

# **WEBRAX**®

The strong brand for non-woven abrasives





# THERE ARE MANY GOOD REASONS FOR WEBRAX® PRODUCTS

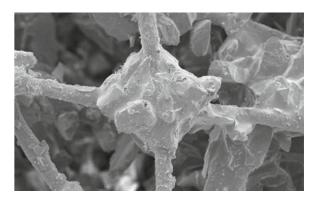
Hermes has been developing and producing webrax® non-woven abrasive tools in Germany for decades.

With our many years of experience, extensive expertise and high-performance product portfolio, we are your best partner when it comes to selecting high-quality, durable non-woven abrasives.

# Why use non-woven abrasives at all?

Abrasive tools made from non-woven materials have a special position in the abrasives market.

With their unique product properties, they enable special surface treatment and therefore very special finishing results that abrasives on backings such as paper or fabric cannot achieve.



For webrax® tools, a specially developed non-woven fabric is coated with synthetic resin and abrasive grains. As a result, the grains and non-woven material are firmly bonded together and the abrasive grains anchored in the material. The resulting open, three-dimensional and very flexible product structure results with numerous positive properties and advantages.

### Properties and advantages of webrax® products

- \* Creation of perfect finish qualities and defined surface results, such as special decors
- Gentle, not too aggressive processing, especially of sensitive surfaces
- \* High flexibility and maximum adaptability to shapes and contours
- \* Uniform, reproducible surface results
- \* High durability, stability, robustness and resistance
- \* Wide range of applications: dry and wet, by hand or machine, on numerous materials and workpieces

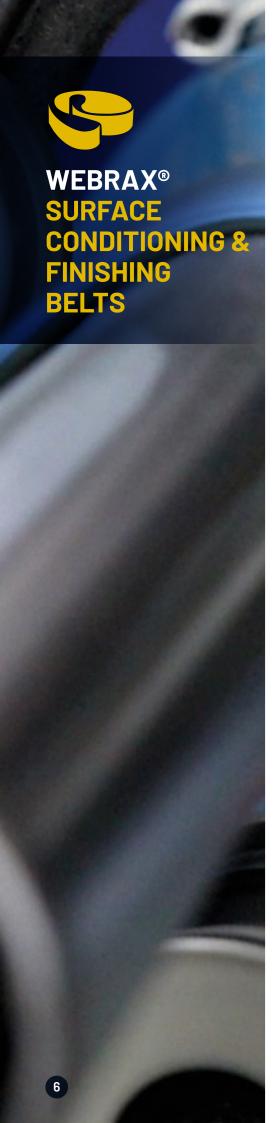


### **WEBRAX®**

## **PRODUCT FAMILIES & DELIVERY FORMS**

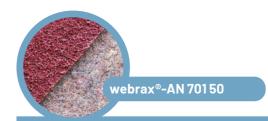
Here you will find the right tool for your process and your requirements:

Product family	Delivery form Page	Grinding machine	webrax® products
SURFACE CONDITIONING	Narrow belts 06	Robot unit, back stand, centerless grinding machine	AN 701 50, AN 701 flex, AN 702, MSG, MAG
& FINISHING BELTS	File belts 08		AN 701 flex, AN 702
	Long belts 09		MSG, MAG
	Wide belts 10		AN 702, AN 701 50, MSG, MAG, PN 721
SURFACE CONDITIONING	with special velcro backing pad		AN 701 50, AN 702
DISCS	with fastlock system 15		AN 701 50
	on fibre backing 15		AN 703 50
FINISHING DISCS	Discs on velour backing	<b>E</b>	OA 708 VEL, OA 710 VEL, OA 713 VEL, OS 709 VEL
ROUGH CLEANING	with glass fibre pad 17		MULTICLEAN
DISCS	with center hole 17		
	with fastlock system 17		
CONVOLUTE WHEELS CW	with core 18	Robot systems, back stand	CW, CW Foam
UNITIZED WHEELS UW	with shaft 19		UW Foam
WHEELSOW	with center hole 19		UW, UW Foam
	with fastlock system 19		UW
	with glass fibre pad (Typ 27)		
NON-WOVEN BRUSHES	with core 20	Robot systems, back stand, centerless & wide belt grinding machines	0A 710 LMO/LMI, 0A 713 LMO/LMI, 0S 715 LMO/LMI, 0A 710/RB 346 23 MX
HANDPADS & ROLLS	Handpads & 22 rolls		0A 708, 0A 708 flex, 0A 710, 0A 713, 0S 709, 0S 709 flex, 0S 715, GP 70602 olive, GP 70600 white
CONVERTER PRODUCTS	Rolls 25		0A 708, 0A 710, 0A 713, 0S 709, 0S 715, 0S 716, AN 702, AN 701 50



