



Standard catalogue

TIB Standard brushes 2021



Unser Traditionsbetrieb ist ein wichtiger
Bestandteil der Österreichischen Wirtschaft.
Besuchen Sie uns auf www.tib.at

Wheel Brushes - 100R

Field of application: Roughing
Deburring
Edge breaking
Derusting etc.

Brush body: Metal
Arbour hole from 13 mm upwards can be supplied

Fill material: Quality steel wire (0.20; 0.30; 0.50)
Stainless steel wire

On demand: We are currently the only Austrian manufacturer of wheel brushes, which enables us to alternate our products characteristics (diameter, width or material) E.g.: brass coated steel wire, bessemer wire, bronze wire, brass wire, nickel silver wire - and other special wires or abrasive nylon.

Optimal surface speed: 22 - 28 m/s

Optimal RPM: Depending on the desired effect and/or degree of deburring, polishing, and/or cleaning. RPM also depends on the fill material and most importantly on the (free) fill length.



Ø	Width	Arbour hole from - to / Tube-Ø	Steel wire				Stainl. Steel wire		max. RPM
			0.20	0.30	0.35	0.50	0.20	0.30	
Single-row									
75	11	13	511.141	511.161			511.341	511.361	10,000
100	13	13-20		522.161			522.341	522.361	8,000
	13	13- 30	522.141						8,000
125	15	13-20	532.141	532.161			532.341	532.361	6,000
150	16	13-32	544.141	544.161			544.3410002	544.3610002	6,000
178	18	13-32	554.141	554.161			554.3410002	554.3610002	6,000
200	19	19-40 / 50.8	566.141	566.161			566.3410002	566.3610002	4,500
250	22	20-40 / 50.8	576.141	576.161			576.341	576.361	3,600
300	26	25.4-40 / 50.8	587.141	587.161			587.341	587.361	3,000
Multiple-rows									
75	19	/ 20	511.142	511.162			511.342	511.362	10.000
100	20	20 / 30	522.142	522.162			522.342	522.362	8.000
	28	20 / 30	522.143	522.163			522.343	522.363	8.000
125	22	20 / 30	532.142	532.162			532.342	532.3625502	6.000
	30	20 / 30	532.143	532.163			532.343	532.363	6.000
150	21	31.75 / 50.8	544.441	544.461	544.471	544.491	544.3419902	544.3619902	6.000
	30	31.75 / 50.8	544.142	544.162	544.172	544.192	544.342	544.362	6.000
	37	31.75 / 50.8	544.143	544.163	544.173	544.193	544.343	544.363	6.000
178	23	31.75 / 50.8	554.441	554.461	554.471	554.491	554.3419902	554.3619902	6.000
	32	31.75 / 50.8	554.142	554.162	554.172	554.192	554.342	554.362	6.000
	38	31.75 / 50.8	554.143	554.163	554.173	554.193	<i>SF 554.343</i>	554.363	6.000
200	20	31.75 / 80	566.441	566.461	566.471	566.491	566.3419902	566.3619902	4.500
	30	31.75 / 80	566.142	566.1629902	566.172	566.192	566.342	566.362	4.500
	38	31.75 / 80	566.143	566.163	566.173	566.193	566.343	566.363	4.500
250	28	20 - 50.8 / 100	576.142	576.162		576.192	576.342	576.362	3.600
	38	20 - 50.8 / 100	576.143	576.163	576.173	576.193	576.343	576.363	3.600
	55	20 - 50.8 / 100		576.464	576.474				3.600
300	32	25.4-50.8 / 120	587.142	587.162		587.192	587.342	587.362	3.000
	44	25.4-50.8 / 120	587.143	587.163		587.193	587.343	587.363	3.000

Wheel Brushes for Tube End Deburring

Field of application: Frontal-deburring of tubes and profiled pieces via table deburring machines,
Deburring cut edges

Brush body: Metal
Arbour hole 50.8 mm; 52.7 mm; 54.8 mm
(with keyway)

Fill material: Quality steel wire (0.20 up to 0.50),
Stainless steel wire,
Abrasive nylon (SC-grit 80, 120, 180, 320)

On demand: Brushes for deburring machines
Brushes with cord wire



Ø	Tube Ø	Width	Steel wire				Stainl. Steel		max. RPM
			0.20	0.30	0.35	0.50	0.20	0.35	
250	100	50	993661		576.475			576.375	3,600
		55	576.145	576.165	576.175	576.195	576.365		3,600
		95		703.167		993740		703.377	3,600

Ø	Tube Ø	Width	Abrasive nylon SC - grain				max. RPM
			80	120	180	320	
250	100	55	576.916 K80	576.906 K120	576.916 K180	576.926 K320	3,600

Abrasive Nylon – Wheel Brushes

Field of application: Deburring, keying, matting, grinding also for irregular shape of workpiece, suitable both for dry- and wet grinding

Brush body: Metal

Fill material: Abrasive impregnated nylon bristles in 4 different grit sizes can be supplied
(SC-grit 80, 120, 180 or 320)

On request: Other dimensions and grit sizes

Ideal peripheral speed: 15 - 22 m/s



Ø	Width	Arbour hole from - to / TubeØ	Abrasive nylon SC - grain				max. RPM
			80	120	180	320	
75	12	13	515.001	515.002	515.003	515.004	20,000
100	18	13-20	515.025	515.026	515.027	515.028	12,000
150	18	13-32	515.079	515.080	515.081	515.082	6,000
178	18	13-32	515.040	515.041	515.042	515.043	6,000
200	18	19 - 40 / 50.8	515.050	515.051	515.052	515.053	6,000
250	18	20 - 40 / 50.8	515.056 BL.60	515.057 BL.60	515.058 BL.60	515.059 BL.60	3,000
	20	20 - 40 / 50.8	515.056 BL.35	515.057 BL.35	515.058 BL.35	515.059 BL.35	3,000
300	20	25.4 - 40 / 50.8	515.062 BL.35	515.063 BL.35	515.064 BL.35	515.065 BL.35	2,400
	20	25.4 - 40 / 50.8	515.062 BL.60	515.063 BL.60	515.064 BL.60	515.065 BL.60	3,000

Knot-type Wheel Brushes - 300R

Field of application: Cleaning of weld seams
Derusting, deburring, removal of glue residues
Appropriate for heavy duty with high surface speed

Brush body: Metal
The brushes have a 22.2 mm arbour hole (ah)
or a 6 mm shank (sh)

On request: Brushes with a M14 thread

Fill material: Quality steel wire (0.35 to 0.80),
Stainless steel wire (0.50)

Optimal surface speed: 70 - 81 m/s

For this type of brush: maximal RPM = optimal RPM



Ø	ah / sh / width	Steel wire			Stainl. Steel	max. RPM
		0.35	0.50	0.80	0.50	
75	- / 6 / 13	611.131	611.151		611.351	20,000
100	22.2 / - / 13	621.131	621.151			12,500
115	22.2 / - / 6		26.501 D115		626.650	12,500
	22.2 / - / 13	631.131 D115	631.151 D115		631.351 D115	12,500
125	22.2 / - / 6	631.131 D125	626.251			12,500
	22.2 / - / 13		631.151 D125		631.351 D125	12,500
150	22.2 / - / 6		26.501 D150			
	22.2 / - / 13	641.131	641.151	641.181	641.351	12,000
165	22.2 / - / 6		626.061		626.551	12,000
178	22.2 / - / 13	653.131	653.151	653.181	653.351	12,000

Bevel Brushes 100R / 300R

Field of application: Its conical shape enables the brush to treat surfaces difficult to access. Multiple applications for average (crimped wire) to heavy duty (knotted wire) work.

Brush body: Metal, conical shape
M14 x 2.0 thread

On request: other thread dimensions,
e.g.: M10 x 1.25 or M10 x 1.5

Fill material: Steel wire crimped or knotted,
Stainless steel wire crimped or knotted



Ø	Model	Steel wire		Stainl. Steel			max. RPM
		0.30 / 0.35	0.50	0.20	0.30 / 0.35	0.50	
100	knotted wire - 18 knots	622.131	622.151		622.331	622.351	12,500
	knotted wire - 22 knots*)	623.131	623.151		623.331	623.351	12,500
	crimped wire / 10mm width	512.161			512.361		12,500
	crimped wire / 20mm width	512.162		512.342	512.362		12,500
115	knotted wire	632.131	632.151		632.331	632.351	12,500

*) particularly aggressive

Cup Brushes - 200R

Field of application: Cleaning and rust removal of large surfaces
Finishing and deburring of non-ferrous heavy metals, non-ferrous metals and synthetics
(abrasive grain-fill material, rust less fill material)

Brush body: Metal
The brushes have a M14 thread (thrd), we can also supply brushes with different arbour holes (ah).

Fill material: Quality crimped steel wire (0.20 to 0.50),
Stainless crimped steel wire (0.20 to 0.50),
Abrasive nylon crimped (SC-grain 180)



Ø	ah / thrd	Steel wire			Stainl. Steel	SC-grain	max. RPM
		0.20	0.30	0.50	0.30	180	
60	M 14	613.141	613.161		613.361		12,500
75	M 14	613.142	613.162		613.362		12,500
80	M 14	613.143	613.163	613.193	613.363		8,500
100	M 14	613.144	613.164	613.194	613.364	608.914	8,500
100	22.2					607.914	8,500
125	M 14	613.145	613.165	613.195	613.365		6,500
150	M 14		613.166	613.196			6,500

Knot-type Cup Brushes - 400R

Field of application: Aggressive brush for heavy cleaning (slag, rust, paint, scale)

Brush body: Metal
The brushes either have a 22.2mm arbour hole (ah) or a M14 thread (thrd).

