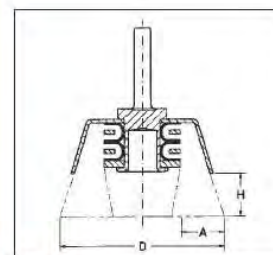
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Electrolux Bitola

Cup Shank Brushes



1 Cup Brushes with Shank 6 mm Ø

D mm/inch	A mm/inch	H	RPM max.	Pack. 10	steel 0.20/0.008" Art. No.	steel 0.30/0.012" Art. No.	stainless 0.30/0.012" Art. No.	brass 0.20/0.008" Art. No.
40 / 1 3/8	10 / 3/8	20	8,000	10	434.142	434.162	434.362	434.542
50 / 2	10 / 3/8	20	10,500	10	435.142	435.162	435.362	435.542
60 / 2 3/8	10 / 3/8	20	4,500	10		436.162	436.362	
70 / 2 3/4	15 / 5/8	25	4,500	10	437.142	437.162	437.362	437.542

2 Cup Brushes with Plastic Cup with Shank 6 mm Ø

D mm/inch	A mm/inch	H	RPM max.	Pack. 10	stainless 0.20/0.008" Art. No.	stainless 0.25/0.010" Art. No.	stainless 0.30/0.012" Art. No.
40 / 1 3/8	20 / 3/4	23	15,000	10	434.345	434.355	434.365
50 / 2	25 / 1	28	10,500	10	435.345	435.355	435.365

3 Abrasive Nylon Cup Brushes with Shank 6 mm Ø

D mm/inch	A mm/inch	H	RPM max.	Pack. 10	abrasive nylon grit 80 Art. No.	abrasive nylon grit 320 Art. No.
50 / 2	10 / 3/8	20	4,500	10	430.128	430.129
75 / 3	15 / 5/8	22	4,500	10	430.138	430.139

Cup Brushes with Shank

Ideal for working on medium and large areas.

The executions with stainless steel can be used at higher RPM and can therefore be used on electrical and air driven grinding machines. These models are known for their high density of filling material and therefore they have a very long lifetime.

The brushes with abrasive nylon can be used for deburring, polishing or structuring of stainless steel, aluminium and plastic surfaces.

Ovo je crtež e sopstvenost na Electrolux-Bitola. Bez negovo pismeno odobruvanje isti ot nesmee da se prepisuva, umozuwa niti kopira bez soglasnost od Electroluks vo sprotivno se snosat posledici vo smislana clenovite 163 i 164 od krivicniot zakon R.M. (povreda na avtorsko pravo)

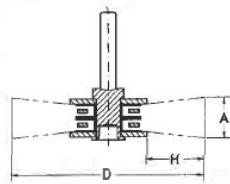
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Adresa: ul. Ajdosilol Guslarov 1-a G.T.C. Buntakovec Skopje
Tel/Faks: 047/203-900; 203-330; 070/237-108
Tel/Faks: 02/329 8 130; 070/237 198
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Electrolux Bitola

Brushes with Shank



Wheel Brushes with Shank 6 mm Ø

D mm/inch	A mm/inch	H	RPM max.	Pack.	steel 0.15/0.006"	steel 0.20/0.008"	steel 0.30/0.012"	steel 0.50/0.020"	brassel St. 0.25/0.010"
					Art. No.	Art. No.	Art. No.	Art. No.	Art. No.
20/3/4	4/1/4	3	20,000	10		411.142			
30/1/4	6/1/4	6	20,000	10	413.132	413.142	413.162		
30/1/4	9/3/8	6	20,000	10		413.143	413.163		
40/1/2	10/3/8	9	18,000	10	414.132	414.142	414.162	414.192	
40/1/2	14-16/5/8	9	18,000	10	414.133	414.143	414.163		
50/2	10-12/1/2	12	15,000	10	415.132	415.142	415.162	415.192	415.752
50/2	14-16/5/8	12	15,000	10	415.133	415.143	415.163	415.193	
60/2 3/8	10-12/1/2	17	15,000	10	416.132	416.142	416.162		
60/2 3/8	14-16/5/8	17	15,000	10	416.133	416.143	416.163	416.193	
70/2 3/4	12-14/1/2	19	15,000	10	417.132	417.142	417.162	417.192	417.752
70/2 3/4	16-18/5/8	19	15,000	10	417.133	417.143	417.163		
80/3 1/4	12-14/1/2	20	15,000	10		418.142	418.162		
80/3 1/4	18-20/3/4	20	15,000	10		418.143	418.163		
70/2 3/4	10/3/8	14	15,000	10				417.196	cambered plates

Structuring Brushes with Shank 8 mm Ø

D mm/inch	A mm/inch	H	RPM max.	Pack.	brassel steel 4 x 0.25/0.010"
					Art. No.
80/3 1/4	35/1 3/8	28	4,000	1	418.704



Wheel Brushes with Shank

The wheel brushes shown on these pages are manufactured with a mounted shank for professional use. Tight filling wire and balanced running make these brushes excellent tools. Encapsulated brushes with shank please see page 29.

Stainless Steel Brushes

brushes with stainless steel wire have green side plates. We use wire with material number 1.4301. Material number 1.4401 can be used on request.

The brushes have a 6 mm shank. On demand the brushes can also be supplied with 1/4" shanks (USA execution).

Structuring Brushes with Shank

These brushes are special brushes which can be used for wood grain surfaces.

Brushes with other diameters, filling widths and filling material are available.

Ovo je crtež e sopštenost na Electrolux-Bitola. Bez negovo pismeno odobruvanje isti ot nesmee da se prepisuva , umnozuva niti kopira bez soglasnost od Electroluks vo sprotivno se snosat posledici vo smislana clenovite 163 i 164 od kriviciot zakon R.M. (povreda na avtorsko pravo)

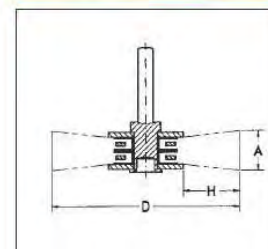
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 Тел/Факс: 047/203-900; 203-330; 070/237-108
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Electrolux Bitola

Brushes with Shank



1 Wheel Brushes with Shank 6 mm Ø, Stainless Steel and 2 Brass Wire

D mm/inch	A mm/inch	H	RPM max.	Pack. 10	stainless 0.20/0.008" Art. No.	stainless 0.30/0.012" Art. No.	brass 0.20/0.008" Art. No.
20/3/4	4/1/4	3	20,000	10	411.342		411.542
30/1 1/4	6/1/4	6	20,000	10	413.342	413.362	413.542
30/1 1/4	9/3/8	6	20,000	10	413.343	413.363	
40/1 1/2	10/3/8	9	18,000	10	414.342	414.362	414.542
40/1 1/2	16/5/8	9	18,000	10	414.343		414.543
50/2	10-12/1/2	12	15,000	10	415.342	415.362	415.542
50/2	14-16/5/8	12	15,000	10	415.343	415.363	415.543
60/2 3/8	10-12/1/2	17	15,000	10	416.342	416.362	416.542
60/2 3/8	16-18/3/4	17	15,000	10	416.343	416.363	416.543
70/2 3/4	12-14/1/2	19	15,000	10	417.342	417.362	417.542
70/2 3/4	16-18/3/4	19	15,000	10	417.343	417.363	417.543
80/3 1/4	12-14/1/2	20	15,000	10	418.342	418.362	418.542
80/3 1/4	18-20/3/4	20	15,000	10	418.343	418.363	418.543

3 Wheel Brushes with Shank 6 mm Ø, completely stainless

50/2	15-17/5/8	12	15,000	10	415.301	415.302
60/2 3/8	17-19/3/4	17	15,000	10	416.303	416.302
70/2 3/4	18-20/3/4	19	15,000	10	417.306	417.309

4 Wheel Brushes with Shank 6 mm Ø, Abrasive Nylon

D mm/inch	A mm/inch	H	RPM max.	Pack. 10	abrasive nylon grit 120 Art. No.	abrasive nylon grit 320 Art. No.
50/2	10-12/1/2	12	15,000	10	415.842	415.872
70/2 3/4	12-14/1/2	20	15,000	10	417.842	417.872
80/3 1/4	12-14/1/2	22	15,000	10	418.842	418.872

Wheel brushes with shank completely stainless steel

All the inner and outer parts of these brushes such as shanks, side plates, rings, etc. are made of stainless steel. Therefore these

brushes are the perfect tool for working in very damp and difficult places.

Shank Brushes with Abrasive Nylon

The high quality abrasive nylon bristles with silicon carbide can be used for deburring, polishing and structuring of stainless steel,

aluminium and plastic surfaces. Besides the articles mentioned on this page we can also supply other grits, diameters and widths.

