

47005 - 47007

Wire Scratch Brushes



47005
Type
 - Smooth, hardened **cast steel wire**
 - Wire Ø 0,35 mm

47005



47006
Type
 - Corrugated, rust-resistant and acid-resistant
V2A steel wire
 - Wire Ø 0,30 mm

47006



47007
Type
 - Corrugated, fine **brass wire**
 - Wire Ø 0,15 mm

47007



Fill	Fill height mm	Working length mm	Overall 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 brush



47008 102
Type
 - Smooth, hardened **cast steel wire**
 - Conical

47008 202
Type
 - Rust-resistant and acid-resistant
V2A steel wire
 - Tapered

47008



Fill	Wire Ø mm	Fill height mm	Working length mm	Overall length mm	Cast steel		V2A	
					47008	...	47008	...
3-row	0,35	35	145	295	102		202	

47015

Thread Brushes



Type
 Horsehair brush.

47015



Fill	Fill height mm	Working length mm	Overall length mm	47015	...
4-row	18	105	220	101	

47016

Workshop Brushes



Type
 - Korfil-D fill
 - Does not kink
 - **Insensitive to greases and light acids,**
 e.g. cooling and cutting fluids

Use
 For machine cleaning work.

47016



Fill	Fill height mm	Working length mm	Overall length mm	47016	...
4-row	60	150	310	101	

47017

Spark Plug Brushes



Type
 Corrugated brass wire.

47017



Fill	Wire Ø mm	Fill height mm	Overall length mm	47017	...
3-row	0,15	15	180	101	

Abrasive Tools/
Separating Tools



47020 Brake Calliper/Multi-Purpose Brushes

Type
With 2-component plastic handle.
Use
For derusting and cleaning of brake callipers.

47020 102
Type
Corrugated **steel** wire.

47020 103
Type
Corrugated **brass** wire.

47020 101
Type
Smooth **steel** wire.

Fill	Wire Ø mm	Fill height mm	Working length mm	Overall 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 Cards



Type
Fill: Nailed-on file brush band.

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



47190 - 47193 Shank Round Brushes

PFERD



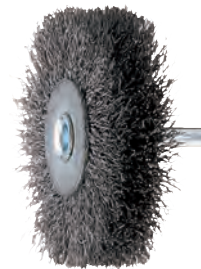
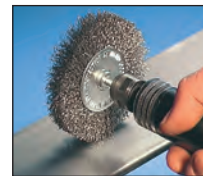
Type
With straight 6 mm Ø clamping shank.
Use
For cleaning, derusting, smoothing, descaling, cleaning of cast welds, light-duty deburring and removing of corrosion and varnish.
Suitable for straight grinders, flexible shafts and drills with at least 300 watt driving power.

47190
Type
Steel wire.

47191
Type
INOX wire.

47192
Type
Brass wire.

47193
Type
Plastics (SiC).



Brush Ø mm	Fill width mm	Fill material Ø mm	Fill length mm	Overall length mm	Recommended RPM	Maximum RPM	Steel	47190	...
20,0	4,0	0,20	3,0	37,0	10.000-15.000	20.000			101
30,0	6,0	0,20	7,0	40,0	10.000-15.000	20.000			102
40,0	9,0	0,20	9,0	46,0	9.000-13.500	18.000			103
50,0	15,0	0,20	13,0	50,0	8.000-12.500	15.000			104
60,0	15,0	0,20	15,0	50,0	7.500-11.300	15.000			105
70,0	10,0	0,30	19,0	50,0	7.500-11.300	15.000			106
70,0	15,0	0,30	19,0	50,0	7.500-11.300	15.000			108
80,0	15,0	0,30	19,0	50,0	6.000-9.000	12.000			111

Brush Ø mm	Fill width mm	Fill material Ø mm	Fill length mm	Overall length mm	Recommended RPM	Maximum RPM	INOX	47191	...
20,0	4,0	0,20	3,0	37,0	8.000-13.000	20.000			101
30,0	6,0	0,20	7,0	40,0	8.000-13.000	20.000			102
40,0	9,0	0,20	9,0	46,0	7.200-11.700	18.000			103
50,0	15,0	0,20	13,0	50,0	6.000-9.800	15.000			104
60,0	15,0	0,20	15,0	50,0	6.000-9.800	15.000			105
70,0	10,0	0,20	19,0	50,0	6.000-9.800	15.000			106
70,0	15,0	0,15	19,0	50,0	6.000-9.800	15.000			107
70,0	15,0	0,30	19,0	50,0	6.000-9.800	15.000			108
80,0	15,0	0,15	19,0	50,0	4.800-7.800	12.000			110
80,0	15,0	0,30	19,0	50,0	4.800-7.800	12.000			111