### Narrow belts

for use on robot systems, centerless and flat grinding machines as well as back stands



Stiff, robust, aggressive surface conditioning belt with cloth reinforcement		
Process	<ul> <li>Cleaning, rust removal, surface preparation</li> <li>Light deburring</li> <li>Creation of a matt finish</li> </ul>	
Material suitability	• Stainless steel • Steel	
Grain	Aluminum oxide (+ 80 to + 280), Silicon carbide (+ 800)	
Grit range	+80 (CRS) +180 (FIN) +800 (UFN) +100 (MED) +280 (VFN)	



Flexible, adaptable surface conditioning belt with cloth reinforcement			
Process	<ul> <li>Cleaning, rust removal, surface preparation</li> <li>Light deburring</li> <li>Creation of a matt finish</li> </ul>		
Material suitability	• Stainless steel	• Steel	
Grain	Aluminum oxide		
Grit range	+80 (CRS) +100 (MED)	+ 180 (FIN) + 280 (VFN)	



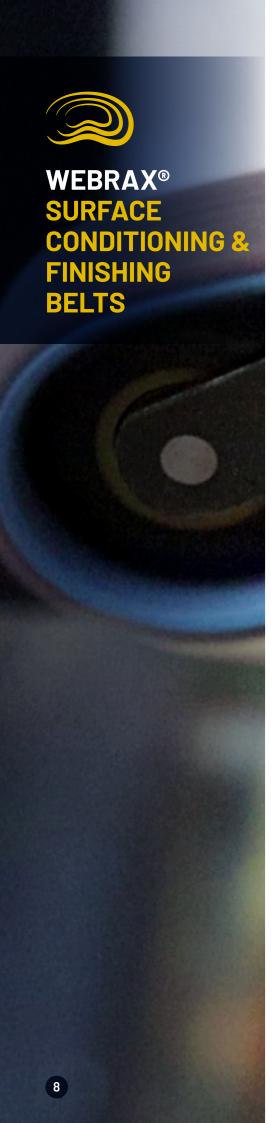


glossy surfaces			
Process	Creation of satin / brushed finish		
Material suitability	Aluminum     Stainless steel     Non ferrous metals		
Grain	Silicon carbide		
Grit range	+80 (CRS) +150 (FIN)	+ 180 (FIN) + 280 (VFN)	+ 400 (SFN) + 500 (SFN)



Very soft, flexible finishing belt laminated on cloth for creation of satin matt surfaces		
Process	Creation of satin / brushed finish	
Material suitability	Aluminum     Stainless steel     Non ferrous metals	
Grain	Aluminum oxide	
Grit range	+80(CRS) +120(MED)	