Fill material: Quality steel wire (from 0.35 to 0.80)
Stainless steel wire (from 0.35 to 0.50)



Ø	ah / thrd	Steel wire			Stainl. steel		max. RPM
		0.35	0.50	0.80	0.35	0.50	
65	M 14	608.131	608.151		608.331	608.351	12,500
75	M 14		608.152				11,000
80	M 14	608.133	608.153	608.183	608.333	608.353	8,500
80	22.2	607.133	607.153	607.183		607.353	8,500
100	M 14	608.134	608.154	608.184	608.334	608.354	8,500
100	22.2	607.134	607.154	607.184	607.334	607.354	8,500
120	M 14	608.135	608.155	608.185			6,500
120	22.2	607.135	607.155	607.185			6,500

Rotary Brushes with Shank - 50R

Field of application: Cleaning and derusting of areas that are difficult to access

Brush body: Metal, with a 6mm shank

Fill material: Quality crimped steel wire
Stainless crimped steel wire
Crimped brass wire

On request: Other materials can be supplied e.g:
Bronze wire, Bessemer wire, or other wire
gages



Ø	Width	Steel wire		Stainl. Steel		Brass wire	max. UPM
		0.20	0.30	0.20	0.30	0.20	
20	6	501.142					20,000
	9	501.143		501.343		501.542	20,000
30	6	502.141		502.341			20,000
	9	502.142		502.342		502.542	20,000
	12	502.143		502.343			20,000
40	7	503.141		503.341			18,000
	11	503.142		503.342		503.542	18,000
	16	503.143		503.343			18,000
50	10	504.141	504.161	504.341	504.361		15,000
	16	504.142	504.162	504.342	504.362	504.542	15,000
	23		504.163	504.343			15,000
60	12	505.141	505.161	505.341	505.361		15,000
	18	505.142	505.162	505.342	505.362	505.542	15,000
	23		505.163				15,000
70	11	506.141	506.161	506.341	506.361		15,000
70	18	506.142	506.162	506.342	506.362	506.542	15,000
	23		506.163	506.343	506.363		15,000
80	19	507.142	507.162	507.342	507.362	507.542	12,000

Safety Brushes

Field of application: Derusting and deburring of iron
Elimination of colours and lacquer
Cleaning various surfaces

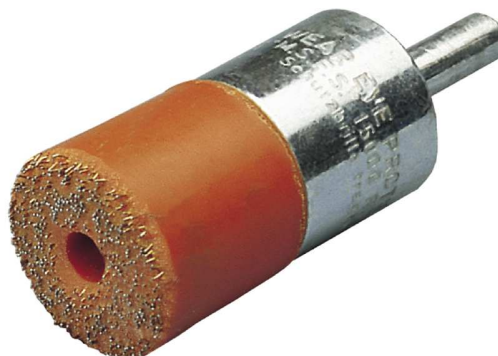
Brush body: Metal with a 6 mm shank

Fill material: Curled, resin bonded brass-plated steel wire



Ø	Circular Brush	
	Width	0.30
50	8	911.934
63	8	911.941
76	8	911.951

Ø	End Brush	
	0.30	
11	993654	
17	930.902	
24	930.907	
31	930.912	

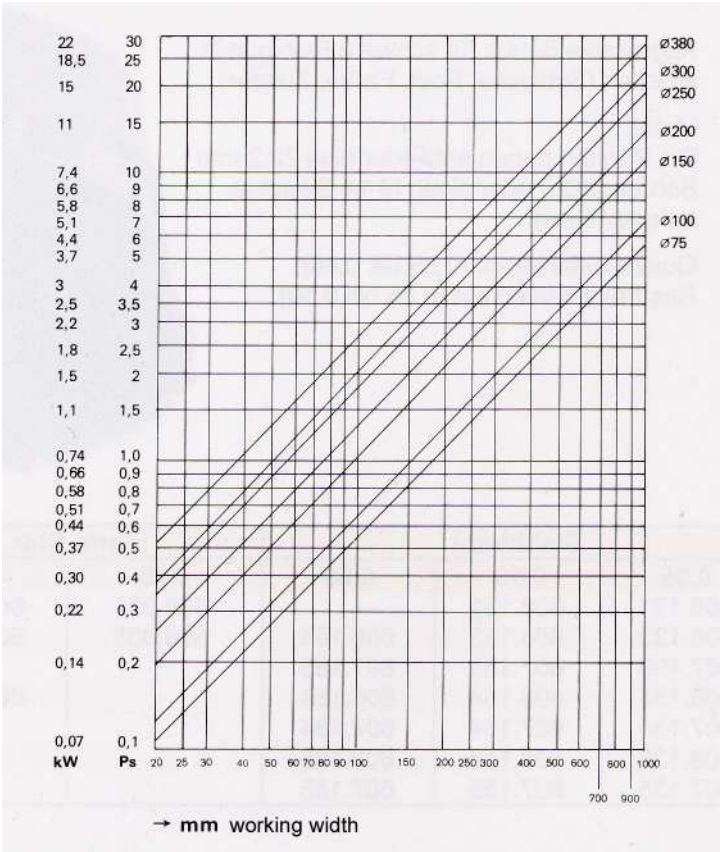


Peripheral Speed

Table of circumferential speed in m/s

RPM	Brush Diameter 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	1.26	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	6.92	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	10.48	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	50.21	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								

Power Requirements



End Brushes - 210R

Field of application: Cleaning and derusting of areas difficult to access

Brush body: Metal, with a 6 mm shank

Fill material: Crimped quality steel wire
Stainless crimped steel wire
Crimped abrasive nylon (SC - grain 120, 180, 320)
Speed range: 4,500 – 20,000 RPM

On demand: Also available in tapered form or with crimped cord wire

Ø	Steel wire		Stainl. Steel	max. RPM
	0.20	0.30	0.30	
10	509.141	509.161	509.361	20,000
15	509.142	509.162	509.362	18,000
22	509.143	509.163	509.363	18,000
30	509.144	509.164	509.364	15,000



End brushes - 220R

Ø	SC-grit			max. RPM
	120	180	320	
10		509.911-18	509.911-32	5,000
15	509.912-12	509.912-18	509.912-32	4,500
22	509.913-12	509.913-18	509.913-32	4,500
28	509.914-12	509.914-18	509.914-32	4,500



Special type:



Ø	Form	Body Ø x Length	Steel wire		Stainless Steel	max. RPM
			0.20	0.30	0.30	
10	Extra lange Form	10x100	509.149	509.169	509.369	10,000

Knot-type End Brushes - 310R

Field of application: Aggressive Brushes for removing burrs, slag, scale, paint, rust, excess rubber, combustion residues in hard to reach areas

Brush body: Metal, with a 6 mm shank

Fill material: Quality steel wire,
Stainless steel wire



Ø	Spread	Steel wire		Stainless steel wire		max. RPM
		0.26	0.35	0.26	0.35	
20	30-62	630.304	630.305	630.328		22,000
23	35-70	630.310	630.311	630.334	630.335	20,000
30	50-80	630.316	630.317	630.340	630.341	20,000

Cylinder Brushes / Hole Cleaning Brushes

Field of application: Manual cleaning, deburring or derusting of cylindrical bore holes

Brush body: Twisted flexible wire with handle

Hole cleaning brushes have a wooden handle

Fill material: Crimped steel wire (0.15 to 0.30),
Stainless steel wire (0.10 to 0.20)
Brass wire (0.10 to 0.20), Nylon, Bristle



Ø	Effect length	Total length	Steel wire	Stainl. Steel wire	Brass wire	Nylon	Bristle	St. wire with wooden handle
4	100	300	67.204	67.304		67.804		
5	100	300	67.205	67.305				
6	100	300	67.206	67.306	67.506	67.806	67.606	
8	100	300	67.208	67.308	67.508	67.808	67.608	
10	100	300	67.210	67.310	67.510	67.810	67.610	65.210
12	100	300	67.212		67.512	67.812	67.612	
15	100	300	67.215		67.515	67.815	67.615	65.215
18	100	300	67.218					
20	100	300	67.220		67.520	67.820	67.620	65.220
25	100	300	67.225		67.525	67.825	67.625	65.225
30	100	300	67.230		67.530	67.830	67.630	65.230
35	100	300				67.835	67.635	
40	100	300			67.540			
50	100	300				67.850	67.650	



Bottle Brushes

Field of application: Cleaning of cylindrical vessels

Brush body: Twisted, flexible wire handle
Brushes have a fan end or a tied tuft

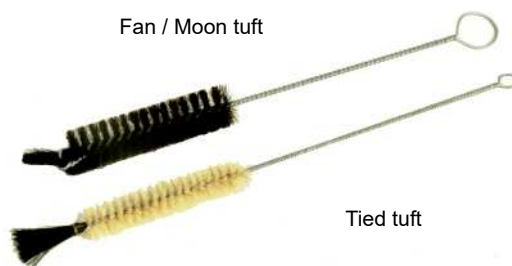
Fill material: Bristle, Nylon



On demand: We can supply brushes with different fill material.

