



Portable hand drill

- variable speed, hammer drills, etc.
- suitable for all makes
- operating speed approx. 1,500 – 3,500 RPM



Wheel brushes

- knotted wire
- crimped wire
- abrasive filament
- plastic-bonded wire fill



Cup brushes

- knotted wire
- crimped wire
- abrasive filament
- plastic-bonded wire fill



End brushes

- crimped wire
- abrasive filament
- plastic-bonded wire fill



Flap wheel brushe

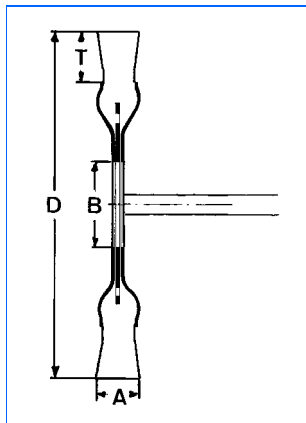
- crimped steel wire
- abrasive filament
- fibre



Tube brushes

- steel wire
- abrasive filament



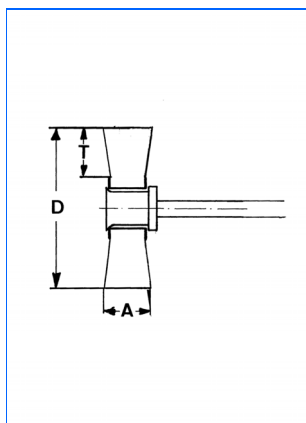


Wheel brushes, knotted wire

aggressive type

Area of application generally	Deburring, removing lacquer, derusting, removing slag, descaling, cleaning of weld seams
Area of application particularly	Brushes for extreme applications for use at high surface speeds.

Dimensions [mm]				Arbor hole [mm]		Shank [mm]		max. min ⁻¹	Pack. Qty.	Steel wire	Steel wire	Stainless steel wire	
D	A	T	B							0,35 mm Item No.	0,50 mm Item No.	0,50 mm Item No.	
75	12	15	13					20.000	12	0002-611 131	0002-611 151		
75	12	18				6		20.000	12	0202-611 131	0202-611 151	0202-611 351	



Wheel brushes, crimped wire

with 6 mm shank

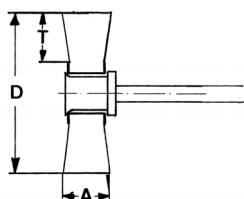
Area of application generally	Roughening, deburring, removing lacquer, removing slag, descaling, depolishing, cleaning, bright homogeneous surfaces
Area of application particularly	Due to their small diameter these brushes are ideal for brushing hard-to-reach areas. With medium fill material density. For light or medium brush applications.

Dimensions [mm]				max. min ⁻¹		Pack. Qty.	Steel wire	Steel wire	Steel wire	Steel wire
D	A	T					0,15 mm Item No.	0,20 mm Item No.	0,30 mm Item No.	0,50 mm Item No.
20	6	4		20.000		10	0002-501 132	0002-501 142		
20	9	4		20.000		10		0002-501 143		
30	6	6		20.000		10		0002-502 141		
30	9	6		20.000		10	0002-502 132	0002-502 142		
30	12	6		20.000		10		0002-502 143		
40	7	10		18.000		10		0002-503 141		
40	11	10		18.000		10	0002-503 132	0002-503 142		
40	16	10		18.000		10		0002-503 143		
50	10	13		15.000		10		0002-504 141	0002-504 161	
50	17	13		15.000		10	0002-504 132	0002-504 142	0002-504 162	
50	23	13		15.000		10		0002-504 143	0002-504 163	
60	12	15		15.000		10		0002-505 141	0002-505 161	
60	18	15		15.000		10	0002-505 132	0002-505 142	0002-505 162	
60	23	15		15.000		10		0002-505 143	0002-505 163	
70	11	15		15.000		10		0002-506 141	0002-506 161	
70	18	15		15.000		10	0002-506 132	0002-506 142	0002-506 162	
70	23	15		15.000		10		0002-506 143	0002-506 163	
70	10	14		15.000		10				5183-506 192
80	19	20		15.000		10		0002-507 142	0002-507 162	

Dimensions "A" can vary according to wire quality and size.