# File belts for the use with powerfiles

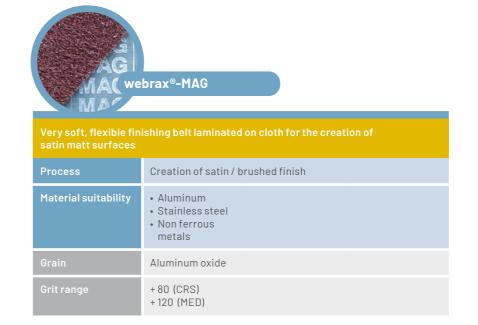




# Long belts

for the use on stroke sanders









### Wide belts

for the use on wide belt grinding machines

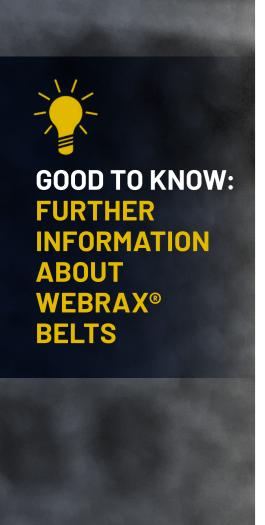




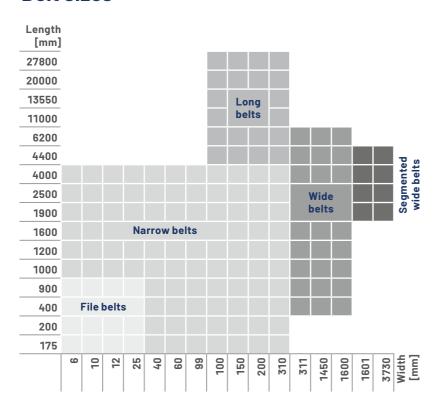




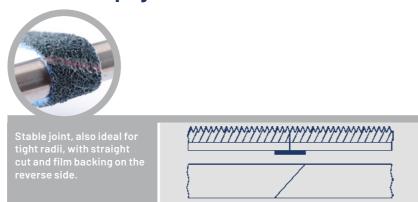




### **Belt sizes**



### webrax® tape joint



### Cleaning of transport & conveyor belts

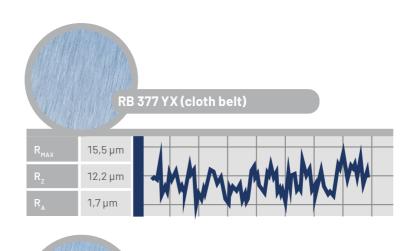


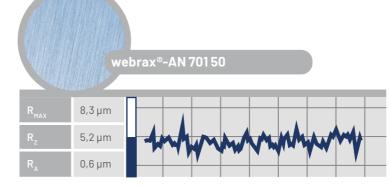
Cleaning transport and conveyor belts with webrax® non-woven belts without grain keeps your machines running efficiently for a long time, increases the performance and productivity of your sanding processes and reduces downtimes.

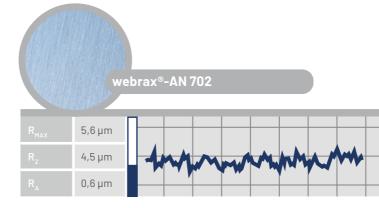
The open and durable non-woven structure absorbs cleaning products optimally and effectively removes dirt particles such as metal chips, dust and other residues.

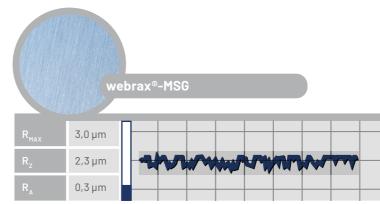
### **Comparison of roughness**

between webrax® **abrasives** & conventional grinding belts (dry grinding with grit size 180)







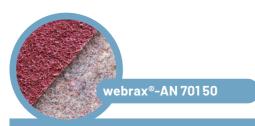






# Discs with special velcro backing pad

for the use on angle grinders



Stiff, robust, aggressive surface conditioning discs with cloth reinforcement			
Process	<ul><li>Cleaning, rust removal, surface preparation</li><li>Light deburring</li><li>Creation of a matt finish</li></ul>		
Material suitability	Stainless steel     Steel		
Grain	Aluminum oxide (+ 80 to + 280), silicon carbide (+ 800)		
Grit range	+80 (CRS) +100 (MED)	+ 180 (FIN) + 280 (VFN)	+800 (UFN)
Delivery form	With and without center hole; version with center hole enables low vibration grinding due to centering		



### Accessory: Special velcro backing pad





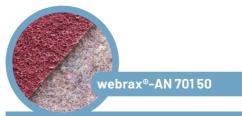
Special velcro backing pad X

with double hook velcro and M14 thread

Special velcro backing pad x with centering pin and with double hook velcro and M14 thread

### Discs with fastlock system

for the use on angle grinders



Stiff, robust, aggressive surface conditioning belt with cloth reinforcement				
Process	<ul> <li>Cleaning, rust removal, surface preparation</li> <li>Light deburring</li> <li>Creation of a matt finish</li> </ul>			
Material suitability	• Stainless steel • Steel			
Grain	Aluminum oxide (+ 80 to + 280), Silicon carbide (+ 800)			
Grit range	+80 (CRS) +180 (FIN) +800 (UFN) +280 (VFN)			

