

# MANUAL BRUSHES

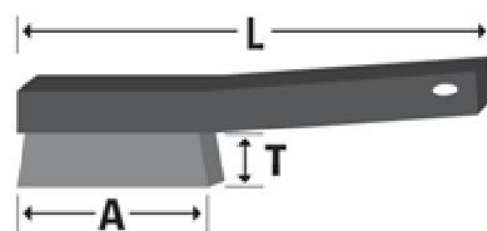
## Universal Brush - Plastic Handle

### Characteristics:

- Decap, remove rust, clean.
- All-round brush with plastic handle for all sorts of cleaning applications.



Measurements (mm)				Units	Steel wire	Stainless steel wire	Brass steel wire	Brass wire
A	T	L	Rows		crimped, 0,30 mm	crimped, 0,30 mm	crimped, 0,30 mm	crimped, 0,30 mm
					Order-No.	Order-No.	Order-No.	Order-No.
140	25	265	1	24	0008-462 291	0008-462 391	0008-462 091	0008-462 591



## Plastic body

- Decap, remove rust, clean.
- Ideal for light work and cleaning in general.



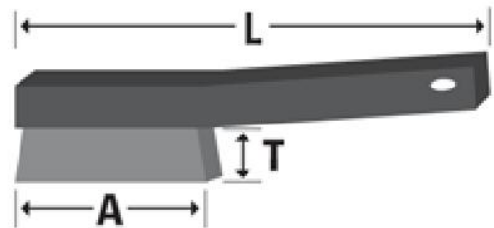
Measurements (mm)				Units	Steel wire	Stainless steel wire	Brass wire
A	T	L	Rows		straight, 0,35 mm	crimped, 0,30 mm	crimped, 0,30 mm
					Order-No.	Order-No.	Order-No.
100	23	280	1	10	0001-433 521	-	-
100	23	280	2	10	0008-462 132	0008-451 332	0008-447 572
100	23	280	3	10	0008-462 133	0008-451 333	0008-447 573
100	23	280	4	10	0008-462 134	0008-451 334	0008-447 574
100	23	280	5	10	0008-462 135	-	-

## Curved plastic body



- Decap, remove rust, clean.
- For general use and all types of light work and cleaning

Measurements (mm)				Units	Steel wire	White nylon	Black PVC
A	T	L	Rows		straight, 0,35 mm	straight, 0,30 mm	straight, 0,20 mm
					Order-No.	Order-No.	Order-No.
140	23	280	1	10	0001-433 521	0001-433 501	0001-433 511
140	23	280	2	10	0001-433 522	0001-433 502	0001-433 512
140	23	280	3	10	0001-433 523	0001-433 503	0001-433 513



## Non-slip and ergonomic straight and crimped wire



- Decap, remove rust, clean.
- The curved non-slip handle prevents injuries to the fingers and hands

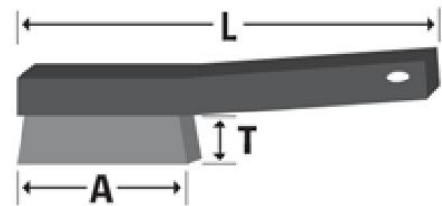
Measurements (mm)				Units	Steel wire	Stainless steel wire	Brass wire
A	T	L	Rows		straight, 0,35 mm	crimped, 0,30 mm	crimped, 0,20 mm
					Order-No.	Order-No.	Order-No.
110	23	270	1	5	0001-432 601	0001-432 611	0001-432 621
110	23	270	2	5	0001-432 602	0001-432 612	0001-432 622
110	23	270	3	5	0001-432 603	0001-432 613	0001-432 623
110	23	270	4	5	0001-432 604	0001-432 614	0001-432 624
110	23	270	5	5	0001-432 605	0001-432 615	0001-432 625

## Non-slip and ergonomic crimped wire

- Decap, remove rust, clean.
- For general use and all types of light work and cleaning