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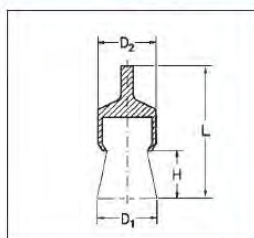
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Electrolux Bitola

Brushes with Shank



End Brushes with Shank 6 mm Ø

	D1	D2	H	L	RPM	Pack.	steel 0.15/0.006"	steel 0.20/0.008"	steel 0.30/0.012"	steel 0.50/0.020"	brass St. 0.25/0.010"
	mm/inch	mm/inch		mm/inch	max.		Art. No.	Art. No.	Art. No.	Art. No.	Art. No.
2	12/1/2	10/3/8	20	60/2 ^{3/8}	20,000	10	451.131	451.141	451.161	451.191	
	12/1/2	10/3/8	20	60/2 ^{3/8}	20,000	10			451.162*	451.192*	
3	12/1/2	10/3/8	20	120/4 ^{3/4}	15,000	10	458.131	458.141	458.161	458.191	
	17/5/8	16/5/8	22	65/2 ^{1/2}	20,000	10	452.131	452.141	452.161	452.191	
1	23/7/8	22/7/8	25	68/2 ^{3/4}	18,000	10	453.131	453.141	453.161	453.191	453.751
	30/1 ^{1/4}	29/1 ^{1/8}	25	68/2 ^{3/4}	18,000	10	456.131	456.141	456.161	456.191	
	50/2	22/7/8	18	68/2 ^{3/4}	18,000	10			453.163**		
4	70/2 ^{3/4}	29/1 ^{1/8}	25	68/2 ^{3/4}	18,000	10			456.163**		

* painted/** spreaded

End Brushes with Shank 6 mm Ø

	D1	D2	H	L	RPM	Pack.	stainl. 0.20/0.008"	stainl. 0.30/0.012"	brass 0.20/0.008"	brass 0.30/0.012"
	mm/inch	mm/inch		mm/inch	max.		Art. No.	Art. No.	Art. No.	Art. No.
	12/1/2	10/3/8	20	60/2 ^{3/8}	20,000	10	451.341	451.361	451.541	451.561
	12/1/2	10/3/8	20	60/2 ^{3/8}	20,000	10		451.362*		
	12/1/2	10/3/8	20	120/4 ^{3/4}	15,000	10	458.341	458.361	458.541	458.561
	17/5/8	16/5/8	22	65/2 ^{1/2}	20,000	10	452.341	452.361	452.541	452.561
	23/7/8	22/7/8	25	68/2 ^{3/4}	18,000	10	453.341	453.361	453.541	453.561
	30/1 ^{1/4}	29/1 ^{1/8}	25	68/2 ^{3/4}	18,000	10	456.341	456.361	456.541	456.561
	50/2	22/7/8	18	68/2 ^{3/4}	18,000	10		453.363**		

End Brushes, Abrasive Nylon with Shank 6 mm Ø

	D1	D2	H	L	RPM	Pack.	abrasive nylon grit 180	abrasive nylon grit 320
	mm/inch	mm/inch		mm/inch	max.		Art. No.	Art. No.
2	22/7/8		25	70/2 ^{3/4}	18,000	10	454.851	454.871
6	28/1		30	75/3	15,000	10	456.851	456.871

End Brushes with Shank

For cleaning and deburring in hard to reach areas, removal of paint, rubber excess, cleaning of moulds and castings. Also for working on edges and recesses, and in the inside of the bores, etc.

End brushes are also available in other shapes, spreaded or pointed.

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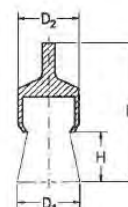
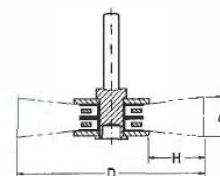
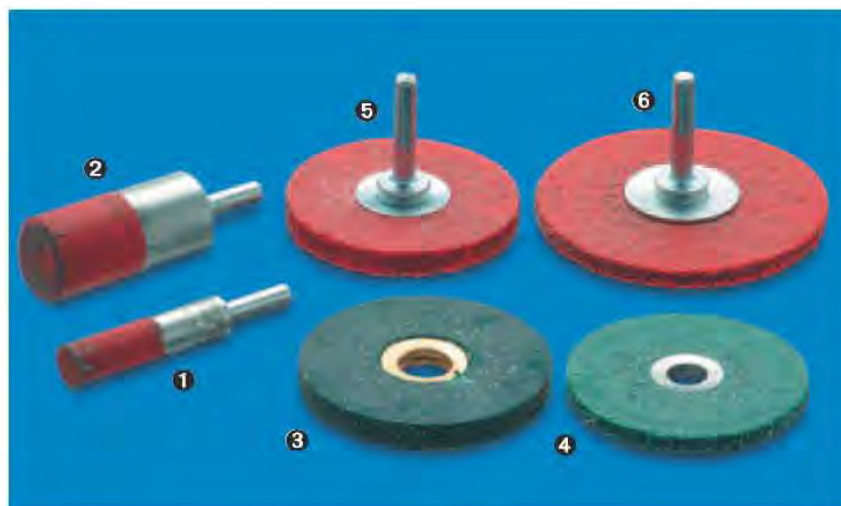
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Adresa: ul. Aјdostiol Gueclarov 1-a Г.Т.Ц. Бунјаковец Скопје
Тел/Факс: 047/203-900; 203-330; 070/237-108
Тел/Факс: 02/329 8 130; 070/237 198
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Electrolux Bitola

Brushes with Shank



End Brushes, Encapsulated with Shank 6 mm Ø

	D1 mm/inch	D2 mm/inch	H	L mm/inch	RPM max.	Pack. 10	steel 0.30/0.012" Art. No.
1	10 / 3/8	10 / 3/8	20	60 / 2 3/8	20,000	10	451.160
	16 / 5/8	16 / 5/8	25	72 / 2 7/8	15,000	10	452.160
2	22 / 7/8	22 / 7/8	25	75 / 3	13,000	10	453.160
	28 / 1	28 / 1	30	75 / 3	13,000	10	456.160

Wheel Brushes, Encapsulated with Shank 6 mm Ø

	D mm/inch	A mm/inch	H	d	RPM max.	Pack. 10	steel 0.30/0.012" Art. No.
	50 / 2	8 / 5/16	13		15,000	10	415.160
5	60 / 2 3/8	8 / 5/16	18		15,000	10	416.160
6	76 / 3	8 / 5/16	23		12,000	10	417.160

Wheel Brushes Encapsulated with Bore

	D mm/inch	A mm/inch	H	d mm/inch	RPM max.	Pack. 10	steel 0.30/0.012" Art. No.	brass steel 0.30/0.012" Art. No.
4	60 / 2 3/8	6 / 1/4	21	10 / 3/8	15,000	10	301.163*	
3	63 / 2 1/2	8 / 5/16	21	13 / 1/2	15,000	10		300.705 *

* Suitable drive arbors see page 23

Encapsulated Brushes

By embedding in tough plastic the brushes are long lasting and safe for perfect working.

Safety first

Because of this special feature these brushes are the perfect tool to be used in security relevant places. Their lifetime is much longer compared to other brushes which are not encapsulated. However, it must be stated that the plastic will leave marks on the working piece. Because of the lack of flexibility of the wires the brushing effect is much stronger.

Recommendation for users:

Switch cabinet constructors often use encapsulated brushes: thus paint on contact surfaces for switches or compound-impregnated cables can be removed precisely.

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Adresa: ул. Ајосиол Гусларов 1-а Г.Т.Ц. Бунјаковец Скопје
Тел/Факс: 047/203-900; 203-330; 070/237-108
Тел/Факс: 02/329 8 130; 070/237 198
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Electrolux Bitola

Do It Yourself Brushes



Inexpensive brush presentation - brush on card.



Wheel Brushes

	D mm/inch	A mm/inch	RPM max.	Pack. 10	steel 0.20/0.008" 0.25/0.010"	steel 0.30/0.012" 0.35/0.014"	stainless steel 0.20/0.008" Art. No.	stainless steel 0.30/0.012" Art. No.	brass 0.25/0.010" Art. No.	abrasive nylon grit 80 Art. No.
1	50/2	8-10/3/8	4,500	10	410.122	410.123				
	75/3	8-10/3/8	4,500	10	410.132	410.133	410.134	410.135	410.136	410.138
	75/3	14-16/5/8	4,500	10		410.173				
4	100/4	8-10/3/8	4,500	10	410.152	410.153	410.154	410.155		410.158
	100/4	14-16/5/8	4,500	10		410.183	410.185			

Cup Brushes

3	50/2		4,500	10	430.122	430.123	430.124	430.125	430.126	430.128
2	75/3		4,500	10	430.132	430.133	430.134	430.135	430.136	430.138

End Brushes

5	25/1		12,000	10		455.161				453.821
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Cylinder Brushes

6	28/1		1,500	10		541.301				
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Brushes with Shank 6 mm Ø on Card

	D mm/inch	Pack. 10	steel 0.30/0.012" 0.35/0.014"	brass 0.25/0.010" Art. No.	abrasive nylon grit 80 Art. No.	knotted steel 0.50/0.020" Art. No.
Wheel Brushes	50/2	10	410.123.07			
	75/3	10	410.133.07	410.136.07	410.138.07	417.198.07
	100/4	10	410.153.07		410.158.07	
Cup Brushes	50/2	10	430.123.07	430.126.07	430.128.07	
	75/3	10	430.133.07		430.138.07	
End Brushes	25/1	10	455.161.07		453.821.07	
Cylinder Brushes	28/1	10	541.301.07			

D.I.Y Brushes with Shank

Do It Yourself brushes are an excellent alternative to the professional tools previously shown in this catalogue. Available are cup brushes from diameter 50-75 mm, wheel brushes diameter 50-100 mm, end brushes and cylinder brushes.

Attractive assortment

Coarse and fine steel wire, brass wire and abrasive filaments are available as filling materials.

The brushes are packed in small display cartons, 10 pieces per carton.

We offer different packaging to present these and other common brushes with shanks in specialist shops:

Single packing

On cards with Europerforation, EAN-bar code and technical data.