#### Accessory: Fastlock backing pad





**System R, medium or hard** with 1/4" thread and 6 mm shaft

**System S, medium** with 1/4" thread and 6 mm shaft

### Discs on vulcanized fibre

for the use on angle grinders



Stiff, robust, aggressive surface conditioning disc on vulcanized fibre			
Process	<ul><li>Cleaning, rust removal, surface preparation</li><li>Light deburring</li><li>Cleaning of weld seams</li></ul>		
Material suitability	• Stainless steel	• Steel	
Grain	Aluminum oxide		
Grit range	+80(CRS)	+ 100 (MED)	

### Accessory: Backing pad

Support pad J	
Flexible version with M14 thread	

Support pad X Stiffer version with M14 thread





### Discs on velour backing

for the use on random orbital sanders

webrax®-OA 710 VEL









### Discs with center hole, fastlock system or glass fibre backing

for the use on angle and straight grinders



#### **Versions**

for straight grinders



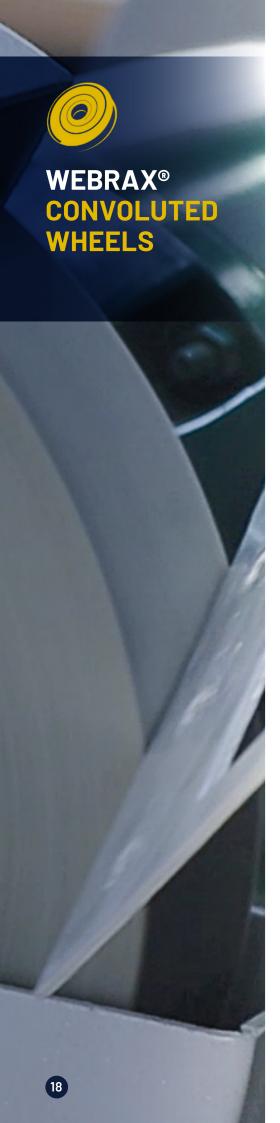


for angle grinders









### Wheel with core

for use on robot systems, centerless grinding machines and back stands



Convolute wheels with a long service life in different grades of hardness			
Process	<ul><li>Deburring</li><li>Rounding edges</li><li>Fine finishing</li></ul>		
Material suitability	Stainless steel     Steel     Aluminum	Titanium     Composites	
Grain	Aluminum oxide	Silicon carbide	
Grit range	8A-MED (+ 80)	7S-FIN (+ 180) softest wheel 8S-FIN (+ 180) 9S-FIN-X2 (+ 180) hardest wheel	



Convolute wheels reinforced with foam for high stock removal			
Process	<ul><li>Light deburring</li><li>Rounding edges</li><li>Fine finishing</li></ul>		
Material suitability	Stainless steel     Steel     Aluminum	Titanium     Composites	
Grain	Aluminum oxide (OA 710, OA 713)	Silicon carbide (OS 715, OS 716)	
Grit range	+ 80 (CRS) + 100 (MED) + 120 (MED) + 180 (FIN) + 280 (VFN)	+ 80 (CRS) + 100 (MED) + 120 (MED) + 180 (FIN) + 280 (VFN) + 500 (SFN) + 800 (UFN)	

# Wheel with shaft, center hole, fastlock system or glass fibre pad

for the use on angle and straight grinders



Unitized wheels with a long service life in differen grades of hardness			
Process	<ul><li>Cleaning and polishing weld / fillet seam</li><li>Deburring und rounding edges</li><li>Fine finishing</li></ul>		
Material suitability	• Stainless steel • Steel	• Aluminum • Composites • Titanium	
Grain	Aluminum oxide	Silicon carbide	
Grit range	8A-CRS(+80) 3A-MED(+100) 6A-MED(+100) 2A-MED(+100)	6S-FIN (+ 150) 2S-FIN (+ 150) 3S-FIN (+ 150)	

#### **Versions**



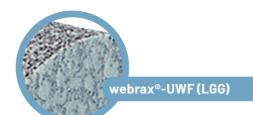




with center hole & mandrel for straight grinders

with fastlock system & backing pad for angle grinders

on glass fibre backing (Type 27) for angle grinders



Unitized wheels reinforced with foam for high stock removal								
Process	Light deburring and rounding edges     Fine finishing							
Material suitability	• Stainless st • Steel	eel	Aluminum					
Grain	Aluminum oxi (OA 710, OA 71		Silicon carbide (0S 715, 0S 716)					
Grit range	+ 80 (CRS) + 100 (MED) + 120 (MED)	+ 180 (FIN) + 280 (VFN)	+ 80 (CRS) + 100 (MED) + 120 (MED) + 180 (FIN)	+ 280 (VFN) + 500 (SFN) + 800 (UFN)				