Measurements (mm)				Units	Steel wire straight, 0,30 mm	Steel wire crimped, 0,35 mm	Brass wire crimped, 0,30 mm
A	T	L	Rows		Order-No.	Order-No.	Order-No.
95	23	245	2	10	3301-462 122	3301-462 162	3301-462 562

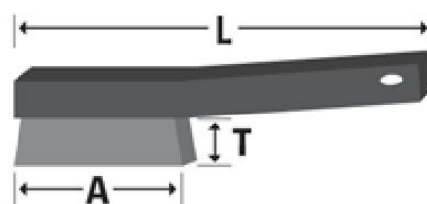


## Slip and ergonomic

- Decap, remove rust, clean.
- The curved non-slip handle prevents injuries to the fingers and hands



Measurements (mm)				Units	Steel wire straight, 0,35 mm
A	T	L	Rows		Order-No.
135	23	280	4	12	0001-181 134



## Wooden body - Standard design

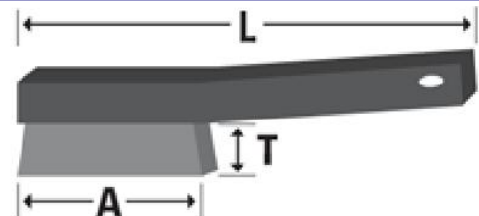


- Decap, remove rust, clean.
- The body of the brush is made with first class beech wood, rounded edges and has a 10mm hole.

Measurements (mm)				Units	Steel wire	Stainless steel wire	Stainless steel wire	Stainless steel wire
A	T	L	Rows		straight, 0,30 mm	straight, 0,30 mm	crimped, 0,30 mm	straight, V4A 0,30 mm
					Order-No.	Order-No.	Order-No.	Order-No.
140	23	285	1	12	0008-462 291	-	-	-
145	25	295	2	100	0008-462 291	-	-	-
145	25	295	2	12	0008-462 291	0001-151 332	0001-151 392	0001-152 332
145	25	295	3	100	0008-462 291	-	-	-
145	25	295	3	12	0008-462 291	0001-151 333	0001-151 393	0001-152 333
145	25	295	4	100	0008-462 291	-	-	-
145	25	295	4	12	0008-462 291	0001-151 334	0001-151 394	0001-152 334
145	25	295	5	100	0008-462 291	-	-	-
145	25	295	5	12	0008-462 291	0001-151 335	0001-151 395	0001-152 335
145	25	295	6	100	0008-462 291	-	-	-
145	25	295	6	12	0008-462 291	0001-151 336	0001-151 396	0001-152 336

Measurements (mm)				Units	Brass steel wire	Brass wire	Brass wire	Brass wire
A	T	L	Rows		straight, 0,30 mm	straight, 0,15 mm	straight, 0,25 mm	crimped, 0,30 mm
					Order-No.	Order-No.	Order-No.	Order-No.
145	25	295	2	100	0001-151 022	-	-	-
145	25	295	2	12	0001-152 022	0003-147 572	0001-158 522	0001-150 592
145	25	295	3	100	0001-151 023	-	-	-
145	25	295	3	12	0001-152 023	0003-147 573	0001-158 523	0001-150 593
145	25	295	4	100	0001-151 024	-	-	-
145	25	295	4	12	0001-152 024	0003-147 574	0001-158 524	0001-150 594
145	25	295	5	100	0001-151 025	-	-	-
145	25	295	5	12	0001-152 025	0003-147 575	-	0001-150 595
145	25	295	6	12	0001-152 026	-	-	0001-150 596

Measurements (mm)				Units	Smooth wire	Steel wire
A	T	L	Rows		straight	crimped, 0,30 mm
					Order-No.	Order-No.
145	25	295	4	12	0003-151 124	0001-151 194
145	25	295	5	12	0003-151 125	-



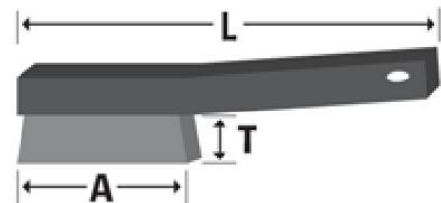
## Professional high density wooden body

- For hard work



- Special line with very high density for applications of great difficulty.
- Decap, remove rust, clean.
- The body of the brush is made with first class beech wood, rounded edges and has a 10mm hole.

