

47005 - 47008

Wire scratch brushes

ATORN®

Type

Overall length approx. 295 mm, working length approx. 145 mm, trim height approx. 25 mm.

47005

Smooth, hardened **cast steel wire**, 0,35 mm Ø.

47006

V2A steel wire, 0,30 mm Ø, crimped (rust and acid resistant).

47007

Brass wire, fine, 0,15 mm Ø, crimped.

47008

Rivet Brushes

Smooth, hardened **cast steel wire**, 0,35 mm Ø. With tufts tapering to points, **trim height approx. 35 mm**.

	Cast steel		V2A		Brass		Rivet brush
Rows of bundles	47005	...	47006	...	47007	...	47008
2	101		101		101		
3	102		102		102		102
4	103		103		103		
5	104		104		104		



47015

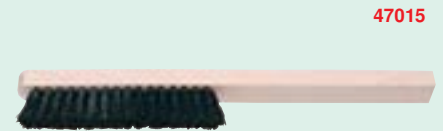
Thread brushes

HHW

Type

Trim **4 rows**, horsehair, bristles, trim height 18 mm, working length 105 mm.

Overall length	47015	...
mm		
220		101



47016

Workshop brushes

HHW

Type

4 rows, Korfil-D trim, trim height 60 mm, working length 150 mm. **Densely tufted, high resistance to oil, grease and weak acids, e.g. coolant and cutting fluids.**

Application

For machine cleaning work.

Overall length	47016	...
mm		
310		101



47017

Spark plug brushes

HHW

Type

3 rows, crimped brass wire 0,15 mm Ø, trim height 15 mm with plastic body.

Overall length	47017	...
mm		
180		101



47020

Brake calliper/Multi-purpose brushes

Type

2 rows, trim height 23 mm, working length 95 mm. With 2-component plastic handle.

Application

For derusting and cleaning of brake callipers.

47020 101

Type

Smooth **steel wire** 0,3 mm Ø.

47020 102

Type

Wavy **steel wire** 0,35 mm Ø.

47020 103

Type

Wavy **brass wire** 0,3 mm Ø.

Wire	Type	Overall length	47020	...
		mm		
steel	straight	245		101
steel	crimped	245		102
brass	crimped	245		103



47070

File cards

ATORN®

47070

Type
Trim: Card filleting, working area approx.
 110 x 40 mm.



Overall length		47070	...
mm			
	250		102

47190 - 47193 Shank-mounted circular brushes

PFERD

Type
 With straight 6 mm Ø clamping shank.
Application
 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
Quality
 Steel wire.

47191
Quality
 INOX wire.

47192
Quality
 Brass wire.

47193
Quality
 Plastics (SiC).

47190 - 47193



Brush Ø mm	Trim width mm	Trim material Ø mm	Trim length mm	Overall length mm	Recommended rotational speed rpm	max. rotational speed rpm	Steel wire	
							47190	...
20,0	4,0	0,20	3,0	37,0	10.000-15.000	20.000		101
30,0	6,0	0,20	6,5	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	12,5	50,0	8.000-12.500	15.000		104
60,0	15,0	0,20	15,0	50,0	7.500-11.500	15.000		105
70,0	10,0	0,30	19,0	50,0	6.500-10.500	15.000		106
70,0	15,0	0,30	19,0	50,0	6.500-10.500	15.000		108
80,0	15,0	0,30	19,0	50,0	6.000-9.000	12.000		111

Brush Ø mm	Trim width mm	Trim material Ø mm	Trim length mm	Overall length mm	Recommended rotational speed rpm	max. rotational speed rpm	INOX wire	
							47191	...
20,0	4,0	0,20	3,0	37,0	8.000-13.000	20.000		101
30,0	6,0	0,20	6,5	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	12,5	50,0	6.500-11.000	15.000		104
60,0	15,0	0,20	15,0	50,0	6.000-10.500	15.000		105
70,0	10,0	0,20	19,0	50,0	5.500-9.500	15.000		106
70,0	15,0	0,15	19,0	50,0	5.500-9.500	15.000		107
70,0	15,0	0,30	19,0	50,0	5.500-9.500	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	Trim width mm	Trim material Ø mm	Trim length mm	Overall length mm	Recommended rotational speed rpm	max. rotational speed rpm	Brass wire	
							47192	...
30,0	6,0	0,20	6,5	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	12,5	50,0	6.000-9.300	15.000		104
70,0	15,0	0,30	19,0	50,0	5.500-9.000	15.000		108