Brush Ø mm	Fill width mm	Fill material Ø mm	Fill length mm	Overall length mm	Recommended RPM	Maximum RPM	Brass	47192	...
30,0	6,0	0,20	7,0	40,0	8.000-13.000	20.000			102
40,0	9,0	0,20	9,0	46,0	7.200-11.700	18.000			103
50,0	15,0	0,20	13,0	50,0	6.000-9.800	15.000			104
70,0	15,0	0,30	19,0	50,0	6.000-9.800	15.000			108

Brush Ø mm	Fill width mm	Fill material Ø mm	Fill length mm	Overall length mm	Recommended RPM	Maximum RPM	Plastics (SiC)	47193	...
50,0	15,0	0,90	13,0	50,0	6.000-9.800	15.000			104
70,0	15,0	0,90	19,0	50,0	6.000-9.800	15.000			108

Abrasive Tools/
Separating Tools



Type
Steel body with straight
6 mm Ø clamping shank.

Use
For fitting in hand grinders or flexible shafts.

47233
Type
Wire quality **Special steel wire, fine.**
Use
For fine brushing etc.

47234
Type
Wire quality **Special steel wire, coarse.**
Use
For cleaning, rust removal etc.

47235
Type
Wire quality **V4A.**
Use
For the processing of Nirosta stainless steels.



47233 - 47235

Abrasive Tools/
Separating Tools

Ø mm	Wire thickness Ø mm	Working width mm	Maximum approx. RPM	Steel fine		Steel coarse		V4A	
				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



Type
Unknotted with 6 mm Ø clamping shank.
The wires come apart during the application.

Use
For clamping in in straight grinders and drills.
Suitable for all light brushing tasks.
Perfect for deburring, cleaning and derusting of
boreholes and in hard-to-reach places and
hollow spaces.

47250
Type
Steel wire.

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

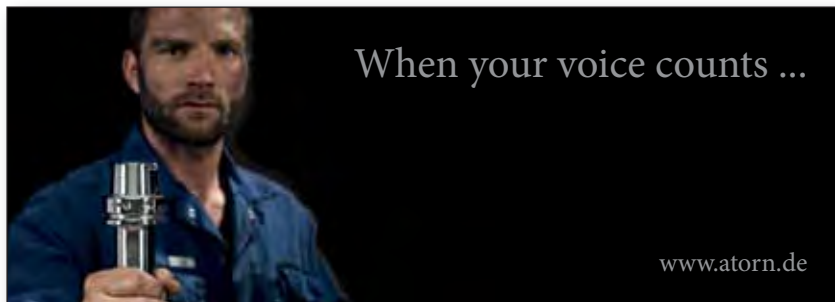
47252
Type
Brass wire.



47250 - 47252



Ø mm	Wire thickness Ø mm	Wire effective length mm	Maximum approx. RPM	Steel		INOX		Brass	
				47250	...	47251	...	47252	...
10,0	0,30	20	20.000						103
10,0	0,35	20	20.000		103		103		
13,0	0,30	20	20.000					#	106
13,0	0,35	20	20.000		106		106		
15,0	0,20	22	18.000				108		
15,0	0,30	22	18.000						109
15,0	0,35	22	18.000		109				
15,0	0,35	22	18.000				109		
20,0	0,20	25	18.000		111		111		
20,0	0,50	25	18.000		112		112		112
30,0	0,20	25	15.000		114		# 114		
30,0	0,50	25	15.000		115		115		115



When your voice counts ...

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... your suggestions are heard.



Performance requires quality



47253 - 47256 Rotary End Brushes With Shank



47253 - 47254

- Type**
- Unknotted
 - Long Type
 - With cylindrical clamping shank 6 mm
 - Overall length 120 mm

Use
Thanks to the particularly long design, this brush is perfect for hard-to-reach places.

