

47005 - 47007

Wire hand brushes



47005

Design

- Smooth, hardened cast steel wire
- Wire Ø 0.35 mm

47006

Design

- Crimped, rust and acid-resistant

V2A steel wire

- Wire Ø 0.30 mm

47007

Design

- Crimped, fine brass wire
- Wire Ø 0.15 mm



47005



47006



47007

Trim	Trim height mm	Working length mm	Total length mm	Cast steel		V2A		Brass	
				47005	...	47006	...	47007	...
2-row	25	145	295		101		101		101
3-row	25	145	295		102		102		102
4-row	25	145	295		103		103		103
5-row	25	145	295		104		104		104

47008

Fillet weld brushes



47008 102

Design

- Smooth, hardened cast steel wire
- Tapered

47008 202

Design

- Rust and acid-resistant V2A steel wire
- Tapered



47008

Trim	Wire Ø mm	Trim height mm	Working length mm	Total length mm	Cast steel		V2A	
					47008	...	47008	...
3-row	0.35	35	145	295		102		202

47015

Thread brush



Design

Horse hair, bristle.

Applications

For gentle cleaning of threaded parts.



47015

Trim	Trim height mm	Working length mm	Total length mm	47015	
				...	101
4-row	18	105	220		101

47016

Maintenance hand brush



Design

- Korfil-D trim
- Extremely kink-resistant
- Insensitive to fats and light acids, e.g. coolants and cutting fluids

Applications

Machine cleaning.



47016

Trim	Trim height mm	Working length mm	Total length mm	47016	
				...	101
4-row	60	150	310		101

47017

Spark plug brush



Design

Crimped brass wire.



47017

Trim	Wire Ø mm	Trim height mm	Total length mm	47017	
				...	101
3-row	0.20	15	180		101

Sanding/cutting tools



47020

Brake calliper/universal brushes

Design

2-component plastic handle.

Applications

For derusting and cleaning brake callipers and other components.

47020 101

Smooth steel wire.

47020 101

47020 102

Crimped steel wire.

47020 102

47020 103

Crimped brass wire.

47020 103

Trim	Wire Ø mm	Trim height mm	Working length mm	Total length mm	47020	...
2-row	0.30	23	95	245		101
2-row	0.35	23	95	245		102
2-row	0.30	23	95	245		103



47070

File brush



Design

- Robust wooden handle with steel wire trim

Applications

For cleaning clogged files.

Work surface approx. mm	Total length mm	47070	...
110 x 40	250		102

47070



47170

Shaft-mounted cylinder wire brushes / miniature brushes



Applications

For cleaning and polishing as well as for light deburring work in holes and cavities. The narrow trim width permits targeted application in hard-to-reach areas.

47170 401-406

Applications

Brushes with natural bristle trim can be used with polishing pastes for a better result.

47170 502-503

Design

- Nylon diamond
- Flexible trim
- Restoration and breakage resistance even under heavy load and deformation

Applications

Suitable for processing very hard parts such as ceramic parts, hardened parts, precision components.



47170 101-107

Brush Ø mm	Shaft Ø mm	Trimming material Ø mm		Steel	47170	...
16	2.34	0.1	12 pcs.			101
16	3.00	0.1	12 pcs.			105
22	2.34	0.1	12 pcs.			103
22	3.00	0.1	12 pcs.			106
32	2.34	0.1	12 pcs.			104
32	3.00	0.1	12 pcs.			107



47170 201-206

Brush Ø mm	Shaft Ø mm	Trimming material Ø mm		V2A	47170	...
16	2.34	0.1	12 pcs.			201
16	3.00	0.1	12 pcs.			205
22	2.34	0.1	12 pcs.			203
22	3.00	0.1	12 pcs.			206



47170 301-306

Brush Ø mm	Shaft Ø mm	Trimming material Ø mm		Brass	47170	...
16	2.34	0.1	12 pcs.			301
16	3.00	0.1	12 pcs.			305
22	2.34	0.1	12 pcs.			303
22	3.00	0.1	12 pcs.			306



47170 401-406

Brush Ø mm	Shaft Ø mm	Trimming material		Natural bristle	47170	...
16	2.34	Goat hair	12 pcs.			401
16	3.00	Goat hair	12 pcs.			405
22	2.34	Goat hair	12 pcs.			403
22	3.00	Goat hair	12 pcs.			406



47170 502-503

Brush Ø mm	Shaft Ø mm	Trimming material		Nylon diamond	47170	...
17	2.34	K400	2 pcs.			502
22	2.34	K400	2 pcs.			503



Sanding/cutting tools

**Design**

With cylindrical clamping shaft 6 mm Ø.

Applications

For cleaning, derusting, smoothing, descaling, cleaning of cast welds, light-duty deburring and removing corrosion and paints.

For use on straight grinders, flexible shafts and drills with at least 300 Watt drive output.