Also available with blister packing. (See page 32)

Displayboxes

The tools are loose in the display carton, ready to hand and easily visible. (see page 31)

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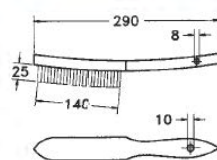
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Electrolux Bitola

Hand Brushes



Hand Brushes

Filling	Rows Pack.	1 Art. No.	2 Art. No.	3 Art. No.	4 Art. No.	5 Art. No.	6 Art. No.
1 steel straight 0.35/0.014"	12	100.011	100.021	100.031	100.041	100.051	100.061
steel straight 0.35/0.014"	100		100.020	100.030	100.040	100.050	
brassed steel 0.30/0.012"	12		105.421	105.431	105.441	105.451	105.461
brassed steel 0.30/0.012"	100		105.420	105.430	105.440	105.450	
steel crimped 0.20/0.008"	12		102.421	102.431	102.441		
steel crimped 0.30/0.012"	12	102.611	102.621	102.631	102.641	102.651	102.661
steel crimped 0.30/0.012"	100		102.620	102.630			
stainless crimped 0.15/0.006"	12		104.321	104.331	104.341	104.351	
stainless crimped 0.20/0.008"	12		104.421	104.431	104.441	104.451	
stainless crimped 0.35/0.014"	12	104.611	104.621	104.631	104.641	104.651	104.661
stainless crimped 0.35/0.014"	100			104.630	104.640		
2 stainless straight 0.35/0.014"	12	103.711	103.721	103.731	103.741	103.751	103.761
stainless straight 0.35/0.014"	100		103.720	103.730	103.740		
stainless straight 0.30/0.012-V4A	12		105.721	105.731	105.741	105.751	
brass crimped 0.15/0.006"	12		107.321	107.331	107.341	107.351	
brass crimped 0.25/0.010"	12	107.411	107.421	107.431	107.441	107.451	107.461
brass crimped 0.25/0.010"	100		107.420		107.440		
3 brass crimped 0.35/0.014"	12	107.611	107.621	107.631	107.641	107.651	107.661
brass crimped 0.35/0.014"	100			107.630	107.640		
brass straight 0.35/0.014"	12		106.621	106.631	106.641	106.651	
bronze crimped 0.20/0.008"	12			108.331	108.341	108.351	
nylon straight 0.40/0.016"	12		109.421	109.431	109.441	109.451	109.461
4 fibre white	12			109.731	109.741		
horse hair	12					109.851	

Other filling material and trim length on request.

Hand Brushes

Hand Brushes are used everywhere, in the metal industry, construction work, in the workshop. They are found in every tool box. The complete range contains all types of filling materials, from coarse steel to the finest brass

wire. The handles are made of beech wood with two hanging holes.

Hand brushes are of superb quality and yet are economic due to a fully automated and efficient production facility. Using

modern marking systems individual printing of brands and EAN Bar Codes can be made. This is done by burning stamps or tampon printing at low cost. All above listed hand brushes have a bar code stamp.

Environmental hint:

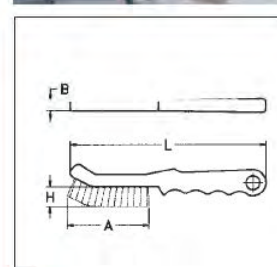
Hand brushes with a wooden body are certified in accordance with PEFC standards.

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 Адреса: ул. Ајосиол Гусларов 1-а Г.Т.Ц.Бунјаковец Скопје
 Тел/Факс: 047/203-900; 203-330; 070/237-108
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Special Hand Brushes

Filling	Rows	L mm/inch	B mm/inch	A mm/inch	H mm/inch	Pack.	Art. No.
Brake Caliper Brushes							
1 steel straight 0.35/0.014"	2 x 13	225/9	12/ 1/2	90/3 1/2	22/ 7/8	10	182.401
steel crimped 0.30/0.012"	2 x 13	225/9	12/ 1/2	90/3 1/2	22/ 7/8	10	182.411
2 stainless straight 0.35/0.014"	2 x 13	225/9	12/ 1/2	90/3 1/2	22/ 7/8	10	182.421
3 brass crimped 0.25/0.010"	2 x 13	225/9	12/ 1/2	90/3 1/2	22/ 7/8	10	182.451
steel straight 0.35/0.014"	2 x 13	225/9	12/ 1/2	90/3 1/2	14/ 5/8 / 22/ 7/8*	10	182.431

*Special hard brushes

Hand Brushes with Plastic Handles

steel straight 0.35/0.014"	2	285/ 11 1/4	23/ 1	130/ 5 1/8	25/ 1	10	185.121
steel straight 0.35/0.014"	3	285/ 11 1/4	31/ 1 1/4	130/ 5 1/8	25/ 1	10	185.131
steel straight 0.35/0.014"	4	285/ 11 1/4	36/ 1 1/2	130/ 5 1/8	25/ 1	10	185.141
stainless crimped 0.35/0.014"	2	285/ 11 1/4	23/ 1	130/ 5 1/8	25/ 1	10	185.421
stainless crimped 0.35/0.014"	3	285/ 11 1/4	31/ 1 1/4	130/ 5 1/8	25/ 1	10	185.431
5 stainless crimped 0.35/0.014"	4	285/ 11 1/4	36/ 1 1/2	130/ 5 1/8	25/ 1	10	185.441
brass straight 0.35/0.014"	2	285/ 11 1/4	23/ 1	130/ 5 1/8	25/ 1	10	185.621
brass straight 0.35/0.014"	3	285/ 11 1/4	31/ 1 1/4	130/ 5 1/8	25/ 1	10	185.631
brass straight 0.35/0.014"	4	285/ 11 1/4	36/ 1 1/2	130/ 5 1/8	25/ 1	10	185.641

Hand Brushes with Two-Components Handles

W 4 stainless crimped 0.35/0.014"	3	285/ 11 1/4	31/ 1 1/4	130/ 5 1/8	25/ 1	10	186.431
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Brake Caliper Brushes ROKI

This brush has been manufactured in co-operation with the automobile industry. This brush is used for cleaning off clogged lining deposits when changing brake pad linings. Thus the brush is very slim with a heavy straight wire filling. Made in this way it prevents damage to sensitive brake areas during use.

The brush 182.431 has to the top a sloping filling and is therefore extra hard. New is the two-components-handle with the latest ergonomical aspects. Because of the design and the ergonomic handle this brush is remarkably versatile to use.

Hand Brushes with Plastic Body

The remarkable feature of these hand brushes is their plastic body of PP (polypropylene) which makes them the perfect tool for the food industry.

Hand Brushes with

Two-Components Handles apply to other requirements of modern high quality tools with best ergonomics.

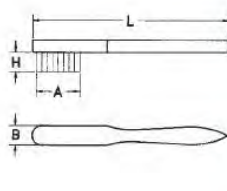
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Electrolux Bitola

Special Hand Brushes



Special Hand Brushes

Filling	Rows	L mm/inch	B mm/inch	A mm/inch	H mm/inch	Pack.	Art. No.
1 Rivet Brushes							
steel straight 0.35/0.014"	3 x 15	290 / 11 3/8	35 / 1 1/2	135 / 5 3/8	35 / 1 1/2	12	120.801
stainless straight 0.35/0.014"	3 x 15	290 / 11 3/8	35 / 1 1/2	135 / 5 3/8	35 / 1 1/2	12	120.811
stainless straight 0.30/0.012" - V4A	3 x 15	290 / 11 3/8	35 / 1 1/2	135 / 5 3/8	35 / 1 1/2	12	120.831
2 Hand Brushes with Scraper							
steel straight 0.35/0.014"	4 x 15	290 / 11 3/8	35 / 1 1/2	140 / 5 1/2	25 / 1	12	120.401
steel straight 0.35/0.014"	6 x 15	290 / 11 3/8	45 / 1 3/4	140 / 5 1/2	25 / 1	12	120.601
3 Hand Brushes Heavy Duty							
steel straight 0.35/0.014"	2 x 16	310 / 12 1/4	30 / 1 1/4	150 / 6	32 / 1 1/4	12	136.101
steel straight 0.35/0.014"	3 x 16	310 / 12 1/4	35 / 1 1/2	150 / 6	32 / 1 1/4	12	136.102
steel straight 0.35/0.014"	4 x 16	310 / 12 1/4	40 / 1 3/8	150 / 6	32 / 1 1/4	12	136.103
Hand Brushes Export Model							
steel straight 0.35/0.014"	4 x 17	300 / 12	30 / 1 1/4	130 / 5 1/8	25 / 1	12	122.401
steel straight 0.35/0.014"	4 x 19	350 / 14	30 / 1 1/4	160 / 6 3/8	30 / 1 1/4	6	122.801
6 Universal Wire Brushes							
brass steel 0.30/0.012"	1	260 / 10 1/4	10 / 3/8	135 / 5 3/8	28 / 1	24	056.001
steel crimped 0.35/0.014"	1	260 / 10 1/4	10 / 3/8	135 / 5 3/8	28 / 1	24	056.301
stainless crimped 0.30/0.012"	1	260 / 10 1/4	10 / 3/8	135 / 5 3/8	28 / 1	24	056.501
brass crimped 0.30/0.012"	1	260 / 10 1/4	10 / 3/8	135 / 5 3/8	28 / 1	24	056.701



Sectoral or special universal - always conscious of being able to supply the correct brush for each individual area of application. For example, with these models of hand brushes, for special demands in different areas of application.