47255 - 47256

- Type**
- **SINGLETWIST knotting**, i.e. the knotting is wound counter to the run direction of the brush
 - Spreading of the brush in use is prevented
 - Flexible single-knot brush
 - With cylindrical clamping shank 6 mm
 - Overall length 65 mm

Use
Especially for machining of inside corners. For straight grinders and drive shafts.

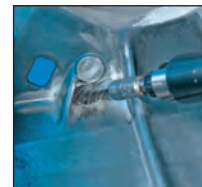


47253 - 47254



47255 - 47256

(SINGLETWIST)



Wire thickness mm	Wire effective length mm	Brush Ø mm	Maximum 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

47260 - 47262 Rotary End Brushes (Decarbonisation Brushes) With Shank

Type
With straight 6 mm Ø clamping shank.

Use
For fitting in hand grinders or flexible shafts. For work in corners and hard-to-reach spots.

47260 102-104

Type
Short, steel wire.

47260 202-204

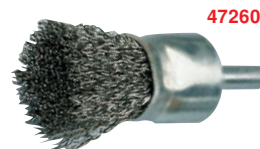
Type
Short, V2A wire.

47261

Type
Long, steel wire.

47262

Type
Spread to 70 mm, steel wire.



47260



47261



47262

Wire	Type	Wire effective length approx. mm	Wire Ø mm	Body Ø approx. mm	Maximum approx. RPM	47260	...	47261	...	47262	...
Steel	Short	25	0,3	15	18.000			102			
Steel	Short	25	0,3	22	18.000			103			
Steel	Short	25	0,3	28	15.000			104			
V2A	Short	25	0,3	17	18.000			202			
V2A	Short	25	0,3	22	18.000			203			
V2A	Short	25	0,3	28	15.000			204			
Steel	Long	18	0,3	10	10.000					101	
Steel	Spread	25	0,3	28	15.000						101

47263 - 47264 Cup Brushes With Shank



- Type**
- Unknotted
 - With cylindrical clamping shank 6 mm Ø

Use
For cleaning, derusting, smoothing, descaling and for the removal of corrosion and varnish. Frontal use with the entire file surface. Primarily used on large, level, easily accessible surfaces.

47263

Type
Steel wire.

47264

Type
INOX wire
Plastic-coated brush.



47263 - 47264

Brush Ø approx. mm	Wire effective length approx. mm	Wire Ø mm	rec. Driving power min. watt	Maximum approx. RPM	Steel		INOX	
					47263	...	47264	...
50	20	0,3	300	10.500	#	101		101
60	20	0,3	300	4.500	#	102		102

Abrasive Tools / Separating Tools

47265

Steel Wire Cup Brush With Shank

Type

Corrugate steel wire, coarse.

Use

For cleaning purposes such as removing paint, rust, scale, or burrs.

47265



Ø mm	Wire effective length mm	Wire Ø mm	Shank Ø mm	Maximum approx. RPM	47265	...
50	17	0,3	6	4.500		101

47310

Brush rollers with bore

PFERD



Type

Unknotted. Bore with 4 keyways

47310 101

Type

Steel wire (stranded wire)

Use

Suitable for very heavy-duty brushing projects. Thanks to the arrangement of the wire, the brushing effect is very aggressive.

47310 101



47310 102

Type

INOX wire

Use

For texturing INOX workpieces. For perfect corrosion protection.

47310 102



47310 103

Type

With plastic fill (SiC).

Use

For texturing of steel, INOX, and wood. Also for fine deburring of boreholes and break-throughs of large parts.

47310 103



Fill	Ø mm	Bore Ø mm	Fill thickness Ø mm	Fill length mm	Fill width mm	Recommended approx. RPM	Maximum approx. RPM	47310	...
steel wire	100	19,1	0,27	26	100	3.000 - 4.500	6.000	#	101
INOX wire	100	19,1	0,20	26	100	2.400 - 3.900	6.000		102
Plastic (SiC)	100	19,1	1,27	26	100	2.400 - 3.900	6.000		103

47400

Bristle Brush™ Polishing and Deburring Brushes

3M

Type

The radial bristle brush consists of 8 individual segments that are held with a flange 25.4 mm inner diameter).

The monolithic system prevents single components from becoming loose, something well-known from wire scratch brushes or scrapers.

The brush is delivered complete including 4 adapters (13, 6, 19 and 22 mm) for reduction of the inner diameter.