47190
Design
Steel wire.

47191
Design
INOX wire.

47192
Design
Brass wire.

47193
Design
Plastic (SiC).

47190 - 47193



Brush Ø mm	Trim width mm	Trimming material Ø mm	Trim length mm	Total length mm	Recommended rotation speed rpm	Maximum rotation speed rpm	Steel	
							47190	...
20	4	0.20	3	37	10,000-15,000	20,000		101
30	6	0.20	7	40	10,000-15,000	20,000		102
40	9	0.20	9	46	9,000-13,500	18,000		103
50	15	0.20	13	50	8,000-12,500	15,000		104
60	15	0.20	15	50	7,500-11,300	15,000		105
70	10	0.30	19	50	7,500-11,300	15,000		106
70	15	0.30	19	50	7,500-11,300	15,000		108
80	15	0.30	19	50	6,000-9,000	12,000		111

Brush Ø mm	Trim width mm	Trimming material Ø mm	Trim length mm	Total length mm	Recommended rotation speed rpm	Maximum rotation speed rpm	INOX	
							47191	...
20	4	0.20	3	37	8,000-13,000	20,000		101
30	6	0.20	7	40	8,000-13,000	20,000		102
40	9	0.20	9	46	7,200-11,700	18,000		103
50	15	0.20	13	50	6,000-9,800	15,000		104
60	15	0.20	15	50	6,000-9,800	15,000		105
70	10	0.20	19	50	6,000-9,800	15,000		106
70	15	0.15	19	50	6,000-9,800	15,000		107
70	15	0.30	19	50	6,000-9,800	15,000		108
80	15	0.15	19	50	4,800-7,800	12,000		110
80	15	0.30	19	50	4,800-7,800	12,000		111

Brush Ø mm	Trim width mm	Trimming material Ø mm	Trim length mm	Total length mm	Recommended rotation speed rpm	Maximum rotation speed rpm	Brass	
							47192	...
30	6	0.20	7	40	8,000-13,000	20,000		102
40	9	0.20	9	46	7,200-11,700	18,000		103
50	15	0.20	13	50	6,000-9,800	15,000		104
70	15	0.30	19	50	6,000-9,800	15,000		108

Brush Ø mm	Trim width mm	Trimming material Ø mm	Trim length mm	Total length mm	Recommended rotation speed rpm	Maximum rotation speed rpm	Plastic (SiC)	
							47193	...
50	15	0.90	13	50	6,000-9,800	15,000		104
70	15	0.90	19	50	6,000-9,800	15,000		108

47233 - 47235

Shaft-mounted cylinder wire brushes



Design
Steel body with cylindrical clamping shaft
6 mm Ø.

Applications
For clamping in hand-held sanders or flexible shafts.

47233
Design
Wire quality **Special steel wire, fine.**
Applications
For fine brushing etc.

47234
Design
Wire quality **Special steel wire, coarse.**
Applications
For cleaning, derusting etc.

47235
Design
Wire quality **V2A.**
Applications
For processing Nirosa stainless steels.

47233 - 47235



Ø mm	Wire thickness Ø mm	Working width mm	Maximum rotation speed approx. rpm	Fine steel		Coarse steel		V2A	
				47233	...	47234	...	47235	...
20	0.15	4	20,000			100			
30	0.15	6	20,000			101			
40	0.20	11	18,000			102			
50	0.20	17	15,000			103			
50	0.30	17	15,000				103		
60	0.20	18	15,000			104			104
60	0.30	18	15,000				104		
70	0.20	18	15,000			105			
70	0.30	18	15,000				105		105

47172

Wire end brushes / miniature brushes with shaft



Applications
For cleaning and polishing as well as for light deburring work in holes and cavities. Due to the low trim width, targeted processing is possible in hard-to-reach spots.

47172 401-402
Applications
Brushes with natural bristle trim can be used with polishing pastes for a better result.

47172 501
Design
- Nylon diamond
- Flexible trim
- Restoration and breakage resistance even under heavy load and deformation
Applications
Suitable for processing very hard parts such as ceramic parts, hardened parts, precision components.

Brush Ø mm	Shaft Ø mm	Trimming material Ø mm	Maximum rotation speed approx. rpm	Icon	Steel	
					47172	...
5	2.34	0.1	5,000	12 pcs.		101
5	3.00	0.1	5,000	12 pcs.		102

Brush Ø mm	Shaft Ø mm	Trimming material Ø mm	Maximum rotation speed approx. rpm	Icon	V2A	
					47172	...
5	2.34	0.1	5,000	12 pcs.		201
5	3.00	0.1	5,000	12 pcs.		202

Brush Ø mm	Shaft Ø mm	Trimming material Ø mm	Maximum rotation speed approx. rpm	Icon	Brass	
					47172	...
5	2.34	0.1	5,000	12 pcs.		301
5	3.00	0.1	5,000	12 pcs.		302

Brush Ø mm	Shaft Ø mm	Trimming material	Maximum rotation speed approx. rpm	Icon	Natural bristle	
					47172	...
5	2.34	Goat hair	5,000	12 pcs.		401
5	3.00	Goat hair	5,000	12 pcs.		402

Brush Ø mm	Shaft Ø mm	Trimming material	Maximum rotation speed approx. rpm	Icon	Nylon diamond	
					47172	...
5	2.34	K400	5,000	2 pcs.		501

47172 101-102



47172 201-202



47172 301-302



47172 401-402



47172 501



Sanding/cutting tools

47250 - 47252

Wire end brushes with shaft



Design

Crimped with clamping shaft 6 mm Ø.
The wires spread open during rotation.

Applications

For clamping in straight grinders, flexible shafts and drills. Suitable for all light-duty brushing work. Perfect for deburring, cleaning and derusting in holes and hard-to-reach places and cavities.

