REGENERATING, DRESSING and POLISHING

Regenerators

Sketch	Details	Stock	Page
	HACO-FLEX: Just like an eraser Application and advantages		4-02
	HACO-FLEX and HACO-STEIN For the ideal grain protrusion in the abrasive layer	stock	4-03

Regenerators are being used to open up the surface of the abrasive layer by recessing the bond for an ideal grain protrusion. The grinding tools are thus sharpened for a cool and aggressive grind.

Dressing tools

Sketch	Details	Stock	Page
	Corundum & SiC dressing wheels for metal and resin bonds	stock	4-04
	Metal bonded diamond dressing wheels for vitrified bonds		4-05
	Multiple diamonds dressing tools Diaglo for conventional wheels with a straight profile	stock	4-06
	Multiple diamonds dressing tools Diaglo-Major for conventional wheels with a straight profile	stock	4-07
	Multiple diamonds hand dressers for conventional wheels with a straight profile	stock	4-08
	Single point diamond dressers for conventional wheels with a non-linear profile	stock	4-09

Dressing tools are being used to reshape and profile grinding tools as well as to eliminate any concentricity errors.

Polishing pastes

Sketch	Details	Stock	Page
	Diamond polishing pastes in syringes	stock	4-10

REGENERATION OF ABRASIVE LAYERS

with HACO-FLEX: just like an eraser

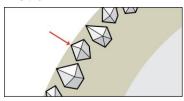
Puts the bite back into diamond and CBN grinding bonds!

With the HACO-FLEX, for resin and metal bonds you get ideal grain protrusion.

- Full grinding performance
- Cool grind
- Short grinding time
- Long tool life
- As a stick or a disc

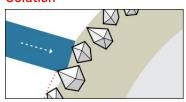


Problem



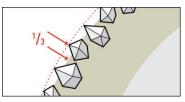
The bonding material and the abrasive grains are at the same level: The grinding tools only presses, but has not bite.

Solution



The flexible HACO-FLEX is pressed either by hand or by machine, without a coolant, into the bonding material, ideally with a reduced cutting rate. It penetrates deeply and, like an erasing rubber, it cleans out the gaps until the abrasive grains protrude by about 1/3.

Result



The abrasive grains are now positioned ideally above the bonding material. The grinding tool has got back its proper bite.

- Cleaning the surface of bonding material.
- "Resetting" the bond without damaging the diamond or CBN grains or ripping them out. The profile shape is retained.
- Haefeli grinding bonds are basically self-sharpening. Depending on the nature of the material to be ground, bonding materials can react in different ways. For materials which tend to smear over grinding coatings, thanks to HACO-FLEX, the ideal grain protrusion can be restored again.

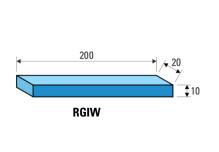


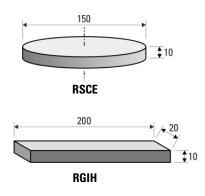
HACO-FLEX / HACO-STEIN

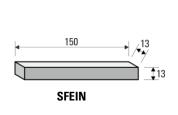
Rubber and ceramic bonded discs and sticks

Regenerators for resin and metal bonds. HACO-FLEX for standard grit sizes (D/BN 46 - 251); as a disc or a stick. HACO-STEIN for micro grit sizes (D/BN 13 - 39).

The grey rubber is more flexible while also being more abrasive than the stiffer, but less aggressive blue rubber.







Stock articles

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	Туре	Application	Dimensions	Bond	
		for the dressing of	mm		Your notes
Haco-Flex	RGIW	D/BN 46 - D/BN 251	20 x 10 x 200 stick	G7500 rubber "blue"	
	RSCE	D/DN 46 D/DN 251	ø 150 x 10 disc	G7501	
	RGIH	D/BN 46 - D/BN 251	20 x 10 x 200 stick	rubber "grey" more flexible, abrasive	
Haco-Stein	SFEIN	D/BN 13 - D/BN 39 micro grit sizes	13 x 13 x 150 stick	V5900 soft ceramic "light grey"	

Applications









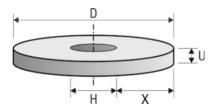


Corundum & SiC dressing wheels

for metal and resin bonds

Ceramic bonded dressing wheels which are well suited to dressing our diamond and CBN grinding tools on grinding machines or lathes. Guidelines for dressing with these dressing wheels \rightarrow 1-16. Regenerating with HACO-FLEX is highly recommended after every dressing \rightarrow 4-02.