### Versions

 with center hole & mandrel
 with shaft

 for straight grinders
 for straight grinders



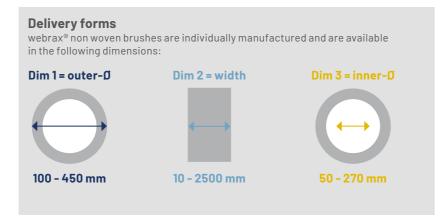


### **Brushes with core**

for the use on robot systems, back stands, centerless and wide belt machines









Stiff, dense non-woven fabric for high removal rates and homogeneous, glossy surfaces							
Process	Creation of satin / brushed finish						
Material suitability	Stainless steel     Zinc alloys	• Aluminum • Brass	other non- ferrous metals				
Grain	Silicon carbide						
Grit range	+ 100 (MED) + 120 (MED)	+ 180(FIN) + 280(VFN)	+ 500(SFN) + 800(UFN)				



Combination of non-woven and cotton-based material for maximum removal rates and homogeneous, satin matt surfaces

Process

Creation of satin / brushed finish

Material suitability

Stainless steel
Zinc alloys
Aluminum

Grain

Aluminum oxide

Grit range

+ 80 (CRS)
+ 100 (MED)

#### Versions

Depending on your surface and process requirements, our pure non-woven brushes (webrax®-0A 710, webrax®-0A 713, webrax®-0S 715) are available with and without additional active ingredient impregnation and in various densities.

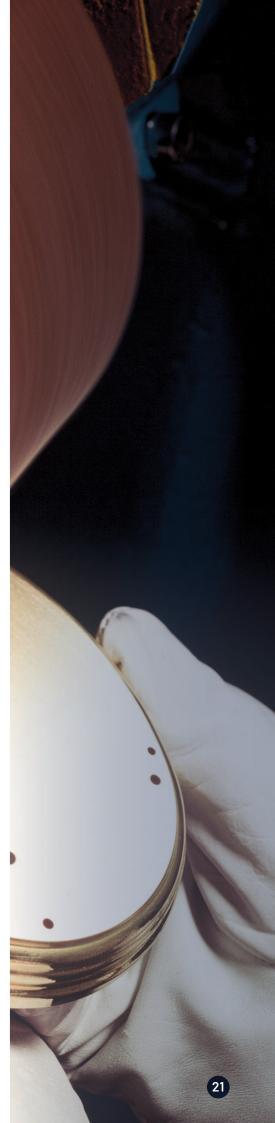
The respective design influences the flexibility and service life of the tool.

+ 120 (MED)

LM0 & density 1 LM0 & density 2 LM0 & density 3 LMI & density 3

Adaptability / flexibility Tool life

LM0: brushes with additional impregnation
LMI: brushes with additional impregnation
Density: number of flaps





## Handpads and rolls

### for manual use

The right choice for your needs							
Glossy finish due to silicone carbide grain	0S 709 flex		OS 709	OS 715			
Satin matt finish due to alox grain	OA 708 flex	GP 706 oliv	OA 708	0A 710	OA 713		
Soft & flexible Aggressive & stiff							



Process	Cleaning, preparing surfaces, roughening     Creation of a matt finish				
Material suitability	All materials				
Grain	Aluminum oxide				
Grit range	+ 120 (MED) + 180 (FIN)	+ 280 (VFN) + 360 (VFN)			
Delivery form	Handpads & rolls				



Flexible universal non-woven abrasive with aluminum oxide							
Process	<ul><li>Cleaning, preparing surfaces, roughening</li><li>Creation of a matt finish</li></ul>						
Material suitability	All materials	All materials					
Grain	Aluminum oxide						
Grit range	+ 180 (FIN)	+280 (VFN)	+360(VFN)				
Delivery form	Handpads & Rolls						



Stiff, dense non-woven material for high stock removal rates with aluminum oxide							
Process	<ul><li>Cleaning, preparing surfaces, roughening</li><li>Creation of a matt finish</li></ul>						
Material suitability	All materials	All materials					
Grain	Aluminum oxide						
Grit range	+ 60 (CRS) + 80 (CRS)						
Delivery form	Rolls						