47250
Design
Steel wire.

47251
Design
INOX wire with plastic-coated brush body.
All INOX brushes are degreased.

47252
Design
Brass wire.



47250 - 47252



Ø mm	Wire thickness Ø mm	Wire effective length mm	Maximum rotation speed approx. rpm	Steel		INOX		Brass	
				47250	...	47251	...	47252	...
10	0.30	20	20,000						103
10	0.35	20	20,000		103		103		
13	0.30	20	20,000						106
13	0.35	20	20,000		106		106		
15	0.20	22	18,000						108
15	0.30	22	18,000						109
15	0.35	22	18,000		109				
15	0.35	22	18,000				109		
20	0.20	25	18,000		111		111		
20	0.50	25	18,000		112		112		112
30	0.20	25	15,000		114		114		
30	0.50	25	15,000		115		115		115

47253 - 47256

Wire end brushes with shaft



47253 - 47254

Design

- Crimped
- Long design
- With cylindrical 6 mm clamping shaft
- Total length 120 mm

Applications

Its particularly long design makes it perfect for use in hard-to-reach places.

47255 - 47256

Design

- SINGLETWIST; twist runs counter to the brush direction of rotation
- Brush does not spread out during use
- Flexible single twist brush
- With cylindrical 6 mm clamping shaft
- Total length 65 mm

Applications

Mainly for application on internal corners. Suitable for straight grinders and drive shafts.



47253 - 47254



47255 - 47256

(SINGLETWIST)



Wire thickness mm	Wire effective length mm	Brush Ø mm	Maximum rotation speed approx. rpm	Steel		INOX		Steel		INOX	
				47253	...	47254	...	47255	...	47256	...
0.20	20	10	20,000		102		102				
0.20	25	10	10,000						102		102
0.30	20	10	20,000		103		103				
0.35	25	10	10,000						103		103

47257

Wire end brushes with shaft



Design

- Twisted wire

Advantage

- A variable external diameter can be achieved by changing the working speed and resulting centrifugal forces
- High flexibility and high cleaning efficiency

Applications

For precise application in hard-to-reach places and on interior surfaces. Particularly suitable for cleaning the inside of cylindrical holes. For use on fast-running machines.

47257 101-103

Design

- Trimming material: Steel

Applications

Material to be processed: Steel, steel casting.

47257 201-203

Design

- Trimming material: Stainless steel

Applications

Material to be processed: Stainless steel, non-ferrous metal, aluminium.



47257

Head Ø mm	Wire thickness mm	Wire effective length mm	Number of twists pieces	Shaft Ø mm	Total length mm	Maximum rotation speed approx. rpm	Steel		Stainless steel	
							47257	...	47257	...
20	0.25	29	6	6	44	20,000		101		201
23	0.35	29	8	6	44	20,000		102		202
30	0.35	29	12	6	44	20,000		103		203

47260 - 47262

Wire end brushes (decarbonising brushes) with shaft

Design

With cylindrical clamping shaft 6 mm Ø.

Applications

For clamping in hand-held sanders or flexible shafts; for use in corners and hard-to-reach areas.

47260 102-104

Design

Short, steel wire.

47260 202-204

Design

Short, V2A wire.

47261

Design

Long, steel wire.

47262

Design

Spread to 70 mm, steel wire.



Design	Wire	Wire effective length approx. mm	Wire Ø mm	Body Ø approx. mm	Maximum rotation speed approx. rpm	47260	...	47261	...	47262	...
Short	Steel	25	0.3	15	18,000			102			
Short	Steel	25	0.3	22	18,000			103			
Short	Steel	25	0.3	28	15,000			104			
Short	V2A	25	0.3	17	18,000			202			
Short	V2A	25	0.3	22	18,000			203			
Short	V2A	25	0.3	28	15,000			204			
Long	Steel	18	0.3	10	9,000					101	
Spread	Steel	25	0.3	28	15,000						101

47171

Wire cup brushes / miniature brushes with shaft



Applications

For cleaning and polishing as well as for light deburring work in holes and cavities. Due to the low trim width, targeted processing is possible in hard-to-reach spots.

47171 401-402

Applications

Brushes with natural bristle trim can be used with polishing pastes for a better result.

47171 501

Design

- Nylon diamond
- Flexible trim
- Restoration and breakage resistance even under heavy load and deformation

Applications

Suitable for processing very hard parts such as ceramic parts, hardened parts, precision components.

					Steel	
Brush Ø mm	Shaft Ø mm	Trimming material Ø mm		47171	...	
18	2.34	0.1	12 pcs.			101
18	3.00	0.1	12 pcs.			102
					VA	
Brush Ø mm	Shaft Ø mm	Trimming material Ø mm		47171	...	
18	2.34	0.1	12 pcs.			201
18	3.00	0.1	12 pcs.			202
					Brass	
Brush Ø mm	Shaft Ø mm	Trimming material Ø mm		47171	...	
18	2.34	0.1	12 pcs.			301
18	3.00	0.1	12 pcs.			302
					Natural bristle	
Brush Ø mm	Shaft Ø mm	Trimming material		47171	...	
18	2.34	Goat hair	12 pcs.			401
18	3.00	Goat hair	12 pcs.			402
					Nylon diamond	
Brush Ø mm	Shaft Ø mm	Trimming material		47171	...	
10	2.34	K400	2 pcs.			501



47263 - 47264

Wire cup brushes with shaft



Design

- Crimped
- With cylindrical clamping shaft 6 mm Ø

Applications

Universal for cleaning, derusting, smoothing, descaling and for removing corrosion and paints. Use on the front side with entire trim surface. Mainly for use on large flat, easily accessible surfaces.