Stock articles - standard applications

Туре	Dimensions		Bore	for grinding wheels with			Grit size		
	D	Χ	U	Н	Metal (M)	Resin (R)		Mesh size	Your notes
					D/BN ≤ 26	D/BN ≤ 33	SiC	K 320	
					D/BN 23 - 41	D/BN 26 - 54	SiC	K 280	
ASCH	ø 100	40	10	ø 20	D/BN 37 - 64	D/BN 46 - 76	SiC	K 180	
					D/BN 46 - 76	D/BN 64 - 107	Corundum	K 120	
					D/BN 64 - 126	D/BN 107 - 181	Corundum	K 60	

No other variants currently on stock. The grit sizes given for the grinding wheels to be dressed are approximations.

Stock articles - for Xing-Dressing of our pointed profile wheels 14E1D

Туре	Dimensions		Dimensions		Dimensions		Dimensions		ns	Bore	for 14E1D		Grit size	
	D X U		U	Н			Mesh size	Your notes						
ASCH	ø 95	37.5	16	ø 20	M4010 D/BN 64 R159 D/BN 126	Corundum	K 60							

No other variants currently on stock. Our 14E1D pointed profile wheels \rightarrow 2-12.

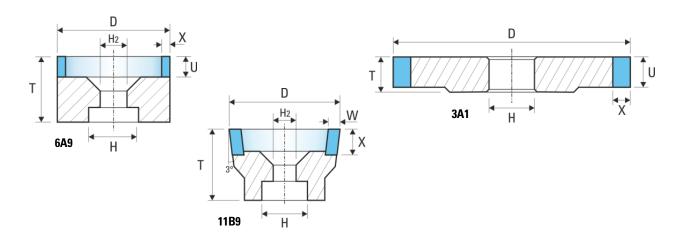


Diamond dressing wheels

for vitrified bonds

Very wear resistant metal bonded diamond wheels for dressing vitrified grinding tools with straight profiles. For conventional emery or SiC wheels as well as for vitrified diamond and CBN grinding tools (incl. our V5000 bond). Not suitable for metal, resin and resin ceramic bonds.





Examples of possible configurations

Type	Abrasive layer		yer	Bore	Height	Conc.	Bond	Grit size	
	ø D	Χ	U/W	Н	Т		Metal	Diamond	Your notes
6A9	18	0.8	5	ø 7	16.5	C 145	M4010	D 107 - 302	
11B9	16.2	3	1.8	ø 7 (H2: ø 4.3)	14.2	C 145	M4000	D 107 - 302	
3A1	50 - 200	5	5	ø 20	8	C 145	M4010	D 107 - 302	

We also manufacture metal bonded diamond dressing tools in other sizes on request.



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Multiple diamonds dressing tools

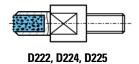
DIAGLO for conventional grinding wheels

For dressing conventional emery or SiC grinding wheels with straight profiles. Natural quality diamonds in a metal bond for maximum tool life. Diamond layer can be used right up to the end with always new diamond tips in action.





D36 & D42



Stock articles

Туре	Diamond layer	Shank	for grinding	for grinding wheels		Grit size	
	mm	mm	Diameter	Grit size	Metal	Diamond US mesh	Your notes
D36	ø 4 x 10	ø 8 x 77	≤ ø 150 mm	60 - 120	M4030	K 50	
טפט	Ø 4 X 10	length overall: 90	00	1014030	K 100		
	D42 ø 5 x 8	ø 5 x 8		46 - 80	M4030	K 30	
D42			≤ Ø 200 mm	60 - 120		K 50	
				120 - 400		K 100	
D222	ø 8 x 4		≤ 350 mm	46 - 100	M4030	K 30	
D224	ø 6 x 7	screw thread M 5.5 length overall: 30	≤ 300 mm	46 - 100	M4030	K 30	
D225	ø 5 x 7		≤ 200 mm	46 - 100	M4030	K 30	

We offer matching hand holders for Diaglo D222, D224 and D225:

Type	Sketch	Description	Your notes
DS230	-	ø 12 x 160 , knurled shank, screw thread M 5.5	

Other multiple diamonds dressing tools on stock.