Measurements (mm)			Units	Steel wire	Stainless steel wire	Brass wire	
A	T	L		straight, 0,35 mm	straight, 0,35 mm	crimped, 0,30 mm	
			Rows	Order-No.	Order-No.	Order-No.	
160	30	310	1	12	0901-151 091	0901-152 331	0901-151 591
160	30	310	2	12	0901-151 092	0901-152 332	0901-151 592
160	30	310	3	12	0901-151 093	0901-152 333	0901-151 593
160	30	310	4	12	0901-151 094	0901-152 334	0901-151 594
160	30	310	5	12	0901-151 095	0901-152 335	0901-151 595



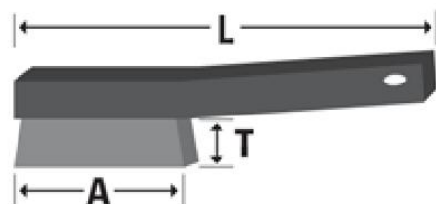
## Wooden body, V shape

- Especially for chamfer



- Decap, remove rust, clean.
- Ideal for cleaning welds of pipes, plates, sheets, etc.

Measurements (mm)			Units	Steel wire	Stainless steel wire	
A	T	L		straight, 0,35 mm	crimped, 0,35 mm	
			Rows	Order-No.	Order-No.	
145	35	295	3	12	0003-162 133	0003-162 333



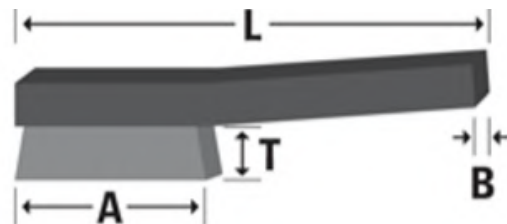
## Wooden body - Long handle

- Decap, remove rust, clean.
- Special models: brushes that clean more efficiently. First class beech wood, extra density, first quality wire.



Measurements (mm)					Units	Steel wire straight, 0,35 mm Order-No.	Stainless steel wire straight, 0,35 mm Order-No.
A	T	L	B	Rows			
105	25	325	25	3x12	12	0101-377 093	-
150	27	350	25	3x12	12	0101-177 093	0001-177 333
150	27	350	25	3x12	12	0101-186 093*	-
150	27	350	32	3x12	12	0101-177 094	-

\*con rascador

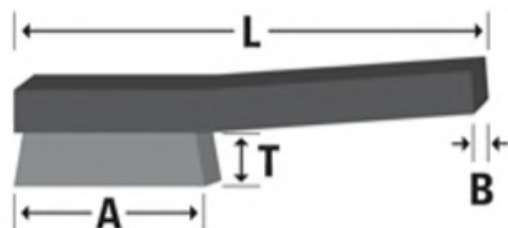


## Wooden body - Curved handle

- Decap, remove rust, clean.
- Special models: brushes that clean more efficiently. First class beech wood, extra density, first quality wire.