Recommended operating speed approx. 50 % of the maximum rpm.

Other threads, dimensions and wire sizes on request. The standard stocked items are printed in **bold type**!



Wheel brushes, crimped wire

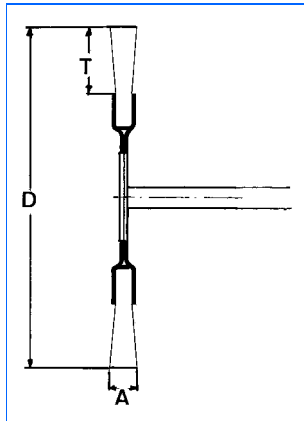
with 6 mm shank

Area of application generally	Roughening, deburring, removing lacquer, removing slag, de-scaling, depolishing, cleaning, bright homogeneous surfaces
Area of application particularly	Due to their small diameter these brushes are ideal for brushing hard-to-reach areas. With medium fill material density. For light or medium brush applications.

Dimensions [mm]			max. min ⁻¹	Pack. Qty.	Stainless steel wire	Stainless steel wire	Stainless steel wire	Brass wire
D	A	T			0,15 mm Item No.	0,20 mm Item No.	0,30 mm Item No.	0,20 mm Item No.
20	6	4	20.000	10	0002-501 332	0002-501 342		
20	9	4	20.000	10	0002-501 333	0002-501 343		0002-501 542
30	6	6	20.000	10		0002-502 341		
30	9	6	20.000	10	0002-502 332	0002-502 342		0002-502 542
30	12	6	20.000	10	0002-502 333	0002-502 343		
40	7	10	18.000	10	0002-503 331	0002-503 341		
40	11	10	18.000	10	0002-503 332	0002-503 342		0002-503 542
40	16	10	18.000	10	0002-503 333	0002-503 343		
50	10	13	15.000	10		0002-504 341	0002-504 361	
50	17	13	15.000	10	0002-504 332	0002-504 342	0002-504 362	0002-504 542
50	23	13	15.000	10		0002-504 343	0002-504 363	
60	12	15	15.000	10		0002-505 341	0002-505 361	
60	18	15	15.000	10	0002-505 332	0002-505 342	0002-505 362	0002-505 542
60	23	15	15.000	10		0002-505 343	0002-505 363	
70	11	15	15.000	10		0002-506 341	0002-506 361	
70	18	15	15.000	10	0002-506 332	0002-506 342	0002-506 362	0002-506 542
70	23	15	15.000	10		0002-506 343	0002-506 363	
80	10	20	15.000	10			5162-507 361	
80	19	20	15.000	10		0002-507 342	0002-507 362	0002-507 542

Dimensions "A" can vary according to wire quality and size.

Recommended operating speed approx. 50 % of the maximum rpm.

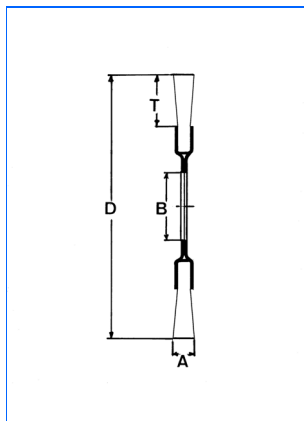


Wheel brushes, crimped wire

do-it-yourself model, with 6 mm shank

Area of application generally	Deburring, removing lacquer, derusting, removing slag, de-scaling, cleaning
Area of application particularly	Brush with medium fill density, for cleaning jobs such as removing paint, rust, scale, incrustations and burrs - with efficient brushing results.

