

INNOVATORS IN BRUSH TECHNOLOGY

# NAMPOWER™

Nylon Abrasive Material Brushing Tools



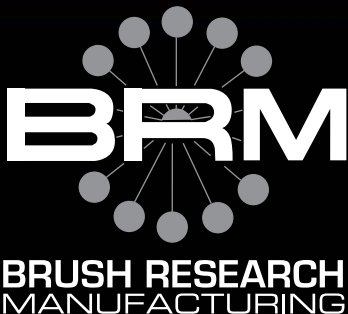
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**INCREASE**  
performance

**DECREASE**  
costs

**BOOST**  
reliability



Brush Research Manufacturing is proud to offer the leading choice for in-line machine deburring, edge radiusing and surface finishing applications: Nampower™ Tools. These tools are the highest quality abrasive brush products found on the market today. Composed of flexible abrasive nylon filament manufactured to a fiber reinforced thermoplastic base, these high-performance tools create reliable, consistent and cost effective results. Nampower™ Tools are easily integrated into today's automated machinery, CNC machining centers, transfer lines and robotic cells.

[www.brushresearch.com](http://www.brushresearch.com)



# NAMPOWER™

Brush Research introduces a truly unique approach to in-line machining and deburring systems with our combination filament disc brushes. BRM's new disc brushes are the highest professional grade tools on the market today. Manufactured using a fiber reinforced thermoplastic base, Nampower™ Disc Brushes provide greater rigidity and stability resulting in a more balanced tool that provides improved tool performance and longer tool life.

The Nampower™ product line is available in a variety of abrasive types and grit selections to work with materials which include but are not limited to: metallics, super alloys, plastics, composites, advanced composites, metal matrix, ceramics and more.

Our abrasive disc brushes contain a unique combination of both ceramic and silicon carbide filament that produce maximum burr removal rates and provides an optimum surface finish at the same time. The brushes are available in 2 different styles: Dot Style for general purpose deburring and surface finish applications and the Turbine Style brush for medium and heavy deburring applications. Both brush styles are available in three different diameters and two different trim lengths to suit most applications.

Brush Research offers a complete range of abrasive nylon finishing solutions. Our Hex-Drive Disc tools, Composite Hub Wheels and our combination filament Disc Brushes provide a total system approach to deburring, edge blending and surface finishing. Now the advantages of abrasive nylon material can be used to automate finishing processes on VMC, HMC, FMC, CNC and robotic applications producing a consistent finish from part to part. BRM's Nampower™ line of abrasive nylon tools sets the standard for performance and reliability.



## Holders for Abrasive Disc Brushes



Part Number	Shank Diameter	Holder Type
ADHLWMP	25mm	Standard Collet
ADHLWMSL	25mm	Standard Side Lock

Both Dot style and Turbine style disc brushes are designed for use with our "Flow Through Coolant" holder. The reusable holder allows coolant to flow from the brush center resulting in better lubricant dispersion which permits the brush to run at greater cut depths and drastically reduces heat generation. Reduced heat generation eliminates filament smearing, improves surface finish and promotes long tool life. Our holders are made using a carbon fiber reinforced thermoplastic material bonded to a hardened and ground steel shank which results in a more rigid, well balanced and light weight holder. Reducing tool holder weight produces less stress on machine spindle bearings.



### TYPICAL NAMPOWER™ APPLICATIONS :

- Deburring
- Rust Removal
- Gasket Cleaning & Removal
- Roughing
- Finishing prior to painting and plating
- Removal of silicon glue, paper gaskets and flash from rubber and plastic
- Pre-cast concrete mold cleaning
- Spot finishing
- Improve surface finish
- Weld cleaning
- Clean fiberglass
- Plastic automotive parts

## Dot Style



Dot Style disc brushes are used for general purpose edge deburring and surface finishing applications. The Dot style is an economical choice for light deburring applications when short cycle times are important. Dot style brushes provide greater flexibility and allow entry into small holes and spaces with ease.

## Turbine Style



Turbine style disc brushes are ideal for medium and heavy deburring applications. Our unique combination of Silicon Carbide and Ceramic filaments are used to allow the brushes to cut faster and last longer than any other brush on the market. The Turbine style filament is a high density fill that is ideal for short cycle times and long tool life.

Brush Diameter	Trim Length	Grit	MSFS	Part Number
100mm	18mm	80	2,200	ADD1001880
		120	2,200	ADD10018120
		180	2,200	ADD10018180
	38mm	320	2,200	ADD10018320
		80	2,200	ADD1003880
		120	2,200	ADD10038120
		180	2,200	ADD10038180
		320	2,200	ADD10038320

125mm	18mm	80	2,000	ADD1251880
		120	2,000	ADD12518120
		180	2,000	ADD12518180
	38mm	320	2,000	ADD12518320
		80	2,000	ADD1253880
		120	2,000	ADD12538120
		180	2,000	ADD12538180
		320	2,000	ADD12538320

150mm	18mm	80	1,800	ADD1501880
		120	1,800	ADD15018120
		180	1,800	ADD15018180
	38mm	320	1,800	ADD15018320
		80	1,800	ADD1503880
		120	1,800	ADD15038120
		180	1,800	ADD15038180
		320	1,800	ADD15038320