Brush Ø mm	Trim width mm	Trim materia Ø mm	Trim length mm	Overall length mm	Recommended rotational speed rpm	max. rotational speed rpm	Plastics (SiC)	
							47193	...
50,0	15,0	0,90	12,5	50,0	6.000-9.300	15.000		104
70,0	15,0	0,90	19,0	50,0	5.500-9.000	15.000		108

47233 - 47235

Shank-mounted circular brushes



Type

Steel body with straight
6 mm Ø clamping shank.

Application

For fitting in hand grinders or flexible shafts.

47233

Type

Special steel wire quality, fine.
Wire gauge 0,2 mm.

Application

For fine brushing etc.

47234

Type

Special steell wire quality, coarse.
Wire gauge 0,3 mm.

Application

For cleaning, rust removal etc.

47235

Type

Wire grade V4A.

Application

For work on stainless steel.

47235 104

Type

Wire gauge 0,2 mm.

47235 105

Type

Wire gauge 0,3 mm.

47233 - 47235



Ø mm	Working width mm	Maximum rotational speed approx. rpm	V4A						
			47233	...	47234	...	47235	...	
50	17	15.000	103		103				
60	18	15.000	104		104			104	
70	18	15.000	105		105			105	

47250 - 47252

Rotary end brushes with shank

PFERD



Type

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

Application

Suitable for straight grinders, flexible shafts and drills. For all light-duty brushing jobs. 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.

47252

Type

Brass wire.

47250 - 47252



Ø mm	Wire gauge Ø mm	Effective wire mm	Length maximum rotational speed 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

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Performance requires quality.

Solid carbide high-performance twist drills by ATORN:

- solid carbide Ultra-finest grit
- longest service life
- innovative centring geometry
- internal coolant flow
- precision-ground for safest machining

This is but one example of **ATORN's** high-quality drilling tools.

ATORN®



4

• Rotary end brushes • Cup brushes • Brush rollers • Polishing and deburring brushes

47253 - 47256 Rotary end brushes with shank



47253 - 47254

Type

Unknotted, long type. With cylindrical clamping shank 6 mm. Overall length 120 mm, brush diameter 10 mm.

Application

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

47255 - 47256

Type

SINGLETWIST knotting, i.e. the wires are knotted in the opposite direction of the brush. Therefore, the wires do not split during the application. Flexible single-knot brush. With cylindrical clamping shank 6 mm. Overall length 65 mm, brush diameter 10 mm.

Application

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

47253 - 47254



47255 - 47256



(SINGLETWIST)



Wire gauge mm	Brush Ø mm	Effective wire mm	Length maximum rotational speed approx. rpm	Steel		INOX			
				47253	...	47254	...	47255	...	47256	...
0,20	10	20	20.000	102	...	102	...	102	...
0,20	10	25	10.000	...	...	...	...	102	102
0,30	10	20	20.000	103	...	103	...	...	...
0,35	10	25	10.000	...	...	...	...	103	103

47260 - 47262 Rotary end brushes (Decarbonising brushes)

Type

With straight 6 mm Ø clamping shank.

Application

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

47261

Long type, **steel wire** 0,3 mm Ø.

47262

Splayed type 70 mm, **steel wire** 0,3 mm Ø.

47260



47261



47262



47260 102-104

Short type, **steel wire** 0,3 mm Ø.

47260 202-204

Short type, **V2A wire** 0,3 mm Ø.

Brush Ø approx. mm	Effective wire length approx. mm	Maximum rotational speed approx. rpm	short		long		splayed	
			47260	...	47261	...	47262	...
10	18	10.000	...	...	101	...	...	...
15	25	18.000	102	...	...	...	...	...
22	25	18.000	103	...	...	...	...	...
28	25	15.000	104	...	...	...	...	...
17	25	18.000	202	...	...	...	...	...
22	25	18.000	203	...	...	...	...	...
28	25	15.000	204	...	...	...	101	...

47263 - 47264 Cup brushes with shank



Type

Unknotted, for front-side application with the complete trim surface.