47263
Design
Steel wire.

47264
Design
INOX wire.
Plastic coated brush body.



Brush Ø approx. mm	Wire effective length approx. mm	Wire Ø mm	Rec. drive output min. Watt	Maximum rotation speed approx. rpm	Steel	INOX
					47263	47264
50	20	0.3	300	10,500	101	101
60	20	0.3	300	4,500	102	102

47265

Steel wire cup brush with shaft

Design

Crimped steel wire, coarse.

Applications

For cleaning work, such as removing paint, rust, scale, encrusted dirt or ridges.

Ø mm	Wire effective length mm	Wire Ø mm	Shaft Ø mm	Maximum rotation speed approx. rpm	47265	...
50	17	0.3	6	4,500	101	



47310

Roller brushes with hole



Design

Crimped. Hole with 4 keyways.

47310 101

Design

Steel wire (stranded wire).

Applications

Suitable for very heavy-duty brushing work. The special arrangement of the wires produces a highly aggressive brushing effect.

47310 102

Design

INOX wire.

Applications

For texturing INOX workpieces. Provides optimum corrosion protection.

47310 103

Design

With plastic (SiC) trim.

Applications

Suitable for texturing steel, INOX and wood. Also for fine deburring of holes and openings in large parts.



Trim	Ø mm	Hole Ø mm	Trim thickness Ø mm	Trim length mm	Trim width mm	Rec. rotation speed approx. rpm	Max. rotation speed approx. rpm	47310	...
Steel wire	100	19	0.27	26	100	3,000-4,500	6000	101	
INOX wire	100	19	0.20	26	100	2,400-3,900	6000	102	
Plastic (SiC)	100	19	1.27	26	100	2,400-3,900	6000	103	

47400

Bristle Brush™ polishing and deburring brushes

3M

Design

The radial Bristle Brush consists of 8 individual segments that are held with a flange (25.4 mm inner diameter). The product is cast from a single piece, which prevents individual components from coming loose – a common occurrence with wire brushes or scrapers. The brush is delivered complete including 4 adapters (13, 16, 19 and 22 mm) for reducing the inner diameter. Long cleaning life.

Applications

For cleaning, blending, deburring and polishing. For use on sanding blocks, straight grinders or flexible shafts. Use clamping mandrel art. no. 43801 for use with straight grinders.



Grain	Ø x width mm	Maximum rotation speed approx. rpm	Colour	47400	...
36	150 x 13	10,000	brown	101	
50	150 x 13	10,000	green	102	
80	150 x 13	10,000	yellow	103	

47403

Cylinder wire brushes with hole



Design

- Aggressive cylinder wire brush
- Multi-row
- Crimped trim
- All-steel body

Applications

Universal brush for all medium-duty brushing work. Most suitable for brushing wide surfaces. Suitable for cleaning and roughing work on flat (uncontoured) surfaces.

47403 301-306

Design

- Steel wire 0.3 mm

Applications

For machining iron and steel.

47403 401-406

Design

- VA wire 0.3 mm

Applications

For processing Nirosta stainless steels.



47403 401-405

Note:

Ø 100 mm: Reduction using steel core Ø 30 mm to 20 mm + 10 mm, 1/2 inch, 5/8 inch adapters

Ø 150-200 mm: Reduction using steel core

Ø 50.8 mm to 31.75 mm + 13 mm, 15 mm, 16 mm, 19 mm, 20 mm, 7/8 inch, 1 inch adapters

Ø mm	Hole Ø mm	Working width mm	Wire effective length mm	Wire Ø mm	Maximum rotation speed approx. rpm.	Steel		VA	
						47403	...	47403	...
80	10.0	18	20	0.3	10,000	301			
100	30.0	20	17	0.3	8,000	302			
150	50.8	25	30	0.3	6,000	303			
178	50.8	25	38	0.3	6,000	304			
200	50.8	25	38	0.3	4,500	305			
80	10.0	18	20	0.3	10,000				401
100	30.0	20	23	0.3	8,000				402
150	50.8	30	30	0.3	6,000				403
178	50.8	32	38	0.3	6,000				404
200	80.0	30	38	0.3	4,500				405

47601

Twisted steel cylinder wire brush with shaft



Design

Twisted high-performance steel wire.

Applications

For machining welding seams, removing hard scale, slag, underbody seal, sand residues and for deburring.



47601

Ø mm	Working width mm	Wire effective length mm	Wire Ø mm	Shaft Ø mm	Maximum rotation speed approx. rpm	47601	...
75	12	18	0.50	6	20,000		101

47595 - 47596

Pipeline twisted cylinder wire brushes with hole or thread

PFERD



Design

With hole or thread, twisted. Aggressive and stable brush that withstands high mechanical load.

Applications

For heavy-duty brushing applications in pipeline and tank construction. Thanks to its extremely narrow design, this brush is perfect for applications in hard-to-reach areas.

47595

Design

Steel wire.

47596

Design

INOX wire.

All brushes are degreased.



