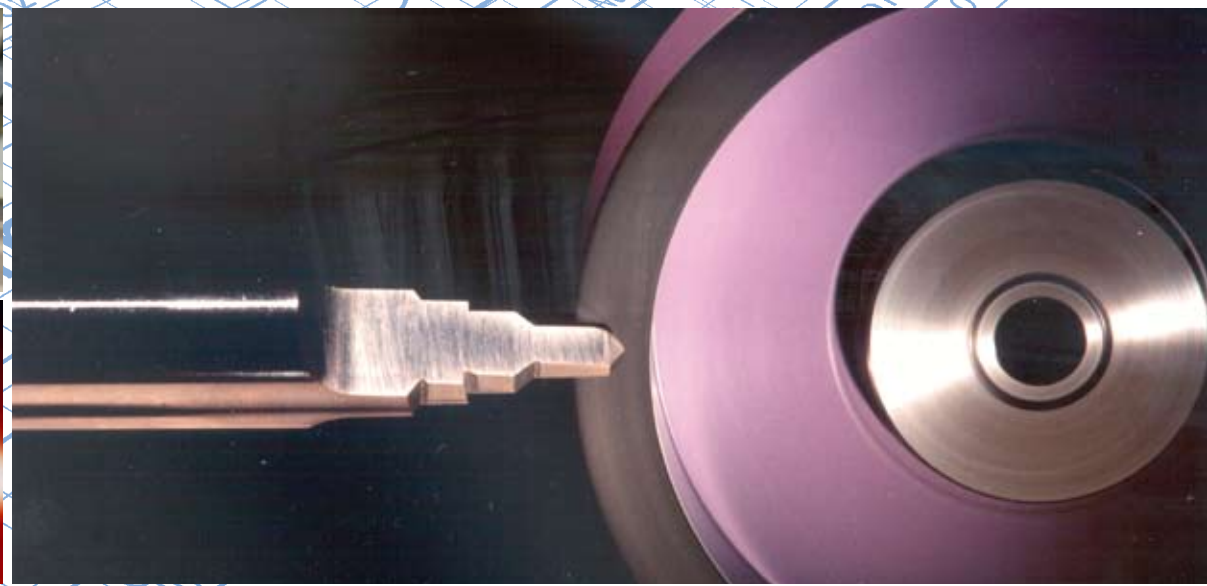
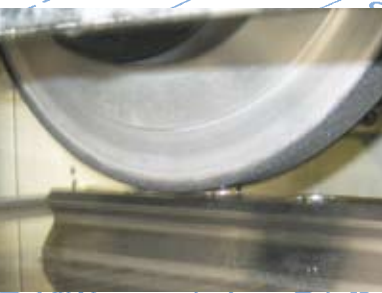
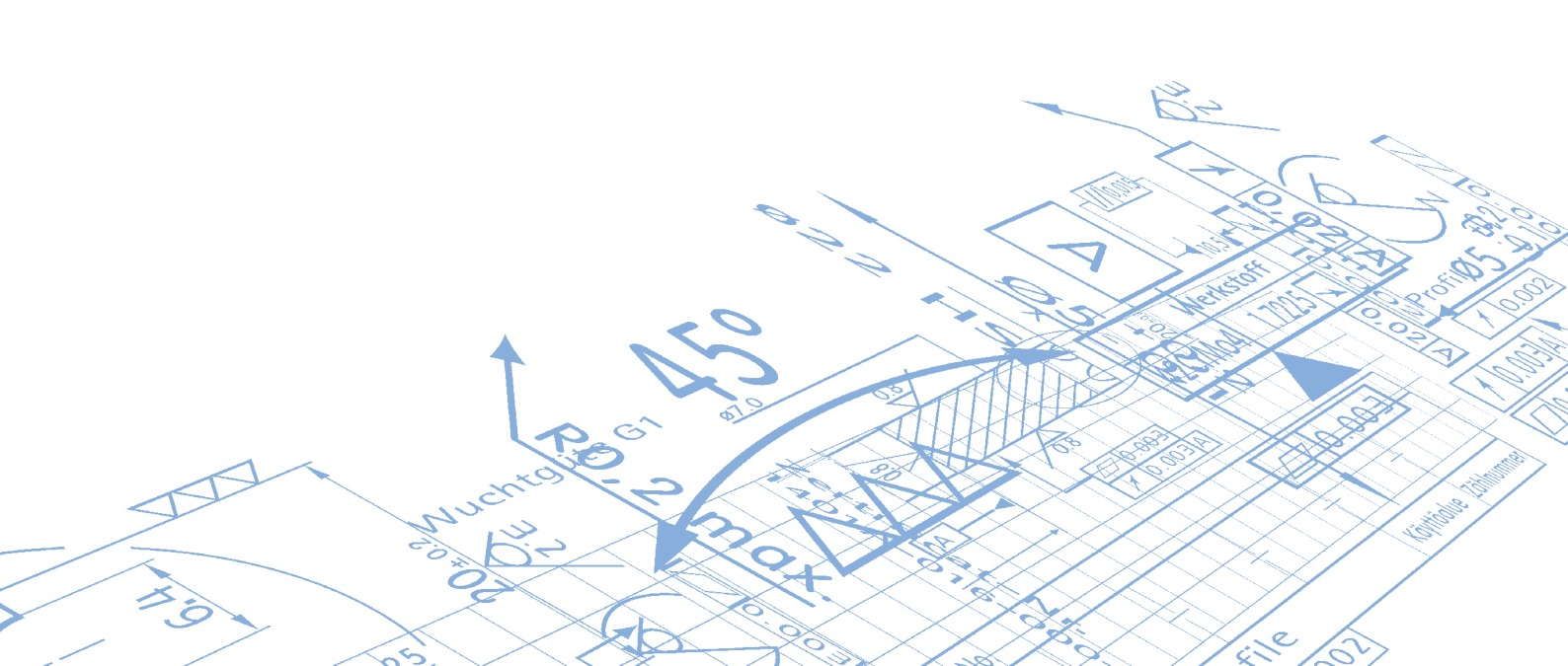


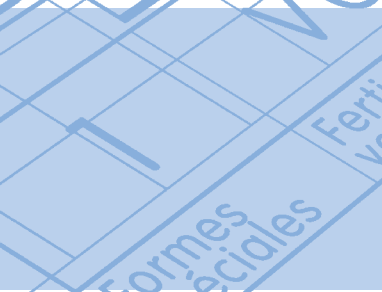
# WINTER

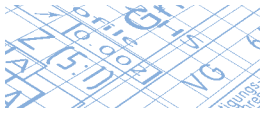
Precision Grinding Solutions



Super Standard Programme  
for the Toolmaking Industry

Stock programme





# Contents, by grinding wheel shapes

## Note

The present catalogue programme contains all standard WINTER diamond and CBN grinding wheels for tool manufacture and tool grinding.

Selection and use of the appropriate grinding wheels is dependent on the specific application and the machine manufacturer's instructions.

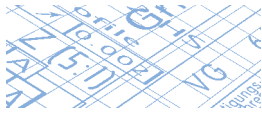
Notes on application are given at the bottom of the table section for each wheel shape.

WINTER diamond and CBN wheels are available ex stock at short notice.

If you require grinding wheels with dimensions different from those included in this catalogue, or if any further questions occur, please contact us.