Application

For cleaning, derusting, smoothing, descaling and for the removal of corrosion and varnish.

47263

Type

Steel wire 0,3 mm Ø.

47264

Type

INOX wire 0,3 mm Ø. Plastic-coated brush.

47263 - 47264



Brush Ø approx. mm	Effective wire approx. mm	Length maximum rotational speed approx. rpm	Steel		INOX	
			47263	...	47264	...
50	20	10.500	101	...	101	...
60	20	4.500	102	...	102	...

47265

Steel wire cup brushes

Type

Wavy steel wire, coarse, 0,3 mm Ø.

Application

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

47265



Ø mm	Effective wire length mm	Shank Ø mm	Maximum rotational speed approx. rpm	47265 ...
50	17	6	4.500	101

47310

Brush rollers

PFERD



Type

Unknotted, borehole with 4 keyways. Borehole Ø 19,1 mm.

47310 101

Type

Stranded wire.

Application

Suitable for very heavy-duty brushing projects.

Thanks to the arrangement of the wire, the brushing effect is very aggressive.

47310 102

Type

INOX wire

Application

For texturing INOX workpieces. For perfect corrosion protection.

47310 103

Type

With plastic trim (SiC).

Application:

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

NEW

47310 101



47310 102

47310 103



Trim	Ø mm	Trim thickness Ø mm	Trim length mm	Trim width mm	Recommended rotational speed approx. rpm	Max. rotational speed approx. rpm	47310 ...
Stranded wire	100	0,27	26	100	2.500 - 4.500	6.000	101
INOX wire	100	0,20	26	100	2.500 - 4.500	6.000	102
Plastics (SiC)	100	1,27	26	100	2.000 - 4.000	6.000	103

47400

Bristle Brush™ polishing and deburring brushes

3M

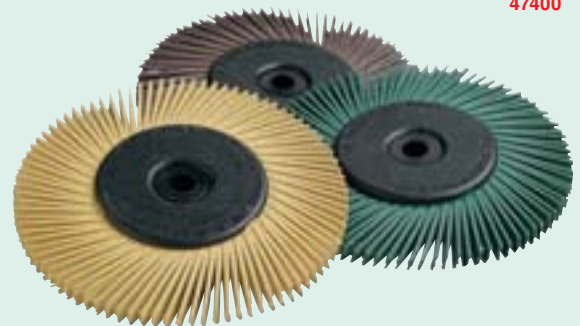
Type

The radial bristle brush consists of 8 components. These are attached to a back plate (25,4 mm inside diameter). The monolithic system prevents single components from becoming loose, something well-known from wire scratch brushes or scrapers. The brushes come with **4 inside diameter reduction adapters (13, 16, 19 and 22 mm)**. Long cleaning life.

Application

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 rotational 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



• Wire wheels • Tapered brushes

47403 - 47404

Wire wheel brushes

Type

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

Application

Multi-purpose brush for all medium-heavy hard brushing jobs.

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.

Note:

For multi-purpose use of the Ø 100, 125, 150, 178, and 200 mm, each brush comes with 2 and/or 7 borehole adapters: Ø 100 and 125 mm: 2 reductions from Ø 20 mm to Ø 1/2" and 5/8"; Ø 150, 178 and 200 mm: 7 reductions from Ø 31, 75 mm to Ø 13/ 15 / 16 / 19 / 20 mm / 7/8" and 1"; (25,4 mm).

47403

Application

For work on iron and steel.

Quality

Special steel wire quality, Ø 0,3 mm.

47404

Application

For work on stainless steel.

Quality

V4A wire, Ø 0,3 mm.

47403 - 47404



Ø mm	Borehole Ø mm	With reducers	Working width mm	Effective wire length mm	Maximum rotational speed approx. rpm	Steel wire		V4A wire	
						47403	...	47404	...
100	20,00	x	20	23	8.000	201			
125	20,00	x	22	30	6.000	211			211
150	31,75	x	30	29	6.000	220			
178	31,75	x	32	38	6.000	230			230
200	31,75	x	30	38	4.500	236			
250	100,00	-	28	47	3.600	240			
250	100,00	-	28	47	3.600	241			

47601

Knot-type wire wheel brushes with shank

Type

Knotted heavy-duty steel wire 0,35 mm Ø.