Dimensions [mm]				Steel wire		Steel wire	Brass wire	
D	A	T		max. min ⁻¹	Pack. Qty.	crimped, coarse Item No.	crimped, fine Item No.	crimped, fine Best.-Nr.
40	5	10		4.500	20	0008-600 121	0003-600 111	
50	7	10		4.500	20	0008-600 221	0003-600 211	
63	9	13		4.500	20	0008-600 321	0003-600 311	
75	10	16		4.500	10	0008-600 421	0008-600 411	0502-600 451
75	15	16		4.500	10	0008-600 422	0003-600 412	
100	12	22		4.500	10	0008-600 521	0008-600 511	
100	17	22		4.500	10	0008-600 522	0003-600 512	

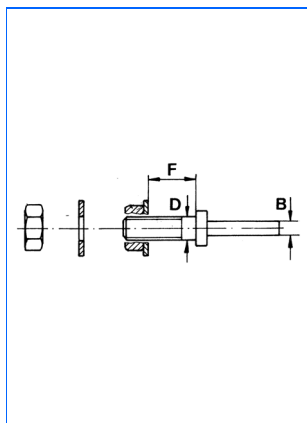


Wheel brushes, crimped wire

do-it-yourself model with arbor hole

Area of application generally	Deburring, removing lacquer, derusting, descaling, cleaning
Area of application particularly	These brushes can be mounted individually (type II) on a drive arbor or in multiples (type I) to give a larger face width.

Dimensions [mm]				Steel wire		Steel wire		
D	A	T	Arbor hole B	max. min ⁻¹	Pack. Qty.	crimped, coarse Item No.	crimped, fine Item No.	
50	7	10	9,6	4.500	20	0008-601 221	0003-601 211	
63	9	13	9,6	4.500	20	0008-601 321	0003-601 311	
75	10	16	9,6	4.500	10	0128-601 421	0123-601 411	
75	10	16	12,7	4.500	10	0008-601 421	0003-601 411	
100	12	22	12,7	4.500	10	0008-601 521	0003-601 511	

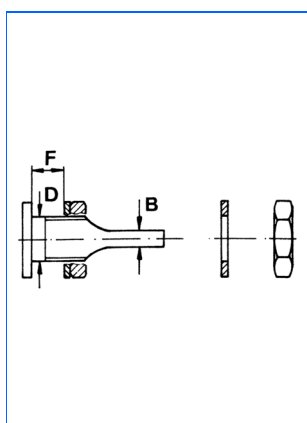


Drive Arbors

Type I

Area of application generally	For the mounting of brushes up to max. 20 mm face width on drills
Area of application particularly	For wheel brushes with arbor hole. Brushes can be mounted up to a face width of max. 20 mm.

Dimensions [mm]				Item No.			
D	D"	shank	F				
10		6	20	0003-000 100			
13		6	20	0003-000 130			
12,7	1/2"	6	20	0004-000 127			
6,35	1/4"	6	20	0004-000 063			
9,52	3/8"	6	20	0004-000 095			

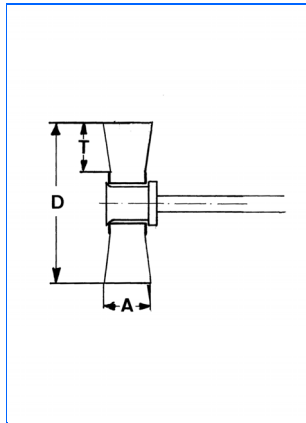


Drive Arbors

Type II

Area of application generally	For the mounting of brushes up to max. 11 mm face width on drills
Area of application particularly	For wheel brushes with arbor hole. Brushes can be mounted up to a face width of max. 11 mm.

Dimensions [mm]				Item No.			
D"	B		F				
3/8"	6		11	9907-075 128			
1/2"	6		11	9907-075 129			
5/8"	6		11	9907-075 130			

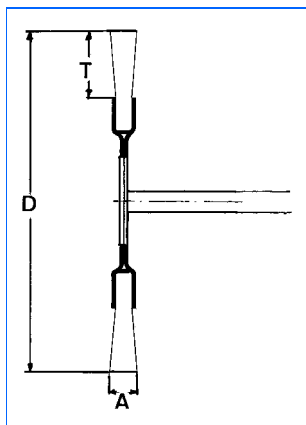


Brushes for wood graining

with 8 mm shank

Area of application generally	Wood graining
Area of application particularly	The fill material of these brushes is cord wire (brass coated steel wire, bundled) which gives good abrasion on both soft and hard woods. The depth of graining required is controlled through adjustment of the feed speed and repetition of the operation.