Rivet Brushes

The V shaped filling material enables the removal of slag and scale from normally hard to reach welds and fillet welds.

Hand Brushes with Scraper

For painters and bricklayers in the construction industry. These brushes are ideal for scraping off dirt or cement splashes.

Hand Brushes, Heavy Duty

These models have a larger wooden handle and a longer and denser wire filling than our standard models.

Universal Wire Brushes

For many uses, especially in the Do It Yourself section.

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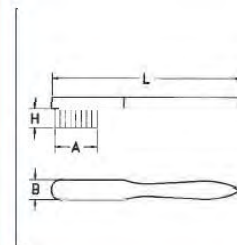
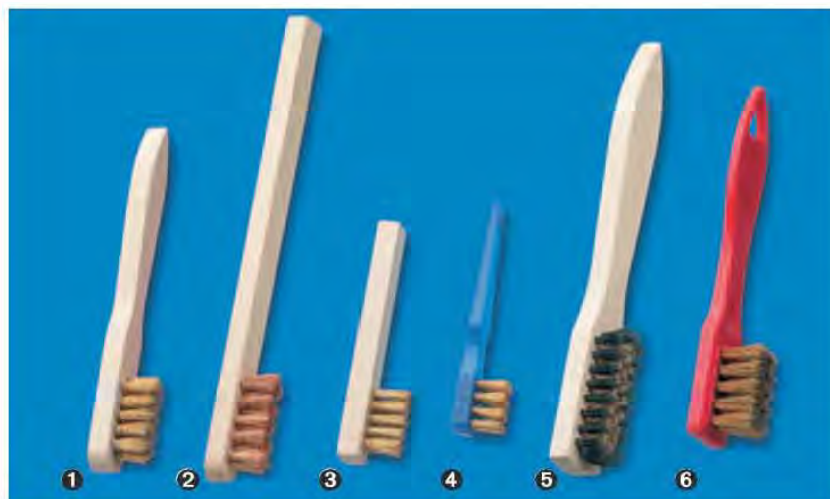
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Electrolux Bitola

Spark Plug Brushes



Standard Spark Plug Brushes

Filling	Rows	L mm/inch	B mm/inch	A mm/inch	H mm/inch	Pack.	Art. No.
1 brass crimped 0.15/0.006"	3 x 5/6	150 / 6	15 / 5/8	35 / 1 1/2	15 / 5/8	12	125.211
steel crimped 0.15/0.006"	3 x 5/6	150 / 6	15 / 5/8	35 / 1 1/2	15 / 5/8	12	125.201
stainless crimped 0.15/0.006"	3 x 5/6	150 / 6	15 / 5/8	35 / 1 1/2	15 / 5/8	12	125.231
brass crimped 0.15/0.006" / PPN	3 x 5/6	150 / 6	15 / 5/8	35 / 1 1/2	15 / 5/8	12	125.221
brass crimped 0.15/0.006"	3 x 5/6	150 / 6*	15 / 5/8	40 / 1 3/8	15 / 5/8	12	125.311
2 bronze crimped 0.15/0.006"	3 x 5/6	200 / 8	15 / 5/8	40 / 1 3/8	15 / 5/8	12	132.801
stainless crimped 0.20/0.008"	3 x 5/6	150 / 6	15 / 5/8	30 / 1 1/4	15 / 5/8	12	125.241
nylon straight 0.30/0.012"	3 x 5/6	150 / 6	15 / 5/8	30 / 1 1/4	15 / 5/8	12	125.251

* Wooden body varnished

Small Spark Plug Brushes

3 brass crimped 0.15/0.006"	2 x 5	100 / 4	15 / 5/8	25 / 1	15 / 5/8	50	125.111
4 brass crimped 0.15/0.006"	2 x 4	100 / 4 *	12 / 1/2	22 / 7/8	12 / 1/2	50	182.001

* Plastic body

Large Spark Plug Brushes

brass crimped 0.15/0.006"	5 x 8/10	190 / 7 1/2	24 / 1	55 / 2 1/4	18 / 3/4	12	125.511
5 brass crimped 0.15/0.006" / PPN	5 x 8/10	190 / 7 1/2	24 / 1	55 / 2 1/4	12 / 1/2	12	125.521
6 brass crimped 0.15/0.006"	4 x 6	155 / 6 *	22 / 7/8	40 / 1 3/8	18 / 3/4	12	182.331

* Plastic body

Spark Plug Brushes

These small brushes are for all fine brushwork requiring thin wire. They are available in different sizes and filling materials. The models 182.001 and 182.331 have plastic bodies, the other models have a beech wood body. The body of 125.311 is varnished.

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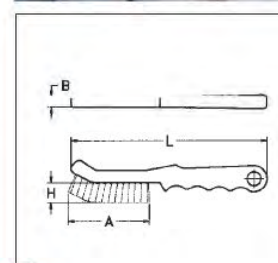
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Special Hand Brushes

Filling	Rows	L mm/inch	B mm/inch	A mm/inch	H mm/inch	Pack.	Art. No.
Brake Caliper Brushes							
1 steel straight 0.35/0.014"	2 x 13	225 / 9	12 / 1/2	90 / 3 1/2	22 / 7/8	10	182.401
steel crimped 0.30/0.012"	2 x 13	225 / 9	12 / 1/2	90 / 3 1/2	22 / 7/8	10	182.411
2 stainless straight 0.35/0.014"	2 x 13	225 / 9	12 / 1/2	90 / 3 1/2	22 / 7/8	10	182.421
3 brass crimped 0.25/0.010"	2 x 13	225 / 9	12 / 1/2	90 / 3 1/2	22 / 7/8	10	182.451
steel straight 0.35/0.014"	2 x 13	225 / 9	12 / 1/2	90 / 3 1/2	14 / 5/8 / 22 / 7/8 *	10	182.431

*Special hard brushes

Hand Brushes with Plastic Handles

steel straight 0.35/0.014"	2	285 / 11 1/4	23 / 1	130 / 5 1/8	25 / 1	10	185.121
steel straight 0.35/0.014"	3	285 / 11 1/4	31 / 1 1/4	130 / 5 1/8	25 / 1	10	185.131
steel straight 0.35/0.014"	4	285 / 11 1/4	36 / 1 1/2	130 / 5 1/8	25 / 1	10	185.141
stainless crimped 0.35/0.014"	2	285 / 11 1/4	23 / 1	130 / 5 1/8	25 / 1	10	185.421
stainless crimped 0.35/0.014"	3	285 / 11 1/4	31 / 1 1/4	130 / 5 1/8	25 / 1	10	185.431
6 stainless crimped 0.35/0.014"	4	285 / 11 1/4	36 / 1 1/2	130 / 5 1/8	25 / 1	10	185.441
brass straight 0.35/0.014"	2	285 / 11 1/4	23 / 1	130 / 5 1/8	25 / 1	10	185.621
brass straight 0.35/0.014"	3	285 / 11 1/4	31 / 1 1/4	130 / 5 1/8	25 / 1	10	185.631
brass straight 0.35/0.014"	4	285 / 11 1/4	36 / 1 1/2	130 / 5 1/8	25 / 1	10	185.641

Hand Brushes with Two-Components Handles

W 4 stainless crimped 0.35/0.014"	3	285 / 11 1/4	31 / 1 1/4	130 / 5 1/8	25 / 1	10	186.431
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Brake Caliper Brushes ROKI

This brush has been manufactured in co-operation with the automobile industry. This brush is used for cleaning off clogged lining deposits when changing brake pad linings. Thus the brush is very slim with a heavy straight wire filling. Made in this way it prevents damage to sensitive brake areas during use.

The brush 182.431 has to the top a sloping filling and is therefore extra hard. New is the two-components handle with the latest ergonomical aspects. Because of the design and the ergonomic handle this brush is remarkably versatile to use.

Hand Brushes with Plastic Body

The remarkable feature of these hand brushes is their plastic body of PP (polypropylene) which makes them the perfect tool for the food industry.

Hand Brushes with

Two-Components Handles apply to other requirements of modern high quality tools with best ergonomics.

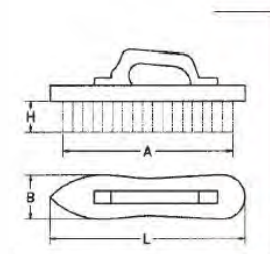
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Electrolux Bitola

Special Models



Special Hand Brushes

Filling	Rows	L mm/inch	B mm/inch	A mm/inch	H mm/inch	Pack.	Art. No.
Hand Brushes Rectangular and Violin							
1 steel straight 0.40/0.016"	6 x 19	185 / 7 1/4	57 / 2 1/4	175 / 7	30 / 1 1/4	12	140.201
steel straight 0.40/0.016"	6 x 19	185 / 7 1/4	57 / 2 1/4	175 / 7	45 / 1 3/4	12	140.211
2 steel straight 0.40/0.016"	5	200 / 8	60 / 2 3/8	190 / 7 1/2	35 / 1 1/2	16	141.231
steel straight 0.40/0.016"	5	200 / 8	55 / 2 1/4	170 / 6 5/8	40 / 1 3/8	12	140.601
3 brass steel 0.35/0.014"	5	200 / 8	55 / 2 1/4	170 / 6 5/8	40 / 1 3/8	12	140.641
Hand Brushes with Bracket							
4 steel straight 0.40/0.016"	5	225 / 9 *	55 / 2 1/4	200 / 8	38 / 1 1/2	16	140.901
steel straight 0.40/0.016"	5	225 / 9 *	55 / 2 1/4	200 / 8	38 / 1 1/2	75	140.900
5 brass steel 0.35/0.014"	5	225 / 9 *	55 / 2 1/4	200 / 8	38 / 1 1/2	16	140.811
Hand Brushes with Strap							
6 steel straight 0.50/0.020"	7	200 / 8	70 / 2 3/4	185 / 7 1/2	35 / 1 1/2	12	141.421

* with adjustable board

Hand Brushes Rectangular and Violin

There are many filling wires in these stable universal brushes.