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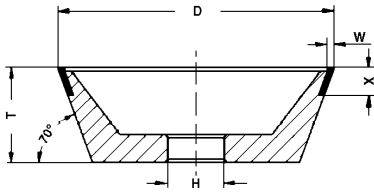




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Grinding wheel  
shape according  
to FEPA **11V9**



## WINTER

### Diamond grinding wheels

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks		
K 11V9	- 75 - 2 - 10 - 20	D15C	K-plus 888R	C50 H	66260111375	T=30		
		D46	K-plus 888R	C75 D	66260128403			
		D64	K-plus 888R	C75 D	60157644128			
		D91	K-plus 888R	C75 D	66260136470			
		D126	K-plus 888R	C75 D	66260135883			
K 11V9	- 100 - 2 - 10 - 20	D15A	K-plus 777R	C75 H	66260110921	T=35		
		D46	K-plus 1414N	C75 D	66260114079		*)	
		D64	K-plus 888R	C75 D	60157642864	*)		
		D91	K-plus 888R	C75 D	60157642783			
		D126	K-plus 1414J	C75 D	66260100363			
		D126	K-plus 1414N	C75 D	60157643573			
		K 11V9	- 100 - 3 - 10 - 20	D126	K-plus 888R	C75 D	66260137065	*) T=35
				D151	K-plus 1410	C75 D	66260129623	
D46	K-plus 1414N			C75 D	60157643080			
D64	K-plus 888R			C75 D	60157643467			
D91	K-plus 888R			C75 D	66260134899			
K 11V9	- 100 - 3 - 10 - 20	D126	K-plus 1414N	C75 D	66260134959	*)		
		D126	K-plus 888R	C75 D	60157642950			
		D151	K-plus 1410	C75 D	66260355670			

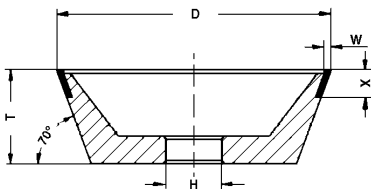
#### Application

For grinding single- and multi-edge solid carbide and carbide-tipped tools, for example 1<sup>st</sup> and 2<sup>nd</sup> relief angle and faces (straight and helical)

Suitable for use on all universal tool grinding machines, in dry and wet grinding. Also for engraving tool grinding machines (see also page 12).

\*) K-plus 1414J and K-plus 1414N are especially suited if grinding also includes proportions of shank material and brazing material (cool grinding).

Grinding wheel  
shape according  
to FEPA **11V9**



## WINTER

### CBN grinding wheels

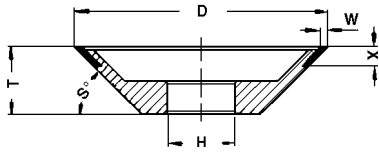
Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks	
K 11V9	- 75 - 2 - 10 - 20	B126	KSS 10N	V180 D	60157643665	T=30	
		B181	KSS 007N	V180 D	66260136571		*)
K 11V9	- 75 - 3 - 10 - 20	B126	KSS 10N	V180 D	60157643113	T=30	
K 11V9	- 100 - 2 - 10 - 20	B91	KSS 12N	V180 D	66260128013	T=35	
		B126	KSS 10N	V180 D	60157643300		
		B126	KSS 007N	V180 D	60157643642		*)
		B151	KSS 1065V-63	V180 H	66260355615		
		B181	KSS 007N	V180 D	66260135739		
		B181	KSS 007N-63	V180 D	60157642872		
		K 11V9	- 100 - 3 - 10 - 20	B126	KSS 10N		V180 D
K 11V9	- 125 - 2 - 10 - 20	B181	KSS 007N D	V180 D	66260135770	*) T=40	

#### Application

For grinding single- and multi-edge HSS tools, for example 1<sup>st</sup> and 2<sup>nd</sup> relief angle and faces (straight and helical). Suitable for use on all universal tool grinding machines, in dry and wet grinding.

\*) KSS 007N for high material removal rate at  $v_c > 30$  m/s  
Infeed  $a_p = 0.05 \dots 0.15$  mm

Grinding wheel  
shape according  
to FEPA **12V9**



**WINTER**

**Diamond grinding wheels**

Shape	D	W	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
<b>2K 12V9</b>	75	2	10	20	D15C	K-plus 777N	C75 H	66260116643	T=25
					D46	K-plus 888R	C75 D	66260111062	S°=45°
					D64	K-plus 888R	C75 D	60157642957	
					D91	K-plus 888R	C75 D	66260132226	
<b>5K 12V9</b>	100	2	10	20	D46	K-plus 888R	C75 D	66260118421	T=25
					D64	K-plus 888R	C75 D	66260136069	S°=45°
					D91	K-plus 888R	C75 D	66260130027	
					D126	K-plus 888R	C75 D	60157643198	
<b>3K 12V9</b>	100	3	6	20	D91	K-plus 888R	C75 A	66260107650	T=20 *) S°=30°

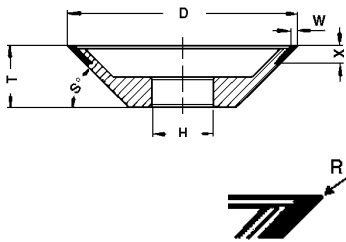
**Application**

For grinding single- and multi-edge solid carbide and carbide-tipped tools, e.g. relief, and for thinning (straight and helical).

Suitable for use on all universal tool grinding machines, in dry and wet grinding.

\*) Suitable for close-pitch tools.

Grinding wheel  
shape according  
to FEPA **12V9**



**WINTER**

**CBN grinding wheels**

Shape	D	W	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
<b>7K 12V9</b>	50	2	6	20	B126	KSS 10N	V180 D	66260136491	T=16 S=45°
<b>2K 12V9</b>	75	2	10	20	B126	KSS 10N	V180 D	66260136065	S=45° S=45°
<b>3K 12V9</b>	75	3	6	20	B181	KSS 007N	V180 D	60157643923	T=20*) S=45° R=1
<b>6K 12V9</b>	75	3	6	20	B181	KSS 007N	V180 H	60157643495	T=20*) S=35° R=1
<b>K 12V9</b>	100	2	6	20	B126	KSS 10N	V180 D	60157643398	T=35 S=45°
<b>5K 12V9</b>	100	2	10	20	B126	KSS 10N	V180 D	60157643440	T=25 S=45°
<b>6K 12V9</b>	100	3	6	20	B181	KSS 007N	V180 D	60157643800	T=20 *) S=45° R=1
<b>7K 12V9</b>	100	3	6	20	B181	KSS 007N	V180 A	60157643335	T=20 *) S=35° R=1
<b>1K 12V9</b>	100	3	15	20	B151	KSS 007N-77	V180 H	60157642915	T=22 *) S=45°
<b>3K 12V9</b>	125	3	6	20	B181	KSS 007N	V180 D	60157643131	T=25 *) S=45° R=1
<b>K 12V9</b>	125	3	10	20	B151	KSS 007N-77	V180 D	66260112846	T=40 *) S=45°

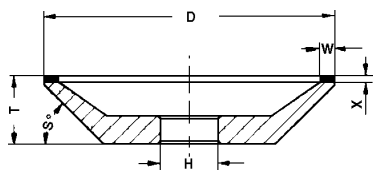
**Application**

For grinding single- and multi-edge HSS tools, for example relief, and for thinning (straight and helical).

Suitable for use on all universal tool grinding machines, in dry and wet grinding.