Application

For direct mounting in hand grinders/flexible shafts.

47601



Ø mm	Working width mm	Effective wire length mm	Shank Ø mm	Maximum rotational speed approx. rpm	47601	...
75	12	18	6	20.000		101

47595 - 47596

Wire wheels pipeliner with hole/thread

PFERD



Type

With borehole/thread, knotted. Effective width 6 mm.

Aggressive and sturdy brush, which is suitable for high mechanical stress.

Application

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 0,5 mm Ø.

47596

Type

INOX wire 0,5 mm Ø.

All brushes degreased.

47595 - 47596



Ø mm	Effective wire length mm	Borehole/thread Ø mm	Maximum rotational speed approx. rpm	Steel		INOX	
				47595	...	47596	...
115	19	22,2	12.500	101			
125	19	22,2	11.000	102			
125	19	M 14	11.000	103			103
178	28	22,2	9.000	107			
178	28	M 14	9.000	108			108

47598 - 47599

Wire wheels COMBITWIST® with borehole

PFERD



Type

Borehole 22,2 mm. With COMBITWIST® knotting, therefore smooth running, even when working on corners and edges. No recoil when machining corners. Increased service life and removal of material. Less unravelling of the knots during use.

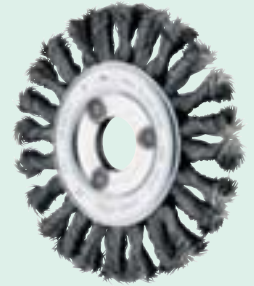
Application

For heavy-duty application with angle grinders and with higher rotational speed (up to 80 m/s).

47598
Type
Steel wire 0,5 mm Ø.

47599
Type
INOX wire 0,35 mm Ø.

47598 - 47599



Ø	Working width	Effective wire length	Maximum rotational speed	Steel		INOX	
				47598	...	47599	...
mm	mm	mm	approx. rpm				
115	12	28	12.500	101		101	
125	12	33	11.000	102		102	
178	13	42	9.000	103		103	

47603

Knot-type wire wheel brushes

Type

With all-steel body, knotted heavy-duty steel wire 0,5 mm Ø.

Application

For direct mounting on angle grinders. For hardest brushing works, working on welds.

Note:

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

47603



Ø	Working width	Effective wire length	Borehole	Maximum rotational speed	47603	...
mm	mm	mm	Ø mm	approx. rpm		
115	12	23	22,2	12.500		201
178	13	42	22,2	12.000		203

47620 - 47621

Tapered brushes COMBITWIST®

PFERD



Type

With COMBITWIST® knotting. Thread M 14.

Application

For derusting, descaling, cleaning of welds and for deburring. Thanks to the tapered shape perfect for the application in hard-to-reach places. Suitable for heavy-duty application with angle grinders and with higher rotational speed (up to 80 m/s).

47620
Type
Steel wire 0,5 mm Ø.

47621
Type
INOX wire 0,35 mm Ø.

47620 - 47621



Ø	Number of knots	Working width	Effective wire length	Maximum rotational speed	Steel		INOX	
					47620	...	47621	...
mm		mm	mm	approx. rpm				
100	22	13	22	20.000	101		101	
115	22	15	26	15.000	102		102	
125	28	15	19	15.000	103		103	

47605

Depressed-centre knot-type wire wheel brushes

Type

Trim: smooth cast steel wire 0,5 mm Ø, mount: thread M 14 x 2,0.

Application

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

47605



Ø	Working width	Effective wire length	Maximum rotational speed	47605	...
mm	mm	mm	approx. rpm		
100	13	22	12.500		101

• Cup brushes • Tube brushes • Internal brushes

47606 - 47607

Knotted Cup Brushes



Type
With knotted wire.

Application
Specially for high-speed angle grinders, with thread adapter M 14, for very heavy duty surface brushing. For cleaning applications such as removal of rust, for deburring and cleaning.

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.