47595 - 47596

Ø mm	Hole Ø mm	Thread	Working width mm	Wire effective length mm	Wire Ø mm	Maximum rotation speed approx. rpm	Steel		INOX	
							47595	...	47596	...
115	22.2	-	6	19	0.5	12,500	101			
125	22.2	-	6	19	0.5	11,000	102			
125	-	M14	6	19	0.5	11,000	103			103



47598 - 47599

Twisted cylinder wire brushes COMBITWIST® with hole



Design

With COMBITWIST® for quiet operation even on corners and edges. No recoil when brushing edges. Increased service life and removal of material. Minimal unravelling of twists during use.

Applications

For heavy-duty application with angle grinders and with higher speeds (to 80 rpm).

47598
Design
Steel wire 0.5 mm Ø.

47599
Design
INOX wire 0.35 mm Ø.



47598 - 47599



Ø mm	Hole Ø mm	Working width mm	Wire effective length mm	Maximum rotation speed approx. rpm	Steel	INOX
					47598	47599
115	22.2	12	28	12,500	101	101
125	22.2	12	33	11,000	102	102
178	22.2	13	42	9,000	103	103

47603

Twisted cylinder wire brushes with hole



Design

- Excellent durability, even with diagonal application

Applications

For preparatory and finishing work on welding seams, for removing rust, scale, varnish, slag, rubber residue and for deburring. Ideal for use in hard-to-reach places.

Note:
Particularly suitable for single-hand angle grinders and straight grinders.

47603



Ø mm	Hole Ø mm	Working width mm	Wire effective length mm	Wire Ø mm	Maximum rotation speed approx. rpm	Steel	VA
						47603	47603
115	22.2	12	23	0.5	12,500	201	301 NEW
125	22.2	13	28	0.5	12,500	202	302 NEW
178	22.2	13	42	0.5	12,000	203	303 NEW

47620 - 47621

Twisted tapered brushes COMBITWIST® with thread



Design

With COMBITWIST®.

Applications

For derusting, descaling, cleaning welding seams and deburring.

The tapered shape makes it ideal for machining hard to reach areas. Suitable for extreme use on angle grinders with higher rotation speeds (up to 80 rpm).

47620
Design
Steel wire 0.5 mm Ø.

47621
Design
INOX wire 0.35 mm Ø.



47620 - 47621



Ø mm	Thread	Number of twists	Working width mm	Wire effective length mm	Maximum rotation speed approx. rpm	Steel	INOX
						47620	47621
100	M14	22	13	22	20,000	101	101
115	M14	22	15	26	15,000	102	102
125	M14	28	15	19	15,000	103	103

47605

Offset twisted cylinder wire brushes with thread



Applications

For aggressive brushing in hard-to-reach places, such as welding seams, on angle plates. For all commercially available single-hand angle grinders.

47605 101-102
Design
Smooth cast steel wire.

47605 301-302
Design
V2A wire.

47605



Ø mm	Thread	Working width mm	Wire effective length mm	Wire Ø mm	Maximum rotation speed approx. rpm	Steel	V2A
						47605	47605
100	M14 x 2.0	13	22	0.5	12,500	101	301
115	M14 x 2.0	15	20	0.5	12,500	102	302

47610 - 47612

Twisted wire cup brushes (surface brushes) with thread



Design

With twisted wire.

Applications

Specially designed for high-speed angle grinders. With thread insert M14. For extremely heavy-duty surface brushing.

Note:

Wire cup brushes have a support ring to prevent flaring or unwinding of the twists. When the wire has worn down, the ring can be removed so that the brush can be used up completely. **65 mm Ø without support ring.**

47610 Design
Wire quality special steel wire.

47612 Design
Wire quality V2A wire.



Ø 80 x 100 mm
With support ring

Ø mm	Thread	Wire Ø mm	Maximum rotation speed approx. rpm	Steel	V2A
				47610	47612
65	M14	0.5	12,500	201	201
80	M14	0.5	8,500	202	
100	M14	0.5	8,500	203	203

47606 - 47607

Twisted wire cup brushes with thread



Design

With twisted wire.

Applications

Specially designed for high-speed angle grinders. With thread insert M14. For extremely heavy-duty surface brushing. For cleaning applications such as derusting, deburring and cleaning.

Note:

Steel wire cup brushes with a Ø 80 mm have a support ring to prevent flaring or unwinding of the twists. When the wire has worn down, the ring can be removed so that the brush can be used up completely.

47606 Design
Wire quality Steel wire.

47607 Design
Wire quality INOX wire, all brushes are degreased.



Ø mm	Thread	Wire thickness mm	Trim length mm	Number of twists	Maximum rotation speed approx. rpm	Steel	INOX
						47606	47607
65	M14	0.35	22	18	12,500	101	101
65	M14	0.50	22	18	12,500	105	105
80	M14	0.50	25	22	8,500	110	

47613 - 47614

Wire cup brushes with thread



Design

With crimped wire.

Applications

Ideal for medium-duty brushing work mainly on large surfaces, for deburring, cleaning and derusting. For angle grinders with thread insert M14.