Brush Diameter	Trim Length	Grit	MSFS	Part Number
100mm	18mm	80	2,200	ADT1001880
		120	2,200	ADT10018120
		180	2,200	ADT10018180
	38mm	320	2,200	ADT10018320
		80	2,200	ADT1003880
		120	2,200	ADT10038120
		180	2,200	ADT10038180
		320	2,200	ADT10038320

125mm	18mm	80	2,000	ADT1251880
		120	2,000	ADT12518120
		180	2,000	ADT12518180
	38mm	320	2,000	ADT12518320
		80	2,000	ADT1253880
		120	2,000	ADT12538120
		180	2,000	ADT12538180
		320	2,000	ADT12538320

150mm	18mm	80	1,800	ADT1501880
		120	1,800	ADT15018120
		180	1,800	ADT15018180
	38mm	320	1,800	ADT15018320
		80	1,800	ADT1503880
		120	1,800	ADT15038120
		180	1,800	ADT15038180
		320	1,800	ADT15038320



# Hex-Drive Abrasive Disc Brushes



These tools are designed for use in semiautomatic and fully automatic machinery, including NC, CNC and robotic machine tools. Our unique Hex-Drive system allows the tools to be turned in both directions for 360° finishing. Typical applications include deburring, edge radiusing and general surface finishing.

## Drive Arbors for Hex-Drive Tools



## Composite Hub Abrasive Nylon Wheels

Diameter	Part Number	Face Width	Trim Length	Arbor Hole	Grit
6"	CW61280SC	1/2"	1-1/2"	2"	.040/80 SC
	CW612022120SC	1/2"	1-1/2"	2"	.022/120 SC
	CW612040120SC	1/2"	1-1/2"	2"	.040/120 SC
	CW612180SC	1/2"	1-1/2"	2"	.035/180 SC
	CW612320SC	1/2"	1-1/2"	2"	.022/320 SC
	CW612500SC	1/2"	1-1/2"	2"	.018/500 SC

6"	CW6180SC	1"	1-1/2"	2"	.040/80 SC
	CW61022120SC	1"	1-1/2"	2"	.022/120 SC
	CW61040120SC	1"	1-1/2"	2"	.040/120 SC
	CW61180SC	1"	1-1/2"	2"	.035/180 SC
	CW61320SC	1"	1-1/2"	2"	.022/320 SC
	CW61500SC	1"	1-1/2"	2"	.018/500 SC

8"	CW81280SC	1/2"	2-1/2"	2"	.040/80 SC
	CW812022120SC	1/2"	2-1/2"	2"	.022/120 SC
	CW812040120SC	1/2"	2-1/2"	2"	.040/120 SC
	CW812180SC	1/2"	2-1/2"	2"	.035/180 SC
	CW812320SC	1/2"	2-1/2"	2"	.022/320 SC
	CW812500SC	1/2"	2-1/2"	2"	.018/500 SC

8"	CW8180SC	1"	2-1/2"	2"	.040/80 SC
	CW81022120SC	1"	2-1/2"	2"	.022/120 SC
	CW81040120SC	1"	2-1/2"	2"	.040/120 SC
	CW81180SC	1"	2-1/2"	2"	.035/180 SC
	CW81320SC	1"	2-1/2"	2"	.022/320 SC
	CW81500SC	1"	2-1/2"	2"	.018/500 SC

Diameter	Part Number	Trim Length	Fil Dia./ Grit	Max RPM
2"	AHX2046	3/4"	.060/46SC	10,000
	AHX2060	1"	.045/60SC	10,000
	AHX2080	1"	.040/80SC	10,000
	AHX2120	1"	.028/120SC	10,000
	AHX2180	1"	.035/180SC	10,000
3"	AHX3046	3/4"	.060/46SC	10,000
	AHX3060	1"	.045/60SC	10,000
	AHX3080	1"	.040/80SC	10,000
	AHX3120	1"	.028/120SC	10,000
	AHX3180	1"	.035/180SC	10,000
4"	AHX4060	1"	.045/60SC	10,000
	AHX4080	1"	.040/80SC	10,000
	AHX4120	1"	.028/120SC	10,000
	AHX4180	1"	.035/180SC	10,000
5"	AHX5060	1"	.045/60SC	6,000
	AHX5080	1"	.040/80SC	6,000
	AHX5120	1"	.028/120SC	6,000
	AHX5180	1"	.035/180SC	6,000

Part Number	Shank Arbor	Shank Diameter	Max Brush Diameter	Max Safe Speed
AHXD250	1/2"	1/4"	4"	10,000
AHXD375	1/2"	3/8"	5"	10,000

NOTE: 2" Hex-Drive Brushes comes with an arbor. All other sizes must order a drive arbor separately.

For machine based or off-hand deburring processes, Brush Research's composite hub radial wheels offer a safe, durable alternative to wire wheels or non-woven abrasives. Their construction and flexibility provide a long lasting wheel with less filament breakage. Typical surface finishing and deburring applications in which composite hub radial wheel brushes excel include carbide cutting tools, turbine blades, steel gears and machined parts. **Also available in Diamond and Ceramic filaments.**



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