Ø	Effect length	Total length	Fan tuft
7	90	280	1407
10	90	280	1410
15	100	280	1415
20	100	280	1420
25	110	320	1425
30	110	320	1430
35	110	320	1435
40	120	320	1440 for 1/8 l
45	130	480	1445 for 1/4 l
50	150	520	1450 for 1/2 l

Fan / Moon tuft



Tied tuft

Ø	Effect length	Tuft length	Total length	Tied tuft
10	90		280	69.610
15	100	40	280	69.615
20	100	40	280	69.620
25	100	40	320	69.625
60	130	60	580	69.660 for 1 l+2 l
70	130	60	580	69.670 for 2 l
75	150	60	600	1875 for 2 l

Crank brush 1875



Simple Engaged Pipe Brush - 401 (ST) / 301 (V2A)

- Field of application:** Cleaning work
- Brush body:** 2-fold stem wire,
External thread (standard)
½", ¼", M10 oder M12
- Fill material:** Steel wire smooth, simply engaged
Effect length: 100 mm
- Dimensions:** Ø 25 - 200 mm

When ordering, please indicate which thread you need for your brush.



Crosswise engaged Pipe Brush - 66



- Field of application:** Cleaning work
- Brush body:** 4-fold stem wire,
½" External thread (standard)
- Fill material:** Steel wire smooth, crosswise engaged
Effect length: 100 mm
- Dimensions:** Ø 20 - 150 mm
- Upon customer request, we can also supply other types of threads (external or internal).

Pipe Brush with springs - 303 (V2A) / 403 (ST)

- Field application:** Mechanical cleaning of pipes
- Brush body:** 2- or 4-fold stem wire,
External thread ½" (standard) or
- Fill material:** Coil springs crosswise or simple engaged
Effect length: 100 mm
- Dimensions:** Ø 38 - 74 mm



Boiler Brush - 405

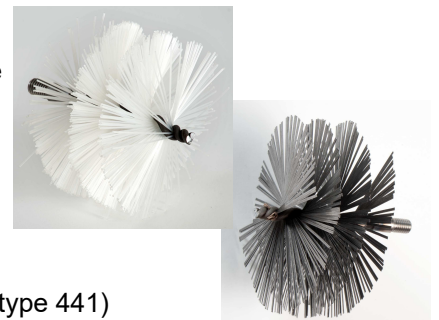


- Field of application:** Cleaning of boilers
- Brush body:** 2-fold stem wire,
External thread (standard) ½", ¼", M10 or M12
- Fill material:** Steel wire smooth, simply engaged,
rectangular shape

When ordering, please indicate which dimensions your brush should have and which thread you need for your brush.

Chimney Brush Nylon - 440, Flat Wire - 441

- Field of application:** Cleaning of chimney pipes; for stainless steel chimney pipes use the type 440 and otherwise the type 441.
- Brush body:** 2-fold insertion wire,
External (standard) or internal thread ½", ¼", M10 or M12
- Fill material:** Nylon smooth (type 440), flat wire (type 441)
simply engaged, short brush part
- Dimensions:** Ø 120 - 250 mm (type 440) and Ø 150 - 300 mm (type 441)

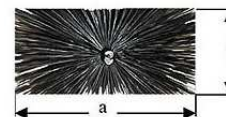


More detailed information can be found in our additional sheets for pipe brushes (download at www.tib.at - Products - Catalogs)

Boiler Brush with handle - 415

Field of application: Cleaning
Brush body: 2-fold wire core with loop
Fill material: Steel wire smooth, simply engaged rectangular shape

When placing your order please mention the desired dimensions (a, b, c, d).



Flue and Chimney Brushes - 430



Field of application: Cleaning
Brush body: 2-fold wire core with loop
 Total length 1.000 mm (standard)
Fill material: Crimped steel wire simply inserted
Dimensions: Ø 30 - 180 mm
On demand: These brushes are also available with a total length of up to 2,000 mm

Wire Rod with Loop - 442 / Wire Rod Extension - 443

Field of application: Extension for Pipe-, Boiler- and Chimney brush
Brush body: Type **442**: 2-fold twisted wire stem with loop and internal thread
 Type **443**: 2-fold twisted wire stem with internal and external thread

442

443



Total length 1,000 mm (standard) - max. 1,500 mm

The 2-fold rods are manufactured on customer request. When ordering, please indicate which **internal and / or external thread** you need for your rod.



Wire Rod 7-fold with handle - 444

Field of application: Extension for pipe-, boiler- and chimneybrushes
Brush body: 7-fold twisted wire rope, one side with handle, the other side with internal thread.
Dimensions: 2 m up to 20 m

Flexible Rod - 446

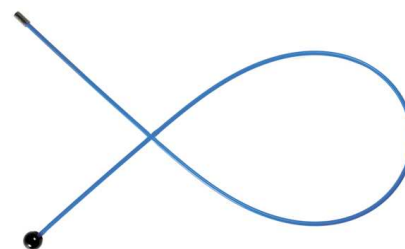
Glass fibres are long, thin fibres made of glass. Glass fibre reinforced plastics are among the most important construction materials manufactured. When ordering, please indicate which internal (standard) or external thread you need for your rod.

They are

- * resistant to age and weathering
- * chemically stable
- * incombustible

Fiberglass rods are available in the following diameters: 6, 9 or 12 mm (on request).

By default, the 6 mm rods are equipped with a M6 and the 9 mm rods with a 1/2" internal thread. On request, we can provide the rods with either M10 or M12 threads and/or with a round handle.



Flat Paint Brush



Round Paint Brush



Radiator Paint Brush



Sealing Paint Brush



Artist Paint Brushes



Roller cover (without frame)

17700 - Varnish

20800 - Dynel



Roller frame

17000 und 20000



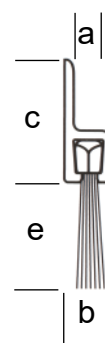
More and detailed information can be found on our additional sheets for paint brushes.

Strip Brushes PP with Mounting Rail

Field of application:	Sealing machines, door/gates Roll Brush, Strip brushes on rails for car seats Splash guard for commercial vehicles
Brush body:	Metal band
Brush length:	1,000 or 3,000 mm
Fill material:	Black polypropylene (PP), smooth, UV radiation resistant

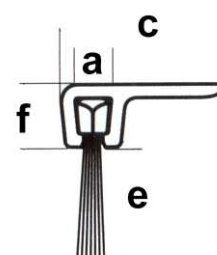
Alu - h - Profile				Brush (EL)			Profile +EL
Width		Profile height c	Art. No. Profile	Material length e	Material	Art.No. Brush	Total height c + e
inside a	outside b						
3.5	6.0	16	H3/016	14	0.15	EL3/014	30
				24		EL3/024	40
				34		EL3/034	50
5.0	8.0	25	H5/025	25	0.20	EL5/025	50
				35		EL5/035	60
				45		EL5/045	70
5.0	8.0	50	H5/050	25	0.20	EL5/025	75
				35		EL5/035	85
				45		EL5/045	95
8.0	12.6	50	H8/050	40	0.30	EL8/040	90
				60		EL8/060	110
				80		EL8/080	130
				120	0.50	EL8/120	170
				150		EL8/150	200

h-Profile



Alu - F - Profil				Brush (EL)			Profile +EL
Width		Profile height c	Art. No. Profile	Material length e	Material	Art. No. Brush	Total height e + f
inside a	outside f						
5.0	9.0	25	F5/025	25	0.20	EL5/025	34
				35		EL5/035	44
				45		EL5/045	53
8.0	12	50	F8/050	40	0,30	EL8/040	52
				60		EL8/060	72
				80		EL8/080	92
				120	0.50	EL8/120	132
				150		EL8/150	162

F-Profile

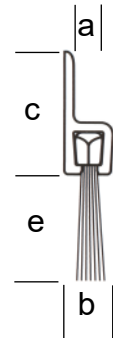


“Multistrip” - Strip Brushes with Nylon

Field of application:	Seal against dust, dirt, water and smoke, heat energy saving, noise insulation, protection against drafts
Brush body:	Metal band
Brush length:	1,000 or 3,000 mm
Fill material:	Black nylon 6.0, smooth, UV radiation resistant