Dimensions [mm]				Cordwire				
D	A	T	max. min ⁻¹	Pack. Qty.	0,25 mm Rusticord Item No.			
80	35	25	4.000	1	0908-507 061			

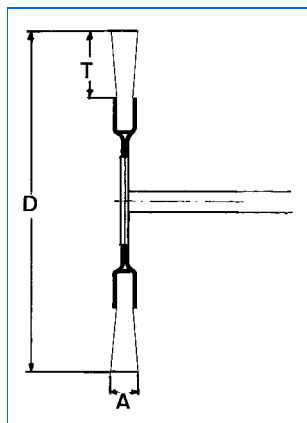


Wheel brushes with abrasive filament, aluminiumoxide

"Grittyflex" with 6 mm shank

Area of application generally	Removing lacquer, dedusting, smoothing, depolishing, cleaning, wood graining
Area of application particularly	The fill material of these brushes adapts itself ideally to the profile of the work piece without damaging the surface. During use, new abrasive grits are continuously exposed, so giving optimum abrasive performance.

Dimensions [mm]				Abrasive filament				
D	A	T	max. min ⁻¹	Pack. Qty.	red, Grit 80 Item No.	blue, Grit 180 Item No.		
75	16	10	4.500	10	0802-600 491	0182-600 491		
100	23	10	4.500	10	0802-600 591	0182-600 591		

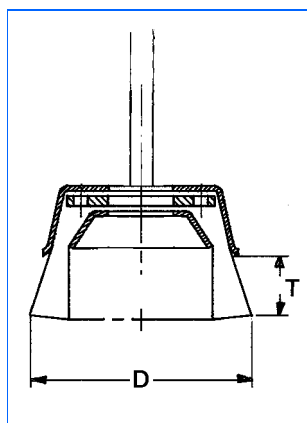


Wheel brushes, crimped wire, plastic-bonded

with 6 mm shank

Area of application generally	Deburring, removing lacquer, derusting, removing slag, de-scaling, cleaning
Area of application particularly	Safety brushes are ideal for removing paint and varnish, for deburring and cleaning different surfaces. Advantages of these brushes: TÜV-examined (association for technical inspection), tenfold brush life, wire does not break.

Dimensions [mm]				max. min ⁻¹	Pack. Qty.	Brass coated steel wire crimped, rubber-bonded 0,30 mm Item No.			
D	A	T							
63	8	20		15.000	12	0002-911 941			
76	8	26		15.000	12	0002-911 951			

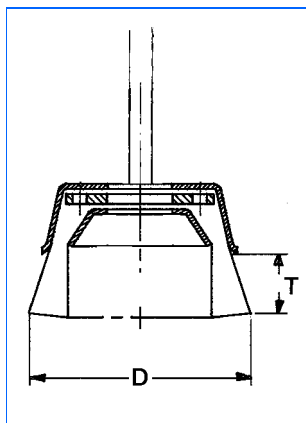


Cup brushes, knotted wire

6 mm shank, aggressive type

Area of application generally	Roughening, deburring, removing lacquer, de-scaling, cleaning
Area of application particularly	Brush for extreme applications. For brushing flat surfaces.