47613 Design
Steel wire.

47614 Design
INOX wire, brushes degreased.



Ø mm	Thread	Wire effective length mm	Wire Ø mm	Maximum rotation speed approx. rpm	Steel	INOX
					47613	47614
60	M14	20	0.3	12,500	101	
75	M14	40	0.3	12,500	104	104

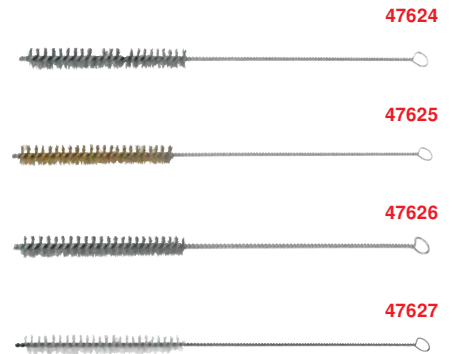
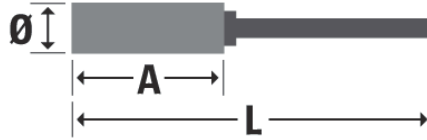


Design

- Crimped wire or nylon trim
- With double wire core and eyelets

Applications

For cleaning, removing dust, deburring and paint stripping. Ideal for cleaning nozzles, pipes, hoses and glass bottles.



Ø mm	Trim length (A) mm	Total length (L) mm	Image	Crimped steel wire		Crimped brass		Crimped stainless steel		Nylon	
				47624	...	47625	...	47626	...	47627	...
4	100	300	20 pcs.		101				101		101
5	100	300	20 pcs.		102		102				102
6	100	300	20 pcs.		103		103		103		103
8	100	300	20 pcs.		104		104				104
10	100	300	20 pcs.		105		105		105		105
12	100	300	20 pcs.		106		106		106		106
15	100	300	20 pcs.		107		107		107		107
18	100	300	20 pcs.		108		108				108
20	100	300	20 pcs.		109		109		109		109
25	100	300	20 pcs.		110		110				110



Design

- Flexible, highly efficient brush tools
- Zinc-plated twisted wire with a basic spiral trim

Applications

Micro-abrasive pipe brushes are also flexible in smaller diameter ranges and can be used for a wider range of diameters than conventional deburring tools. Use in CNC and NC machines and machining centres. Perfect for deburring cross-drilled holes, control parts, O-ring grooves and cylindrical workpieces, cleaning condensers and smoke tubes as well as roughening surface coatings.

Typical areas of application are:

- Microelectronics
- Aerospace
- Medical-technical devices
- Textile industry
- Hydraulics, pneumatics
- Precision tools

Note:

The brushes should be used with an excess length of 5-10% compared to the bore diameter.

47628 101-107

Design

Plastic trim silicon carbide (SiC) 1000

47628 201-213

Design

Plastic trim aluminium oxide (AO) 600



47628 101-107

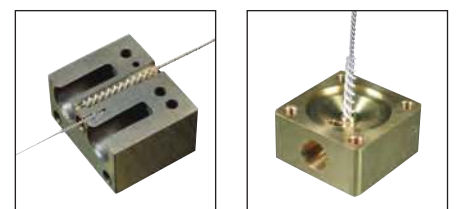
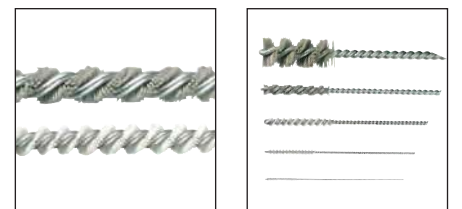


47628 201-213

Ø mm	Trim length (A) mm	Total length (L) mm	Shaft Ø (S) mm	Grain/wire	Image	47628	...
0.7	12	100	0.42	NHS 1000 (SiC)	12 pcs.		101
1.2	12	100	0.47	NHS 1000 (SiC)	12 pcs.		102
1.9	18	100	0.74	NHS 1000 (SiC)	12 pcs.		103
2.2	18	100	0.93	NHS 1000 (SiC)	12 pcs.		104
2.6	25	100	1.08	NHS 1000 (SiC)	12 pcs.		105
3.2	25	100	1.66	NHS 1000 (SiC)	12 pcs.		106
3.5	25	100	1.66	NHS 1000 (SiC)	12 pcs.		107



Ø mm	Trim length (A) mm	Total length (L) mm	Shaft Ø (S) mm	Grain/wire	Image	47628	...
4.2	25	125	2.20	NHA 600 (AO)	12 pcs.		201
4.8	25	125	2.20	NHA 600 (AO)	12 pcs.		202
5.5	25	125	2.20	NHA 600 (AO)	12 pcs.		203
6.6	25	125	3.00	NHA 600 (AO)	12 pcs.		204
8.2	25	125	3.00	NHA 600 (AO)	12 pcs.		205
9.8	25	125	3.40	NHA 600 (AO)	12 pcs.		206
11.5	25	125	3.40	NHA 600 (AO)	12 pcs.		207
13.0	25	125	4.20	NHA 600 (AO)	12 pcs.		208
16.0	25	125	4.20	NHA 600 (AO)	12 pcs.		209
17.5	25	125	4.20	NHA 600 (AO)	12 pcs.		210
19.4	25	125	5.60	NHA 600 (AO)	12 pcs.		211
22.6	25	125	5.60	NHA 600 (AO)	12 pcs.		212
25.8	25	125	6.20	NHA 600 (AO)	12 pcs.		213



47636 - 47641

Helituf® internal cleaning brushes



47636 - 47639

Helituf® internal cleaning brushes

Design

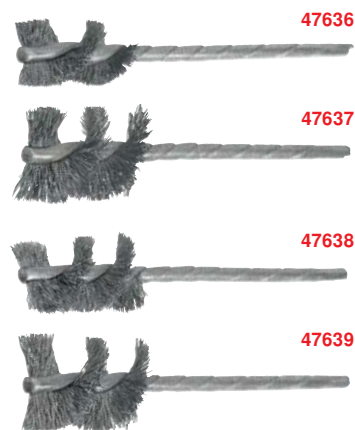
- Helically fastened crimped original Osborn wire
- Double wire core

Applications

Densely filled internal cleaning brushes for mechanical or manual use. For use in drill chucks and tool spindles. The helically arranged bristles simulate a lifting movement.

