



# Tools for High-Speed Machines

Product Catalog



## Osborn worldwide



Osborn offers the best solutions for your mechanical surface treatment challenges. Our experts are highly trained to serve you with the best off-the-shelf or customized tools, when and where you need them. Unlike others, we help you optimize your process, meet the highest quality and safety requirements and reduce your costs.

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## General Information

For efficient and safe deployment, always select the maximum possible brush diameter that can be fitted on the drive unit.

Because the circumferential speed is defined by the brush diameter, as mentioned above under working speeds, the performance of a brush can also be changed with this factor.

The following table provides an overview:

### Remember the following before fitting a brush:

- The speed of the drive shaft of your machine must not exceed the maximum safety speed of the brush.
- The length of the drive shaft must fit firmly in the chuck.
- Brushes with clamp shaft can easily be fitted into standard drill chucks or collet chucks.
- The connecting threads of brushes have spanner flats, guaranteeing easy fitting and removal.

RPM min-1	Brush diameters (in mm)											
	20	40	50	80	100	125	150	180	200	250	300	350
800				3.35	4.19	5.23	6.28	7.53	8.37	10.47	12.56	14.75
900			2.35	3.77	4.71	5.88	7.06	8.48	9.41	11.77	14.12	16.47
1,150			3.01	4.81	6.01	7.52	9.02	10.83	12.03	15.04	18.04	21.04
1,200	1.25	2.51	3.14	5.02	6.28	7.85	9.41	11.30	12.55	15.69	18.83	21.97
1,400	1.46	2.93	3.66	5.86	7.32	9.15	10.98	13.18	14.64	18.31	21.97	25.63
1,500	1.57	3.14	3.92	6.28	7.85	9.81	11.77	14.13	15.69	19.61	23.54	27.46
1,800	1.88	3.77	4.71	7.54	9.41	11.77	14.12	16.95	18.83	23.54	28.24	32.95
2,000	2.09	4.19	5.23	8.37	10.26	13.08	15.69	18.84	20.92	26.15	31.38	36.61
2,500	2.62	5.23	6.54	10.47	13.08	16.35	19.61	23.55	26.15	32.67	39.23	45.76
2,800	2.93	5.86	7.32	11.72	14.64	18.31	21.97	26.37	29.29	36.61	43.93	51.25
3,000	3.14	6.28	7.85	12.56	15.69	19.62	23.54	28.26	31.38	39.23	47.07	54.92
3,200	3.35	6.70	8.37	13.40	16.74	20.92	25.10	30.14	33.47	41.84	50.12	58.58
3,500	3.66	7.33	9.15	14.65	18.31	22.89	27.46	32.97	36.61	45.76	54.92	64.07
4,000	4.19	8.37	10.46	16.75	20.92	26.16	31.38	37.68	41.84	52.33	62.76	73.22
4,500	4.70	9.42	11.77	18.84	23.54	29.43	35.30	42.40	47.07	58.84	70.61	82.43
5,000	5.23	10.47	13.08	20.93	26.15	32.70	39.23	47.10	52.33	65.38	78.50	
5,400	5.65	11.30	14.12	22.94	28.24	35.31	42.36	50.67	56.48	70.61	84.78	
6,000	6.28	12.56	15.69	25.12	31.38	39.24	47.07	56.52	62.76	78.50		
7,000	7.33	14.66	18.31	29.31	36.61	45.78	54.92	65.94	73.22	91.58		
8,000	8.37	16.75	20.92	33.94	41.48	52.32	62.76	75.36	83.73			
9,000	9.42	18.84	23.54	37.68	47.07	58.86	70.61	84.78	94.20			
10,000	10.47	20.93	26.17	41.86	52.33	65.40	78.50	94.20				
12,500	13.08	26.17	32.71	52.33	65.42	81.75	98.13					
15,000	15.70	31.40	39.25	62.80								
17,500	18.32	36.63	45.79	73.26								
20,000	20.93	41.87	52.33	83.73								
22,500	23.55	47.10	58.88	94.20								
25,000	26.17	52.33	65.42	104.66								

## Technical information & safety information for brushes



### Working and clamping width of a brush

The working width defines the contact surface between brush and workpiece. To measure the working width, gently press together the trim area. The clamping width is measured between the cover plates. For products without cover plates, the clamping width corresponds to the body width.



### Working and safety speeds

The maximum safety speed must be observed in line with workplace safety requirements. Information is in the product overview in this catalogue, on the packaging and on the brush itself (see picture). The working speed is defined by factors circumferential speed and brush diameter. The optimum working speed is generally far below the safety speed.



### Brush diameter and trim length

The diameter of the brush (body of the brush) and the length of the respective trim are the determining factors for the working characteristics of the brush. Generally applicable:

- **Soft, flexible brushes,**  
e.g. for working with textured workpieces and for gentle surface finishing.
- **More aggressive brushes,**  
e.g. for deburring or removing dirt.



### Optimal positioning of the brush in relation to the workpiece

One of the factors defining the contact pressure of a brush is its penetration depth at the workpiece. Never press a brush into the workpiece and only work with the tips of the filament. Excessive contact pressure lowers the brush performance and expedites wear. For manually operated machines, the recommendation is to only work with the weight of the machine. For an abrasive trim, a filament diameter of 3 times applies, e.g. 1.0 mm penetration depth for a filament diameter of 0.35 mm.