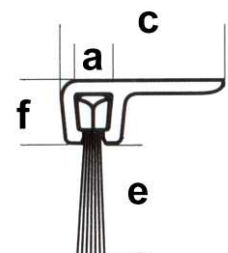
Alu - h - Profil				Brush (EL)			Profile+EL
Width		Profile height c	Art. No. Profile	Material length e	Material	Art.No. Brush	Total height c + e
inside a	outside b						
2.5	4.4	13.5	906.000 0114	11.0	0.15	905.822 0904	24.5
				15.0		905.822 0914	28.5
4.3	7.3	15.0	906.000 0124	14.0		905.822 0924	29.0
				40.0		905.825 0904	55.0
4.7	8.8	21.0	906.000 0134	18.5		905.823 0904	39.5
5.1	8.2	27.0	906.000 0144	17.0	0.20	905.823 0924	44.0
				24.0		905.824 0904	51.0
				37.0		905.825 0914	64.0
6.6	10.0	30.0	906.000 0154	40.5		905.825 0924	70.5
				65.5	0.30	905.837 0904	95.5
7.8	12.0	33.0	906.000 0164	50.0	0.50	905.856 0904	83.0
				50.0	0.90	905.896 0904	83.0
				65.0	0.30	905.847 0904	98.0
				105.0	0.50	905.859 0904	138.0
11.4	18.0	68.0	906.000 0174	134.5	0.60	905.869 0904	202.5
				214.5	0.90	905.899 0904	282.5

h-Profile



Alu - F - Profile				Brush (EL)			Profile +EL
Width		Profile Length c	Art. No. Profile	Material length e	Material strength	Art.No. Brush	Total height e + f
inside a	outside f						
2.5	5.7	14.0	906.000 0214	11.0	0.15	905.822 0904	16.7
				15.0		905.822 0914	20.7
4.0	7.0	16.0	906.000 0224	14.0		905.822 0924	21.0
				40.0		905.825 0904	47.0
4.7	8.5	18.0	906.000 0234	18.5		905.823 0904	27.0
5.1	10.0	27.0	906.000 0244	11.0	0.20	905.822 0934	21.0
				17.0		905.823 0924	27.0
				24.0		905.824 0904	34.0
				37.0		905.825 0914	47.0
7.8	14.0	41.0	906.000 0264	49.5	0.50	905.856 0904	63.5
				49.5	0.90	905.896 0904	63.5
				64.5	0.30	905.847 0904	78.5
				104.5	0.50	905.859 0904	118.5
11.4	18.0	62.0	906.000 0274	134.5	0.60	905.869 0904	152.5
				214.5	0.90	905.899 0904	232.5

F-Profile



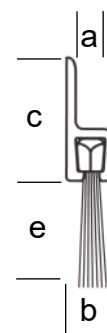
“Multistrip” - Strip Brush Horsehair

Length of Brushes: 1,000 mm

Fill material: Horsehair

Alu - h - Profile				Brush (EL)			Profile +EL	
Width		Profile height c	Art.No. Profile	Material length e	Material	Art.No. EL	Art.No.	Total height c + e
inside a	outside b							
5	8.5	25	906.000 0004	13	RH	905.962	906.962	38
				23	RH	905.963	906.963	48
				32	RH	905.954	906.954	57
				42	RH	905.955	906.955	67

h-Profil



The matching F-profile for these slide-in strips is available under the following article number: 906.000 1134

Flexible Strip Brushes

The flexible strip brush is bordered with a U-shaped plastic profile and therefore adapts to (almost) any possible and imaginable shape.

Fill material: Black, smooth polypropylene (PP)

Advantage: Easy to shape, simple and fast to install, lengths can be individually cut to size, significant waste reduction, metal-free - therefore no rust can form

Profile width	Total height	Material	Max. length in m	Art. No.
3.5	19	0.15	65	FX 314
	29		65	FX 324
	39		65	FX 334
5.0	32	0.20	50	FX 525
	42		50	FX 535
	87	0.30	32	FX 580



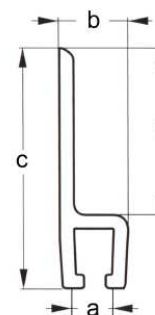
Aluminium-Retaining Rail for Flex-Brushes

Profile width		Total height c	Nose-piece d	Art. No.
inside a	outside b			
3.5	6.0	16	9	H3/016
5.0	8.0	25	16	H5/025
		50	41	H5/050

Aluminium profiles are also silver anodized or bronze anodized available at a surcharge

PVC-Retaining Rail

Profile width		Total height c	Nose-piece d	Art. No.
inside a	outside b			
3.5	6.0	20	12	H3/020/PVC
5.0	9.8	35	25	H5/035/PVC



Polishing Compounds

Delivery:

Single in cartons of approx. 1.2 kg or in
cartons of 20 cartons (approx. 25kg)



Solid Compounds For Metals

Work	Art.No.	Before	Result	Colour	Grease content	Stainl. Steel	Alu-minium	Brass	Tool
Super Heavy Cut	523LBZ	raw part	brushed, deburred	grey	greasy	x	x	x	fibre, sisal, cotton
Heavy Cut	439T	raw part, throwing marks	satin-finished surface	green	medium	x	x	x	sisal, cotton
	113GZ	raw part, throwing marks	suitable for galvanising	brown	greasy		x	x	cotton
Medium Cut	333	prepared surface with 523LBZ	even surface	green	medium	x			sisal, cotton
	P14F	raw part, fine throwing marks	suitable for anodising / galvanising	white	greasy	x	x	x	cotton
Finish	P126	prepared surface with 439T	glossy	pink	dry	x			cotton
	480BLF	prepared surface with 439T	glossy	blue	medium		x		cotton
	480 W	prepared surface with 113GZ, fine throwing marks	glossy	beige	medium		x	x	cotton
Super Finish	P175	prepared surface with 333 or P14F	high gloss	yellow	dry	x	x	x	soft buffing wheel

Solid Compounds For Synthetics / Varnish

Work	Art.No.	Colour	Grease content	Plastics / Composites	Paint	Tool
Super Heavy Cut	B4F	grey	dry	x		cotton, felt discs
	113GZ	brown	greasy		x	sisal, cotton
Heavy Cut	GW18	beige	greasy	x	x	cotton
Medium Cut	P195	orange	medium	x	x	cotton
	P204	orange	medium	x	x	cotton
Finish	495P	white	medium	x		cotton
	GW16	beige	greasy	x	x	cotton
Super Finish	G52	white	extra dry	x		cotton
	P175	yellow	dry		x	soft burring wheel



Sisal Wheels

- Field of application:** Polishing, fine grinding, glazing or finest deburring of metals, plastics or varnished surfaces.
- Brush body:** Cardboard
- On demand:** These brushes are available with different dimensions or impregnations

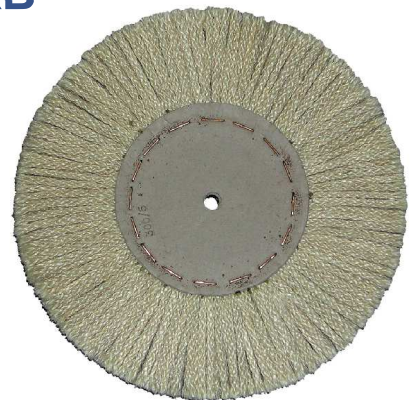
Sisal Fabric Wheels - SGS

- Field of application:** Fine grinding, matting or pre-polishing
- Brush body:** Sisal fabric - strips cut at 45 ° are sewn together and wrapped around a cardboard core in a spiral shape.
- This design and a slightly sticky impregnation avoid the precipitation of the sisal fibres and increase the adhesion of the polishing paste. This results in a more rapid polishing as the aggression increases. Trimming is either natural or impregnated.
- Dimensions:** Ø 150 - 900 mm
Width: 15 - 40 mm
Standard weld pitch = 10 mm (5, 15, 20 mm possible)



Sisal Cord Wheels - SKB

- Field of application:** Fine grinding and matting of all metals, glazing
- Brush body:** Cardboard
- Fill material:** 8-fold, braided sisal cord or 3-fold twisted sisal cord, natural (standard)
1 Row = approx. 7-8 mm width
Brush can also be delivered impregnated
- Dimensions:** Ø 60 - 600 mm
Width: 3 - 12 rowed



Sisal Nessel Wheel with open folding - SNF

- Field of application:** Pre-polishing and polishing of all metals
- Brush body:** Cardboard
- Fill material:** Extra dense natural sisal fabric (standard) sewn together with extra-stiff cotton nettle
Seam spacing 5 mm (standard)
Brush can also be supplied impregnated
- Dimensions:** Ø 150 - 600 mm
We can also deliver smaller diameters (from Ø 60) for cutlery processing
Width: 5 to 30 mm



Cloth Buffing Wheels - SPF

Field of application:	Polishing/high gloss buffing of all kinds of metals, plastics or laquers
Brush body:	Cardboard
Fill material:	Variety of cloths, layered with slight irregular folds
Diameter:	150 - 600 mm
Width:	15 - 20 mm
Material quality:	<p>RO18 = Nettle cloth, universally applicable, high quality cotton yarn, medium hard</p> <p>HM30 = Roughened nettle, brushed on both sides, very soft, suitable for high-gloss polishing</p> <p>FL31 = Flannel, brushed on both sides, particularly soft, suitable for ultra-high gloss polishing</p>



Cloth Buffing Wheels - SPW

Field of application:	Polishing/mirror polishing of plane surfaces (metals, plastics or lacquers) and finishing of small areas in markedly deformed parts on automatic polishers
Brush body	Cardboard
Fill material:	Various fabrics, regularly wavy folded
Diameter:	150 - 600 mm
Width:	approx. 20 mm
Material quality:	See description of type SPF



Cloth Buffing Wheels - SCV

Field of application:	Polishing / high gloss buffing of all metals, plastics or varnishes
Brush body:	= Fill material
Fill material:	Punched round sheets of material, loose or quilted. The flexibility is determined by the distance of the quilting seams.
Diameter:	50 - 1.000 mm
Width:	<p>Stout material, up to 25 mm</p> <p>Medium material, up to 30 mm</p> <p>Soft material, up to 35 mm</p>
Material quality:	See description of type SPF



Cardboard-Core Fibre Wheel - CBO

- Field of application:** Fine grinding and matting of all metals, especially stainless steel
Very flexible, therefore especially suitable for highly deformed workpieces
Metal ware factories, cutlery industry, stainless steel processors, sink manufacturers, metal grinders, etc.
- Brush body:** Cardboard
- Fill material:** Mexican Fibre
1 Row = approx. 5-6 mm Width
- Dimensions:** Ø 60 - 800 mm
Width: 6 - 12 rowed
- On demand:** Cardboard-core fibre wheels are also available with other diameters and other widths.