Long cleaning life.

Use

For cleaning, blending, deburring and polishing. Suitable for grinding machines, straight grinders or flexible shafts. Use mandrel cat.-no. 43801 for the usage with straight grinders.

47400



Grit	Ø x width mm	Maximum 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



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Performance requires quality.

For example, with the diamond grinding wheels and CBN face wheels from ATORN.

- Longest service life with uniformly high stock removal rate
- Premium grinding wheels with vibration-damping body
- Universal implementation, wet grinding and dry grinding

ATORN®
Performance requires quality.


Round Brushes | Tapered Brushes

47403 - 47404 Round Brushes with borehole

Type
Aggressive, multi-row wire wheel with all-steel body and crimped fill.

Use
Universal Brush for all Medium-Difficulty Brushing Tasks.
Most suitable for brushing wide surfaces. Suitable for cleaning and roughing work on flat (uncontoured) surfaces.
Used in flexible machines (flexible shafts) up to max. 150mm Ø, larger Ø on stationary machines.

47403
Type
Special steel wire.
Use
For work on iron and steel.

47404
Type
V4A wire.
Use
For the processing of Nirosa stainless steels.

47403 - 47404



Note:

For universal implementation of the Ø 100, 125, 150, 178 and 200 mm, 2 or 7 bore reducers are included with each brush:
Ø 100 und 125 mm:
 2 reducers from Ø 20 mm to Ø 1/2 inch and 5/8 inch.
Ø 150, 178 und 200 mm:
 7 reducers Ø 31, 75 mm to Ø 13/ 15 / 16 / 19 / 20 mm / 7/8 inch and 1 inch (25,4 mm).

Ø mm	Bore Ø mm	Reducers piece	Working width mm	Wire effective length mm	Wire Ø mm	Maximum approx. RPM	Steel	...	V4A	...
							47403		47404	
100	20,00	2	20	23	0,3	8.000			201	
125	20,00	2	22	30	0,3	6.000			211	211
150	31,75	7	30	29	0,3	6.000			220	
178	31,75	7	32	38	0,3	6.000			230	230
200	31,75	7	30	38	0,3	4.500			236	
250	25,40	-	28	47	0,3	3.600	#		240	
250	30,00	-	28	47	0,3	3.600	#		241	

47601 Knot-Type Wire Round Brushes with Shank



Type
Knotted high-performance steel wire.

Use
For direct mounting in hand grinders/flexible shafts.



47601

Ø mm	Working width mm	Wire effective length mm	Wire Ø mm	Shank Ø mm	Maximum approx. RPM	47601	...
75	12	18	0,35	6	20.000		101

47595 - 47596 Knotted Round Brushes Pipeline with Bore or Thread



Type
With bore or thread, knotted.
Aggressive and stable brush that withstands high mechanical load.

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

47595
Type
Steel wire.

47596
Type
INOX wire.
All brushes degreased.



47595 - 47596

Ø mm	Bore Ø mm	Thread	Working width mm	Wire effective length mm	Wire Ø mm	Maximum 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

Abrasive Tools / Separating Tools

47598 - 47599

Knotted Round Brushes Combitwist® With Bore



Type
 With COMBITWIST® knotting, thus quiet operation, even on corners and edges.
 No recoil when machining corners.
 Increased service life and removal of material.
 Less unravelling of the knots during use.

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

47598
Type
 Steel wire 0,5 mm Ø.

47599
Type
 INOX wire 0,35 mm Ø.



47598 - 47599

Ø mm	Bore Ø mm	Working width mm	Wire effective length mm	Maximum 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

Knotted Steel Wire Round Brushes With Bore



Type
 Solid steel body,
 knotted high-performance steel wire.

Use
 For direct mounting on angle grinders.
 For heavy-duty brushing tasks, weld seam processing.

Note:
 Cat.-no. 47603 201 is particularly suitable for one hand angle grinders and straight grinders.



47603

Ø mm	Bore Ø mm	Working width mm	Wire effective length mm	Wire Ø mm	Maximum approx. RPM	47603
115	22,2	12	23	0,5	12.500	201
125	22,2	13	28	0,5	12.500	202
178	22,2	13	42	0,5	12.000	203

47620 - 47621

Knotted Tapered Brushes Combitwist® with Thread



Type
 With COMBITWIST® knotting.