Optional Helituf® holders also enable mounting in chucks. The optional holders (47640 110–111) can either be used individually or screwed together up to a total length of 225 mm (including brush).

Helituf® internal cleaning brushes are ideal for cleaning threaded holes, brushing edges and elongated slots such as keyways.



Hole Ø mm	Brush Ø (Ø) mm	Trim length (A) mm	Total length (L) mm	Shaft Ø mm	Packing	Steel wire	...	Steel wire	Stainless steel wire	...	Stainless steel wire	...
						0.13 mm	47636	0.20 mm	47637	0.13 mm	47638	0.20 mm
6	6.4	25	89	3.18	12 pcs.			100			100	
8	8.3	25	89	3.18	12 pcs.			101				
10	11.0	25	89	3.18	12 pcs.			102	102		102	102
13	14.3	25	89	3.18	12 pcs.			103	103		103	103
16	17.5	25	89	3.18	12 pcs.			104	104		104	104
19	21.0	25	89	3.18	12 pcs.			105	105		105	105
22	23.8	25	89	3.18	12 pcs.			106	106		106	106
25	27.0	25	89	3.18	12 pcs.			107	107		107	107
29	30.0	25	89	3.18	12 pcs.			108				
32	33.4	25	89	3.18	12 pcs.				109			109

47640

Helituf® holder

Applications

For ideal mounting in chucks or extending the total length.

The holders can either be used individually or screwed together up to a total length of 225 mm (including brush).

Helituf® holder with	Shaft Ø mm	Total length mm	47640	...
Male thread	5	90		110
Female thread	6	90		111



47641

Helituf® internal cleaning brush set with 2 holders

Scope of delivery:

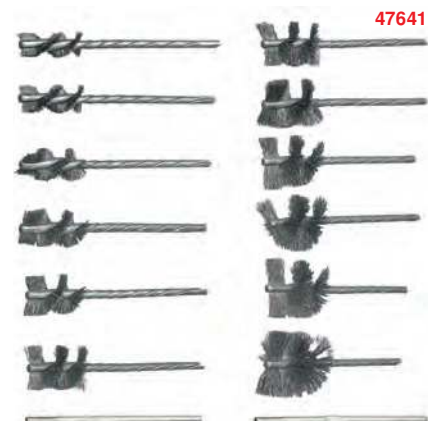
- 1 internal cleaning brush of each size (Ø mm): 10/11/13/14/16/18/19/21/22/24/25/29
- 1 holder Ø 5 x 90 mm

- 1 holder Ø 6 x 90 mm
- Supplied in a tool roll

Applications

Helituf® internal cleaning brush set for cleaning threaded holes or brushing edges and elongated slots such as keyways.

Content	47641	...
14teilig		100



47615

Boiler pipe brushes

Design

- Pressed-on threaded connecting piece Ww. 1/2 inch
- Cast steel wire trim
- Double spiral

Note:

For pipe cleaning shafts, see art. no. 61322.



Ø mm	Ø inch	Working length mm	Total length mm	47615	...
38	1.1/2	100	160		101
50	2.	100	160		102
63	2.1/2	100	160		103
101	4.	100	160		105



Design

Crimped.

Applications

Ideal for deburring and cleaning pipes, threads, sleeves and cylinders. Suitable drive machines include straight grinders, flexible shafts and drills. For use with low rotation speeds up to 1000 rpm.

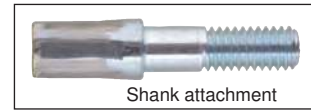
47630
Design
Wire quality steel.

47631
Design
Wire quality INOX.

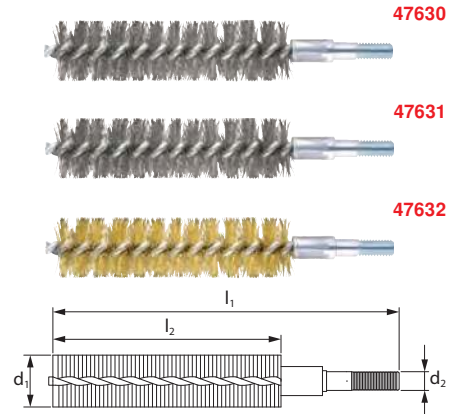
47632
Design
Wire quality brass.

Note:

In addition to the thread, internal cleaning brushes up to Ø 20 mm have a shank attachment that enables clamping in 6-mm collet chucks. Internal brushes with 3/8-inch threads also have a 10-mm shank attachment.



Ø d ₁ mm	Thread d ₂	Trim length l ₂ mm	Total length l ₁ mm	Steel		INOX		Brass	
				47630	...	47631	...	47632	...
8	M6	80	120			101		101	101
10	M6	80	120			102		102	102
12	M6	80	120			103		103	103
15	M6	80	120			105		105	105
18	M6	80	120			107		107	107
20	M6	80	120			108		108	108
22	3/8 inch BSW	100	170			109		109	109
25	3/8 inch BSW	100	170			110		110	110
30	3/8 inch BSW	100	170			111		111	111



Extension, wire stem, quick-change handles:

The extension, wire stem and quick-change handles are used to also access difficult-to-reach areas with internal cleaning brushes.