We will be glad to help out if you have questions.



### Filament density of brushes

The filament density is determined by the number of filament tips per surface unit. High filament densities optimise cutting performance and useful lives (for deburring work for example). Lower filament densities increase the flexibility of the brushes and are the prerequisite for processing strongly profiled surfaces.

## Fill Materials. Types and Usage.

For our tools, we only use filling materials developed in our house or selected specially. Regular quality tests in our R&D labs guarantee highest material quality at all times. Below you find pictures of all the facing materials used for the tools in this catalog. The table shows the properties of all fill materials used by Osborn.



Steel wire



Stainless steel wire



Osborn special steel wire



Brass-coated steel wire



Brass wire

Material	Property	Additional Properties	Benefits	Used on
Steel wire	straight or flat	Most common trim material for brushes	<ul style="list-style-type: none"> <li>Dimensionally stable</li> <li>Diversity of applications</li> </ul>	Steel, cast iron, softwood, hardwood
	crimped			Steel, cast steel
	knotted			
Stainless steel wire	straight	Standard alloys: 1.4310 and 1.4401 (1.4571 on request)	<ul style="list-style-type: none"> <li>Usage in particular where residues of steel wires would adversely affect the surface (such as rust spots)</li> </ul>	Stainless steel, non-ferrous metals, aluminium
	crimped			
	knotted			
Osborn special steel wire	straight		<ul style="list-style-type: none"> <li>High-performance wire with high tensile strength</li> <li>Long service life</li> <li>For extreme brush applications</li> </ul>	Steel, cast iron, softwood, hardwood
	crimped			
	knotted			
XTREME wire (steel wire)	stranded		<ul style="list-style-type: none"> <li>Extremely long life</li> <li>Combines the benefits of crimped and knotted wire</li> </ul>	Steel, cast iron, softwood, hardwood
Brass-coated steel wire	Mono wire	stranded	<ul style="list-style-type: none"> <li>High tensile strength</li> </ul>	Steel, cast iron, softwood, hardwood
	Cordwire		<ul style="list-style-type: none"> <li>Particularly well suited to texturing wood</li> </ul>	
Brass wire	crimped			Non-ferrous metals, softwood



## General Information



Abrasive bristle

Novofil®

Material	Property	Additional Properties	Benefits	Used on
Synthetic bristles	straight		<ul style="list-style-type: none"> <li>■ Abrasion-resistant</li> <li>■ Resistant to weak acids and bases</li> <li>■ Flexible</li> </ul>	Steel, cast iron, stainless steel, non-ferrous metals, aluminium
Abrasive bristle	Aluminium oxide	Nylon threads with aluminium oxide; <b>red</b> trim material	<ul style="list-style-type: none"> <li>■ High elasticity without risk of breakage</li> <li>■ Uniform abrasive effect</li> </ul>	Steel, cast iron, stainless steel, non-ferrous metals, aluminium, wood
	Silicone carbide	Nylon threads with silicone carbide; <b>blue</b> trim material.	<ul style="list-style-type: none"> <li>■ High elasticity without risk of breakage</li> <li>■ Uniform abrasive effect</li> </ul>	
	Ceramic, sintered twice	Aluminium oxide sintered twice; available in different hardness grades, light grey trim material	<ul style="list-style-type: none"> <li>■ Particularly hard and aggressive abrasive grit</li> <li>■ The abrasive grit released during brushing has a better breaking edge and makes possible faster, more efficient deburring</li> <li>■ Perfect results through uniform, homogeneous abrasive effect</li> </ul>	Steel, cast iron, stainless steel, non-ferrous metals, aluminium
Novofil®	round	High temperature resistance; available with different hardness, grit and filament thicknesses; abrasive can be made of chromium oxide, silicone carbide, aluminium oxide, zirconium, diamond or nylon resistant to extreme heat.	<ul style="list-style-type: none"> <li>■ High flexibility and trim density, prolonged life</li> <li>■ For working with workpieces particular high in contours</li> </ul>	Steel, cast iron, stainless steel, non-ferrous metals, aluminium
	flat		<ul style="list-style-type: none"> <li>■ Very high abrasive grit content, higher removal rate (approx. 50% lower processing time)</li> <li>■ Ideal for honing</li> </ul>	
Novoflex-B®	spherical	Trim material with aluminium oxide or silicone carbide; grit sizes from 60 to 400 possible	<ul style="list-style-type: none"> <li>■ Abrasive balls on flexible design</li> <li>■ Tool is self-centring</li> </ul>	Steel, cast iron, stainless steel, non-ferrous metals, aluminium

## High Speed Machines

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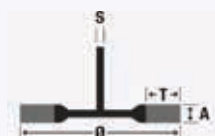


# High Speed Machines

## Wheel Brushes



Appearance can vary from picture depending on variant.



EUPBWB010 | SUPERIOR ★★☆☆☆

## Wheel brushes, crimped wire

**Crimped wheel brush, industrial quality, for use on power drills and high-speed machines.**

- Thanks to a number of selectable trim materials and brush diameters there is a brush for every application
- Small brush diameter enables access to difficult to reached places
- Also suitable for use on high-speed machines
- TÜV-Süd certified (safety tested, production monitored)

**Application:** Edge honing, finishing bores, deburring and minor cleaning work.

Available on a practical display card with Eurostandard hole for ideal presentation at the POS.