\*) KSS 007N for high material removal rate at  $v_c > 30$  m/s  
Infeed  $a_e = 0.05 \dots 0.15$  mm

Grinding wheel  
shape according  
to FEPA **12A2**



## WINTER

### Diamond grinding wheels

Shape	- D	- W	- X	- S°	- H	Grit size	Bond	Concentration	ORDER No.	Remarks	
1K 12A2	- 75	- 3	- 4	- 45	- 20	D7	K-plus 730	C50 B	60157643560	T=24	
						D15B	K-plus 777J	C50 B	66260135928		
						D46	K-plus 888J	C75 D	60157643552		
						D64	K-plus 888J	C75 B	66260136270		
						D91	K-plus 888R	C75 H	60157642779		*)
						D126	K-plus 888R	C75 A	66260136273		
K 12A2	- 100	- 5	- 2	- 45	- 20	D46	K-plus 888N	C50 H	60157643097	T=25	
						D91	K-plus 888R	C50 H	60157643285		
K 12A2	- 100	- 6	- 4	- 45	- 20	D64	K-plus 888R	C50 H	60157642582	T=25	
						D126	K-plus 888R	C75 D	60157642588		
K 12A2	- 100	- 8	- 4	- 45	- 20	D126	K-plus 888R	C50 H	60157667189		
K 12A2	- 100	- 10	- 2	- 45	- 20	D64	K-plus 888J	C50 H	66260136330	T=25	
						D126	K-plus 888J	C50 H	60157642866		
K 12A2	- 100	- 10	- 4	- 45	- 20	D126	K-plus 888N	C75 H	66260135975	T=27	
K 12A2	- 125	- 6	- 2	- 45	- 20	D46	K-plus 888R	C50 H	60157642628	T=25	
						D91	K-plus 888R	C50 H	66260136340		
						D126	K-plus 888R	C50 H	66260129825		*)
K 12A2	- 125	- 12,5	- 2	- 45	- 20	D64	K-plus 888J	C50 H	60157642835	T=25	
						D91	K-plus 888J	C50 H	60157642684		
						D126	K-plus 888J	C50 H	60157642792		
K 12A2	- 125	- 10	- 2	- 45	- 20	D64	K-plus 888J	C75 H	66260113330		
						D91	K-plus 888J	C50 H	60157642876		
K 12A2	- 150	- 10	- 2	- 45	- 50	D64	K-plus 888J	C50 H	66260113757		
K 12A2	- 150	- 15	- 2	- 45	- 20	D91	K-plus 777N	C50 H	66260136459	T=25	

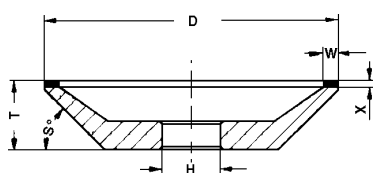
**Application**

For grinding single- and multi-edge solid carbide and carbide-tipped tools, for example reamers, engraving tools, turning tools.

Suitable for use on all universal tool grinding machines, in dry and wet grinding.

\*) Delivery within 4-5 weeks

Grinding wheel  
shape according  
to FEPA **12A2**



## WINTER

### CBN grinding wheels

Shape	- D	- W	- X	- S°	- H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 12A2	- 75	- 3	- 4	- 45	- 20	B46	KSS 10N	V180 H	60157643055	T=24
						B91	KSS 10N	V180 H	66260135831	
K 12A2	- 100	- 5	- 2	- 20	- 20	B126	KSS 10J	V120 H	66260136215	T=12
K 12A2	- 100	- 5	- 2	- 45	- 20	B126	KSS 10J	V120 H	60157643373	T=25
K 12A2	- 150	- 5	- 2	- 20	- 20	B126	KSS 10J	V120 H	66260134924	T=18
K 12A2	- 175	- 5	- 2	- 20	- 20	B126	KSS 10J	V120 H	60157643523	T=20
K 12A2	- 175	- 5	- 4	- 20	- 20	B126	KSS 10J	V120 H	66260128803	T=22
K 12A2	- 200	- 5	- 4	- 20	- 20	B126	KSS 10J	V120 H	66260127109	T=24

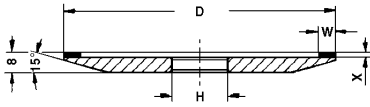
**Application**

For grinding single- and multi-edge HSS tools, especially relief.

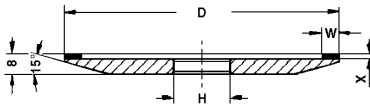
Suitable for use on all universal tool grinding machines, in dry and wet grinding.



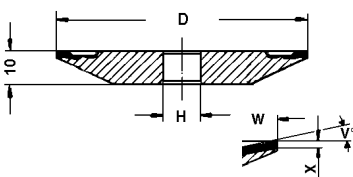
Grinding wheel shape according to FEPA **4A2**



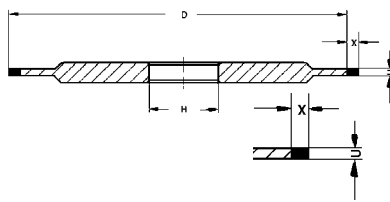
Grinding wheel shape according to FEPA **4A2**



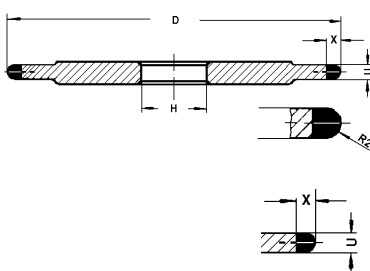
Grinding wheel shape according to FEPA **4V4**



Grinding wheel shape according to FEPA **14A1**



Grinding wheel shape according to FEPA **14F1**



## WINTER

### Diamond grinding wheels

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 4A2	- 100 - 6 - 2 - 20	D64 D91	K-plus 888N K-plus 888N	C50 H C50 H	66260137071 66260136265	*) *)

**Application**

For grinding single- and multi-edge solid carbide and carbide-tipped tools, for example reamers, engraving tools, turning tools. Especially for restricted chip space.

Suitable for use on all universal tool grinding machines, in dry and wet grinding.

## WINTER

### CBN grinding wheels

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 4A2	- 100 - 4 - 2 - 20	B107	KSS 10N	V120 H	60157642646	
K 4A2	- 125 - 4 - 2 - 20	B107	KSS 10N	V120 H	60157642812	
3K 4A2	- 150 - 3 - 2 - 20	B151	KSS RY	V240 A	66260134960	
K 4A2	- 150 - 4 - 2 - 20	B107	KSS 10N	V120 H	60157642791	

**Application**

For grinding single- and multi-edge HSS tools, for example relief and flank grinding. Especially for restricted chip space.

Suitable for use on all universal tool grinding machines, in dry and wet grinding.

## WINTER

### CBN grinding wheels

Shape	- D - W - X - V° - H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 4V4	- 100 - 6 - 1 - 10 - 20	B151	KSS TY	V180 A	66260135829	

**Application**

For grinding relief of straight, close-fluted HSS milling cutters.

## WINTER

### Diamond grinding wheels

Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 14A1	- 75 - 2 - 6 - 20	D64	K-plus 888R	C75 A	66260136218	
K 14A1	- 100 - 2 - 5 - 20	D76 D126	K-plus 1414N K-plus 888R	C75 A C75 A	60157642932 66260113077	

**Application**

For use on universal tool grinding machines.  
For thinning tips of solid carbide drills.

## WINTER

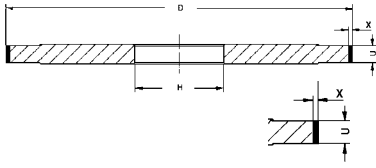
### Diamond grinding wheels

Shape	- D - U - X - R - H	Grit size	Bond	Concentration	ORDER No.	Remarks
K14F1	- 100 - 4 - 5 - 2 - 20	D107	K-plus 888R	C100 H	66260136216	

**Application**

For profile grinding of solid carbide tools.