Abbrasive Cardboard Wheel- CBT

- Field of application:** Fine grinding and matting of all metals, especially stainless steel
Very flexible, therefore especially suitable for highly deformed workpieces
Metal ware factories, cutlery industry, stainless steel processors, sink manufacturers, metal grinders, etc.
- Brush body:** Cardboard
- Fill material:** Nylon- Abrasive particle material
Grain 60, 80, 120, 180, 320
- Dimension:** Ø 60 - 400 mm
Width: 15 mm
- Advantage:** (compared to brushes with metal body) the cardboard core can not damage the parts to be machined. Please be aware that this brush can only be used in a dry environment.



Synthetic Fleece Wheel - MAL

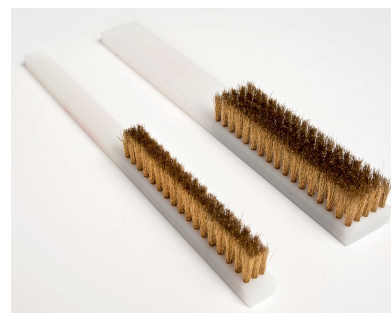
- Field of application:** Create matt effects on metal, plastic, porcelain and other materials. Clean and remove oxide films.
- Brush body:** Cardboard
- Fill material:** Equipped with lamellae made of scotch-brite, nylon fibre fleece with embedded abrasive grain (aluminium oxide, silicon carbide)
- On demand:** Plastic fleece discs are also available with other dimensions



Hand Scratch Brush for Instruments

Field of application: Cleaning of various small components
Brush body: POM-C
 Total length: 250 mm
Fill material: Crimped brass wire, nylon
Fill length: 100 mm
Material length: 15 mm

Rows	Brass 0.15	Brass 0.20	Nylon 0.30
3	760-15	760-20	759
5	761-15	761-20	762



Thread-cleaning Brushes (Watchmaker's Brushes)

Field of application: Cleaning of various small components
Brush body: Wood
 Total length: 265 - 225 mm
Fill material: Crimped brass wire, horsehair, nylon
Fill length: 100 mm
Material length: 20 mm

Rows	Brass 0.10	Brass 0.15	Brass 0.20	Horsehair	Nylon 0.30
3	7353-10	7353-15	7353-20		
4		7354-15			
5				7365	7385



Sparkplug Brushes

Field of application: Cleaning spark plugs and small parts
Brush body: Wood or plastic
Fill material: Crimped steel wire or brass wire

Rows	Body	Steel wire 0.15	Steel wire 0.20	Brass 0.20
3	wood	992837		
3	plastic			432.573
4	wood		720 S	720 M



File Cleaners

Field of application: Cleaning of files
Brush body: Wood
Fill material: Galvanized steel wire

Total length	Fill length	Fill width	Article No.
235	100	25	140.101
235	115	40	140.102
235	115	55	140.104



Custom-designed Hand Scratch Brushes

In case you have not discovered a hand brush suitable for your needs in the extensive standard brush program, then - as in almost all product groups - we are able to provide you with custom-made products, e.g.: different stocking material, material length, material thickness, etc.

Our technical engineers will be pleased to advise you.

Hand Scratch Brushes

- Field of application:** For all light rust removal and cleaning work
- Brush body:** Wood
- Fill material:** Oil tempered quality steel wire straight, high quality steel wire, stainless steel wire, brass wire (MS), bronze wire (BZ), Mexican fibre or nylon
- On demand:** Other materials are also available



Rows	Steel wire straight 0.35	Steel wire crimped 0.30	Stainless Steel crimped 0.30	VM wire crimped 0.25/0.35	MS wire crimped 0.20	MS wire crimped 0.30	BZ wire crimped 0.20/0.25	Fibre	Nylon
1	7211					7251-30			
2	7212	7222	7232		7252-20	7252-30	7292	7272	
3	7213	7223	7233	7203	7253-20	7253-30	7293	7273	
4	7214	7224	7234	7204	7254-20	7254-30	7294	7274	7284-40
4									7284-50
5	7215	7225	7235		7255-20	7255-30	7295	7275	
6	7216				7256-20		7296		

Hand Scratch Brushes for General Use

- Field of application:** Cleaning and derusting
- Brush body:** Metal curved
Plastic handle
- Fill material:** Quality steel wire crimped,
Stainless steel wire crimped
- On demand:** Crimped brass wire

Rows	Steel wire 0.30	Stainless steel 0.30
1	462.291	462.391



V-Shaped Brushes

- Field of application:** Cleaning and rust removal of grooves
- Brush body:** Wood
- Fill material:** Oil tempered quality steel wire straight, Stainless steel wire straight, trimming conically (V-shaped) punched
- On demand:** other stocking materials are also available

Rows	Steel wire straight 0.35	Stainless steel straight 0.35
3	162.133	162.333



Hand brush without handle / Block Brush

Field of application: Derusting of larger areas
Brush body: Wood
Fill material: Straight oil-hardened steel wire



Dimensions	Material strength	Rows	Art. No.
115 x 42	0.35	5 x 10	179.097

Street Brooms

Field of application: Cleaning of roads, sidewalks, etc.
Brush body: Wood with sloping stalk hole
 Broomstick: Art.No. **4.225** (1,400mm long)
 Art.No. **4.223** (1,600mm long)
Fill material: Elaston, Piassava,
 Steel wire straight, flat wire



Dimensions	Material	Material strength	Art. No.
210 x 60	Steel wire straight	0.40	120.097
300 x 60	Steel wire straight	0.50	102.095
300 x 60	Flat wire	1.2 x 0.25	101.016
300 x 80	Elaston (red)	0.95	4.106
350 x 70	Flat wire	1,2 x 0,20	101.036
400 x 80	Piassava		4.102
	Elaston (red)		4.107
500 x 80	Elaston (red)		4.108



Resilene broom

Art.No. **4.220 w.o handle** **Field of application:** Cleaning
Fill material: Resilene flagged
 Broomstick with metal thread: art. no. **4.227**



Rice straw broom

Field of application: Cleaning
Fill material: Rice-straw
 Art.No. **990002** 4 seams
 incl. broomstick
 Art.No. **993611** 5 seams
 incl. broomstick



Carwash Brush

Field of application: Cleaning of cars, buses and trucks
Brush body: Wood, 230mm wide, with plastic handle holder
 Broomstick: Art.No. **4.225** (1,400mm long)
 Art.No. **4.223** (1,600mm long)
Fill material: PVC flagged
 Visible material length = 70 mm



Art.Nr. **820**

Parlour / Hall Broom

Field of application: Cleaning of floors
Brush body: Raw, unpainted wood with a **straight handle hole**.
 From a length of 400 mm, the broom is delivered with a handle holder (Art No. **75.009**).
 Broomstick: Art. No. **4.225** (1,400mm long)
 Art. No. **4.223** (1,600mm long)

Fill material: Horsehair,
 Horsehair-Nylon-Mix(50:50),
 Mixed hair (100% synthetic fiber)
 Visible material length = 60 mm



Length in mm	Horsehair	Horsehair Mix	Mixed hair
280	4.200	4.205	4.210
400	4.201	4.206	4.211
600	4.202	4.207	4.212
800	4.203	4.208	4.213

Workshop / Garage Broom

Field of application: Cleaning of industrial floors
Brush body: Flat wooden shape, 60mm wide inclusive steel handle holder;
 Broomstick: Art.No. **4.225** (1,400mm long)
 Art.No. **4.223** (1,600mm long)

Fill material: Elaston - red plastic
 Oil- and leaching resistant
 Visible material length = 80 mm

Sweeping width in mm	Article No.
400	98.561
600	98.568
800	98.570
1,000	98.571



Handbroom, Swab

Field of application: Cleaning
Brush body: Raw, unpainted wood
Fill material: Horsehair, horsehair-nylon-mix,
 Mixed hair, steel wire crimped,
 Visible material length = 60 mm
 Mexican fibre or PVC-flagged



horsehair	horsehair mix	mixed hair	artificial root	steel wire 0,20	mex. fibre	PVC flagged
4.300	4.302	4.303	4.304	110.114	4.310	4.311

Roller Brushes - Custom-design

Required specifications:	<input type="checkbox"/>	Intended purpose
	<input type="checkbox"/>	Required / necessary RPM
	<input type="checkbox"/>	Dimensions (length, width, shaft dimension, free material length)
	<input type="checkbox"/>	Fill material
	<input type="checkbox"/>	Quantity

Since roller brushes and bar brushes are produced specially tailored to your requirements, advice from one of our technically trained employees is recommended.