The extensions and wire stems offer various combination options to achieve the desired total length. Several extensions can be connected together.

47635 101

Extension

Applications

For internal cleaning brushes with M6 thread, Art. no. 47630–47632.

47635 102

Wire stem

Applications

For internal cleaning brushes with M6 thread, Art. no. 47630–47632.

47635 103

Quick-change handle

Applications

For internal cleaning brushes with M6 thread, Art. no. 47630–47632 101–108.

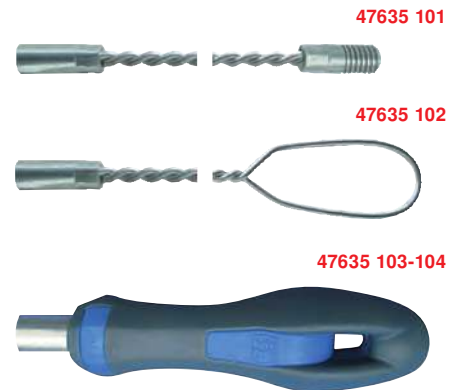
The quick-change handle can also be combined and extended with extension 47635 101.

47635 104

Quick-change handle

Applications

For internal cleaning brushes with 3/8 inch thread, Art. no. 47630–47632 109–111.



	Thread	Length mm	External Ø of threaded sleeve	47635	...
Extension	M6	1000	12		101
Wire stem	M6	1000	12		102
Quick-change handle	M6	135	12		103
Quick-change handle	3/8 inch	135	12		104



Honing tools | Disc brushes

47700 - 47702 Honing tool Novoflex-B



Design

Robust, self-centring honing tool for gentle sanding process.

SiC trim.

Due to their flexible design, the abrasive beads adapt to the surface and can therefore be used for edge breaking, final surface finishing and also in irregular holes.

Recommended rotation speed 350–700 rpm.

Total length 200 mm.

Applications

The perfect tool for creating a uniform precision-ground surface with a high contact ratio, or plateau finish. For the automotive, aerospace, hydraulics and heat exchanger industries. Suitable for hand drills, honing machines and automated machines.

Quality

Silicon carbide.

Note:

For use with honing oil or can be used dry.



47700 - 47702



Ø mm	For hole Ø up to mm	Working width mm	Shaft Ø mm	SiC/K 120		SiC/K 180	
				47700	...	47702	...
9	8	50	3.7			109	109
10	9	50	3.7			110	110
11	10	60	3.7			111	111
12	11	60	3.7			112	112
13	12	60	3.7			113	113
15.5	14	60	3.7			116	116
18	16	60	4.6			118	118
20	18	60	4.6			120	120
22	20	70	4.6			122	122
25	22	70	4.6			125	125
27	24	70	5.1			127	127
28	25	70	5.1			128	128

Ø mm	For hole Ø up to mm	Working width mm	Shaft Ø mm	SiC/K 120		SiC/K 180	
				47700	...	47702	...
30	27	70	5.1			130	130
32	29	70	5.1			132	132
35	32	70	5.1			135	135
38	35	70	5.7			138	138
41	38	70	5.7			141	141
45	41	70	5.7			145	145
48	45	70	5.7			148	148
51	48	70	6.5			151	151
54	51	70	6.5			154	154
57	54	70	6.5			157	157
60	57	70	7.3			160	160
64	60	70	7.3			164	164

47800 - 47801 Disc brushes



Design

- Disc brushes with dense sanding bristle trim (full trim) fully encapsulated in the plastic disc
- 4x higher trim density produced than in conventional process (stamped)
- With longitudinal slot for clamping on face mill arbors (DIN 6357) and combi mill arbors (DIN 6358)

Advantage

- Post-machining directly after the cutting process
- Continuously released abrasive grain ensures reproducible results
- Very high dimensional stability and accuracy

Applications

On CNC machining centres and with the use of robots, preferably in wet sanding with coolant. Machining flat components: precise deburring, edge rounding, fine machining after cutting, surface finishing of sealing and contact surfaces for example.

Note:

Disc brushes without keyway (combi mill arbor). Other designs deliverable on request.

47800

Design

- Nylon bristles with an extremely high proportion of silicon carbide grain for universal use

Quality

Nylon bristle with silicon carbide.

47801

Design

- Nylon bristles with an extremely high proportion of ceramic abrasive grain for universal use

Quality

Nylon bristle with ceramic abrasive grain.



47800



47801



Ø mm	Total height mm	Hole mm	Grain	SiC		Ceramic	
				47800	...	47801	...
50	35	16	80			101	101
50	35	16	120			102	102
50	35	16	180			103	
76	35	22	80			201	201
76	35	22	120			202	202
76	35	22	180			203	
106	35	22	80			301	301
106	35	22	120			302	302

Ø mm	Total height mm	Hole mm	Grain	SiC		Ceramic	
				47800	...	47801	...
106	35	22	180			303	
125	35	27	80			401	401
125	35	27	120			402	402
125	35	27	180			403	
150	35	32	80			501	501
150	35	32	120			502	502
150	35	32	180			503	