Ø	A	T	S	RPM max.	DU	PKG.	Steel 0.15	Steel 0.20	Steel 0.30
20	6	4	6	20000	10		● 0002-501 132	● 0002-501 142	
20	9	4	6	20000	10			● 0002-501 143	
30	6	6	6	20000	10			● 0002-502 141	
30	9	6	6	20000	10		● 0002-502 132	● 0002-502 142	
30	12	6	6	20000	10			● 0002-502 143	
40	7	10	6	18000	10			● 0002-503 141	
40	11	10	6	18000	8	POS Card		● 7002-503 142	
40	11	10	6	18000	10		● 0002-503 132	● 0002-503 142	
40	16	10	6	18000	10			● 0002-503 143	
50	10	13	6	15000	10			● 0002-504 141	● 0002-504 161
50	17	13	6	15000	6	POS Card		● 7602-504 142	
50	17	13	6	15000	10		● 0002-504 132	● 0002-504 142	● 0002-504 162
50	23	13	6	15000	10			● 0002-504 143	● 0002-504 163
60	12	15	6	15000	10			● 0002-505 141	● 0002-505 161
60	18	15	6	15000	6	POS Card		● 7002-505 142	● 7002-505 162
60	18	15	6	15000	10		● 0002-505 132	● 0002-505 142	● 0002-505 162
60	23	15	6	15000	10			● 0002-505 143	● 0002-505 163
70	11	15	6	15000	10			● 0002-506 141	● 0002-506 161
70	18	15	6	15000	6	POS Card			● 7602-506 162
70	18	15	6	15000	10		● 0002-506 132	● 0002-506 142	● 0002-506 162
70	23	15	6	15000	10			● 0002-506 143	● 0002-506 163
80	19	20	6	12000	10			● 0002-507 142	
80	19	20	6	15000	6	POS Card			● 7002-507 162
80	19	20	6	15000	10				● 0002-507 162

more on next page →

## Wheel Brushes

∅	A	T	S	RPM max.	DU	PKG.	INOX 0.15	INOX 0.20	INOX 0.30
20	6	4	6	20000	10			● 0002-501 342	
20	9	4	6	20000	10			● 0002-501 343	
30	6	6	6	20000	10			● 0002-502 341	
30	9	6	6	20000	10		● 0002-502 332	● 0002-502 342	
30	12	6	6	20000	10		● 0002-502 333	● 0002-502 343	
40	7	10	6	18000	10		● 0002-503 331	● 0002-503 341	
40	11	10	6	18000	10		● 0002-503 332	● 0002-503 342	
40	11	15	6	18000	8	POS Card		● 7002-503 342	
40	16	10	6	18000	10		● 0002-503 333	● 0002-503 343	
50	10	13	6	15000	10			● 0002-504 341	● 0002-504 361
50	17	13	6	15000	6	POS Card		● 3002-504 342	● 7002-504 362
50	17	13	6	15000	10		● 0002-504 332	● 0002-504 342	● 0002-504 362
50	23	13	6	15000	10			● 0002-504 343	● 0002-504 363
60	12	15	6	15000	10			● 0002-505 341	● 0002-505 361
60	18	15	6	15000	6	POS Card		● 7002-505 342	● 7002-505 362
60	18	15	6	15000	10		● 0002-505 332	● 0002-505 342	● 0002-505 362
60	23	15	6	15000	10			● 0002-505 343	● 0002-505 363
70	11	15	6	15000	10			● 0002-506 341	● 0002-506 361
70	18	15	6	15000	6	POS Card			● 7002-506 362
70	18	15	6	15000	10		● 0002-506 332	● 0002-506 342	● 0002-506 362
70	23	15	6	15000	10			● 0002-506 343	● 0002-506 363
80	10	20	6	15000	10				● 5162-507 361
80	12	20	6	15000	10				● 0002-507 361
80	19	20	6	15000	6	POS Card		● 7002-507 342	● 7002-507 362
80	19	20	6	15000	10			● 0002-507 342	● 0002-507 362

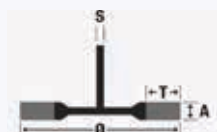
∅	A	T	S	RPM max.	DU	PKG.	Brass 0.20		
20	9	4	6	20000	10		● 0002-501 542		
30	9	6	6	20000	10		● 0002-502 542		
40	11	10	6	18000	10		● 0002-503 542		
50	17	13	6	15000	10		● 0002-504 542		
60	18	15	6	15000	6	POS Card	● 7002-505 542		
60	18	15	6	15000	10		● 0002-505 542		
70	18	15	6	15000	6	POS Card	● 7002-506 542		
70	18	15	6	15000	10		● 0002-506 542		
80	19	20	6	15000	10		● 0002-507 542		

# High Speed Machines

## Wheel Brushes



Appearance can vary from picture depending on variant.



EUPBWB009 | SUPERIOR ★★☆☆☆

## Wheel brushes, knotted wire

**Knotted wheel brush, industrial quality, for use on power drills and high-speed machines.**

- Osborn bestseller
- High cleaning performance
- 6 mm shaft enables simple mounting
- Also suitable for use on high-speed machines
- TÜV-Süd certified (safety tested, production monitored)

**Application:** Cleaning, deburring, removal of slag and silicates, weld seam finishing, removal of protective undercoating in car workshops.