Roller Brushes Mounted on Pipe - Type 15

(Similar to the circular brush type 100 R, but width over 40 mm)



Fill material:	Any type of crimped steel or brass wire, Mexico fibre or plastic materials	
Advantage:	Particularly dense trimming is possible	
Dimensions:	Ø:	50 – 350 mm
	Width:	40 – 700 mm

Roller Brushes with Spiral Lining - Type 16

Field of application:	Cleaning, washing, deburring, roughening, distributing, transporting	
Max. Dimension:	Ø:	50 - 500 mm
	Length:	to 6,000 mm



These rollers are either worked on a pipe or mounted on a shaft provided by you (max Ø 500 mm, max length 6,000 mm). The spirals can also be supplied as internally welded spiral brush packages, which are very suitable for self-assembly. Open (unmounted) spiral coverings are also possible (outer Ø maximum 500 mm, inner Ø minimum 30 mm).

Spiral profiles are available in 2.5 / 4 / 5.6 / 8 and 10 mm (as double belt 6, 8 and 10 mm).

Punched Roller Brushes - Type 17

Fill material: Nylon (polyamid 6.0, 6.6, 6.10 or 6.12), polypropylene, nylon with abrasive grain, horsehair, bristles, but also fine wires (steel, brass, bronze or stainless steel) are suitable

Dimensions: Max. Ø 400 mm, min. Ø 60 mm

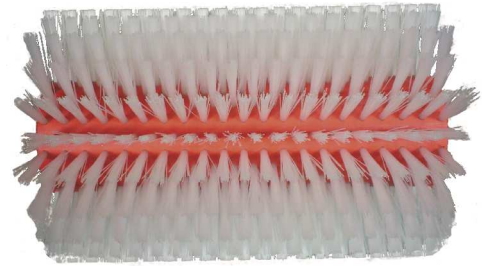
Max. length 3,000 mm

Maximal surface speed: 10 m/s

These rollers consist of a solid plastic core (PP, PA or POM-C) or a plastic tube that can be reduced at the ends and - as far as necessary - in the middle to any hole.

The desired stocking material is punched into pre-drilled holes.

The density is freely selectable depending on the application. The arrangement of the trim material can be done in rows offset or spiral.



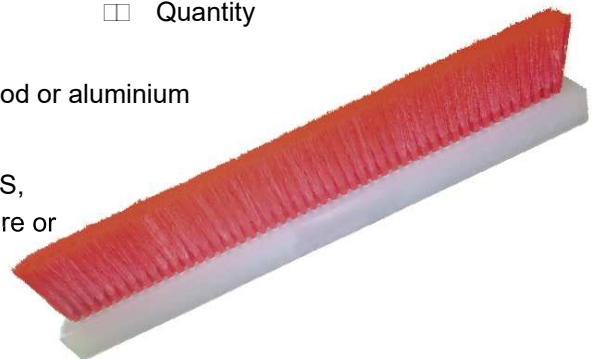
Punched Strip Brushes- Type 18

Since strip brushes are used in many different ways (sealing, stripping, braking), we need the following information in order to make an offer and to be able to produce your brushes:

- | | | |
|---|---|------------------------------------|
| <input type="checkbox"/> Length of brush body | <input type="checkbox"/> Width | <input type="checkbox"/> Height |
| <input type="checkbox"/> Free material length | <input type="checkbox"/> Row number | <input type="checkbox"/> Hole size |
| <input type="checkbox"/> Fill material | <input type="checkbox"/> Application area | <input type="checkbox"/> Quantity |

Brush body: Plastic (PP, PA, PVC or POM-C), wood or aluminium

Fill material: Nylon 6.0, 6.6, 6.10 or 6.12, nylon with abrasive grain, PP, PEEK or PPS, horsehair, bristle, mex. fibre, steel wire or stainless steel wire
Dimensions, density and design - as required

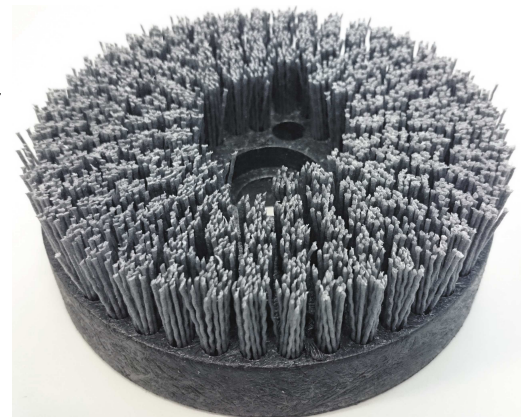


Punched Disc Brushes- Type 19

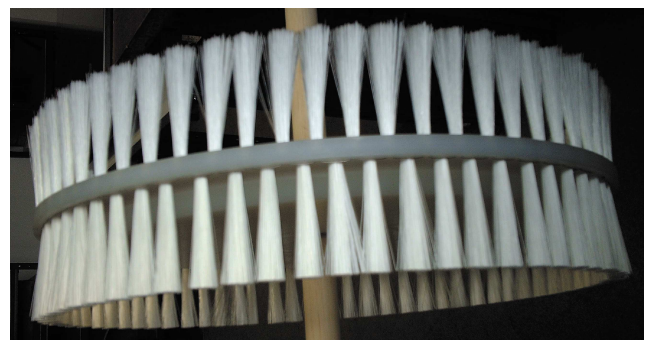
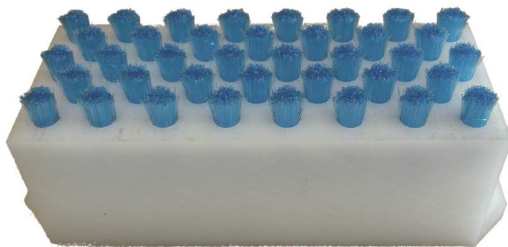
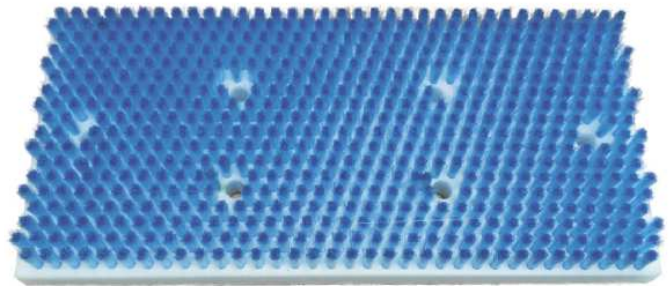
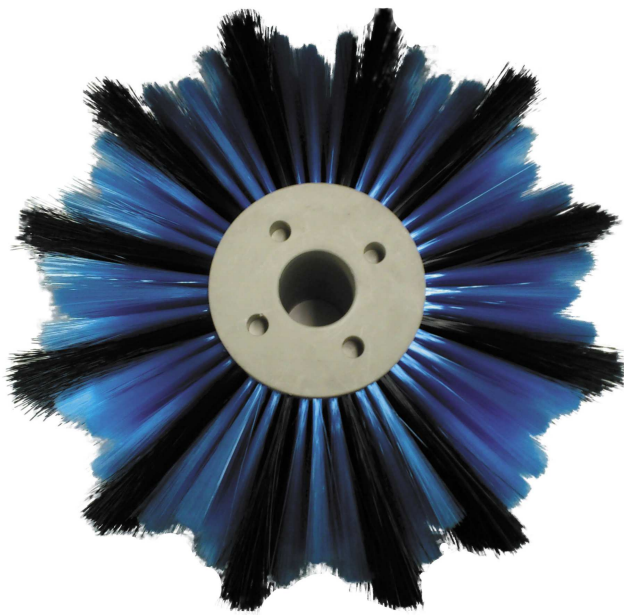
Disc brushes are usually used in a rotating manner for washing, polishing, brushing, structuring or deburring. They consist of a round body (plastic, wood or aluminium) in which the desired stocking material is punched. The arrangement of the stocking material can be full or segmental. The density should be selected according to the application.

Brush body: Plastic (PP, PA, PVC or POM-C), wood or aluminium

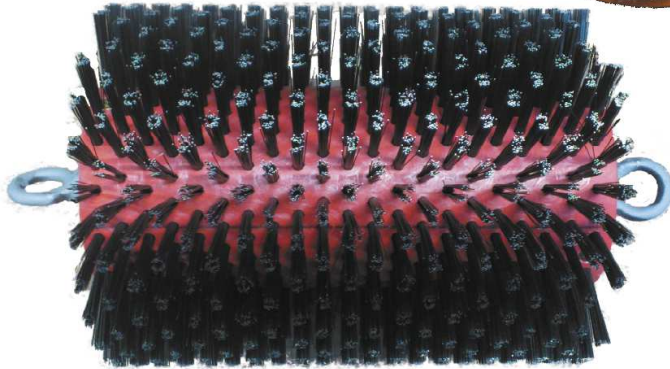
Fill material: Nylon 6.0, 6.6, 6.10 or 6.12, nylon with abrasive grain, PP, PEEK or PPS, horsehair, bristle, mex. fibre, steel wire or stainless steel wire
Dimensions, density and design - as required



Custom design for cheese dairies



Custom-design



Disc Brushes Type 24 for Sweeping machines

Field of application:	Floor cleaning
Brush body:	Plastic or wood
Fill material:	Flat steel wire or PP, flat steel wire mix