Hand Brushes with Bracket

The wooden body is pointed to the front end, the plastic bracket is nailed on. The models 140.900 and 140.901 have an adjustable stock board which enables an adjustment to brush firmness.

These special models are mainly ordered by our export customers.

Hand Brushes, Heavy Duty

These models have a larger wooden

handle and a longer and denser wire filling than our standard models.

Universal Wire Brushes

For many uses, especially in the Do It Yourself section.

File Cleaners

The brushes for cleaning wood and metal files are available in different sizes and with different file card. The file card is glued on to the wooden body.

File Card in Rolls

Various roughing-up tools can be manufactured with this material, which is also available in different

sizes and filling materials. Available in meters or if required in single pieces.

Bricklayer's Brushes

For pre and retreatment of brickwork for painters and bricklayers. All models have a jute or plastic strap.

Plasterer's Brushes

These are for roughening and structuring of plaster. Body is made of beech wood, the steel pins are hardened. Model 061.111: the outer steel pins are obliquely arranged in order to reach into corners.

Spiked Rollers

For use before the removal of wall-paper. The spiked roller perforates the paper allowing absorption of stripping solvent. The roller is of plastic with the steel pins obliquely arranged to ensure maximum efficiency in use. The handle can be made longer with customised telescopic handles. For safety the roller is supplied with a protective cover.

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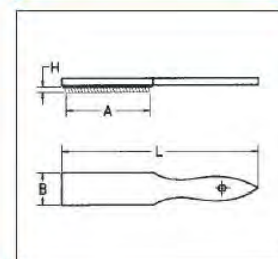
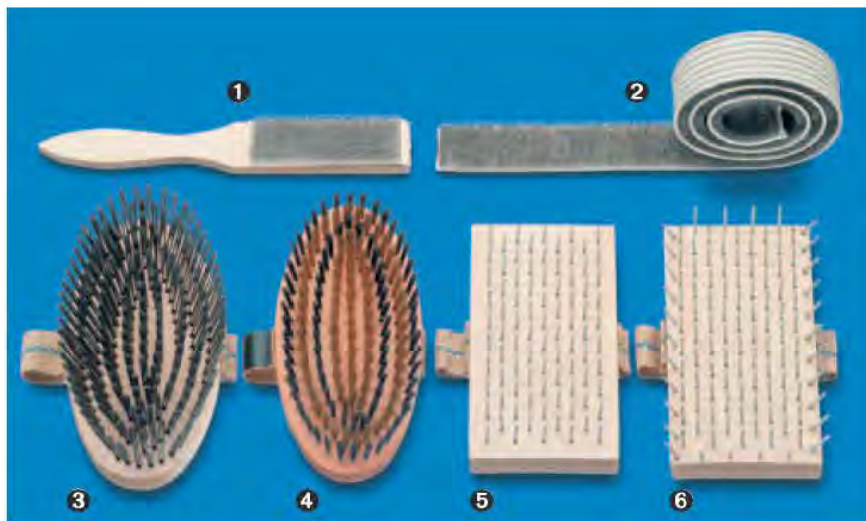
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Special Models



1 File Cleaners

File Card	L mm/inch	B mm/inch	A mm/inch	Pack.	Art. No.
steel	210 / 8 1/4	25 / 1	100 / 4	12	037.101
steel	210 / 8 1/4	25 / 1	100 / 4	100	037.100
steel	250 / 10	40 / 1 3/8	115 / 4 1/2	12	037.201
steel	250 / 10	40 / 1 3/8	115 / 4 1/2	100	037.200
bronze wire	250 / 10	40 / 1 3/8	115 / 4 1/2	12	037.211
stainless	250 / 10	40 / 1 3/8	115 / 4 1/2	12	037.221

2 File Cards

Filling, without interval	steel width 25/1 Art. No.	steel width 38/1 1/2 Art. No.	steel width 51/2 Art. No.	stainless 38/1 1/2 Art. No.	bronze 38/1 1/2 Art. No.
	000.311	000.321	000.331	000.323	000.326 *

* Price per meter. Please indicate length.

Bricklayer's Brushes with Strap

Filling	Rows	L mm/inch	B mm/inch	A mm/inch	H mm/inch	Pack.	Art. No.
3 steel 0.25/0.010"	9	210 / 8 1/4	100 / 4	200 / 8	35 / 1 1/2	12	142.101
4 brass crimped 0.20/0.008" / PPN	9	210 / 8 1/4 *	95 / 3 3/4	200 / 8	20 / 3/4	12	142.211

* Wooden body varnished

Plasterer's Brushes

Filling	L mm/inch	B mm/inch	A mm/inch	H mm/inch	Pack.	Art. No.
5 86 steel Pins hardend	190 / 7 1/2	97 / 3 3/4	165 / 6 1/2	16 / 5/8	12	061.101
6 114 steel Pins hardend / outer row slanting	190 / 7 1/2	97 / 3 3/4	190 / 7 1/2	16 / 5/8	12	061.111

7 Spiked Rollers

Filling	Rows	L mm/inch	B mm/inch	A mm/inch	H mm/inch	Pack.	Art. No.
steel Pins on plastic roller, with Protective Cover	12	290 / 11 3/8	25 / 1	148 / 5 7/8	7 / 1/4	10	064.050

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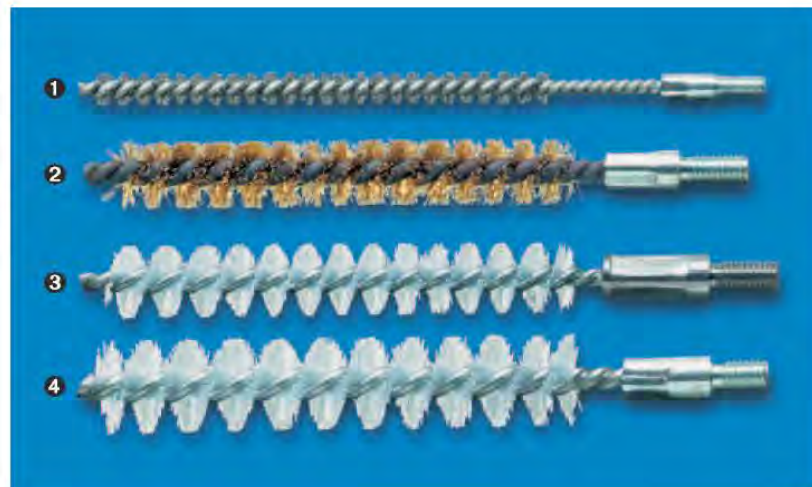
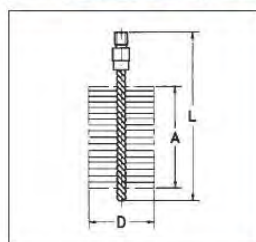
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Electrolux Bitola

Interior Brushes



Tube Brushes with external Thread

D	L	A	Thread	Pack.	1 Single Spirale steel Art. No.	2 Single Spirale stainless Art. No.	3 Single Spirale brass Art. No.	4 Single Spirale nylon Art. No.	Double Spirale steel Art. No.
mm/inch	mm/inch	mm/inch							
6 / 1/4	115 / 4 1/2	80 / 3	M 4	10	501.301	501.501	501.701	501.801	
8 / 5/16	115 / 4 1/2	80 / 3	M 6	10	500.308	500.508	500.708	500.808	
10 / 3/8	115 / 4 1/2	80 / 3	M 6	10	500.310	500.510	500.710	500.810	
12 / 1/2	115 / 4 1/2	80 / 3	M 6	10	500.312	500.512	500.712	500.812	
13 / 1/2	115 / 4 1/2	80 / 3	M 6	10	500.313	500.513	500.713	500.813	
14 / 1/2	115 / 4 1/2	80 / 3	M 6	10	500.314	500.514	500.714	500.814	
15 / 5/8	115 / 4 1/2	80 / 3	M 6	10	500.315	500.515	500.715	500.815	
16 / 5/8	115 / 4 1/2	80 / 3	M 6	10	500.316	500.516	500.716	500.816	
18 / 5/8	115 / 4 1/2	80 / 3	M 6	10	500.318	500.518	500.718	500.818	
19 / 3/4	115 / 4 1/2	80 / 3	M 6	10	500.319	500.519	500.719	500.819	
20 / 3/4	115 / 4 1/2	80 / 3	M 6	10	500.320	500.520	500.720	500.820	
20 / 3/4	150 / 6	100 / 4	W 3/8	10	502.120	502.420	502.720	502.820	522.120
22 / 7/8	150 / 6	100 / 4	W 3/8	10	502.122	502.422	502.722	502.822	522.122
25 / 1	150 / 6	100 / 4	W 3/8	10	502.125	502.425	502.725	502.825	522.125
28 / 1	150 / 6	100 / 4	W 3/8	10	502.128	502.428	502.728		522.128

Interior Brushes

These brushes are varied for many different uses: not only for cleaning of tubes, gratings, sleeves and cylinders. Interior brushes regulate current velocity in tubing systems. They are similar to the double spiral tube brushes for deburring cross drillings etc.