Dimensions [mm]				max. min ⁻¹	Pack. Qty.	Steel wire 0,50 mm Item No.			
D	T								
65	23			6.000	12	1004-608 151			

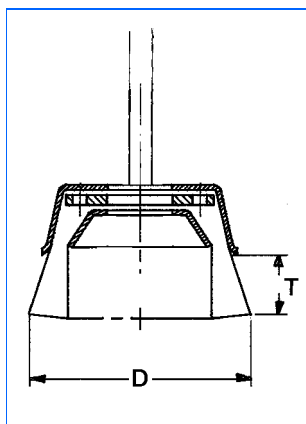


Cup brushes, crimped wire

do-it-yourself model with 6 mm shank

Area of application generally	Deburring, removing lacquer, derusting, descaling, cleaning
Area of application particularly	Brush with medium fill density, for cleaning jobs such as removing paint, rust, scale, incrustations and burrs - with efficient brushing results.

Dimensions [mm]				Steel wire	Steel wire	Brass wire	
D	T	max. min ⁻¹	Pack. Qty.	crimped, coarse Item No.	crimped, fine Item No.	crimped, fine Item No.	
50	17	4.500	20	0008-600 821	0008-600 811	0023-600 851	
60	20	4.500	10	0008-600 823	0003-600 813		
75	20	4.500	10	0008-600 921	0008-600 911		
80	23	4.500	10	0008-601 921	0003-601 911		

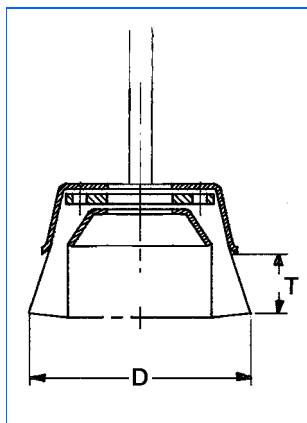


Cup brushes with abrasive filament, aluminiumoxide

"Grittyflex" with 6 mm shank

Area of application generally	Removing lacquer, dedusting, smoothing, depolishing, cleaning, wood graining
Area of application particularly	The fill material of these brushes adapts itself ideally to the profile of the work piece without damaging the surface. During use, new abrasive grits are continuously exposed, so giving optimum abrasive performance.

Dimensions [mm]				Abrasive filament	Abrasive filament		
D	T	max. min ⁻¹	Pack. Qty.	red, Grit 80 Item No.	blue, Grit 180 Item No.		
50	17	4.500	10	0802-600 891	0182-600 891		
75	23	4.500	10	0802-600 991	0182-600 991		

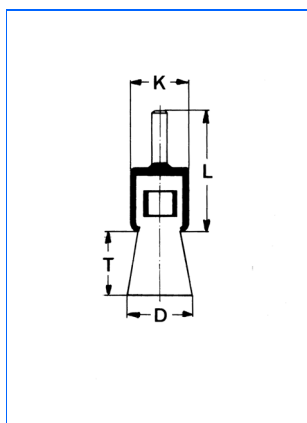


Cup brushed, crimped wire,

with 6 mm shank

Area of application generally	Deburring, removing lacquer, derusting, removing slag, de-scaling, cleaning
Area of application particularly	Safety brushes are ideal for removing paint and varnish, for deburring and cleaning different surfaces. Advantages of these brushes: TÜV-examined (association for technical inspection), tenfold brush life, wire does not break.

Dimensions [mm]				Brass coated steel wire			
D	T	max. min ⁻¹	Pack. Qty.	crimped, rubber-bonded 0,30 mm Item No.			
50	15	15.000	6	0002-930 821			



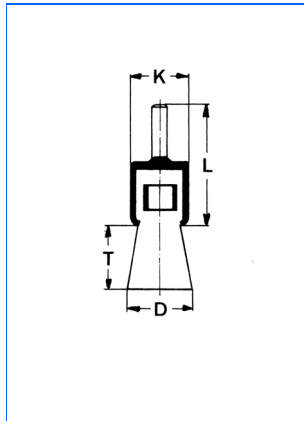
End brushes, crimped wire

with 6 mm shank, for use in drills and other high speed electric tools

Area of application generally	Roughening, deburring, removing lacquer, removing slag, de-scaling, depolishing, cleaning
Area of application particularly	For removing burrs, rust, cinder, scale, paint, excess rubber, residues of combustion and other heavy contamination in hard-to-reach areas and internal surfaces.