Measurements (mm)					Units	Steel wire straight, 0,35 mm Order-No.
A	T	L	B	Rows		
125	30	255	25	3x16	12	0101-180 093
125	30	255	32	4x16	12	0101-180 094

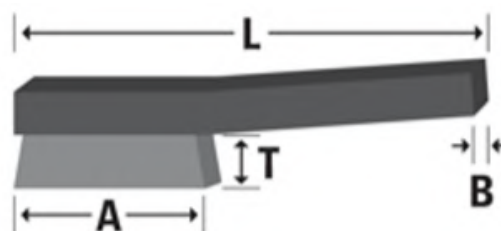


## Wooden body - Radiator

- Decap, remove rust, clean.
- Special models for cleaning curved parts: brushes clean more efficiently. The body of the brush is made with first class beech wood, extra density and top quality wire.



Measurements (mm)					Units	Steel wire straight, 0,35 mm
A	T	L	B	Rows		Order-No.
100	15	450	15	2	100	0001-192 112
100	15	450	16	3	100	0001-192 113

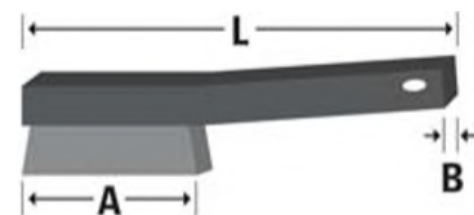


## File card brush

File cleaning, deburring parts, fur and synthetic carding for the footwear industry, etc.

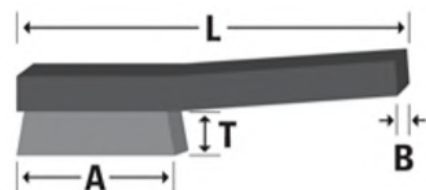


Measurements (mm)			Units	Steel wire straight, 0,35 mm
A	L	B		Order-No.
100	235	25	12	0003-140 101
115	235	40	12	0003-140 102
165	300	40	12	0003-140 103
115	235	55	12	0003-140 104
1000	-	20	Metro	0008-138 105
1000	-	25	Metro	0008-138 102
1000	-	40	Metro	0008-138 104



## Fine Scratch Brush

- Slight and delicate cleaning such as electronic parts, jewelry, cutting tools, electrical contacts, spark plugs, toys, crafts, furniture, etc.
- The body of the brush is made with first class beech wood with rounded edges.



Measurements (mm)					Units	Black bristle extra strong Order-No.	White bristle extra strong Order-No.	White goat hair extra strong Order-No.
A	T	L	B	Rows				
100	18	220	18	4	12	0003-165 964	4014-165 964	4014-165 984
100	18	224	22	5	12	4004-165 985	-	4014-165 985

Measurements (mm)					Units	Nylon straight, strong Order-No.	Nylon straight, fine Order-No.	Brass wire crimped, 0,15 mm Order-No.	Stainless steel wire crimped, 0,10 mm Order-No.
A	T	L	B	Rows					
100	18	220	18	4	12	4004-165 834	4004-165 814	0003-165 584	4004-165 324
100	18	224	22	5	12	4004-165 835	4004-165 815	4004-165 535	-
100	18	325	35	8	12	-	-	4004-165 538	-

## Spark plug brush

Slight and delicate cleaning such as electronic parts, jewelry, cutting tools, electrical contacts, spark plugs, toys, crafts, furniture, etc.

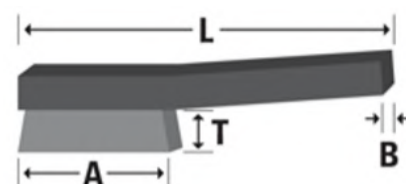


### Plastic body

Measurements (mm)					Units	Brass steel wire straight, 0,20 mm Order-No.	Brass wire crimped, 0,20 mm Order-No.	Brass wire crimped, 0,20 mm Order-No.	Stainless steel wire crimped, 0,20 mm Order-No.
A	T	L	B	Rows					
-	-	190	-	3	24	0023-133 073	2103-432 573	0008-432 573	0023-133 373