Flat wire FL 3,3 x 0,60 and / or PP 2,0 x 3,0

Body Ø	Sweep	Inner clearance	Attachment	Flat wire	Mix PP + FL	Plastic PP	Machine
300	520	50	3 x M10 TK.166	340.92			Schörling / Trilety
300	600	140	4 x M8 TK.220	430.92			MUT
350	650	120	4 x M10 TK.220			993923	Frimocar
400	700	100	3 x M10 (240-240-260)	330.92	330.88		Schörling/ Trilety/ Augl
450	750	200	4 x M10 TK.300	397.92		397.94	MUT
490	840	310	4 x Nut 15x24 TK.490	992904			Schmidt
700	1000	490	8 x M10 TK.550	398.92			MUT
795	1150	540	8 x M10 TK.670	992770			Broddson
920	1260	582	6 x M10 TK.780	992772			Brodd Scandia

Flachdraht FL 2,8 x 0,45 oder FL 2,8 x 0,45 + PP 2,0 x 3,0

Body Ø	Sweep Ø	Inner clearance	Attachment	Flat wire	Mix PP + FL	Machine
400	600	100	3 x M10 (240-240-260)	993164	993163	Tremo Carrier
400	750	100	3 x M10 (240-240-260)	992889		Johnston
450	750	200	4 x M10 TK.300	397.91		MUT
490	750	200	3xØ8 TK.295+4xM10 TK.420	992754	992849	Frimocar
490	750	270	3xØ8 TK.295+4xM10 TK.420	992862	993088	Frimocar
490	800	335	4 x Nut 15x24 TK.490	992963	993359	Schmidt
495	850	300	4 x M10 TK.403	992905	992807	Hako
550	800	120	3 x M10 LOA.140-140-140	328.91	328.98	Schörling/ Trilety/ Augl
700	1000	490	8 x M10 TK.550	398.91	398.90	MUT

The **service life** of the brushes depends very much on the material used, the surface to be swept and the contact pressure of the sweeper.

Very good **results** in the extension of the service life could be achieved by our customers, who used turntables with nylon or nylon mixed with flat steel wire.

Weed tufts and discs



For detailed information, please refer to our data sheet for weed tufts and plates, which we will gladly send you on request.

Roller Brushes Type 14 for Seeping machines

Field of application:	Street cleaning
Brush body:	Plastics or wood
Fill material:	PP soft (0,90 x 1,20) - red, PP average (1,40 x 1,80) - yellow, PP hard (2,0 x 3,0) - yellow Nylon - white / transparent Mixtures PP + crimped wire Nylon + crimped wire



Roller Brush Type 14 with mounting square 34x34mm and Ø 400mm for MUT

	PP	Mixture	PP	PP	Mixture	NY	Mixture	NY
Ø in mm	0,9x1,2 PP	0,9x1,2 PP +0,50 ST	1,4x1,8 PP	2,0x3,0 PP	2,0x3,0 PP +0,50 ST	1,50 NY	1,50 NY +0,50 ST	2,50 NY
650		419.82	419.34		419.80			
700	421.37	421.82	421.34	421.35		421.33	421.83	421.45
750	422.37	422.82	422.34		422.80	422.33		422.45

Roller Brush Type 14 with with mounting square 47x47mm and Ø 350mm for Optifant

	PP	Mixture	PP	Mixture
Ø in mm	0,9x1,2 PP	0,9x1,2 PP +0,50 ST	1,4x1,8 PP	1,4x1,8 PP + 0,50 ST
750	222.37	222.82	222.34	222.84

Roller Brush Type 14 with with mounting square 47x47mm and Ø 400mm for Schörling / Trilety

	PP	Mixture	PP	Mixture	NY	NY
Ø in mm	0,9x1,2 PP	0,9x1,2 PP +0,50 ST	1,4x1,8 PP	1,4x1,8 PP +0,50 ST	1,50 NY	2,50 NY
500	320.37	320.82	320.34	320.84	320.33	
750	322.37	322.82	322.34		322.33	322.45

We supply **replacement brushes** for the following sweepers:

•Broddson/ Brodscandia, •Bucher, •City Cat, •Fries, •Frimocar, •Hako, •HMF, •Hochdorf, •Johnson, •MUT, •Schmidt/Unimog, •Schörling/Trilety, •Tennant, •Tuchel

By customer specification we can also manufacture brushes for sweeping machines that are not listed here.

Roller Brush Rings - 120 R

Fill material:

PP = Polypropylen
NY = Nylon (Polyamide)

VZ = galvanized crimped steel wire

Outside-Ø in mm	Inner-Ø in mm	Material		Article No.
350	77	PP	0,90 x 1,20	12.350077PP
380	127 (=5")	PP	1,20	12.380127PP12
		PP	1,50	12.380127PP15
		PP	1,50 x 2,50	12.380127PP20
		NY	1,50	12.380127NY
		VZ	0,70	12.380127VZ
400	100	PP	1,60	12.400100PP
	127 (=5")	PP	1,50 x 2,50	12.400127PP20
		VZ	0,70	12.400127VZ
450	110	PP	2,00 x 3,00	12.450110PP
	127 (=5")	PP	2,00 x 3,00	12.450127PP
500	127 (=5")	PP	2,00 x 3,00	12.500127PP
	254 (=10")	PP	2,00 x 3,00	12.500254PP
		VZ	0,70	12.500254VZ
550	178 (=7")	VZ	0,70	12.550178VZ
600	127 (=5")	PP	2,00 x 3,00	12.600127PP
	178 (=7")	PP	2,00 x 3,00	12.600178PP
		VZ	0,70	12.600178VZ
	254 (=10")	PP	2,00 x 3,00	12.600254PP
		VZ	0,70	12.600254VZ
700	178 (=7")	PP	1,70 x 2,80	12.700178PP
750	220	PP	2,00 x 3,00	12.750220PP
800	178 (=7")	PP	2,00 x 3,00	12.800178PP
	220	PP	1,70 x 2,80	12.800220PP
		VZ	0,70	12.800220VZ
915	254 (=10")	PP	1,70 x 2,80	12.915254PP
		VZ	0,70	12.915254VZ
925	220	PP	1,70 x 2,80	12.925220PP
		VZ	0,70	12.925220VZ



Spacer Rings

Inside Ø in		Width in mm	Article No.
mm	Inches		
77	3"	27	12.077
110		28-30	12.110
127	5"	27	12.127
178	7"	27	12.178
220		27	12.220
254	10"	27	12.254



Replacement Tufts for Disc / Roller Brushes 130R

Fill material:

Flat steel wire 1,8 x 0,45 or
2,8 x 0,45 PA or PP

Tuft width:

50, 70, 80 and 90 mm





General Terms And Conditions

Status as of April 2020

I. General

The following General Terms and Conditions of Business, hereinafter referred to as „GTC“, apply to all offers, deliveries and services, including information and advice provided by Technische Industrie Buersten Ingrisch GesmbH, hereinafter referred to as „TIB“. These General Terms and Conditions apply to all consumers within the meaning of §1 of the Consumer Protection Act (KSchG) and entrepreneurs within the meaning of §1 of the Company Code (UGB), hereinafter referred to as „Customer“.

Unless expressly agreed otherwise, these General Terms and Conditions also apply to all future business relations with the Customer, even if TIB does not expressly refer to them again when the contract is concluded.

Conflicting General Terms and Conditions of the Customer are not agreed, even if TIB does not expressly object to them. The Customer's General Terms and Conditions, additions, changes or subsidiary agreements to TIB's GTC require the express written consent of TIB to be valid. This also applies to the cancellation of the written form requirement.

II. Offers

The offers of TIB are non-binding and subject to confirmation. Unless otherwise agreed in writing and subject to the same material and raw material prices, they are valid for 90 days from the date of the offer.

Furthermore, the offers submitted remain valid only if the requested quantity and quality are ordered.

A contract is only concluded on the basis of an offer if the order is confirmed in writing by TIB in the context of an order confirmation. It can be agreed with the Customer that the delivery or service according to the order is carried out without a separate order confirmation.

III. Prices

All deliveries are calculated on the basis of the respectively valid price lists, partial deliveries are permitted. The prices are ex works / ex warehouse Klosterneuburg. The prices valid on the day of delivery are decisive for the calculation of the prices. In the event of a significant change in circumstances, in particular wages, freight, insurance costs, customs duties and other charges, TIB is entitled to calculate the prices applicable on the day of delivery on this basis. This does not apply in the event that a price has been expressly designated as a fixed price - with a period of validity.

The prices according to the price list are net prices in Euros. These apply plus the applicable value added tax VAT.

Offered prices can only be maintained if the requested quantity and quality are also ordered unchanged. Otherwise, TIB reserves the right to recalculate the price.

The prices of TIB are non-binding, subject to change. Unless otherwise agreed in writing, they are valid for 90 days from the date of the offer. This applies subject to constant material and raw material prices. In the event of an increase in the prices of materials and raw materials, TIB is entitled to recalculate the prices in deviation from the offer submitted.

IV. Terms of Payment

Unless otherwise agreed in writing, advance payment is required - payment before shipment without deduction to the account specified by TIB.

V. Delivery Timeframes And Shipping Policy

TIB is not bound to a fixed delivery period. The specified dates and deadlines for deliveries and services are non-binding, unless expressly agreed otherwise in writing.

Deadlines only start to run when all details of the execution have been agreed and, if necessary, the customer has provided the information, documents and materials to be procured and, insofar as prepayment or a down payment has been agreed, has made this. Failure to cooperate and requests for changes by the customer lead to a reasonable postponement of the dates / extension of the deadlines.

The time of dispatch is decisive for compliance with the delivery dates / deadlines.