Grinding wheel  
shape according  
to FEPA **1A1**



# WINTER

## Diamond grinding wheels

Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 1A1	- 200 - 10 - 5 - 51	D20B	Maxi 777J	C50 B	66260119254	
		D64	Maxi 280	C75 A	66260119608	
		D91	Maxi 888NY	C75 B	66260119259	
		D91	Maxi 280	C75 A	66260119610	
		D126	Maxi 888NY	C75 B	66260119262	
K 1A1	- 200 - 15 - 5 - 51	D126	Maxi 280	C75 A	66260119612	
		D64	Maxi 280	C75 A	66260119613	
K 1A1	- 200 - 20 - 5 - 51	D126	Maxi 888NY	C75 B	66260119266	
K 1A1	- 225 - 10 - 5 - 51	D126	Maxi 280	C75 A	66260119621	
		D91	Maxi 280	C75 H	66260119623	
K 1A1	- 225 - 15 - 5 - 51	D91	Maxi 888NY	C75 B	66260119268	
		D126	Maxi 280	C75 H	66260119624	
K 1A1	- 250 - 10 - 5 - 51	D126	Maxi 888NY	C75 B	66260119327	
		D126	Maxi 280	C75 H	66260119328	
K 1A1	- 250 - 10 - 5 - 76	D126	Maxi 888NY	C75 B	66260119329	
K 1A1	- 250 - 10 - 5 - 51	D126	Maxi 280	C75 H	66260119626	
K 1A1	- 250 - 10 - 5 - 51	D91	Maxi 280	C75 H	66260119627	
K 1A1	- 250 - 10 - 5 - 76	D46	Maxi 888NY	C75 B	66260119330	
K 1A1	- 250 - 12 - 5 - 76	D46	Maxi 888NY	C75 B	66260119333	
K 1A1	- 250 - 15 - 5 - 51	D91	Maxi 280	C75 H	66260119641	
K 1A1	- 250 - 15 - 5 - 51	D126	Maxi 280	C75 H	66260119642	
K 1A1	- 250 - 15 - 5 - 51	D46	Maxi 888NY	C75 B	66260119334	
K 1A1	- 250 - 15 - 5 - 51	D91	Maxi 888NY	C75 B	66260119335	
K 1A1	- 250 - 15 - 5 - 51	D126	Maxi 888NY	C75 B	66260119336	
K 1A1	- 250 - 15 - 5 - 76	D126	Maxi 888NY	C75 B	66260119337	
K 1A1	- 250 - 20 - 5 - 76	D126	Maxi 1313RY	C75 B	66260119339	
		D126	Maxi 280	C75 H	66260119643	
K 1A1	- 300 - 10 - 5 - 127	D126	Maxi 8837	C75 B	66260119221	
		D91	Maxi 8837	C75 B	66260119219	
1K 1A1	- 300 - 10 - 5 - 127	D151	Maxi 1414R	C100 B	66260119218	
K 1A1	- 300 - 10 - 5 - 127	D126	Maxi 1313RY	C75 B	66260119213	
		D126	Maxi 125	C75 H	66260119644	
		D91	Maxi 125	C75 H	66260119645	
K 1A1	- 300 - 15 - 5 - 127	D126	Maxi 8837	C75 B	66260119210	
		D91	Maxi 8837	C75 B	66260119208	
		D126	Maxi 125	C75 H	66260119647	
		D91	Maxi 125	C75 H	66260119648	
		D126	Maxi 1313RY	C75 B	66260119206	
K 1A1	- 300 - 20 - 5 - 127	D126	Maxi 8837	C75 B	66260119204	
		D91	Maxi 8837	C75 B	66260119202	
		D126	Maxi 1313RY	C75 B	66260119200	
		D126	Maxi 125	C75 H	66260119651	
K 1A1	- 300 - 25 - 5 - 127	D91	Maxi 8837	C75 B	66260119193	
		D126	Maxi 8837	C75 B	66260119190	
K 1A1	- 300 - 30 - 5 - 127	D126	Maxi 8837	C75 B	66260119189	
		D126	Maxi 125	C75 H	66260119652	
K 1A1	- 350 - 10 - 5 - 127	D126	Maxi 8837	C75 B	66260119187	
K 1A1	- 350 - 20 - 5 - 127	D126	Maxi 8837	C75 B	66260119185	
		D126	Maxi 125	C75 H	66260119653	
K 1A1	- 350 - 30 - 5 - 127	D126	Maxi 8837	C75 B	66260119184	
		D126	Maxi 1313RY	C75 B	66260119231	
K 1A1	- 400 - 10 - 5 - 127	D126	Maxi 8837	C75 B	66260119229	
		D20A	Maxi 777N	C50 B	66260119180	
K 1A1	- 400 - 20 - 5 - 127	D126	Maxi 8837	C75 B	66260119177	
		D126	Maxi 1313RY	C75 B	66260119174	
		D126	Maxi 125	C75 H	66260119654	
K 1A1	- 400 - 30 - 5 - 127	D126	Maxi 8837	C75 B	66260119431	
K 1A1	- 450 - 20 - 5 - 203	D126	Maxi 1313RY	C75 B	66260119511	
K 1A1	- 500 - 20 - 5 - 203	D126	Maxi 8837	C75 B	66260119514	
K 1A1	- 500 - 30 - 5 - 203	D126	Maxi 1313RY	C75 B	66260119518	
		D126	Maxi 8837	C75 B	66260119523	
K 1A1	- 600 - 30 - 5 - 305	D126	Maxi 8837	C75 B	66260119524	
K 1A1	- 750 - 20 - 5 - 305	D126	Maxi 1313RY	C75 A	66260119529	*)
K 1A1	- 800 - 30 - 5 - 305	D126	Maxi 8837	C75 A	66260119531	*)