Stiffer, highly dense non-woven fabric with increased grain and bonding for higher removal rates with aluminum oxide

Process

Cleaning, preparing surfaces, roughening
Creation of a matt finish

All materials

Grain

Aluminum oxide

Grit range

+ 100 (MED)

+ 180 (FIN)

+ 280 (VFN)

Handpads & rolls



Universal non-woven abrasive with silicon carbide							
Process	2.1 1	Cleaning, preparing surfaces, roughening Creation of a brighter finish					
Material suitability	All materials	All materials					
Grain	Silicon carbide						
Grit range	+ 180 (FIN) + 280 (VFN)	+500(SFN) +800(UFN	+ 1500 (UFN)				
Delivery form	Handpads & rolls						



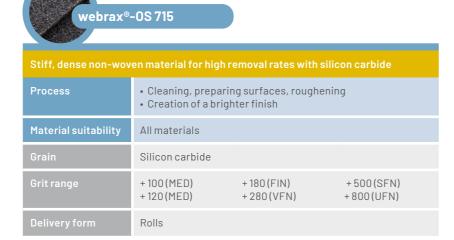
Handpads & rolls





## Handpads and rolls

for manual use





webrax®-GP 706 00 white							
Very flexible, adapta	Very flexible, adaptable fleece without grain						
Process	Cleaning sensitive surfaces without scratching						
Material suitability	All materials						
Grain	no grain						
Delivery form	Handpads						

### webrax® base material

for individual processing

	webrax®-OA 708	webrax®-OA 710	webrax®-OA 713
	Flexible non-woven material for universal use in hand sanding	Stiff, dense non-woven material for universal use in machine grinding	Very stiff, highly com- pressed non-woven material with increased grain and bonding for universal use in machine grinding
Grain	Aluminum oxide	Aluminum oxide	Aluminum oxide
Grit range	+ 120 (MED) + 180 (FIN) + 280 (VFN) + 360 VFN)	+ 60 (CRS) + 80 (CRS) + 100 (MED) + 120 (MED) + 180 (FIN) + 280 (VFN)	+ 100 (MED) + 180 (FIN) + 280 (VFN)
Width of rolls	1.450 mm	1.450 mm + 120: 1.550 mm	1.450 mm

	webrax®-0\$ 709	webrax®-0S 715	webrax®-OS 716
	Flexible non-woven material for universal use in hand sanding	Stiff, dense non-woven material for universal use in machine grinding	Very stiff, highly com- pressed non-woven material with increased grain and bonding for universal use in machine grinding
Grain	Silicon carbide	Silicon carbide	Silicon carbide
Grit range	+ 180 (FIN) + 280 (VFN) + 500 (SFN) + 800 (UFN) + 1500 (UFN)	+ 100 (MED) + 120 (MED) + 180 (FIN) + 280 (VFN) + 500 (SFN) + 800 (UFN)	+ 80 (CRS) + 100 (MED) + 120 (MED) + 180 (FIN) + 280 (VFN)
Width of rolls	1.450 mm	1.450 mm	1.450 mm

	webrax®-AN 701 50	webrax°-AN 702
	Stiff, robust, aggressive surface conditioning material with cloth reinforcement	Medium flexible, robust surface conditioning material with open non- woven structure and cloth reinforcement
Grain	Aluminum oxide	Silicon carbide
Grit range	+80 (CRS) +100 (MED) +180 (FIN) +280 (VFN) +800 (UFN)	+ 80 (CRS) + 100 (MED) + 180 (FIN) + 280 (VFN) + 320 (VFN) + 400 (SFN)
Width of rolls	1.600 mm	1.600 mm