### Wooden body

Measurements (mm)					Units	Brass steel wire straight, 0,20 mm Order-No.	Brass steel wire crimped, 0,20 mm Order-No.	Brass wire crimped, 0,20 mm Order-No.	Stainless steel wire crimped, 0,20 mm Order-No.
A	T	L	B	Rows					
25	15	100	16	2x5	50	-	-	0003-131 572	-
45	18	200	18	3x6	24	0004-133 073	2103-133 073	0003-133 573	2103-133 373
50	20	195	26	5x8	24	-	-	0003-134 575	-



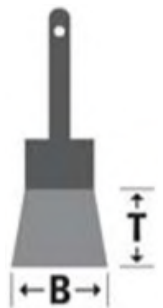


## Paint brush

- Wooden handle with steel spikes suitable for cleaning and scratching bottoms and hard to reach points.
- For aggressive cleaning.



Measurements (mm)		Units	Steel wire	Brassed wire
B	T		crimped, 0,35 mm	crimped, 0,40 mm
			Order-No.	Order-No.
20	40	30	0004-114 033	0004-114 034

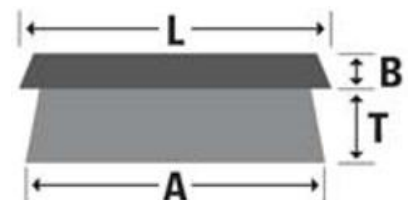


## Butchers brush

- Removal of oxides, paint, lacquers, rust.
- Especially indicated for sand cleaning in castings and stones or roads. Clean and scrub with large waste disposal capacity. Obtaining rustic surfaces in furniture, floors and wooden walls.



Measurements (mm)			Units	Steel wire		
A	T	L		B	Rows	Order-No.
100	30	115	42	5x10	12	0101-179 094
170	30	185	60	6x19	12	0101-179 095
170	40	185	60	6x19	12	0101-179 096



## Violin shape Butchers brush

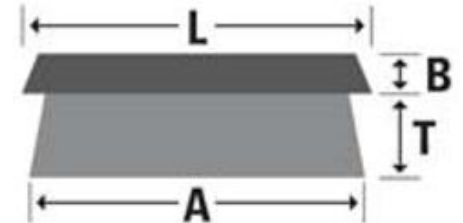
- Clean, wash, scrub.
- Especially indicated for sand cleaning in castings and stones or roads. Clean and scrub with large waste disposal capacity. Obtaining rustic surfaces in furniture, floors and wooden walls.



Measurements (mm)				Units	Steel wire straight, 0,35 mm	Brass steel wire straight, 0,30 mm	Brass steel wire straight, 0,50 mm	Stainless steel wire straight, 0,35 mm
A	T	L	B	Rows	Order-No.	Order-No.	Order-No.	Order-No.
170	35	210	59/51	5	10	0001-179 097	0001-179 297	2103-179 297
190	35	210	52/46	5	10	-	-	-
200	35	210	57/48	5	10	-	0003-179 097	-

Measurements (mm)				Units	Straight wire straight, 0,35 mm	Wire rope straight, 0,35 mm
A	T	L	B	Rows	Order-No.	Order-No.
170	35	210	59/51	5	10	-
190	35	210	52/46	5	10	0023-179 197
200	35	210	57/48	5	10	2103-179 197

Measurements (mm)			Units	Esparto	White PP
A	L	B		Order-No.	Order-No.
100	235	25	12	0003-179 797	-
115	235	40	12	-	0003-179 897
165	300	40	12	0003-105 967	0003-105 867



## Butchers brush with plastic handle

Clean and scrub with large waste disposal capacity. Obtaining rustic surfaces in furniture, floors and wooden walls. Model especially suitable for cleaning stones and hard and / or very dirty surfaces.



Measurements (mm)				Units	Steel wire with adjuster straight, 0,35 mm	Steel wire without adjuster straight, 0,35 mm	
A	T	L	B	Rows	Order-No.	Order-No.	
190	40	205	60	5	10	0281-307 095	7601-306 095