Available on a practical display card with Eurostandard hole for ideal presentation at the POS.



ø	A	T	S	RPM max.	PKG.	DU	Steel 0.35	Steel 0.50	INOX 0.50
75	8	18	6	20000	POS Card	8		● 7202-611 151	
75	12	15.5	6	20000		12		● 0202-611 151	
75	12	18	6	20000		12	● 0202-611 131		● 0202-611 351
75	12	18	6	20000	POS Card	8			● 7012-611 351



Appearance can vary from picture depending on variant.



EUPBWB030 | XTREME ★★★★★★

## Wheel brushes, Xtreme Wire, crimped

**Wheel brush with shank and crimped Xtreme wire in high-end quality for use on power drills and high-speed machines.**

- Significantly increased service life
- Fine finish
- Low vibration, low noise
- The relatively small diameter enables machining of hard-to-reach places
- Adapts ideally to the workpiece

**Application:** Rounding edges, machining holes, deburring, cleaning

ø	A	T	S	RPM max.	DU	Steel 0.30
50	17	13	6	15000	10	● 3902-504 162
70	18	15	6	15000	10	● 3902-506 162



EUPBWB034 | EVOLUTION ★★★★★

## Ringlock Wheel brushes, abrasive filament

**Ringlock wheel brush, industrial quality, with abrasive silicone carbide trim for attaching to high-speed machines.**

Appearance can vary from picture depending on variant.



- Also suitable for non-ferrous metals and synthetics
- The small diameter enables access to hard to reach areas

**Application:** Deburring, edge rounding and surface finishing, can be used on a large number of materials.

ø	A	T	B	RPM max.	DU	Grit Size	Silicon Carbide 120	Silicon Carbide 180	Silicon Carbide 320
38	10	6	12.7	20000	12	120	● 9906-011 146		
38	10	6	12.7	20000	12	180		● 9906-011 147	
38	10	6	12.7	20000	12	320			● 9906-011 148
50	10	11	15.87	15000	12	120	● 9906-011 149		
50	10	11	15.87	15000	12	180		● 9906-011 150	
50	10	11	15.87	15000	12	320			● 9906-011 151
63	13	17	15.87	15000	12	120	● 9906-011 153		
63	13	17	15.87	15000	12	180		● 9906-011 154	
63	13	17	15.87	15000	12	320			● 9906-011 155

# High Speed Machines

## End Brushes



Appearance can vary from picture depending on variant.



EUPBEB001 | SUPERIOR ★★☆☆☆

## End brushes, crimped wire

**Crimped end brush, industrial quality, for use on high-speed machines and power drills.**

- Flexible trim material, adjusts perfectly to the workpiece
- For pinpoint work in places difficult to access, such as boreholes

**Application:** Rust removal, paint stripping, smoothing, edge rounding, deburring, internal finishing.

ø	T	L	S	RPM max.	DU	Steel 0.20	Steel 0.30	Steel 0.50
10	20	60	6	20000	12	● 0003-509 141	● 0003-509 161	
10	20	65	6	20000	12			● 0003-509 191
17	25	68	6	18000	12	● 0002-509 142		● 0002-509 192
17	25	69	6	18000	8		● 7002-509 162	
17	25	69	6	18000	12		● 0002-509 162	
25	25	75	6	18000	12	● 0002-509 143	● 0002-509 163	● 0002-509 193
30	25	68	6	15000	8		● 7002-509 164	
30	25	68	6	15000	12	● 0002-509 144	● 0002-509 164	● 0002-509 194

ø	T	L	S	RPM max.	DU	INOX 0.20	INOX 0.30	Brass 0.30
10	20	60	6	20000	12	● 0003-509 341	● 0003-509 361	
10	20	65	6	20000	12			● 0003-509 561
17	25	68	6	18000	12	● 0002-509 342	● 0002-509 362	● 0002-509 562
25	25	75	6	18000	12	● 0002-509 343	● 0002-509 363	● 0002-509 563
30	25	68	6	15000	12	● 0002-509 344	● 0002-509 364	● 0002-509 564



EUPBEB006 | SUPERIOR ★★☆☆☆

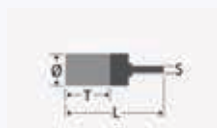
## End brushes, knotted wire

**Knotted end brush, industrial quality, for use on high-speed machines.**

- The diameter of the brush changes with increasing work speed; the brush flares, meaning different bore diameters can be worked on
- TÜV-Süd certified (design tested, production monitored)

**Application:** Rust removal, paint stripping, deburring, weld seams.

Appearance can vary from picture depending on variant.



### Important

The brushes flare when the machine is running (see picture). The table below provides information on the extent of brush flaring in relation to body diameter and rotation speed.