# Grit size comparison standard & webrax® grinding tools

Standard grit size		+80	+100	+120	+ 150	+ 180	+ 240	+ 280	+ 320	+ 360	+ 400	+ 500	+800	+ 1500	No grain
webrax® grit size description / webrax® type	Product code	Coarse (CRS)	Medium (MED)		Fine (FIN)			Very fine (VFN)			Super fine (SFN)		Ultra fine (UFN)		
webrax <sup>®</sup> -MAG	70000	brown	-	brown	-	-	-	-	-	-	-	-	-	-	
webrax®-MSG	70500	black	-	-	black	black	-	black	-		black	black	-	black	
webrax®-AN 70150	70150	brown	red	-	-	red/blue	-	blue	-	-	-	-	-	grey	
webrax® -AN 701 flex	70170	brown	red	-	-	green	-	blue	-		-	-	-	-	
webrax®- AN 702	70200	brown	brown	-	-	brown	-	brown	brown	-	brown	-	-	-	
webrax®- PN 72110	72110	-	-	-	-	-	-	-	-		-	-	-	-	yellow
webrax <sup>©</sup> - AN 703 50	70350	brown	brown	-	-	-	-	-	-	-	-	-	-	-	
webrax®-OA 708	70800	-	-	brown	-	brown	-	brown	-	brown	-	-	-	-	
webrax®-OA 708 flex	70870	-	-	-	-	brown	-	brown	-	brown	-	-	-	-	
webrax®-OS 709	70900	-	-	-	-	black	-	black	-	-	-	black	black	black	
webrax® -OS 709 flex	70970	-	-	-	-	-	-	-	-	-	-	black	-	black	
webrax®-OA 710	71002	brown	brown	brown	-	brown	-	brown	-	-	-	-	-	-	
webrax®-OA 713	71300	-	brown	-	-	brown	-	brown	-	-	-	-	-	-	
webrax®-OS 715	71502	-	black	black	-	black	-	black	-	-	-	black	black	-	
webrax® -OS 716	71600	-	-	-	-	black	-	black	-	-	-	-	black	-	
	7,700														
webrax®-CW7S	74720	-	-	-	-	black	-	-	-	-	-	-	-	-	
webrax®-CW 8A	74800	brown	-	-	-	-	-	-	-	-	-	-	-	-	
webrax®-CW 8S	74820	-	-	-	-	black	-	-	-	-	-	-	-	-	
webrax®-CW 9S	74920	-	-	-	-	black	-	-	-	-	-	-	-	-	
webrax°-CW 9S	74921	-	-	-	-	black	-	-	-	-	-	-	-	-	
webrax®-UW 2A	75200	-	brown	-	-	-	-	-	-	-	-	-	-	-	
webrax®-UW 2S	75220	-	-	-	black	-	-	-	-	-	-	-	-	-	
webrax®-UW 3A	75300	-	brown	-	-	-	-	-	-	-	-	-	-	-	
webrax°-UW 3S	75320	-	-	-	black	-	-	-	-	-	-	-	-	-	
webrax®-UW 6A	75600	-	brown	-	-	-	-	-	-	-	-	-	-	-	
webrax®-UW 6S	75620	-	brown	-	black	-	-	-	-	-	-	-	-	-	
webrax®-UW 8A	75800	brown	-	-	-	-	-	-	-	-	-	-	-	-	



# Surface finish comparison between standard & webrax® grinding tools

Grit size descrip- tion for standard abrasives	Surface finish comparison with webrax®					
	surface conditioning & finishing belts	surface conditioning & finishing discs	convolute & unitizes wheels	handpads & rolls		
P 60						
P 80						
P 100						
P 120	coarse					
P 150		coarse				
P 180						
P 220	medium	medium	coarse	coarse		
P 240						
P 280	fine					
P 320		fine	medium	medium		
P 360	very fine					
P 400				fine		
P 500						
P 600		very fine	fine	very fine		
P 800						
P 1000				super fine		
P 1200		ultra fine				
P 1500				ultra fine		
P 2000		extra fine				
P 2500				extra fine		

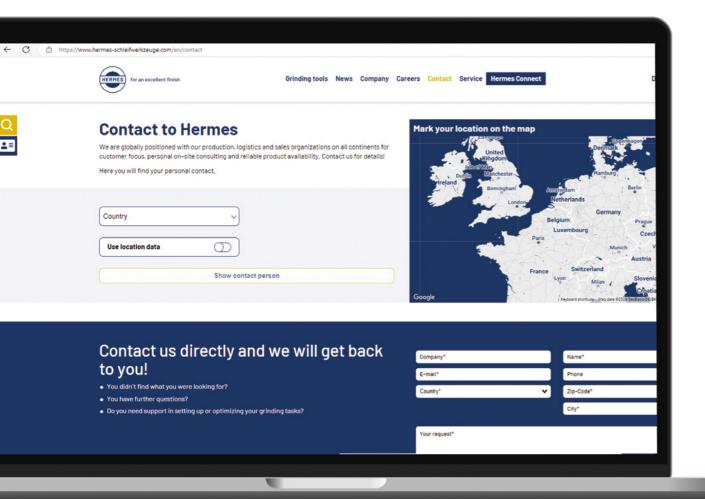
# Cutting speeds for webrax® grinding tools