\*) Delivery within 4-5 weeks



Grinding wheel  
shape according  
to FEPA **1A1**



## WINTER CBN grinding wheels

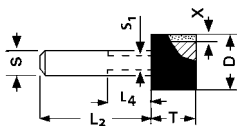
Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 1A1	- 200 - 10 - 5 - 51	B126	Maxi 10N	V120 B	66260119532	
		B91	Maxi 191	V180 A	66260119656	
		B126	Maxi 191	V180 A	66260119658	
		B64	Maxi RY	V120 B	66260119533	
K 1A1	- 200 - 15 - 5 - 51	B107	Maxi 10N	V120 B	66260119536	
		B91	Maxi 191	V180 A	66260119660	
		B126	Maxi 191	V180 A	66260119661	
K 1A1	- 225 - 10 - 5 - 51	B126	Maxi 10N	V120 B	66260119537	
		B91	Maxi 191	V180 H	66260119743	
		B126	Maxi 191	V180 H	66260119747	
K 1A1	- 225 - 12 - 5 - 51	B126	Maxi 10N	V120 B	66260119539	
K 1A1	- 225 - 15 - 5 - 51	B126	Maxi 10N	V120 B	66260119543	
		B91	Maxi 191	V180 H	66260119748	
		B126	Maxi 191	V180 H	66260119750	
K 1A1	- 250 - 10 - 5 - 51	B91	Maxi 191	V180 H	66260119751	
		B126	Maxi 191	V180 H	66260119752	
K 1A1	- 250 - 15 - 5 - 51	B91	Maxi RY	V150 B	66260119547	
		B126	Maxi 10N	V120 B	66260119391	
		B91	Maxi 191	V180 H	66260119753	
		B126	Maxi 191	V180 H	66260119756	
K 1A1	- 250 - 20 - 5 - 76	B126	Maxi NY	V180 B	66260119392	
K 1A1	- 250 - 20 - 5 - 51	B126	Maxi 10N	V120 B	66260119393	
		B91	Maxi 191	V180 H	66260119757	
		B126	Maxi 191	V180 H	66260119768	
		B126	Maxi 67	V120 B	66260119390	
K 1A1	- 300 - 15 - 5 - 76	B126	Maxi 67	V120 B	66260119386	
K 1A1	- 300 - 15 - 5 - 127	B91	Maxi 191	V180 H	66260119769	
		B126	Maxi 191	V180 H	66260119776	
		B126	Maxi 67	V120 B	66260119382	
K 1A1	- 300 - 20 - 5 - 76,2	B126	Maxi 67	V120 B	66260119384	
K 1A1	- 300 - 20 - 5 - 127	B91	Maxi 191	V180 H	66260119778	
		B126	Maxi 191	V180 H	66260119780	
		B126	Maxi 67	V120 B	66260119366	
K 1A1	- 300 - 30 - 5 - 127	B126	Maxi 67	V120 B	66260119367	
K 1A1	- 350 - 20 - 5 - 127	B126	Maxi 67	V120 B	66260119370	
		B126	Maxi 191	V180 H	66260119781	
K 1A1	- 350 - 30 - 5 - 127	B126	Maxi 67	V120 B	66260119376	
		B126	Maxi 191	V180 H	66260119783	
K 1A1	- 400 - 15 - 5 - 127	B126	Maxi 191	V180 H	66260119785	
		B126	Maxi 67	V120 B	66260119374	
		B126	Maxi 191	V180 H	66260119786	
K 1A1	- 400 - 20 - 5 - 127	B126	Maxi 67	V180 B	66260119376	
		B126	Maxi 67	V120 B	66260119380	
		B126	Maxi 67	V180 B	66260119381	
K 1A1	- 400 - 30 - 5 - 127	B126	Maxi 191	V180 H	66260119789	
		B126	Maxi 67	V120 B	66260119405	
		B126	Maxi 67	V120 B	66260119409	
K 1A1	- 500 - 20 - 5 - 203	B126	Maxi 67	V120 B	66260119417	
K 1A1	- 500 - 30 - 5 - 203	B126	Maxi 67	V120 B	66260119421	
K 1A1	- 600 - 30 - 5 - 305	B126	Maxi 67	V120 B	66260119425	*)
K 1A1	- 750 - 20 - 5 - 305	B126	Maxi 67	V120 A	66260119426	*)
K 1A1	- 800 - 30 - 5 - 305	B126	Maxi 67	V120 A	66260119426	*)

### Application

For grinding on surface and cylindrical grinding machines; preferably wet grinding  
Recommended concentrations For surface grinding: V120  
For cylindrical grinding: V180

\*) Delivery within 4-5 weeks

## Grinding pins S1A1W



## WINTER

### Diamond grinding pins

Shape	- D - T - S - L <sub>2</sub>	Grit size	Bond	Concentration	ORDER No.	Remarks
S1A1W	- 6 - 7 - 6 - 75	D91	G820	S33	60157643963	
S1A1W	- 8 - 10 - 6 - 75	D181	G820	S33	66260372634	
S1A1W	- 10 - 10 - 6 - 75	D91	G820	S33	66260110242	
S1A1W	- 12 - 10 - 6 - 75	D181	G820	S33	66260110167	
S1A1W	- 10 - 10 - 6 - 75	D91	G820	S33	60157644175	
S1A1W	- 12 - 10 - 6 - 75	D181	G820	S33	60157644083	
S1A1W	- 10 - 10 - 6 - 75	D91	G820	S33	60157643803	
S1A1W	- 12 - 10 - 6 - 75	D181	G820	S33	60157644091	

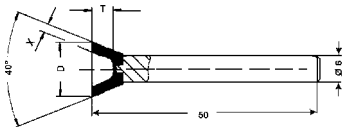
**Application**  
For jig grinding machines.

### CBN grinding pins

Shape	- D - T - S - L <sub>2</sub>	Grit size	Bond	Concentration	ORDER No.	Remarks
S1A1W	- 5,5 - 7 - 5 - 100	B126	G825	S33	66260116631	
S1A1W	- 6 - 7 - 6 - 75	B126	G825	S33	60157643703	
S1A1W	- 6 - 7 - 6 - 68	B252	G825	S33	66260100064	
S1A1W	- 6,5 - 8 - 6 - 92	B126	G825	S33	66260112646	
S1A1W	- 8 - 10 - 6 - 75	B126	G825	S33	60157643605	
S1A1W	- 8 - 10 - 6 - 80	B252	G825	S33	60157643793	
S1A1W	- 8,5 - 10 - 8 - 90	B126	G825	S33	66260112685	
S1A1W	- 10 - 10 - 6 - 75	B126	G825	S33	60157644046	
1S1A1W	- 10,5 - 12 - 10 - 88	B126	G825	S33	66260115340	
1S1A1W	- 12 - 12 - 10 - 88	B126	G825	S33	66260113275	

**Application**  
For jig grinding machines.

## Grinding wheel 07B (no FEPA Standard)



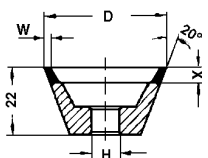
## WINTER

### CBN grinding pins

Shape	- D - T - X - V°	Grit size	Bond	Concentration	ORDER No.	Remarks
2K 07B	- 10 - 5 - 2 - 40	B126	KSS 10N	V240	60157643794	
1K 07B	- 12 - 5 - 2 - 40	B126	KSS 10N	V240	66260107661	
1K 07B	- 15 - 5 - 2 - 40	B126	KSS 10N	V240	60157644044	

**Application**  
For grinding end and contact surfaces; for example on jig grinding machines, e.g. for blind holes.

## Grinding wheel shape according to FEPA 11V2



## WINTER

### CBN grinding wheels

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
2K 11V2	- 20 - 2 - 5 - 8	B126	KSS 12N	V180 H	60157643026	
K 11V2	- 30 - 2 - 5 - 8	B126	KSS 12N	V180 H	66260136462	
K 11V2	- 40 - 2 - 5 - 10	B126	KSS 10N	V180 H	66260134764	

**Application**  
For grinding end and contact surfaces; for example on jig grinding machines, e.g. for blind holes.

## WINTER

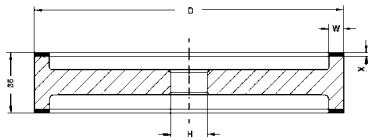
### Diamond grinding wheels

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
2K 11V2	- 40 - 2 - 5 - 10	D64	K-plus 888R	C75	60157642670	

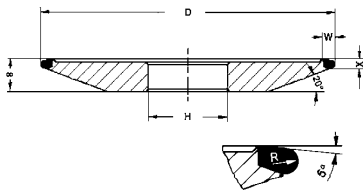
**Application**  
For grinding end and contact surfaces; for example on jig grinding machines, e.g. for blind holes.



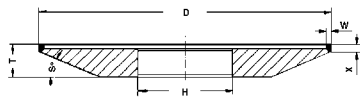
Grinding wheel  
shape according  
to FEPA **9A3**



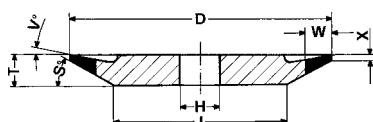
Grinding wheel  
**700** (no FEPA Standard)



Grinding wheel  
**222** (no FEPA Standard)



Grinding wheel  
shape according  
to FEPA **4BT9**



## WINTER

### Diamond grinding wheels

Shape	D	W	X	T	H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 9A3	175	5	2	30	20	D64 D126	K-plus 888N K-plus 888N	C50 A C75 A	66260112486 66260116615	*)
K 9A3	175	6	2	35	20	D15B	K-plus 777J	C31 A	66260136274	
K 9A3	175	8	2	35	20	D46 D64	K-plus 888NY K-plus 888NY	C31 A C31 A	66260136275 66260134834	

**Application**  
For grinding carbide-tipped turning tools.

\*) Delivery within 4-5 weeks

## WINTER

### Diamond grinding wheels

Shape	D	U	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 700	75	2.2	3	20	D126	K-plus 888R	C100 A	60157643225	R=1
1K 700	100	2.2	3	20	D151	K-plus 1414R	C100 A	60157643078	R=1 *)
1K 700	100	4.4	5	20	D126	K-plus 888R	C100 A	60157643091	R=2

**Application**  
For grinding helical-fluted carbide tools, e.g. on NC tool grinding machines. Reciprocating and creep-feed grinding. See also page 5 (12V9 wheels).