Multiple diamonds dressing tools

DIAGLO-MAJOR for conventional grinding wheels

For grinding conventional emery or SiC grinding wheels with straight profiles. Natural quality diamonds in a metal bond for maximum tool life. Diamond layer can be used right up to the end with always new diamond tips in action.





DM with cylindrical shank



DM with conical shank

Stock articles

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Туре	Diamond layer	Shank	for grinding wheels		Bond	Grit size	
	mm	mm	Diameter	Grit size	Metal	Diamond H-mesh	Your notes
DM 5A	ø 5 x 7	ø 12 x 68 length overall: 77	≤ 200 mm	36 - 100	M4035	1/3	
DM 8A	ø 8 x 5	ø 12 x 68 length overall: 80 MK-1	≤ 350 mm	36 - 100	M4035	1/3	
DM 12A	ø 12 x 5	ø 12 x 68 length overall: 80 MK-1	≤ 1000 mm	36 - 100	M4035	1/3	

Other dimensions and grit sizes available on request.

Grit size 1/3 (Haefeli mesh) corresponds to grit size 16-18 (US mesh).

Remaining stock

We have a large stock with stationary multiple diamond dressers in many different shapes and forms. Just contact us directly if you are looking for dressing tools and were not be able to find anything suitable in this catalogue.

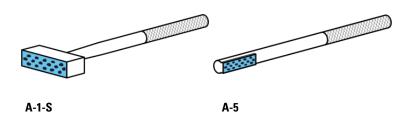




Diamond hand dressers

For dressing conventional emery and SiC grinding wheels with straight profiles on bench grinders. 16 diamonds sintered into carbide. Good value. Top quality. For workshops, sculptors, locksmiths and so on.





Stock articles

Туре	Layer	Shank	Bond	Diamonds	
	mm	mm	Metal	Quantity	Your notes
DA1S	38 x 10	11 x 185 overall length: 195	M4950	16 diamonds	
DA5	25 x 10	11 x 125 overall length: 150	M4950	16 diamonds	



dressing conventional wheels by hand

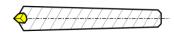


Single point diamond dressers

For dressing conventional emery and SiC grinding wheels with non-linear profiles. Standard single point dresser (DEK) with natural diamond tip for simpler profiles. Diaform (DFO) with sharpened diamond tip for very precise profiles.









DEK with cylindr. shank

DEK with MK

Stock articles

Туре	Grit size	Shank	for grinding wheels	Bond	
	Diamond (carat)	mm	Diameter	Metal	Your notes
	0.3 ct	ø 8 x 60	≤ ø 250 mm		
	0.5 61	MK 1	≤ Ø 230 IIIII	M4950	
	0.5 ct	ø 8 x 60			
DEK		ø 10 x 60	≤ ø 400 mm		
DLK		ø 12 x 60			
		MK 1			
	0.8 ct	ø 12 x 60	≥ ø 400 mm		
	0.6 Ct	MK 1			

Other dimensions and diamond sizes available on request. We also have a large stock of various single point dressers.

Examples of possible configurations

Type	Grit size	Angle	Radius	Shank	Bond	
	Diamond (carat)	V	mm	mm	Metal	Your notes
DFO (Diaform)	0.33 ct	40°	R 0.125 R 0.25	ø 9.52 x 44.5 ø 8 x 60	M4951	
		60°				

Other dimensions and diamond sizes available on request.



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POLISHING

Diamond polishing paste

In syringes with 5 grams each



Stock articles

Grit sizes	Colour	Conc.	Amount	
μm (micrometer)		С		Your notes
20 - 40	white			
20 - 30	light blue			
12 - 22	light green*			
8 - 16	orange			
6 - 12	red	0.75	F	
4 - 8	yellow	C 75	5 gr.	
2 - 4	green			
1/2 - 3	black*			
0 - 2	blue*			
0 - 1	grey			

Syringes with 20 grams available on request.

^{*} Available from stock as long as stock lasts. Thereafter available on demand as a special execution.