Dimensions [mm]				max. min ⁻¹	Pack. Qty.	Steel wire	Steel wire	Steel wire	
D	T	K	L			0,20 mm Item No.	0,30 mm Item No.	0,50 mm Item No.	
10	20	10	45	20.000	12	0003-509 141	0003-509 161	0003-509 191	
17	25	15	45	18.000	12	0002-509 142	0002-509 162	0002-509 192	
25	25	22	45	18.000	12	0002-509 143	0002-509 163	0002-509 193	
30	25	28	45	15.000	12	0002-509 144	0002-509 164	0002-509 194	

Dimensions [mm]				max. min ⁻¹	Pack. Qty.	Stainless steel wire	Stainless steel wire	Brass wire	Brass wire
D	T	K	L			0,20 mm Item No.	0,30 mm Item No.	0,20 mm Item No.	0,30 mm Item No.
10	20	10	45	20.000	12	0003-509 341	0003-509 361	0003-509 541	0003-509 561
17	25	15	45	18.000	12	0002-509 342	0002-509 362	0002-509 542	0002-509 562
25	25	22	45	18.000	12	0002-509 343	0002-509 363	0002-509 543	0002-509 563
30	25	28	45	15.000	12	0002-509 344	0002-509 364	0002-509 544	0002-509 564

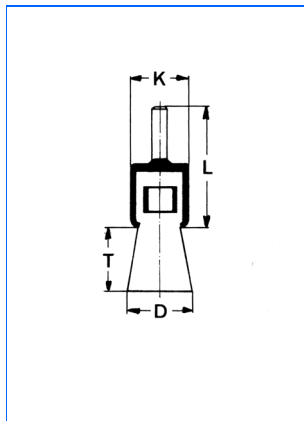


End brushes, crimped wire

do-it-yourself model, with 6 mm shank
for use in drills

Area of application generally	Roughening, deburring, removing lacquer, removing slag, de-scaling, depolishing, cleaning
Area of application particularly	For removing burrs, rust, cinder, scale, paint, excess rubber, residues of combustion and other heavy contamination in hard-to-reach areas and internal surfaces.

Dimensions [mm]						Steel wire			
D	A	T	K	L	max. min ⁻¹	Pack. Qty.	crimped, 0,30 mm Item No.		
12	20	10	45		4.500	20	0008-509 161		
17	25	15	45		4.500	12	0008-509 162		
25	30	24	50		4.500	12	0008-509 163		
30	35	29	50		4.500	12	0008-509 164		

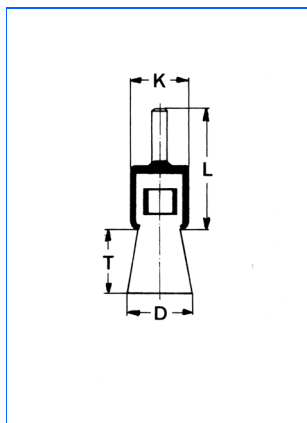


End brushes with abrasive fill material, aluminiumoxide

"Grittyflex" with 6 mm shank

Area of application generally	Removing lacquer, dedusting, smoothing, depolishing, cleaning, wood graining
Area of application particularly	The fill material of these brushes adapts itself ideally to the profile of the work piece without damaging the surface. During use, new abrasive grits are continuously exposed, so giving optimum abrasive performance.

Dimensions [mm]						Abrasive filament	Abrasive filament		
D	T	K	L	max. min ⁻¹	Pack. Qty.	red, Grit 80 Item No.	blue, Grit 180 Item No.		
25	25	22	45	4.500	12	0812-509 913	1812-509 913		

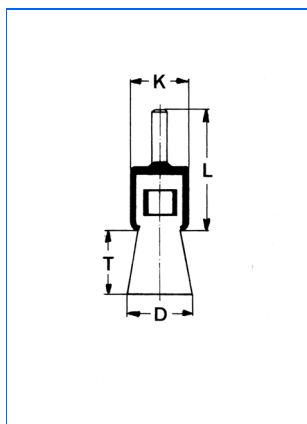


End brushes, abrasive fill material, silicium carbide

Area of application generally	Roughening, deburring, removing lacquer, descaling, depolishing
Area of application particularly	The fill material of these brushes adapts itself ideally to the profile of the work piece without damaging the surface. During use, new abrasive grits are continuously exposed, so giving optimum abrasive performance.