\*) Delivery within 4-5 weeks

## WINTER

### CBN grinding wheels

Shape	D	U	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 700	75	2.2	3	20	B126 B151	KSS 10N KSS RY	V180 A V240 A	66260135767 66260100354	R=1 R=1 *)
1K 700	100	2.2	3	20	B126	KSS 10N	V180 A	60157643543	R=1
1K 700	100	4.4	5	20	B126 B181	KSS 920 KSS 007N	V180 A V180 A	60157643948 60157642878	R=2 R=2
1K 700	125	4.4	5	20	B126 B181	KSS 920 KSS 007N	V180 A V180 A	66260135867 60157642948	R=2 R=2

**Application**  
For grinding helical-fluted HSS tools, e.g. on NC tool grinding machines. Reciprocating and creep-feed grinding. Very suitable for relief grinding. See also page 5 (12V9 wheels).

\*) Delivery within 4-5 weeks

## WINTER

### CBN grinding wheels

Shape	D	W	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 222	150	2	3.3	50.8	B151	KSS RY	V300 A	60157644021	to module 6 T=17 S°=20°
1K 222	200	2	3.3	50.8	B151	KSS RY	V300 A	66260134942	to module 12 T=22 S°=23°

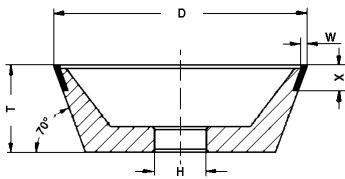
**Application**  
For creep-feed and reciprocating grinding of relief of straight and helical hobs. Creep-feed grinding with intensive cooling. Suitable for use on hob grinders, e.g. KAPP or KLINGELNBERG.

## WINTER

### For Grinding the rake of a helical-toothed hob cutter

Shape	D	W	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
4BT9	150	10	3	50.8	B126	KM 64	V30 AL	66260354043	

Grinding wheel  
shape according  
to FEPA **11V9**



**WINTER**

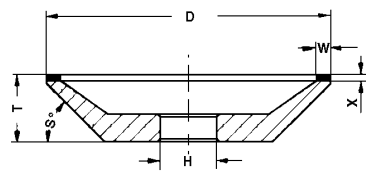
**Diamond grinding wheels**

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
<b>M 11V9</b>	<b>- 95.3 - 3.2 - 9.3 - 20</b>	<b>D91</b>	<b>M-plus 789</b>	<b>C50 D</b>	<b>60157642796</b>	<b>T=35</b>
		<b>D126</b>	<b>M-plus 789</b>	<b>C50 D</b>	<b>66260136404</b>	
		<b>D126</b>	<b>M-plus 789</b>	<b>C75 D</b>	<b>60157643011</b>	
<b>M 11V9</b>	<b>- 125 - 3 - 10 - 20</b>	<b>D126</b>	<b>M-plus 789</b>	<b>C75 D</b>	<b>60157643328</b>	<b>T=40</b>

**Application**

For grinding multi-edge carbide-tipped tools with up to 50% shank material.  
For use on all universal tool and cutter grinding machines and engraving tool grinding machines. For dry and wet grinding.  
Well suited for creep-feed grinding, e.g. for halving of engraving tools.

Grinding wheel  
shape according  
to FEPA **12A2**



**WINTER**

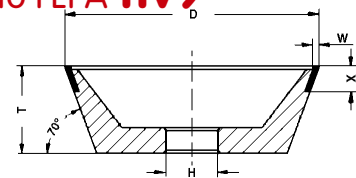
**Diamond grinding wheels**

Shape	- D - U - X - S° - H	Grit size	Bond	Concentration	ORDER No.	Remarks
<b>M 12A2</b>	<b>- 75 - 3 - 4 - 45 - 20</b>	<b>D91</b>	<b>M-plus 789</b>	<b>C50 A</b>	<b>60157643230</b>	<b>T=24</b>
<b>M 12A2</b>	<b>- 100 - 6 - 4 - 45 - 20</b>	<b>D91</b>	<b>M-plus 789</b>	<b>C50</b>	<b>60157642871</b>	<b>T=27</b>
		<b>D126</b>	<b>M-plus 789</b>	<b>C50</b>	<b>60157642688</b>	

**Application**

For grinding multi-edge carbide-tipped tools with up to 50% shank material.  
For use on all universal tool and cutter grinding machines and engraving tool grinding machines. For dry and wet grinding.  
Well suited for creep-feed grinding, e.g. for halving of engraving tools.

Grinding wheel  
shape according  
to FEPA **11V9**



**WINTER**

**Diamond grinding wheels, Type RESIMET**

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
<b>RM 11V9</b>	<b>- 90 - 3 - 6 - 20</b>	<b>D64</b>	<b>T64</b>	<b>50A01</b>	<b>66260388178</b>	
		<b>D107</b>	<b>T64</b>	<b>50A01</b>	<b>69014160168</b>	
		<b>D151</b>	<b>T64</b>	<b>50A01</b>	<b>66260392872</b>	
<b>RM 11V9</b>	<b>- 90 - 3 - 6 - 20</b>	<b>D107</b>	<b>T64</b>	<b>75A01</b>	<b>66260397170</b>	
		<b>D151</b>	<b>T64</b>	<b>75A01</b>	<b>66260399141</b>	
<b>RM 11V9</b>	<b>- 125 - 3 - 6 - 20</b>	<b>D107</b>	<b>T64</b>	<b>50A01</b>	<b>69014159601</b>	
		<b>D151</b>	<b>T64</b>	<b>50A01</b>	<b>69014158820</b>	

**Application**

For grinding multi-edge carbide-tipped tools with up to 50% shank material.  
For use on all universal tool and cutter grinding machines and engraving tool grinding machines. For dry and wet grinding.  
Well suited for creep-feed grinding, e.g. for halving of engraving tools.

**WINTER**

**CBN grinding wheels, Typ RESIMET**

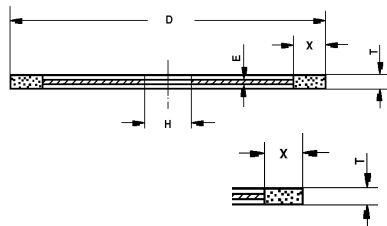
Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
<b>RM 11V9</b>	<b>- 90 - 3 - 6 - 20</b>	<b>B151</b>	<b>T45</b>	<b>50AZW01</b>	<b>69014157884</b>	
		<b>B151</b>	<b>T45</b>	<b>75AZW01</b>	<b>69014159273</b>	

**Application**

For grinding HSS tools,  
for dry and wet grinding.