	Cleaning	Decorative finish	Deburring	Polishing			
Surface conditioning, finishing & polishing belts							
Surface bonditioning belts (AN 702, AN 70150, AN 701 flex)	20-25 m/s	8-15 m/s	20-25 m/s				
Finishing belts (MAG, MSG)		8-15 m/s					
Polishing belts (PN 72110)				5-20 m/s			
Surface conditioning, finishing & cleaning discs							
Surface conditioning discs	20-25 m/s	8-15 m/s	20-25 m/s				
Finishing discs		8-15 m/s					
Rough cleaning discs	20-30 m/s			5-20 m/s			
Brushes, convolute & unitized wheels							
webrax®-LM0	5-10 m/s	8-15 m/s	-	-			
webrax®-LMI	-	-	20-30 m/s	-			
webrax®-CWF	-	8-15 m/s	20-30 m/s	-			
webrax®-CW	-	-	25-35 m/s	30-35 m/s			
webrax®-UWF	-	8-15 m/s	20-30 m/s	-			
webrax°-UW	-	-	25-35 m/s	30-35 m/s			

### **ORDERING:**

# THE FASTEST WAY TO YOUR WEBRAX® PRODUCTS

Have you already made up your mind and would you like to place your order in person? Or are you still not sure and would like to receive technical advice from our experts?

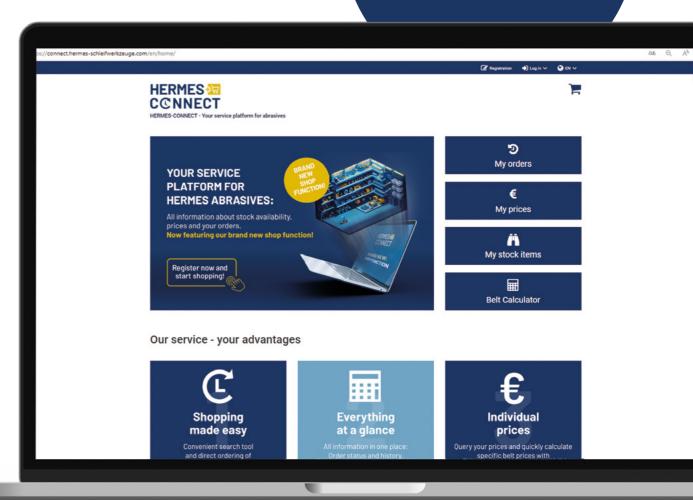


Do you know exactly which product you want and wish to order it easily online?



Most webrax® products are available from stock in the most common dimensions and can be delivered to you in just a few days.

We manufacture all other products individually for you in compliance with minimum order quantities.





Then get in touch with us personally.

You can find the contact person responsible for your order or individual advice can be found on our website in the contact section.

hermes-abrasives.com



With your personal account for our online service portal Hermes Connect, you receive all information on stock availability and prices and can also order your desired products with just a few clicks.

connect.hermes-schleifwerkzeuge.com/en/home/

# **HERMES ABRASIVES -MORE THAN GRINDING TOOLS!**





 $Whenever\,you\,need\,support:$ our experts are there for you. Whether it's choosing the right grinding tool, process optimization, product testing or training your employees. Whether at your or at our premises, by phone or email you can count on us.



# **RESPONSIBILITY**

Responsible action and sustainable management are and have always been key components of our corporate strategy.

We are continuously developing our activities in this regard, are regularly certified and are measured against our successes at all times.



Get information, order goods and track them - around the clock! Hermes Connect is your key source for all important services and information on our abrasive tools: stock availability and prices as well as a direct shop function and your personal order overviews.





#### CONTACT

Contact us at any time so that we can find the right solution for you. In the contact area on our website

hermes-abrasives.com

you can find with just a few clicks the right contact person responsible for you.



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