On this page are shown standard brushes, single spiral having two drilling wires and the double spiral having four.

Handles and Extension Pieces
See page 51.

All the shown tube brushes are available in every other diameter.

All tube and boiler brushes are delivered with other standard threads subject to production facilities.

Sleeve Brushes (Page 47)

Sleeve brushes have a double spiral and are particularly stable types of tube brushes whose trimming is cut to a conical point. Used in machines they are beneficial for cleaning the sleeves (internal threads) of containers, e.g. after galvanisation.

Recommendation for users:

When using twisted brushes on machines please use only in a clockwise running direction. Failure to do so may cause the brush wire to open up.

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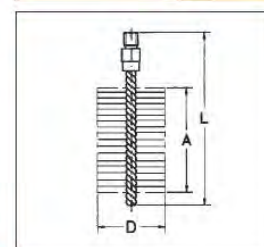
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Tube/Sleeves Brushes



Tube Brushes with external Thread

D	L	A	Thread	Pack.	Single Spirale steel Art. No.	Single Spirale stainless Art. No.	Single Spirale brass Art. No.	Single Spirale nylon Art. No.	Double Spirale steel Art. No.
mm/inch	mm/inch	mm/inch							
30 / 1 1/4	160 / 6 3/8	100 / 4	W 1/2	10	506.130	506.430	506.730	506.830	526.130
32 / 1 1/4	160 / 6 3/8	100 / 4	W 1/2	10	506.132	506.432	506.732	506.832	526.132
35 / 1 1/4	160 / 6 3/8	100 / 4	W 1/2	10	506.135	506.435	506.735	506.835	526.135
38 / 1 1/2	160 / 6 3/8	100 / 4	W 1/2	10	506.138	506.438	506.738	506.838	526.138
40 / 1 1/2	160 / 6 3/8	100 / 4	W 1/2	10	506.140	506.440	506.740	506.840	526.140
44 / 1 3/4	160 / 6 3/8	100 / 4	W 1/2	5	506.144	506.444	506.744	506.844	526.144
50 / 2	160 / 6 3/8	100 / 4	W 1/2	5	506.150	506.450	506.750	506.850	526.150
57 / 2 1/4	160 / 6 3/8	100 / 4	W 1/2	5	506.157	506.457	506.757	506.857	526.157
63 / 2 1/2	160 / 6 3/8	100 / 4	W 1/2	5	506.163	506.463	506.763	506.863	526.163
69 / 2 3/4	160 / 6 3/8	100 / 4	W 1/2	5	506.169	506.469	506.769	506.869	526.169
75 / 3	160 / 6 3/8	100 / 4	W 1/2	5	506.175	506.475	506.775	506.875	526.175
82 / 3 1/4	160 / 6 3/8	100 / 4	W 1/2	1	506.182	506.482	506.782		526.182
88 / 3 3/8	160 / 6 3/8	100 / 4	W 1/2	1	506.188	506.488	506.788		526.188
94 / 3 5/8	160 / 6 3/8	100 / 4	W 1/2	1	506.194	506.494	506.794		526.194
101 / 4	160 / 6 3/8	100 / 4	W 1/2	1	506.101	506.401	506.701	506.801	526.101
125 / 5	160 / 6 3/8	100 / 4	W 1/2	1	506.106				526.106
150 / 6	160 / 6 3/8	100 / 4	W 1/2	1	506.211				
200 / 8	160 / 6 3/8	100 / 4	W 1/2	1	506.220				

Tube Brushes with internal Thread

90 / 3 1/2	160 / 6 3/8	100 / 4	M 10	10	507.190				
120 / 4 3/4	160 / 6 3/8	100 / 4	M 10	10	507.105				506.805.60
20x30 / 3 4x3 1/4	140 / 5 1/2	80 / 3 1/4	M 10	10	533.405				

Suitable handles (568.501), see page 51

3 Sleeves Brushes Conical, without Thread, Double Spiral

D	L	A	Pack.	steel	D	L	A	Pack.	steel		
mm/inch	mm/inch	mm/inch		Art. No.	mm/inch	mm/inch	mm/inch		Art. No.		
10/20	3/8/3/4	170/6 5/8	100/4	10	549.101	32/42	1 1/4/1 5/8	170/6 5/8	100/4	5	549.105
15/25	5/8/1	170/6 5/8	100/4	10	549.102	40/50	1 3/8/2	170/6 5/8	100/4	5	549.106
20/30	3/4/1 1/4	170/6 5/8	100/4	10	549.103	38/70	1 1/2/2 3/4	170/6 5/8	100/4	5	549.107
25/35	1 1/8/1 3/8	170/6 5/8	100/4	10	549.104	60/95	2 3/8/3 3/4	170/6 5/8	100/4	1	549.108

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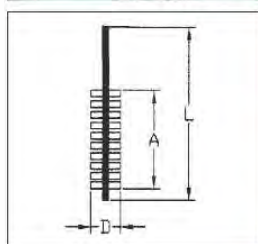
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Interior Brushes



EW Microabrasive Interior Brushes

D mm/inch	L mm/inch	A mm/inch	Shank Ø mm/inch	Pack 	aluminiumoxyd grit 600 Art. No.
3.2 / 1/8	125 / 5	25 / 1	2.2 / 1/12	10	541.084
4.2 / 5/32	125 / 5	25 / 1	2.2 / 1/12	10	541.045
4.8 / 3/16	125 / 5	25 / 1	2.2 / 1/12	10	541.083
5.5 / 7/32	125 / 5	25 / 1	2.2 / 1/12	10	541.079
6.6 / 1/4	125 / 5	25 / 1	2.5 / 1/10	10	541.037
8.2 / 5/16	125 / 5	25 / 1	3 / 1/8	10	541.076
9.8 / 3/8	125 / 5	25 / 1	3 / 1/8	10	541.077
11.5 / 7/16	125 / 5	25 / 1	3.7 / 1/7	10	541.085
13 / 1/2	125 / 5	25 / 1	3.7 / 1/7	10	541.087
16 / 5/8	125 / 5	25 / 1	4.6 / 1/6	10	541.089
20 / 3/4	125 / 5	25 / 1	4.6 / 1/6	10	541.093
25 / 1	125 / 5	25 / 1	6.6 / 1/4	10	541.095

Other diameters, filling materials and grit sizes on request.

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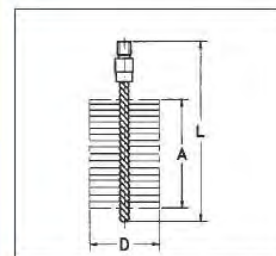
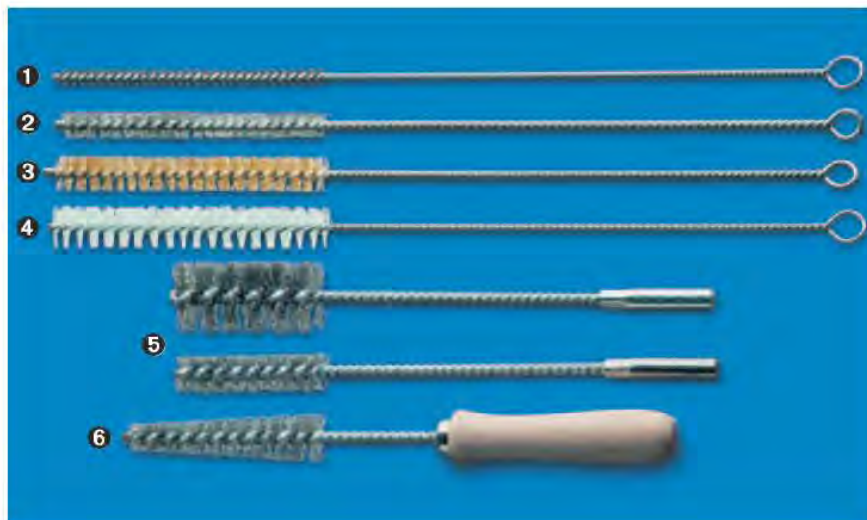
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Cylinder Brushes with Loop

D	L	A	Pack.	1	2	3	4
mm/inch	mm/inch	mm/inch		steel Art. No.	stainless Art. No.	brass Art. No.	nylon Art. No.
3 / 1/8	300 / 12	100 / 4	10	542.381	542.541	542.741	542.881
4 / 1/8	300 / 12	100 / 4	10	542.351	542.508	542.740	542.823
5 / 1/8	300 / 12	100 / 4	10	542.347		542.739	542.822
6 / 1/4	300 / 12	100 / 4	10	542.301	542.501	542.701	542.801
8 / 5/16	300 / 12	100 / 4	10	542.302	542.502	542.702	542.802
10 / 3/8	300 / 12	100 / 4	10	542.303	542.503	542.703	542.803
12 / 3/8	300 / 12	100 / 4	10	542.304	542.504	542.704	542.804
13 / 1/2	300 / 12	100 / 4	10	542.305		542.705	
14 / 1/2	300 / 12	100 / 4	10	542.306		542.706	542.812
15 / 5/8	300 / 12	100 / 4	10	542.307	542.507	542.707	542.807
18 / 5/8	300 / 12	100 / 4	10	542.309		542.709	
20 / 3/4	300 / 12	100 / 4	10	542.311	542.511	542.711	542.811
25 / 1	300 / 12	100 / 4	10	542.313	542.513	542.713	542.813
30 / 1	300 / 12	100 / 4	10	542.315	542.515	542.715	542.815
40 / 1 3/8	300 / 12	100 / 4	10	542.319		542.719	542.819
50 / 2	300 / 12	100 / 4	10	542.320		542.720	542.820
25 x 5 / 1 x 1/8	450 / 17 3/4	80 / 3	10	551.718 *			