Cut-off wheels acc.  
to FEPA **1A1R**



## WINTER

### Diamond saw blades

Shape	- D	- T	- X	- E	- H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 1A1R	- 100	- 1	- 5	- 0,8	- 20	D151	K-plus 888RY	C50	69014185139	Ceramics
K 1A1R	- 100	- 1	- 5	- 0,8	- 20	D151	K-plus 4821	C100	69014185128	Carbide
K 1A1R	- 100	- 1	- 5	- 0,8	- 20	D91	K-plus 888RY	C38	66260387926	Glass
K 1A1R	- 125	- 1	- 5	- 0,8	- 20	D151	K-plus 4821	C100	69014185129	Carbide
K 1A1R	- 150	- 1	- 7	- 0,8	- 20	D151	K-plus 4821	C100	69014185130	Carbide
K 1A1R	- 150	- 1	- 7	- 0,8	- 32	D151	K-plus 4821	C100	69014185153	Carbide
K 1A1R	- 150	- 1	- 7	- 0,8	- 20	D91	K-plus 888RY	C38	66260384283	Glass
2K 1A1R	- 175	- 1,2	- 7	- 1	- 30	D181	K-plus 777N	C50	69014157827	Quartz glass
K 1A1R	- 200	- 1,2	- 7	- 0,9	- 30	D151	K-plus 4821	C100	69014185154	Carbide
K 1A1R	- 200	- 1,2	- 7	- 0,9	- 22	D151	K-plus 4821	C100	66260386423	Carbide
K 1A1R	- 250	- 1,2	- 7	- 0,9	- 25	D91	K-plus 888RY	C50	66260118203	Ceramics
1BZ 1A1R	- 100	- 0,8	- 5	- 0,6	- 20	D126	BZ 309	C45	66260386131	*)
BZ 1A1R	- 150	- 0,6	- 5	- 0,5	- 20	D126	BZ 309	C90	66260383000	Ceramics
1BZ 1A1R	- 150	- 0,7	- 10	- 0,5	- 20	D91	BZ 359	C23	66260386395	Quartz glass
BZ 1A1R	- 150	- 0,8	- 5	- 0,6	- 20	D181	BZ 309	C45	66260389371	*)
BZ 1A1R	- 200	- 1	- 5	- 0,8	- 50	D126	BZ 308	C45	66260383078	*)
S 1A1R	- 100	- 1,1	- 1	- 0,7	- 20	D181	G 820	S33	69014185085	**)
S 1A1R	- 100	- 1,5	- 1	- 0,7	- 22	D301	G 820	S33	66260385616	**)

\*) Magnetic material, glass

\*\*\*) Universal for brittle material

#### Application

For cutting ceramics, carbide, glass, quartz glass and magnetic materials.

## WINTER

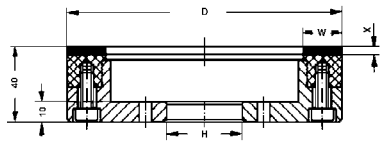
### CBN saw blades

Shape	- D	- T	- X	- E	- H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 1A1R	- 100	- 1	- 5	- 0,8	- 20	B151	KSSRY	V180	66260388124	
K 1A1R	- 125	- 1	- 5	- 0,8	- 20	B151	KSSRY	V180	66260386108	
K 1A1R	- 150	- 1	- 7	- 0,8	- 20	B151	KSSRY	V180	66260385838	

#### Application

For cutting HSS.

Grinding wheel shape according to FEPA **6A2**



## WINTER

### Diamond grinding wheels for EWAG RS 10, 12, 15 and ewamatic

Shape	- D - W - X - H	Bond	ORDER No.	Remarks
1BZ 6A2	- 150 - 20 - 4 - 40	VF VFF VP	66260135795 60157643132 66260135772	
<b>Application</b> For Polybloc grinding (polycrystalline diamond)		VF for rough grinding VFF universal for rough and finish grinding VP for polishing		

Grinding wheel shape according to FEPA **2A2T**

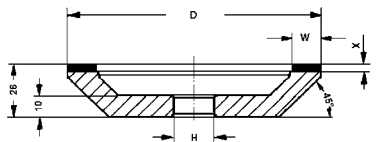


## WINTER

### Diamond grinding wheels for EWAG RS 10, 12, 15 and ewamatic

Shape	- D - W - X - U - H	Bond	ORDER No.	Remarks
1BZ 2A2T	- 150 - 20 - 4 - 15 - 112	VFF	66260134939	
<b>Application</b> For Polybloc grinding (polycrystalline diamond)		VFF universal for rough and finish grinding		

Grinding wheel shape according to FEPA **12A2**

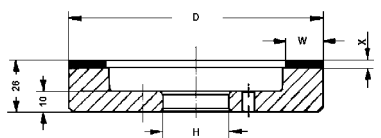


## WINTER

### Diamond grinding wheels for KELCH SZ 32 K

Shape	- D - W - X - S° - H	Bond	ORDER No.	Remarks
1BZ 12A2	- 125 - 15 - 4 - 45 - 20	VFF	60157643666	
<b>Application</b> For Polybloc grinding (polycrystalline diamond)		VFF universal for rough and finish grinding		

Grinding wheel shape according to FEPA **6A2**

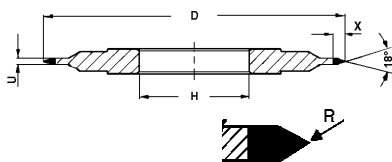


## WINTER

### Diamond grinding wheels for Micro-Point

Shape	- D - W - X - H	Bond	ORDER No.	Remarks
1BZ 6A2	- 125 - 20 - 4 - 31.75	VFF	60157643758	
<b>Application</b> For Polybloc grinding (polycrystalline diamond)		VFF universal for rough and finish grinding		

Grinding wheel shape according to FEPA **14EA1**

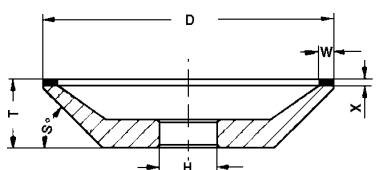


## WINTER

### Diamond grinding wheels

Shape	- D - U - X - V° - R - H	Grit size	Bond	Concentration	ORDER No.	Remarks
1BZ14EA1	- 125 - 1.5 - 5 - 18 - 0.25 - 46	D46	BZ 387	C100 E	60157642735	*)
<b>Application</b> For grinding on optical profile grinding machines, for example DOEBELI OP 125 Other shapes available on request.		*) Delivery within 4-5 weeks				

Grinding wheel shape according to FEPA **12A2**



## WINTER

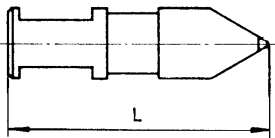
### Diamond grinding wheels

Shape	- D - W - X - S° - H	Grit size	Bond	Concentration	ORDER No.	Remarks
BZ 12A2	- 125 - 10 - 1 - 45 - 20	D91	BZ 560	C75 E	60157642968	
<b>Application</b> Universally suited for all robust applications, e.g. on all grinding machines for turning steels. Suitable for dry and wet grinding.						

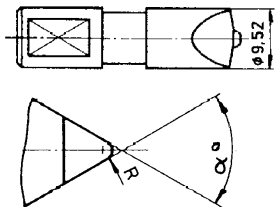




## Profiling with DIAFORM chisel from WINTER



Type	$\alpha$	R	L	Order No.
40/125 L	40	0,125	44,5	<b>66260340672</b>
40/250 L	40	0,250	44,5	<b>66260339381</b>
40/500 L	40	0,500	44,5	<b>66260339689</b>
Schwert L	40			<b>66260339510</b>

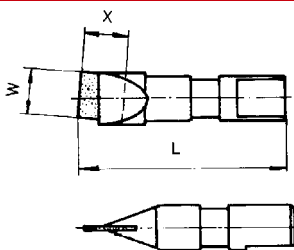


### DIAFORM trueing device

Mandrel	$L_1 + L_2$	Machine type
S	35	AT, ATR, BT, BTR
L	44,5	2A - 2AR - 2B - 2BR - 3A - 3AR - 3B - 3BR 4A - 4AR - 4B - 4BR - 5/1 - 5/2 - 10/2 6/1 - 6/2 - 12/1 - 12/2 - 8/1 - 8/2 - 14/1 - 14/2
X	57,8	5/4 - 6/4 - 12/4 - 14/4

Contact address for DIAFORM chisel, please see address Jena, see page 17.