Dimensions [mm]						Abrasive filament	Abrasive filament	Abrasive filament	
D	T	K	L	Shank-Ø	max. min ⁻¹	Pack. Qty.	Grit 120* Item No.	Grit 180* Item No.	Grit 320* Item No.
10	25	10	50		5.000	12		1802-509 911	3202-509 911
15	25	15	43		5.000	12	1202-509 912	1802-509 912	3202-509 912
22	25	22	43		5.000	12	1202-509 913	1802-509 913	3202-509 913
28	25	28	45		5.000	12	1202-509 914	1802-509 914	3202-509 914

* Other grit sizes on request.

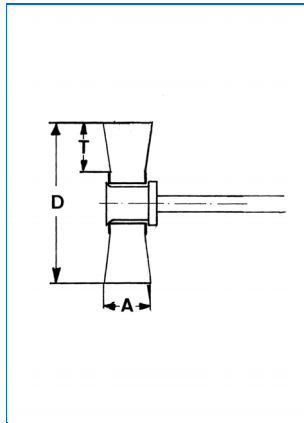
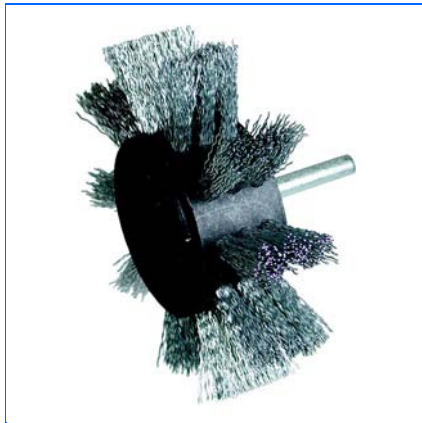


End brushes, crimped wire, plastic-bonded

with 6 mm shank

Area of application generally	Deburring, removing lacquer, derusting, removing slag, de-scaling, cleaning
Area of application particularly	Safety brushes are ideal for removing paint and varnish, for deburring and cleaning different surfaces. Advantages of these brushes: TÜV-examined (association for technical inspection), tenfold brush life, wire does not break.

Dimensions [mm]						Brass coated steel wire crimped, rubber-bonded 0,30 mm Item No.			
D	A	T	K	L	max. min ⁻¹	Pack. Qty.			
17	24	16	43		15.000	12	0002-930 902		
24	23	23	43		15.000	12	0002-930 907		
31	23	29	43		15.000	12	0002-930 912		



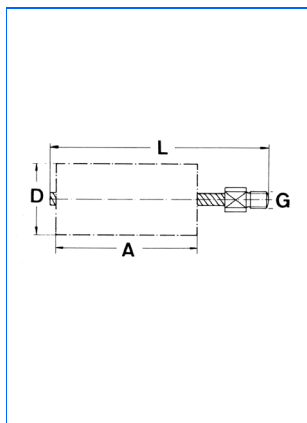
Flap brushes

with 6 mm shank

Area of application generally	Polishing, wood graining, removing lacquer, dedusting, deburring, de-scaling, smoothing, cleaning
Area of application particularly	Brushes with abrasive filaments are ideally suitable for the treatment of wood. Brushes with fibre filaments are specially suited for polishing. Weight reduction through plastic body.