Unpredictable and unavoidable events (e.g. war, conditions similar to war, lack of energy and raw materials, sabotage, strike) as well as all other operational disruptions for which the TIB is not responsible or official influences release the TIB from the obligation to deliver and perform for the duration of their existence. This also applies in the event that these events occur during an already existing delay. Deadlines and dates will then be extended to an appropriate extent. Incidentally, this also applies in the event of non-timely or incorrect deliveries or services on the part of TIB's suppliers.

In the event of non-compliance with deadlines and dates for other reasons, the customer can, if it can be proven that damage has arisen from the delay, compensation for delay for every completed week of the delay of 0.5% up to a total of 5% demand the value of the respective part of the delivery, the delivery of which TIB is in default. Further claims by the customer are excluded in all cases of late delivery, even after a grace period set by TIB has expired. The exclusion of liability does not apply in the event that the TIB has mandatory legal liability.

The risk of accidental loss or accidental deterioration of the goods passes to the customer upon delivery at the place of performance. This also applies if partial deliveries are made or additional services (such as shipping or shipping costs) have been taken over by the TIB.

The TIB is entitled to partial deliveries and partial services if the customer is informed in good time that the remaining quantity will be delivered within a reasonable period and this is reasonable for the customer.

If the delivery is delayed for reasons for which the customer is responsible, he shall bear the proven costs arising from this for TIB. In this case, the risk of accidental loss or accidental deterioration also passes to the customer upon notification of readiness for dispatch.

In the case of a custom-made product, TIB is entitled to deliver and invoice a quantity deviation of +/- 10% of the order quantity due to production.

VI. Shipping

TIB reserves the right to choose the shipping route and the shipping method. The customer bears the risk of transport in accordance with the general statutory provisions, including the risks of breakage and shrinkage during shipping. Shipping is at the expense of the customer.

VII. Manufactured according to the customer's instructions / custom-made products

Custom-made products carried out on the instructions of the customer are carried out in accordance with the technical options available at TIB.

If no manufacturing tolerances are specified in the offer, these are determined by the technical possibilities available at TIB, whereby conscientious execution is guaranteed by TIB.

In the case of custom-made products or the manufacture of products according to the customer's instructions, insofar as these are based on customer drawings, samples or other instructions from the customer, TIB accepts no guarantee or liability for the functionality of the product and for any defects, insofar as these are based on the customer instructions.

The customer releases TIB from all claims by third parties due to damage caused by the products, insofar as these are based on customer drawings, samples and other instructions from the customer. This also applies to claims arising from product liability.

The customer guarantees to TIB, that the manufacture and delivery of the goods manufactured according to its instructions do not violate any third-party property rights. In the event of the assertion of property rights by third parties, TIB is entitled to withdraw from the contract after hearing the customer, unless the third party withdraws the enforcement of the property rights within a reasonable period of time by means of a written declaration to TIB. The customer is obliged to compensate TIB for any damages and costs incurred by the enforcement of property rights. In the event of withdrawal, the costs of the work previously performed by TIB must be reimbursed by the customer.

VIII. Technical changes and quantity deviations

Unless expressly agreed otherwise, TIB reserves the right to make technically necessary or expedient changes (in particular with regard to the design, choice of material, specification, type), as far as these changes have been communicated to the customer in advance and his interests have been taken into account.

IX. Complaints

Obvious defects must be reported to TIB in writing within 14 days of receipt of the goods, other defects within a test period of 30 days.

Complaints do not entitle the customer to a reduction or withhold the purchase price. In the case of complaints acknowledged by TIB, the following warranty conditions apply exclusively.

X. Warranty

The statutory warranty periods apply, unless special warranty periods have been expressly agreed in writing for individual delivery items.

A warranty claim by the customer is excluded if the defect is due to improper handling of the goods. Due to the fact that brushes are wearing parts and their lifespan is therefore very much dependent on the conditions of use, any warranty, guarantee or liability with regard to the lifespan of the products supplied by TIB is expressly excluded. A warranty claim is also excluded if the customer or third parties have processed the goods or have tried to remedy the defect.

In the event of defects, the customer is not entitled to change or to a reduction. Exceptions to this rule are cases in which the customer is legally entitled to change.

TIB is entitled to rectify a defect that has been announced in due time, to replace the defective goods in whole or in part, or to grant a price reduction.

The customer bears the burden of proof that a defect, that occurred and was reported within 6 months after delivery, was already present when delivery was handed over.

The customer is responsible for the correct use of the goods supplied by TIB. Any use other than that intended is to be avoided and releases the TIB from any liability and warranty. The TIB assumes no liability for consequential damage arising from the improper use of the delivered products or from the failure of the delivered products.

Recourse by the customer in accordance with § 933b ABGB, which has guaranteed a consumer for the goods delivered by TIB, is excluded towards TIB.

The customer is responsible for the correct use of the goods supplied by TIB. Any use other than that intended is to be avoided and releases the TIB from any liability and warranty. TIB assumes no liability for consequential damage arising from the improper use of the delivered products or from the failure of the delivered products.

Recourse by the customer in accordance with § 933b ABGB, which has guaranteed a consumer for the goods delivered by TIB, is excluded towards TIB.

Processing, resale or repair of the goods and services supplied by TIB, by the customer or third parties, without the written consent of TIB, is deemed to be an unconditional acceptance of the goods and services, so that all claims arising from warranty or compensation expire. The customer, on the other hand, undertakes to indemnify TIB from third-party claims for damages, insofar as this is legally possible, and to indemnify and hold TIB harmless in any case.

Any measures taken by TIB to reduce the damage are not considered to be acknowledgment of defects. Conducting settlement negotiations does not lead to a waiver of the objection, that a complaint is not timely, factually unfounded or otherwise insufficient.

TIB is only liable for intent and gross negligence, liability for slight negligence is excluded. Compensation for consequential and pecuniary damage, savings not achieved, loss of interest, lost profit or damage from third party claims against the customer is excluded.

Claims for damages by the customer are also limited in amount by the liability insurance sum of the liability insurance taken out by TIB and / or to the extent to which TIB provides upstream suppliers, transporters or carriers.

Claims by customers against TIB in connection with warranty and / or compensation claims or the like may not be assigned.

XI. Other claims for damages

Claims for damages by the customer, regardless of the legal reason, in particular due to breach of obligations from the contractual obligation and from unlawful acts, are excluded, except in the case of intent or gross negligence on the part of TIB. The exclusion of liability also does not apply in cases in which TIB or its vicarious agents are compulsorily liable for injury to life, limb or health or for taking over a guarantee for the existence of a property.

Liability under the Product Liability Act remains unaffected. A change in the burden of proof to the detriment of the customer is not associated with the above regulations.

XII. Retention of title

TIB retains ownership of all goods delivered by it until the purchase price has been paid in full and any additional claims that may have arisen.

XIII. Property rights

With the sale of goods manufactured by TIB, the rights associated with them, such as, in particular, patent, trademark, design protection, copyright and other rights, do not pass to the customer. TIB reserves ownership, copyright and other industrial property rights on all documents transmitted and provided to the customer. They may not be made accessible to third parties or used commercially and must be returned to TIB immediately upon request, together with all copies and copies made.

In the event that a special order or a production takes place according to the instructions of the customer, the necessary for the execution of the order by TIB or on its behalf, such as molds, tools and construction documents, are the exclusive property of TIB. The customer is not entitled to any claims whatsoever, even if he has contributed to the costs for the production, such as the molds, tools and construction documents.

TIB is entitled to destroy the corresponding forms, tools, construction documents and the like no later than 5 years after the last customer order has been executed.

XIV. Data processing

The customer acknowledges that TIB stores personal and company-related data of the customer. The customer gives his express consent, which can be revoked in writing at any time.

XV. Final provisions

German is the only contract language.

For all legal transactions, the application of Austrian law is agreed, excluding of the United Nations Convention on Contracts for the International Sale of Goods and all reference standards. If a customer is a consumer within the meaning of the KSchG, the court responsible for any legal disputes is the court in whose district the domicile, habitual residence or place of employment of the customer is located. In all other cases, only the competent court in Vienna has been agreed as the place of jurisdiction.

Klosterneuburg has been agreed as the place of performance. Amendments, additions and subsidiary agreements to these terms and conditions must be in writing to be effective. This also applies to agreements to waive this formal requirement.

As far as these General Terms and Conditions contain loopholes, those legally effective regulations are considered agreed to fill these gaps, which the contracting parties would have agreed according to the economic objectives of the contract and the purpose of these Terms and Conditions if they had recognized the loopholes.

Should individual provisions of these general terms and conditions be or become invalid, the remaining content of these general terms and conditions will not be affected. To the extent permitted by law, the ineffective provision is to be replaced by an effective provision that most closely corresponds to the common will of the contracting parties at the time these GTC were concluded.

Deliveries and declarations of intent are legally effective until the written announcement of another address to the address specified by the customer in the order. In the case of other damages, the customer is obliged to immediately notify changes in name, address and other essential circumstances in writing. In the event of failure to do so, any written notification that was sent to the customer's last published address is considered sufficient to meet the requirements for effective delivery.

The customer is obliged to provide the relevant data completely and correctly when the contract is concluded. In the event of incorrect, incomplete and unclear information provided by the customer, the customer is liable for all damage and costs incurred by TIB.