Use
 For derusting, descaling and cleaning of weld seams and deburring.
 Thanks to the spherical shape, perfect for processing places that are hard to reach.
 Can be used for extreme implementation on angle with higher rotational speeds (to 80 RPM).

47620
Type
 Steel wire 0,5 mm Ø.

47621
Type
 INOX wire 0,35 mm Ø.



47620 - 47621

Ø mm	Thread	Number of knots	Working width mm	Wire effective length mm	Maximum 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 Knotted Round Brushes With Thread



Use
 For aggressive brushing in hard-to-reach spots, e.g. on welds or angle plates.
 For all common one-hand angle grinders.

47605 101-102
Type
 Smooth cast steel wire

47605 301-302
Type
 V2A wire.



47605

Ø mm	Thread	Working width mm	Wire effective length mm	Wire Ø mm	Maximum 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

Knotted Cup Brushes (Surface Brushes) With Thread



Type
With knotted wire.

Use
Especially for high-speed angle grinders.
With threaded insert M14.
For the most difficult brushing tasks.

Note:

Cup brushes have a support ring to prevent flaring or unwinding of knots. When the wire is partly worn down, the ring can be removed so that the brush can be used up completely.
65 mm Ø without support ring.

47610
Type
Wire quality **special steel wire**.

47612
Type
Wire quality **V4A wire**.



Ø 80 and 100 mm with support ring

Ø mm	Thread	Wire Ø mm	Maximum approx. RPM	Steel	V4A
				47610	47612
65	M14	0,5	12.500	201	201
80	M14	0,5	8.500	202	203
100	M14	0,5	8.500	203	203

47606 - 47607

Knotted Cup Brushes with Thread



Type
With knotted wire.

Use
Especially for high-speed angle grinders.
With threaded insert M14.
For the most difficult brushing tasks.
For cleaning applications such as removal of rust, for deburring and cleaning.

Note:

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

47606
Type
Wire grade **steel wire**.

47607
Type
Wire grade **INOX wire**, all brushes are degreased.

47606 - 47607



Ø mm	Thread	Wire thickness mm	Fill length mm	Number of knots	Maximum 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

Cup Brushes With Thread



Type
With unknotted wire.

Use
Perfect for brushing jobs of of medium difficulty mainly on large surfaces, for deburring, cleaning and derusting.
For angle grinders with thread adapter M14.

47613
Type
Steel wire.

47614
Type
INOX wire, brushes degreased.

47613 - 47614



Ø mm	Thread	Wire effective length mm	Wire Ø mm	Maximum approx. RPM	Steel	INOX
					47613	47614
60	M14	20	0,3	12.500	101	104
75	M14	40	0,3	12.500	104	104

Abrasive Tools / Separating Tools

47615

Smoke Tube Brushes

Type

- Pressed on threaded connection fitting Ww. 1/2 inch
- Cast steel wire fill
- Double spiral

Note:

Plumber's snakes see cat.-no. 61322.

Ø mm	Ø Inch	Working length mm	Overall 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



47615

47630 - 47635

Internal Brushes With Thread

PFERD



Type

Unknotted.

Use

Specially suited for deburring and cleaning pipes, thread, muffers and cylinders.
For driving machines such as straight grinders, flexible shafts and drills.
For use with low rotational speeds to 1000 RPM

47630

Type

Wire grade **steel**.

47631

Type

Wire grade **INOX**.

47632

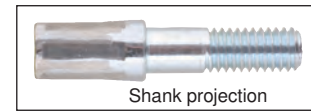
Type

Wire grade **brass**.

Note:

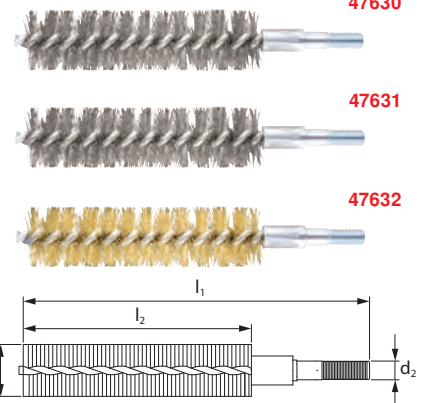
In addition to thread, internal brushes to Ø 20 mm are provided with a shank insert that enables clamping in collets of 6 mm.