47606
Type
Wire grade **steel wire**.

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

47606 - 47607



Ø mm	Wire gauge mm	Trim length mm	Number of knots	Maximum rotational speed approx. rpm	Steel		INOX	
					47606	...	47607	...
65	0,35	22	18	12.500	101		101	
65	0,50	22	18	12.500	105		105	
80	0,50	25	22	8.500	110			
80	0,35	25	22	8.500				110
100	0,50	25	26	8.500	111			
100	0,35	25	26	8.500				111

47610 - 47612

Cup wire wheel brushes

Type
With knotted wire 0,5 mm Ø, single-row.

Application
Specially for high-speed angle grinders, with thread adapter M 14, for very heavy duty surface brushing.

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
Special high-speed steel wire quality 0,5 mm Ø.

47612
Type
Wire grade **V4A wire** 0,5 mm Ø.

47610 - 47612



Ø mm	Knot rows	Maximum rotational speed approx. rpm	steel		V4A	
			47610	...	47612	...
65	1	12.500	201		201	
80	1	8.500	202			
100	1	8.500	203			203

47613 - 47614

Cup brushes with thread



Type
With unknotted wire 0,3 mm Ø.

Application
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	Effective wire length mm	Maximum rotational speed approx. rpm	Steel		INOX	
			47613	...	47614	...
60	20	12.500	101			
75	40	12.500	104		104	
100	25	8.500	105			105

47615

Tube brushes

Type

With pressed-on thread connector Ww. 1/2 inch, cast steel wire trim, working length 100 mm, overall length 160 mm. Double spiral.

Note:

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

47615



Ø mm	Ø inch	47615	...
38	1.1/2		101
50	2		102
63	2.1/2		103
101	4		105

47630 - 47635

Internal brushes with thread

PFERD



47630 - 47632

Type

Unknotted. Overall length 120 mm.

Application

For deburring and cleaning of pipes, threads, sleeves and cylinders. For driving machines such as straight grinders, flexible shafts and drills. For lower rotational speed of up to 1000 rpm.

Note:

In addition to the existing thread, the internal brushes up to diameter 20 mm are equipped with a shank which allows the clamping in 6 mm collets. Internal brushes with 3/8" thread are equipped with a shank (10 mm).

47630

Type

Wire grade **steel**.

47631

Type

Wire grade **INOX**.

47632

Type

Wire grade **brass**.

47635 101

Extension for internal brushes

Application

For cat.-no. 47630 - 47632.

47635 102

Wire shaft for internal brushes

Application

For cat.-no. 47630 - 47632.

47635 103

Quick-change handle for internal brushes with M 6 thread.

Application

For cat.-no. 47630 - 47632.

47635 104

Quick-change handle for internal brushes with 3/8" thread.

Application

For cat.-no. 47630 - 47632.

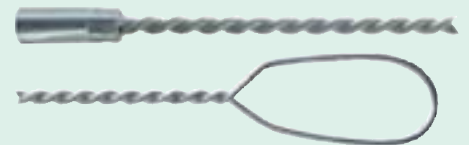
47630 - 47632



47635 101



47635 102



47635 103-104



Ø mm	Thread	Trim length mm	Steel		INOX		Brass	
			47630 €	...	47631	...	47632	...
8	M 6	80		101		101		101
10	M 6	80		102		102		102
12	M 6	80		103		103		103
15	M 6	80		105		105		105
18	M 6	80		107 NEW		107 NEW		107 NEW
20	M 6	80		108		108		108
22	3/8 inch	100		109 NEW		109 NEW		109 NEW
25	3/8 inch	100		110 NEW		110 NEW		110 NEW
30	3/8 inch	100		111 NEW		111 NEW		111 NEW



	Length ca. mm	47635	...
Extension	1000		101
Wire shaft	800		102
Quick-change handle (for M 6)	135		103 NEW
Quick-change handle (for 3/8 inch)	135		104 NEW



• Honing tool

47700 - 47702

Honing tool Novoflex-B



Robust, **self-centring** honing tool for smooth grinding. **SiC trim**. 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 rotational speed 350 - 700 rpm**. Overall length 200 mm.

Application

The perfect tool to create a uniform, finely ground surface §§ mit hohem Traganteil§, 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 usage with honing oil or dry.

NEW

47700 - 47702



Ø mm	For borehole Ø up 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	

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Performance requires quality.

- Burrs by ATORN:
- high-strength materials
 - longest service life
 - various milling profiles

This is but one example of ATORN's high-quality grinding and cutting tools.

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