* flat filling

5 Cylinder Brushes with Shank 8 mm Ø

D	L	A	Pack.	steel	D	L	A	Pack.	steel
mm/inch	mm/inch	mm/inch		Art. No.	mm/inch	mm/inch	mm/inch		Art. No.
13 / 1/2	200 / 7 7/8	55 / 2 1/4	10	503.311	32 / 1 1/4	200 / 7 7/8	55 / 2 1/4	10	503.316
20 / 3/4	200 / 7 7/8	55 / 2 1/4	10	503.313	38 / 1 1/2	200 / 7 7/8	55 / 2 1/4	10	503.318
26 / 1	200 / 7 7/8	55 / 2 1/4	10	503.314					

Hole cleaning Brushes with Wooden Handle

D	L	A	Pack.	steel	stainless	brass
mm/inch	mm/inch	mm/inch		Art. No.	Art. No.	Art. No.
10 / 3/8	300 / 12	100 / 4	10	560.310	560.510	560.710
15 / 5/8	300 / 12	100 / 4	10	560.315	560.515	560.715
20 / 3/4	300 / 12	100 / 4	10	560.320	560.520	560.720
25 / 1	300 / 12	100 / 4	10	560.325	560.525	560.725
30 / 1 1/4	300 / 12	100 / 4	10	560.330	560.530	560.730
6 10 / 18 / 3/8 / 3/4	200 / 7 7/8	70 / 2 3/4	10	561.304 *		

* conical filling

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Electrolux Bitola

Fitting Brushes



Interior Fitting Brushes

D mm/inch	L mm/inch	A mm/inch	Filling Material	Pack.	Art. No.	D mm/inch	L mm/inch	A mm/inch	Filling Material	Pack.	Art. No.
8 / 5/16	150 / 6	12 / 1/2	stainl. 0.10/0.004"	10	562.508	18 / 3/4	150 / 6	20 / 3/4	stainl. 0.15/0.006"	10	562.518
10 / 3/8	150 / 6	12 / 1/2	stainl. 0.10/0.004"	10	562.510	22 / 7/8	150 / 6	25 / 1	stainl. 0.20/0.008"	10	562.522
12 / 1/2	150 / 6	15 / 5/8	stainl. 0.10/0.004"	10	562.512	28 / 1 1/8	150 / 6	25 / 1	stainl. 0.20/0.008"	10	562.528
15 / 5/8	150 / 6	20 / 3/4	stainl. 0.15/0.006"	10	562.515	35 / 1 3/8	150 / 6	25 / 1	stainl. 0.20/0.008"	10	562.535

Exterior Fitting Brushes

D mm/inch	d mm/inch	Marking	Pack.	Ar. No.	D mm/inch	d mm/inch	Marking	Pack.	Ar. No.
39 / 1 3/8	10 / 3/8	1/4"	6	037.921	48 / 1 7/8	18 / 3/4	5/8"	6	037.924
39 / 1 3/8	12 / 1/2	3/8"	6	037.922	48 / 1 7/8	22 / 7/8	3/4"	6	037.925
42 / 1 5/8	15 / 5/8	1/2"	6	037.923	55 / 2 1/4	28 / 1 1/8	1"	6	037.927

Fitting Brush Set 8 Pieces

	Art. No.
4 interior and exterior brushes each dia 1/2 / 5/8 / 3/4 / 7/8 in a plastic bag	599.908



Fitting Brushes

Now with new designed two-components handle
For the inner cleaning in tubes in gas, water and climatic conditions. We use only stainless steel wire as the filling material for these brushes. This prevents long-term damage by material deposit in tubes. Fitting brushes for exterior cleaning contain a card from steel wire.

Fitting Brush Set

A case of artificial leather that contains the most frequently needed interior and exterior brushes.

Recommendation for users: When using interior fitting brushes, please only use brushes with stainless steel wire. This will avoid pitting by the use of rusting wire parts.

See Page 49:

Cylinder Brushes

For manual cleaning and deburring of tubes, bars etc. Cylinder brushes are also available in other dimensions and materials. When ordering special sizes please mention full specification: total length, filling length, filling material, diameter and quantity.

Hole Cleaning Brushes

These brushes have a wooden handle. The model 561.304 has the filling material conically cut.

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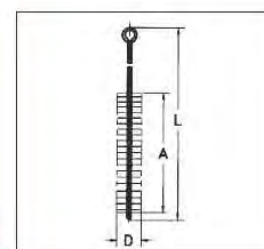
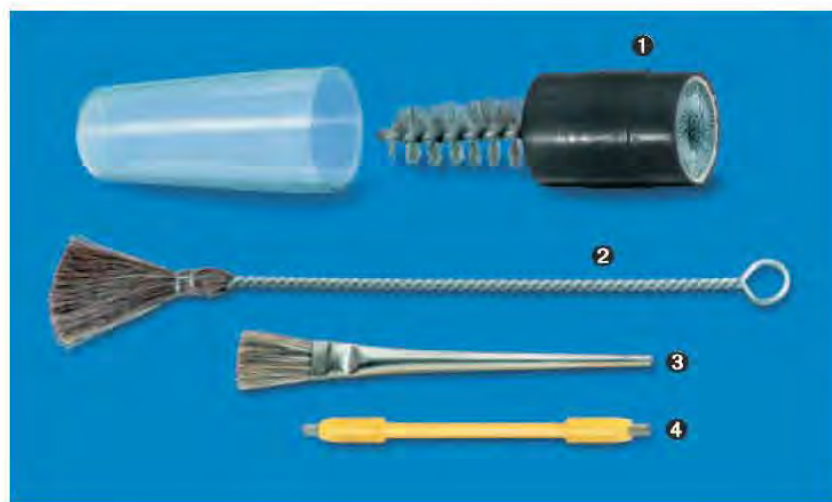
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Electrolux Bitola

Brushes and Scratcher



1 Battery Terminal Brushes

Filling material	D mm/inch	L mm/inch	A mm/inch	Pack.	Art. No.
steel crimped	17/24 5/8 / 1	120/180 4 3/4 / 7	80 / 2 3/8	12	563.301 *

* conical filling

2 Soluble Oil Brushes

Filling material	Bundle mm/inch	L mm/inch	H mm/inch	Pack.	Art. No.
mixed hair	7 / 1/4	150 / 6	40 / 1 3/8	100	570.907
mixed hair	10 / 3/8	240 / 9 1/2	55 / 2 1/4	100	570.910
mixed hair	18 / 3/4	300 / 12	70 / 2 3/4	100	570.918

3 Soldering Fluid Brushes

Filling material	D mm/inch	L mm/inch	H mm/inch	Pack.	Art. No.
bristles	10 / 3/8	123 / 4 7/8	20 / 3/4	100	045.910
bristles	15 / 5/8	140 / 5 1/2	25 / 1	100	045.915

4 Rust Scratcher

Filling material	D mm/inch	L mm/inch	H mm/inch	Art. No.
steel straight 0.23/0.009"	5/8 1/4 / 5/16	100 / 4	6 / 1/4	184.101
steel straight 0.23/0.009" + PP 0.15/0.006"	5/8 1/4 / 5/16	100 / 4	6/15 1/4 / 5/8	184.104

PP = Polypropylene

Soluble Oil Brushes

With twisted wire handle for workshop use.

Soldering Fluid Brushes

The handle is made of tinned metal.

Battery Terminal Brushes

For cleaning of battery terminals. The twisted brush is conical filled for cleaning connection terminals of the battery cable. To clean the battery terminals use the ring-shaped filed cards stuck in the handle.

Miniature Brushes—on request available



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Adresa: ul. Ajdosilol Guslarov 1-a G.T.C. Buntakovec Skopje
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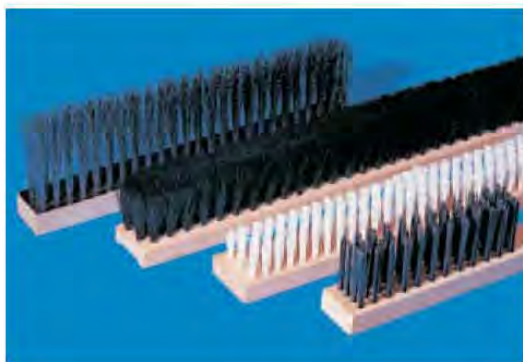
Special Brushes



Punched Brushes

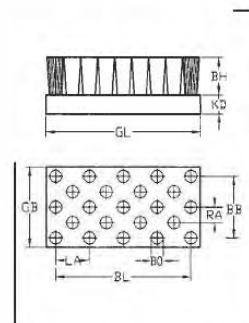
The filling material is anchored in bundles to the brush body. By combining the brush geometry, the body and the filling material there are many possibilities to find the perfect tool for each individual demand.

The pictures on this page are examples of our programme for the industry.