Recommended working speed about 50% of the max. min<sup>-1</sup>

Body Ø	Wire thickness	At speed ≤ min <sup>-1</sup> 5,000	At speed ≤ min <sup>-1</sup> 8,000	At speed ≤ min <sup>-1</sup> 15,000
20	0.26	55	70	75
20	0.35	25	50	70
23	0.26	40	65	75
23	0.35	35	55	70
30	0.26	55	70	85
30	0.35	50	70	80

Ø	T	L	S	RPM max.	DU	Steel 0.25	Steel 0.35	INOX 0.25	INOX 0.35
20	29	72	6	20000	12	● 0002-630 304	● 0002-630 305	● 0002-630 328	
20	29	72	6	22000	8		● 7002-630 305		
23	29	72	6	20000	12	● 0002-630 310	● 0002-630 311	● 0002-630 334	● 0002-630 335
30	29	72	6	20000	12	● 0002-630 316	● 0002-630 317	● 0002-630 340	● 0002-630 341

# High Speed Machines

## End Brushes



Appearance can vary from picture depending on variant.



EUPBEB007 | EVOLUTION ★★★★★

## End brushes, knotted wire

Ruftuf end brushes, high-end quality, with high-performance wire developed by Osborn, for use on high-speed machines.

- High-performance wire developed by Osborn
- Particularly cost-effective, long life, high tensile strength, high breaking strain and short set-up times
- The diameter of the brush changes with increasing work speed; the brush flares, meaning different bore diameters can be worked on
- Aggressive cleaning performance
- TÜV-Süd certified (design tested, production monitored)

**Application:** Rust removal, paint stripping, deburring, weld seams.

**Please note:** Stainless steel variants are degreased



### Important

The brushes flare when the machine is running (see picture). The table below provides information on the extent of brush flaring in relation to body diameter and rotation speed.

Recommended working speed about 50% of the max. min<sup>-1</sup>

Body Ø	Wire thickness	At speed ≤ min <sup>-1</sup> 5,000	At speed ≤ min <sup>-1</sup> 8,000	At speed ≤ min <sup>-1</sup> 15,000
20	0.26	55	70	75
20	0.35	25	50	70
23	0.26	40	65	75
23	0.35	35	55	70
30	0.26	55	70	85
30	0.35	50	70	80

Ø	T	L	S	RPM max.	DU	Steel 0.15	Steel 0.25	Steel 0.35	Steel 0.50
20	29	72	6	20000	12	● 9906-030 302	● 9906-030 304	● 9906-030 305	
23	29	72	6	20000	12	● 9906-030 308	● 9906-030 310	● 9906-030 311	● 9906-030 312
30	29	72	6	20000	12	● 9906-030 314	● 9906-030 316	● 9906-030 317	● 9906-030 318

Ø	T	L	S	RPM max.	DU	INOX 0.15	INOX 0.25	INOX 0.26	INOX 0.35
20	29	72	6	20000	12	● 9906-030 326		● 9906-030 328	● 9906-030 329
23	29	72	6	20000	12	● 9906-030 332	● 9906-030 334		● 9906-030 335
30	29	72	6	20000	12	● 9906-030 338	● 9906-030 340		● 9906-030 341





Appearance can vary from picture depending on variant.



EUPBEB008 | SUPERIOR ★★★★★☆

## End brushes, knotted wire

**Knotted end brush, industrial quality, for use on high-speed machines.**

- Particularly suited for areas extremely difficult to access
- For pinpoint work

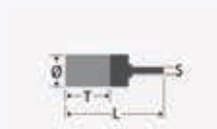
**Application:** Removal of oxide layers and for deburring.

ø	T	L	S	RPM max.	DU	Steel 0.25	Steel 0.35	Steel 0.50
10	26	72	6	4500	12	● 9803-630 151	● 9803-630 171	● 9803-630 101

ø	T	L	S	RPM max.	DU	INOX 0.25	INOX 0.35	INOX 0.50
10	26	72	6	4500	1			● 9803-630 301
10	26	72	6	4500	12	● 9803-630 351	● 9803-630 371	



Appearance can vary from picture depending on variant.



EUPBEB009 | SUPERIOR ★★★★★☆

## End brushes, crimped wire

**Crimped end brush, industrial quality, for use on high-speed machines.**

- Extra long shape
- Can penetrate deep into bores to reach places difficult to access
- Flexible

**Application:** Internal finishing, rust removal, paint stripping, deburring, rounding edges.

ø	T	L	S	RPM max.	DU	Steel 0.20	Steel 0.30	INOX 0.20	INOX 0.30
10	20	118	6	9000	10				● 0003-509 369
10	20	118	6	10000	25		● 0003-509 169		
10	20	120	6	9000	10	● 0003-509 149		● 0003-509 349	

# High Speed Machines

## End Brushes



Appearance can vary from picture depending on variant.



EUPBEB011 | SUPERIOR ★★★★★

### End brushes, crimped wire

**Crimped end brush, industrial quality, for use on high-speed machines.**

- Flexible
- The special shape of the brush means frontal and radial processing is possible in one step

**Application:** Minor cleaning work, removal of corrosion and coating.

ø	T	S	RPM max.	DU	Steel 0.30
50	14	6	18000	5	● 0002-509 165
70	20	6	15000	5	● 0002-509 167

EUPBEB012 | SUPERIOR ★★★★★

### End brushes, crimped wire

**Crimped end brush, industrial quality, for use on high-speed machines.**

- Particularly suited for areas extremely difficult to access
- For pinpoint work
- Adapts very well to the component's outline

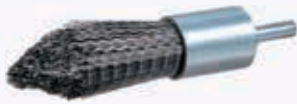
**Application:** Removal of oxide layers, deburring, removal of coatings such as paint and primers.



