



Performance Surface Grinding Wheels

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

Committed to providing abrasive grinding solutions for manufacturing and service machining applications throughout North America. Our team of experienced staff and network of resources are consolidated to provide a one stop experience for our customers.



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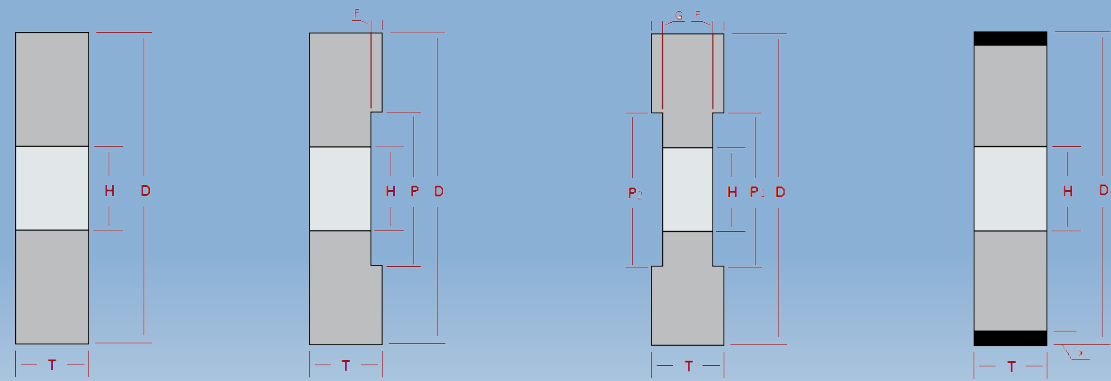
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GMSi-Surface Grinding Wheels

## Grades and Specifications



**Type-1**      **Type-5**      **Type-7**      **Type-1A1**  
Diamond and CBN

### Grain Types and Blends

We can custom formulate and blend grain types to suit your application.



### Bonds and Structure

Grinding wheel formulation can be tuned to meet an applications specific requirements, yielding maximum performance or operate within a broader material range. Please contact us with your material type, material hardness, machine type and production goal.

### PA 60-E 9V

Grain Type		Grit Size		Grade		Structure		Bond Type	
A	Brown Aluminum Oxide	24	Coarse	F	Soft	0	62%	B	Resinoid
WA	White Aluminum Oxide	30		G		1	60	V	Vitrified
PA	Pink Aluminum Oxide	36		2		58	BX	Epoxy	
SA	32A Equivalent	46		3		56	BF	Reinforced	
32P	32A and PA Blend	69		4		54			
GC	Green Silicon Carbide	80		5		52			
C	Black Silicon Carbide	100		6		50			
3KG	30% Blue Ceramic Grain	120		7		48			
5KG	50% Blue Ceramic Grain	220		8		46			
		320		9		44			
		400		10		42			
		800	11	40					
		1200	Fine	R	Hard	12	38		
						13	36		
						14	34%		

## Your Applications

Let us know about your application and what you are looking to accomplish

### Wheel Type and Dimension

**Type-1:** D x T x H      **Type-5:** D x T x H - (P x F)  
**Type-1A1:** D x H x T x X      **Type-7:** D x T x H - (P1 x F) (P2 x G)

### Current Wheel Specification

Grain Type   Grit Size   Grade   Structure   Bond Type

Your current wheel specification will give us a starting point to improve performance or resolve any issue

### Workpiece

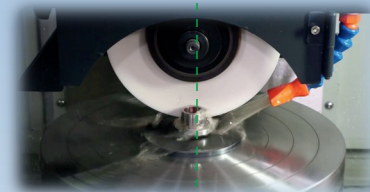
When possible please send us a workpiece drawing showing material type, material hardness, required surface finish, tolerance and *how much material is being removed*.

### Your Machine Type

Please let us know what type of machine (s) you are using, the horse power of the grinding motor, the type of coolant, filtration if any, and supply pump pressure used to cool the workpiece.



Flat Grinding



Rotary Grinding



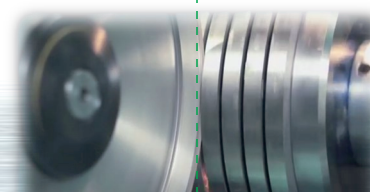
Centerless Grinding



External Grinding



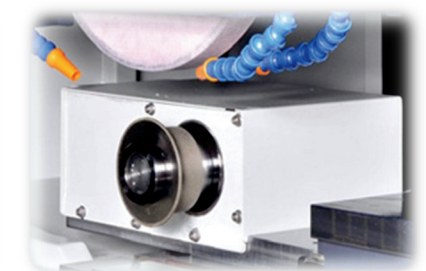
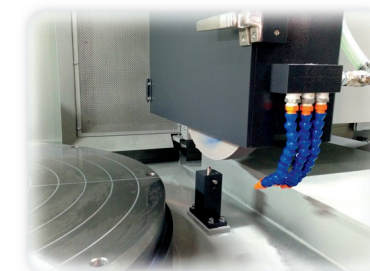
Internal Grinding



Knife Grinding

### Wheel Dressing Supplies

Diamond dressing points, hand dressing sticks and custom plated roll dressers.



### Our Inventory

It is our goal to maintain regular contact with our customer beyond the installation of their new machine by providing ongoing support via abrasive solutions. As your applications evolve we can recommend techniques, equipment options and solutions that meet with your production conditions.

Our inventory is continuously growing and evolving based on our customers requirements. Please contact us for an immediate response.

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