Lath Brushes

They work in machines and are used for clearing, cleaning, insulating and discharging electric charges etc. Various body materials are possible: including wood, metal and plastic. The materials for the bristles can be from the finest horsehair to the firmest steel wire (see page 6). The density of the filling material can be varied by the diameter and the distance of and from the hole.



Required measures and details

GL total length, GB total width, KD thickness of body, BH filling height, BL filling length, BB filled width, RA distance of rows, LA distance of holes, BO bundle bores

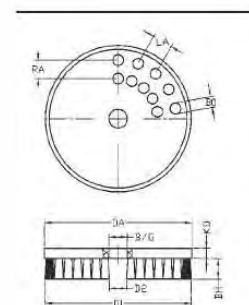
Filling material Steel, steel brass coated, brass, stainless steel, nylon, abrasive nylon (SiC), fibre, horsehair

Body material Plastic, PP, PE, PA, wood, steel, aluminium



Circular Discs

These brushes are especially used for cleaning, polishing or deburring. Their applications are best suited to the treatment of metal, for the cleaning of large surfaces, as used in the construction industry. The body is made of either plastic, wood or metal. The filling material may be chosen according to the task requirements. The density of the filling material can be varied by the diameter and the distance of and from the hole.



Required measures and details

DA Outer diameter, B/G bore/ thread, DK body thickness, BH filling height, DI outer diameter of filling, D2 Interior diameter of filling, RA distance of rows, LA distance of holes, BO bundle bore

Filling material Steel, steel brass coated, brass, stainless steel, nylon, abrasive nylon (SiC), fibre, horsehair

Body material Plastic, PP, PE, PA, wood, steel, aluminium



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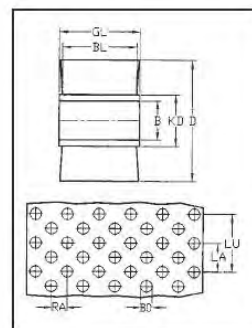
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Special Brushes



Wheel Brushes and Wide Face Brushes

For work without a mechanical load on the brushes: e.g. moistening, cleaning, transporting or grading. The brush body is of wood or plastic. The filling material is determined by the brushes purpose. Please also consider temperature, chemical and mechanical characteristics during use. The density of the filling material can be varied by the diameter and the distance of and from the hole.



Required measures and details

GL total length, BL filling length, B hole, DK diameter of body, D total diameter, RA distance of rows, LU number of hole/row, LA distance of holes,

BO bundle bores

Filling material Steel, steel brass coated, brass, stainless steel, nylon, abrasive nylon (SiC), fibre, horsehair

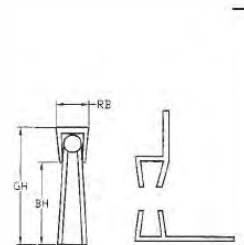
Body material Plastic, PP, PE, PA, wood, steel, aluminium

Strip Brushes



Strip Brushes

Strip brushes are mainly used as cover in association with moving parts. They insulate doors and windows or help to keep moving parts on machines clean. There are many forms and profiles, with or without holders. Therefore, please indicate full measurements and holder details when ordering. The profile can be made of steel, aluminium or plastic. The filling material can be bristles or steel wire (see page 6).



Required measures and details

GH total height, BH filling height, RB body width, KD thickness of body

Filling material

Steel, steel brass coated, brass, stainless steel, nylon, fibre, horsehair

Material of body

Plastic, aluminium

Do you have any questions? If so, please do not hesitate to contact us by phone, fax or email. We will be very pleased to help you. On request, our technicians can advise you personally.

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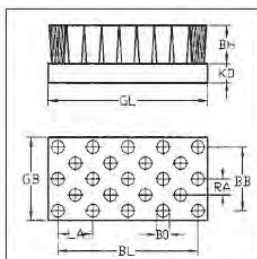


drawing/description of application

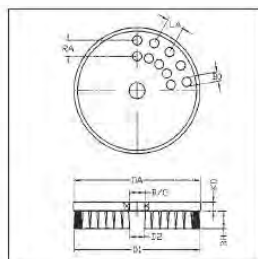
- ☐ rusting
- ☐ removing paint
- ☐ deburring
- ☐ cleaning
- ☐ roughening/structuring
- ☐ working on welds
- ☐ insulation
- ☐ others

☐ steel
☐ aluminium
☐ wood
☐ stainless steel
☐ plastic
☐ others

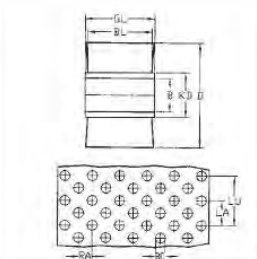
○ Lath Brushes



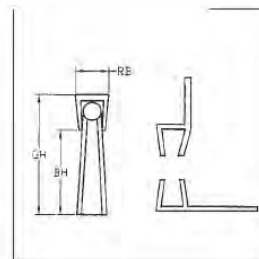
○ Circular Discs



○ Wheel-and-Wide Face Brushes



○ Strip Brushes



Please mention measurement acc. to drawing

- ☐ steel
- ☐ brass coated steel
- ☐ brass
- ☐ stainless steel

- ☐ nylon
- ☐ abrasive nylon
- ☐ fibre
- ☐ horsehair

☐ plastic ☐ wood
☐ PP ☐ steel
☐ PE ☐ aluminium
☐ PA

sender: company, contact person

More information required?
e-mail: info@lessmann.com

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Enquiry for Special Tool Brushes and their Application

- ☐ steel
- ☐ aluminium
- ☐ wood
- ☐ stainless steel
- ☐ plastic
- ☐ others

H= _____ A= _____ L= _____

☐ peripheral speed _____
☐ max. diameter _____[mm]
☐ max. width _____[mm]

Please fax this form to:

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General Conditions of Sale and Delivery

Dear customer, you can find the full version of our general conditions under:

The most important conditions are:

1. Scope

Our general conditions of sale apply exclusively; we do not acknowledge any conditions of the customer which are contrary to or deviate from our general conditions of sale, unless we explicitly consented in writing to their validity.

All agreements reached between us and the customer for the purpose of carrying out this contract must be made in writing. This applies also to offers and orders which were agreed with our sales representatives.

Our general conditions of sale shall apply only to commercial businesses, not to private consumers.

2. Offer

All prices contained in an offer are subject to alterations. The prices are valid as fixed prices for 6 months, only after acknowledgement of the order. We reserve rights of ownership and copyrights in diagrams, drawings, design worksheets and other documents; they must not be made accessible to third parties.

3. Prices - Terms of Payment

All prices are in € (EUR), ex works netting, exclusive costs of packaging. Our prices do not include Value-Added Tax. Unless stated otherwise in the acknowledgement of the order we grant 2% cash discount on payments in cash made within 10 days after the date of the invoice, payment shall be made within 30 days from the date of the invoice. In case of a delayed payment, we are entitled to demand interest at a rate of 4% p.a. above the actual basis rate of the EZB.

6. Reservation of Ownership

The customer shall obtain ownership of the delivered products only after we have received all payments from the business relationship with the customer.

In the event of seizures or other actions by third parties, the customer shall inform us thereof immediately in writing. As far as the third party is not able to reimburse our total costs of legal action in accordance with paragraph 771 of the Code of Civil Procedure, the customer shall reimburse us the loss.

The customer is entitled to sell the products. The customer shall assign all rights and titles arising from the further sale to us regardless of whether the products have been processed or not. The customer remains entitled to collect the payments from the sales. We shall not collect any payments except the customer is behind with payments and/or has gone bankrupt and/or has stopped payments. Any processing, marking or other changes of the products by the customer shall be done on our behalf. If we have to take back the products, the customer shall give us the name and address of the customer who wished the products to be processed, marked or changed. We shall, at the request of customer, release our rights and titles up to the amount which exceeds 20% of the value of our payment claim to be protected. The selection of the rights and titles to be released shall be at our discretion.

7. Place of Jurisdiction - Place of Performance - Law

Place of jurisdiction shall be the place of our office. We also may take proceedings against the customer at the place of its office. Our office is the place of performance, unless our acknowledgement of the order stated something different. The laws of the apply. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply.

8. Miscellaneous

Special designs can not be taken back. Our deliveries may deviate from the agreed volume by +/- 15%. The minimum order value, as well as extra payments for small volume purchases, are fixed in the actual price list.

Quantities deviating from the standard packet will be increased or decreased to the corresponding standard packet, otherwise extra payments per incomplete packet will be charged in accordance with the actual price list.

Minimum order value:

For stock articles (bold printed articles): net € 100,00
For special production and light printed articles: net € 250,00 / article
Extra payment for incomplete packets: net € 2,50

We reserve the right to change the construction and design of the brushes in the course of further technical developments. Information to measurements are approximate and not binding. All measurements are in mm.

Ovo je crtez e sopshtvenost na Electrolux-Bitola. Bez negovo pismeno odobruvanje isti ot nesmee da se prepisuva, umozuva niti kopira bez soglasnost od Electroluks vo sprotivno se snosat posledici vo smislana clenovite 163 i 164 od krivicniot zakon R.M. (povreda na avtorsko pravo)

Adresa: ul. Braќa Minќovi br.18, Stipara Cariiќa Bitola
Adresa: ul. Aјosћil Gueclarov 1-a G.T.C. Buiјakovec Skopje
Tel/Faks: 047/203-900; 203-330; 070/237-108
Tel/Faks: 02/329 8 130; 070/237 198
www.elektroluks.com.mk, electrolux@mt.net.mk

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