Appearance can vary from picture depending on variant.



ø	T	L	S	RPM max.	DU	Steel 0.40
8	29	86	6	12000	12	● 0024-509 101
9.5	29	85	6	12000	12	● 0024-509 102
10	27	186	6	12000	6	● 1224-509 101
12	29	88	6	12000	12	● 0024-509 111
12	55	114	6	12000	6	● 0014-509 102
20	25	72	6	12000	6	● 0024-509 103



Appearance can vary from picture depending on variant.



EUPBEB013 | SUPERIOR ★★☆☆☆

## End brushes, straight/crimped wire

**End brush with pointed shape, industrial quality, for use on high-speed machines.**

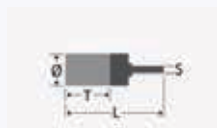
- Particularly aggressive
- For places difficult to access and internal surfaces

**Application:** Removal of burrs, scales, slag, paint, moulding sand and other debris.

ø	T	L	S	RPM max.	DU	Steel 0.40	Steel 0.50	INOX 0.30	INOX 0.50
9.5	32	89	6	12000	12	● 0124-509 101		● 0074-509 301	
10	27	186	6	7000	6	● 2224-509 101			
10	31	87	6	12000	12	● 0224-509 101			
11	32	91	6	12000	6				● 0004-509 302
12	30	89	6	12000	12	● 0124-509 111			
19	31	82	6	12000	6		● 0124-509 103		● 0124-509 303
19	64	115	6	4000	6		● 0024-509 100		
25	35	86	6	12000	6				● 0014-509 304



Appearance can vary from picture depending on variant.



EUPBEB014 | EVOLUTION ★★★★★

## End brushes, abrasive filament

**End brush with abrasive filament in high-end quality for use on high-speed machines and power drills.**

- High flexibility
- Suitable for wet and dry work and long service life given perfect conditions
- Low contact pressure and low build-up of heat
- Resistant to weak acids and bases
- No clogging of the trim surface with working residues

**Application:** Deburring, edge rounding, surface finishing.

ø	T	L	S	RPM max.	DU	Silicon Carbide 120	Silicon Carbide 180	Silicon Carbide 320
10	25	75	6	8000	12	● 9906-030 488	● 9906-030 489	● 9906-030 490
15	25	68	6	5000	12	● 9906-030 492	● 9906-030 493	● 9906-030 494
22	25	75	6	5000	12	● 9906-030 496	● 9906-030 497	● 9906-030 498
28	25	68	6	5000	12	● 9906-030 500	● 9906-030 501	● 9906-030 502

# High Speed Machines

## Flap Wheels



Appearance can vary from picture depending on variant.



EUPSW001 | SUPERIOR ★★☆☆☆

## Flap wheels

Coated abrasive flap wheels with aluminium oxide, industrial quality, for use on high-speed machines.

- Homogeneous pattern
- Adapt perfectly to complex contours
- Small surfaces that are difficult to access can be reached perfectly
- Can be used universally on many different materials

**Application:** Pre-sanding and texturing. Burrs and scratches can be removed. For the surface treatment of almost all parts made of steel, aluminium, non-ferrous metals, wood and hard plastic.

ø	A	S	RPM max.	DU	Aluminium Oxide 40	Aluminium Oxide 60	Aluminium Oxide 80	Aluminium Oxide 120
30	10	6	25400	10	● 0043-003 010	● 0063-003 010	● 0083-003 010	● 0123-003 010
30	15	6	25400	10	● 0043-003 015	● 0063-003 015	● 0083-003 015	● 0123-003 015
40	15	6	19100	10	● 0043-004 015	● 0063-004 015	● 0083-004 015	
40	20	6	19100	10	● 0043-004 020	● 0063-004 020	● 0083-004 020	● 0123-004 020
40	30	6	17000	10	● 0063-004 030	● 0083-004 030		● 0123-004 030
50	15	6	15200	10	● 0043-005 015	● 0063-005 015	● 0083-005 015	● 0123-005 015
50	20	6	15200	10	● 0043-005 020	● 0063-005 020	● 0083-005 020	● 0123-005 020
50	30	6	15200	10	● 0043-005 030	● 0063-005 030	● 0083-005 030	● 0123-005 030
60	20	6	12700	10	● 0043-006 020	● 0063-006 020	● 0083-006 020	● 0123-006 020
60	30	6	12700	10	● 0043-006 030	● 0063-006 030	● 0083-006 030	● 0123-006 030
60	40	6	12700	10	● 0043-006 040	● 0063-006 040	● 0083-006 040	● 0123-006 040
60	50	6	12700	10	● 0043-006 050	● 0063-006 050		
80	30	6	8900	10	● 0043-008 030	● 0063-008 030	● 0083-008 030	● 0123-008 030
80	40	6	8900	10		● 0063-008 040	● 0083-008 040	
80	50	6	8900	10	● 0043-008 050	● 0063-008 050	● 0083-008 050	● 0123-008 050