					Galvanized steel wire	Brass coated Steel wire	Abrasive filament Aluminium oxide	Abrasove filament Aluminium oxide
Dimensions [mm]			max.	Pack.	crimped 0,30 mm	crimped 0,30 mm	red, Grit: 80	blue, Grit: 180
D	A	T	min ⁻¹	Qty.	Item No.	Item No.	Item No.	Item No.
100	23	25	3.500	5	0004-401 132	0004-401 052	0001-401 912	0011-401 912

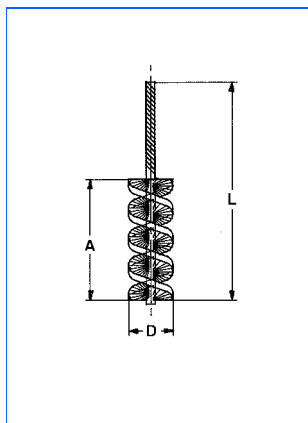
Dimensions [mm]				Fiber			
D	A	T	max. min ⁻¹	Pack. Qty.	Item No.		
100	23	25	3.500	5	0004-401 942		



Cylindrical tube and flue brushes

Area of application generally	Tube cleaning, deburring, removing lacquer, derusting, cleaning
Area of application particularly	Cylindrical tube brushes with two or four twisted wires. Cleaning of capacitors and heating tubes.

Dimensions [mm]					Steel wire	Steel wire		
D	A	L	Thread G	Pack. Qty.	Single spiral Item No.	Double spiral Item No.		
10	100	140	M6	10	0003-815 210			
12	100	140	M6	10	0002-815 212			
14	100	140	M6	10	0002-815 214			
15	100	140	5/16" BSW	10	0002-812 215			
18	100	140	5/16" BSW	10	0002-812 218			
20	100	140	5/16" BSW	10	0002-812 220			
25	100	160	1/2" BSW	5	0002-808 125	0003-810 125		
28	100	160	1/2" BSW	5		0003-810 128		
30	100	160	1/2" BSW	5	0002-808 130	0003-810 130		
32	100	160	1/2" BSW	5	0002-808 132	0003-810 132		
38	100	160	1/2" BSW	5	0002-808 138	0003-810 138		
40	100	160	1/2" BSW	5	0002-808 140	0003-810 140		
44	100	160	1/2" BSW	5	0002-808 144	0003-810 144		
50	100	160	1/2" BSW	5	0002-808 150	0003-810 150		
57	100	160	1/2" BSW	5		0003-810 157		
63	100	160	1/2" BSW	5	0002-808 163	0003-810 163		
69	100	160	1/2" BSW	5		0003-810 169		
75	100	160	1/2" BSW	5	0002-808 175	0003-810 175		
82	100	160	1/2" BSW	5		0003-810 182		
101	100	160	1/2" BSW	5	0002-808 100	0003-810 100		



Cylindrical tube and flue brushes, abrasive filament

silicon carbide

Area of application generally	Deburring, roughening, smoothing
Area of application particularly	Cylindrical tube brushes for cleaning the inside of bores and finishing non-ferrous metals, steel and cast iron parts. Specially suited for the deburring of cross drillings, steering parts, O-rings slots and cylindrical bores. We recommend a brush diameter

					Abrasive filament	Abrasive filament	Abrasive filament	
Dimensions [mm]					Grit 80 Item No.	Grit 120 Item No.	Grit 320 Item No.	
D	A	L	Shank-Ø mm	Pack. Qty.				
6	50	125	3	12		0003-056 306	0003-056 326	
8	50	125	3	12		0003-056 308	0003-056 328	
10	50	125	4	12	0003-056 010	0003-056 310	0003-056 330	
13	50	125	4	12	0002-056 011	0002-056 311	0002-056 331	
16	50	125	5	12	0002-056 012	0002-056 312	0002-056 332	
19	65	125	5	12	0002-056 013	0002-056 313	0002-056 333	
22	65	125	5,5	12	0002-056 014	0002-056 314	0002-056 334	
25	65	125	5,5	12	0002-056 015	0002-056 315	0002-056 335	
32	65	125	6	12	0002-056 016	0002-056 316	0002-056 336	
38	65	125	6	12	0002-056 017	0002-056 317	0002-056 337	
50	65	125	6	12	0002-056 018	0002-056 318	0002-056 338	

Connecting threads, shank extensions can be delivered on request!