Internal brushes with 3/8 inch thread are additionally equipped with a 10 mm shank insert.



Shank projection

Ø d ₁ mm	Thread	Fill length d ₂ mm	Overall 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 handle, quick-change grips:

To also reach places that are difficult to access with internal brushes, extension, wire handle and quick-change grips are used.

The **extensions and wire handles** offer different combination possibilities for reaching the desired overall length.

Multiple **extensions** can be interconnected.

47635 101

Extensions

Use

For internal brushes with **M6 thread**, Cat.-no. 47630 - 47632.

47635 102

Wire handle

Use

For internal brushes with **M6 thread**, Cat.-no. 47630 - 47632.

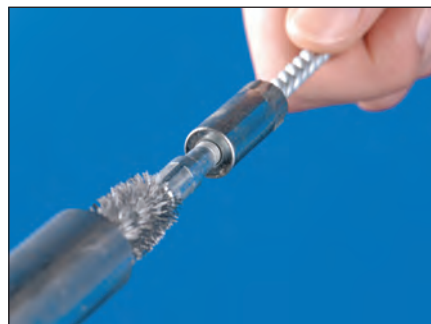
47635 103

Quick-change handle

Use

For internal brushes with **M6 thread**, Cat.-no. 47630 - 47632 101-108.

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

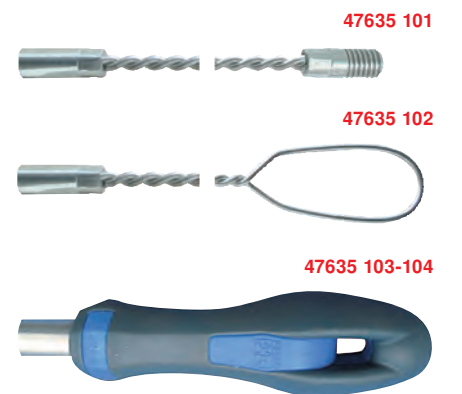


47635 104

Quick-change handle

Use

For internal brushes with **3/8 inch thread**, Cat.-no. 47630 - 47632 109-111.



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



Honing tool

47700 - 47702

Honing tool Novoflex-B

osborn

Type

Robust, **self-centring** honing tool for smooth grinding.

SiC fill.

Thanks to the flexible design, the abrasive balls adapt to the surface and are therefore suitable for chamfering, for finishing of surfaces, and in untrue boreholes.

Recommended RPM 350 - 700.

Overall length 200mm.

Use

Ideal tool for generating a uniform fine-ground surface with high contact ratio, the so-called plateau-finish.

For the automotive, aerospace, hydraulic, heat exchanger industries.

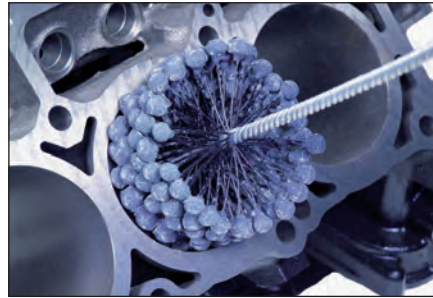
Suitable for hand drills, honing machines, and automated machines.

Quality

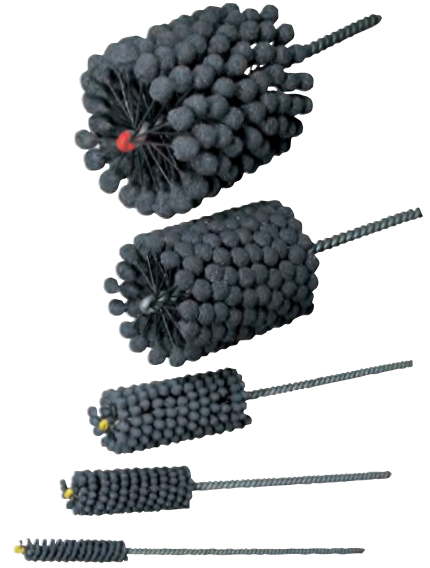
Silicon carbide.

Note:

For use with honing oil or also dry.



47700 - 47702



Ø mm	for bore Ø to mm	Working width mm	Shank Ø mm	SiC/grit 120		SiC/grit 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
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

LARGE SELECTION – SIMPLE SEARCH

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