ø	A	S	RPM max.	DU	Aluminium Oxide 150	Aluminium Oxide 180	Aluminium Oxide 240
30	10	6	25400	10			● 0243-003 010
30	15	6	25400	10	● 0153-003 015		● 0243-003 015
40	15	6	19100	10		● 0183-004 015	● 0243-004 015
40	20	6	19100	10	● 0153-004 020		● 0243-004 020
50	15	6	15200	10	● 0153-005 015		
50	20	6	15200	10	● 0153-005 020		
50	30	6	15200	10	● 0153-005 030	● 0183-005 030	● 0243-005 030
60	20	6	12700	10	● 0153-006 020	● 0183-006 020	● 0243-006 020
60	30	6	12700	10	● 0153-006 030	● 0183-006 030	● 0243-006 030
60	40	6	12700	10	● 0153-006 040	● 0183-006 040	● 0243-006 040
60	50	6	12700	10	● 0153-006 050	● 0183-006 050	● 0243-006 050
80	40	6	8900	10	● 0153-008 040		● 0243-008 040
80	50	6	8900	10		● 0183-008 050	● 0243-008 050



Appearance can vary from picture depending on variant.



EUPSW002 | SUPERIOR ★★☆☆☆

## Coated abrasive and non-woven combi flap wheels

**Combi flap wheel with coated abrasives and non-woven material, industrial quality, for use on high-speed machines.**

- The combination of two trim materials means minor scratches can be removed, and simultaneously the workpiece can be perfectly readied for satin finishing
- The surface pattern can be tailored to individual needs depending on cutting speed and contact pressure
- The combination of abrasive fleece and non-woven material enhances the sanding effect of the fleece

**Application:** Fine surface pattern and readying for satin finishing. Ideal for removing minor scratches; final finish also possible depending on grit size.

ø	A	S	RPM max.	DU	Aluminium Oxide 60	Aluminium Oxide 80	Aluminium Oxide 150	Silicon Carbide 240
40	20	6	17100	10	● 0063-404 020	● 0083-404 020	● 0153-404 020	● 1243-404 020
40	30	6	17100	10	● 0063-404 030		● 0153-404 030	● 1243-404 030
50	20	6	13700	10	● 0063-405 020		● 0153-405 020	● 1243-405 020
50	30	6	13700	10	● 0063-405 030	● 0083-405 030	● 0153-405 030	● 1243-405 030
50	40	6	13700	10	● 0063-405 040			● 1243-405 040
60	30	6	11500	10	● 0063-406 030		● 0153-406 030	● 1243-406 030
60	40	6	11500	10	● 0063-406 040	● 0083-406 040	● 0153-406 040	● 1243-406 040
60	50	6	11500	10	● 0063-406 050			● 1243-406 050
80	40	6	8600	10	● 0063-408 040		● 0153-408 040	● 1243-408 040
80	50	6	8600	10	● 0063-408 050	● 0083-408 050	● 0153-408 050	● 1243-408 050

# High Speed Machines

## Flap Wheels



Appearance can vary from picture depending on variant.



EUPSFW003 | SUPERIOR ★★☆☆☆

## Non-woven abrasive flap wheels

**Non-woven abrasive flap wheel with aluminium oxide abrasive grit, industrial quality, for use on high-speed machines.**

- Fine and harmonious surface finish due to the dense structure of the non-woven material
- Besides the main application, oxide layers can be cleaned off and wood and plastic can be smoothed

**Application:** Matting, satin and final finishing.

### Comparable grits Fleece vs. FEPA

- Coarse = 80 - 120
- Medium = 150 - 220
- Fine = 240 - 360
- Very fine = 400 - 600

### Good to know

Flap wheels are excellently suited to surface cleaning. They generate a surface pattern of high density on all metal surfaces.

With aluminium oxide.

ø	A	S	RPM max.	DU	Aluminium Oxide coarse	Aluminium Oxide fine	Aluminium Oxide medium	Aluminium Oxide very fine
40	20	6	17100	10	● 0083-304 020	● 0243-304 020	● 0153-304 020	● 0323-304 020
40	30	6	17100	10	● 0083-304 030	● 0243-304 030	● 0153-304 030	
50	30	6	13700	10	● 0083-305 030	● 0243-305 030	● 0153-305 030	● 0323-305 030
50	40	6	13700	10	● 0083-305 040	● 0243-305 040	● 0153-305 040	● 0323-305 040
60	30	6	11500	10	● 0083-306 030	● 0243-306 030	● 0153-306 030	● 0323-306 030
60	50	6	11500	10		● 0243-306 050	● 0153-306 050	
80	50	6	8600	10	● 0083-308 050	● 0243-308 050	● 0153-308 050	

0							
0002501132	10	0002505341	11	0002630311	15	0063008030	20
0002501142	10	0002505342	11	0002630316	15	0063008040	20
0002501143	10	0002505343	11	0002630317	15	0063008050	20
0002501342	11	0002505361	11	0002630328	15	0063404020	21
0002501343	11	0002505362	11	0002630334	15	0063404030	21
0002501542	11	0002505363	11	0002630335	15	0063405020	21
0002502132	10	0002505542	11	0002630340	15	0063405030	21
0002502141	10	0002506132	10	0002630341	15	0063405040	21
0002502142	10	0002506141	10	0003509141	14	0063406030	21
0002502143	10	0002506142	10	0003509149	17	0063406040	21
0002502332	11	0002506143	10	0003509161	14	0063406050	21
0002502333	11	0002506161	10	0003509169	17	0063408040	21
0002502341	11	0002506162	10	0003509191	14	0063408050	21
0002502342	11	0002506163	10	0003509341	14	0074509301	19
0002502343	11	0002506332	11	0003509349	17	0083003010	20
0002502542	11	0002506341	11	0003509361	14	0083003015	20
0002503132	10	0002506342	11	0003509369	17	0083004015	20
0002503141	10	0002506343	11	0003509561	14	0083004020	20
0002503142	10	0002506361	11	0004509302	19	0083004030	20
0002503143	10	0002506362	11	0014509102	18	0083005015	20
0002503331	11	0002506363	11	0014509304	19	0083005020	20
0002503332	11	0002506542	11	0024509100	19	0083005030	20
0002503333	11	0002507142	10	0024509101	18	0083006020	20
0002503341	11	0002507162	10	0024509102	18	0083006030	20
0002503342	11	0002507342	11	0024509103	18	0083006040	20
0002503343	11	0002507361	11	0024509111	18	0083008030	20
0002503542	11	0002507362	11	0043003010	20	0083008040	20
0002504132	10	0002507542	11	0043003015	20	0083008050	20
0002504141	10	0002509142	14	0043004015	20	0083304020	22
0002504142	10	0002509143	14	0043004020	20	0083304030	22
0002504143	10	0002509144	14	0043005015	20	0083305030	22
0002504161	10	0002509162	14	0043005020	20	0083305040	22
0002504162	10	0002509163	14	0043005030	20	0083306030	22
0002504163	10	0002509164	14	0043006020	20	0083308050	22
0002504332	11	0002509165	18	0043006030	20	0083404020	21
0002504341	11	0002509167	18	0043006040	20	0083405030	21
0002504342	11	0002509192	14	0043006050	20	0083406040	21
0002504343	11	0002509193	14	0043008030	20	0083408050	21
0002504361	11	0002509194	14	0043008050	20	0123003010	20
0002504362	11	0002509342	14	0063003010	20	0123003015	20
0002504363	11	0002509343	14	0063003015	20	0123004020	20
0002504542	11	0002509344	14	0063004015	20	0123004030	20
0002505132	10	0002509362	14	0063004020	20	0123005015	20
0002505141	10	0002509363	14	0063004030	20	0123005020	20
0002505142	10	0002509364	14	0063005015	20	0123005030	20
0002505143	10	0002509562	14	0063005020	20	0123006020	20
0002505161	10	0002509563	14	0063005030	20	0123006030	20
0002505162	10	0002509564	14	0063006020	20	0123006040	20
0002505163	10	0002630304	15	0063006030	20	0123008030	20
0002505332	11	0002630305	15	0063006040	20	0123008050	20
		0002630310	15	0063006050	20	0124509101	19



0124509103	19	0224509101	19	3002504342	11	9906011151	13
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0124509303	19	0243003015	20	3902506162	12	9906011154	13
0153003015	20	0243004015	20	<b>5</b>		9906011155	13
0153004020	20	0243004020	20	5162507361	11	9906030302	16
0153005015	20	0243005030	20	<b>7</b>		9906030304	16
0153005020	20	0243006020	20	7002503142	10	9906030305	16
0153005030	20	0243006030	20	7002503342	11	9906030308	16
0153006020	20	0243006040	20	7002504362	11	9906030310	16
0153006030	20	0243006050	20	7002505142	10	9906030311	16
0153006040	20	0243008040	20	7002505162	10	9906030312	16
0153006050	20	0243008050	20	7002505342	11	9906030314	16
0153008040	20	0243304020	22	7002505362	11	9906030316	16
0153304020	22	0243304030	22	7002505542	11	9906030317	16
0153304030	22	0243305030	22	7002506362	11	9906030318	16
0153305030	22	0243305040	22	7002506542	11	9906030326	16
0153305040	22	0243306030	22	7002507162	10	9906030328	16
0153306030	22	0243306050	22	7002507342	11	9906030329	16
0153306050	22	0243308050	22	7002507362	11	9906030332	16
0153308050	22	0323304020	22	7002509162	14	9906030334	16
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0153404030	21	0323305040	22	7002630305	15	9906030338	16
0153405020	21	0323306030	22	7012611351	12	9906030340	16
0153405030	21	<b>1</b>		7202611151	12	9906030341	16
0153406030	21	1224509101	18	7602504142	10	9906030488	19
0153406040	21	1243404020	21	7602506162	10	9906030489	19
0153408040	21	1243404030	21	<b>9</b>		9906030490	19
0153408050	21	1243405020	21	9803630101	17	9906030492	19
0183004015	20	1243405030	21	9803630151	17	9906030493	19
0183005030	20	1243405040	21	9803630171	17	9906030494	19
0183006020	20	1243406030	21	9803630301	17	9906030496	19
0183006030	20	1243406040	21	9803630351	17	9906030497	19
0183006040	20	1243406050	21	9803630371	17	9906030498	19
0183006050	20	1243408040	21	9906011146	13	9906030500	19
0183008050	20	1243408050	21	9906011147	13	9906030501	19
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0202611151	12	2224509101	19	9906011149	13		
0202611351	12	<b>3</b>		9906011150	13		

## **Finish. First.**

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