## Pre-profiling with DIAFORM blade from WINTER






Indication	W	X	R	L	Order No.
<b>TTF FDS90</b>	10	12	0,35	45	<b>66260384883</b>

DIAFORM-blade for an economic pre-profiling with DIAFORM trueing device.  
Protects the profile diamond against-high wear rate.

More information see our brochure "Stationary Diamond Dressers".

## Diamond files from WINTER

Type	Cross section	Plated length	Total length	Mandrel diameter	Grit size	Order No.
	mm	mm	mm	mm		
 Flat blunt (2112)	5 x 1	85	140	3	D91	<b>66260134227</b>
	5 x 1	85	140	3	D126	<b>66260134228</b>
 Triangular (2102t)	5 x 2	70	140	3	D20B	<b>66260134293</b>
	5 x 2	70	140	3	D91	<b>60157643993</b>
Screw-on handle						<b>66260391073</b>

Additional types, dimensions and grit sizes are listed in our brochure "Diamond Files, Diamond Sawing Wires, Fixed Diamond wire, Diamond Bandsaws", please contact our Norderstedt address.

Diamond  
hand laps  
**K 11C / BZ 11C**



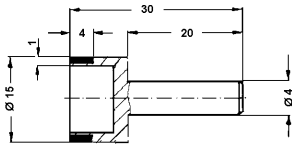
**WINTER**

**Diamond hand laps**

Shape	- L - B - X	Grit size	Bond	Concentration	ORDER No.	Remarks
K 11C	- 30 - 9 - 2	D7	Resin bond		60157644068	
		D15	Resin bond		66260134295	
		D46	Resin bond		66260110338	
		D64	Resin bond		66260107646	
		D91	Resin bond		60157644054	
BZ 11C	- 30 - 9 - 1	D46	Bronze bond		66260110195	
		D64	Bronze bond		60157644202	
		D91	Bronze bond		60157644110	
		D126	Bronze bond		66260134302	

**Application**  
For maintenance of carbide cutting edges.

Diamond  
dressing pins  
**4BZ 07B**



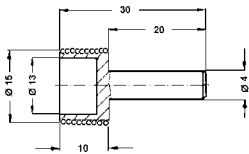
**WINTER**

**Diamond dressing pins**

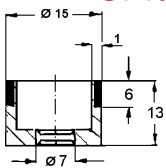
Shape	- D - T - X	Grit size	Bond	Concentration	ORDER No.	Remarks
4BZ 07B	- 15 - 4 - 1	D301	BZ 387.1	C135	66260100343	
50S 07B	- 15 - 10 - 4	D426	G825	S33	60157644198	

**Application**  
For dressing vitrified-bond CBN grinding wheels.

**50S 07B**



Diamond  
dressing wheels  
**2BZ 6A9**



**WINTER**

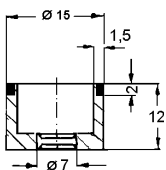
**Diamond dressing wheels**

Shape	- D - T - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
2BZ6A9	- 15 - 6 - 1 - 7	D301	BZ 387	C135	66260379145	*)
1BZ6A9	- 15 - 2 - 1,5 - 7	D213	BZ 387.1	C135	66260112087	*)

**Application**  
For dressing vitrified-bond CBN grinding wheels.

\*) Delivery within 6 weeks

**1BZ 6A9**





## Diamond lapping and polishing media from **WINTER**

**WINTER-Diaplast® diamond compound**  
for the industry and laboratory.

**WINTER-Diaplastol® thinner**

**WINTER-Diaplast® suspension**  
Combisystem 100 ml

**WINTER polishing cloths -self-adhesive-**

The complete detailed product range is described in our brochure "Diaplast - diamond lapping and polishing media for industry and laboratory", please contact our Norderstedt address.

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**For your enquiries please contact:**

# WINTER

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## NORTON

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Fax: +49 9382 602-186  
[www.efesis.de](http://www.efesis.de), [info@efesis.de](mailto:info@efesis.de)

## Dressing tools and WINTER cleaning and sharpening stones for diamond and CBN wheels

### WINTER Dressing Device

with rotating SiC wheel (break-controlled) for dressing diamond and CBN wheels. Complete with 1 wheel each 37 C602-N5V and 37 C802-15V.

**Order No. 66260195821**

Spare wheels:

37 C46-N5V **Order No. 69936679412**

37 C602-N5V **Order No. 66253051624**

37 C802-15V **Order No. 69936639815**

Equipment **Order No. 66260274670**

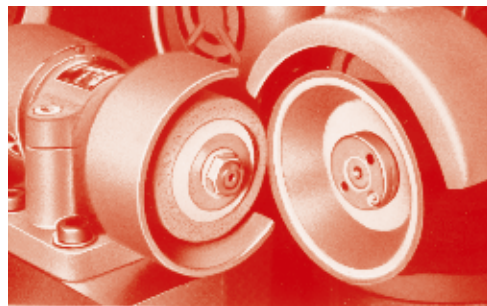
For grit size:

≤ D/B181

≥ D/B46

D/B64 and metal bond

1 set consisting of: 3 brake disks, clips and screws



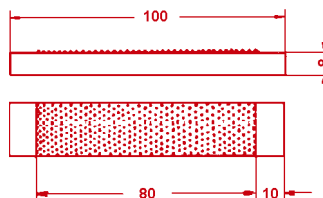
Use dry only, subsequent sharpening with WINTER Stone only if required.

### 1S 09 H-80-20-8

**Order No. 66260134287**

#### WINTER Diamond Dressing Stick

for dressing CBN wheels (KSS) on surface grinding machines. Use with coolant, subsequent sharpening with WINTER-Stone necessary.

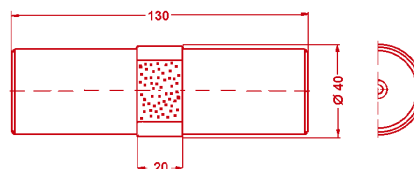


### 1S 44B-40-20 / D301 / S11

**Order No. 60157642712**

#### WINTER Dressing Cylinder

For dressing CBN wheels (KSS) on cylindrical grinding machines. Use with coolant subsequent sharpening with WINTER-Stone necessary.



#### WINTER-Stone No. 1AW (100x20x20)

Cleaning for fine grit, < D46, K-plus bonds.

**Order No. 66260395639**

#### WINTER-Stone No. 2 (100x24x13)

Universal sharpening stone.

**Order No. 66260195816**

#### WINTER-Stone No. 3 (100x40x15)

Cleaning and sharpening vitrified-bond CBN wheels and pins.

**Order No. 66260195817**

#### WINTER-Stone No. 3A (80x15x10)

Cleaning and sharpening vitrified-bond CBN wheels and pins.

**Order No. 66260389357**

#### WINTER-Stone No. 3B (100x50x25)

Cleaning and sharpening vitrified-bond CBN wheels and pins.

**Order No. 66260386167**

#### WINTER-Stone No. 4 (90x70x20)

For sharpening metal-bond diamond and CBN wheels (BZ / MS). Grit > D/B251.

**Order No. 60157642665**

#### WINTER-Stone No. 5 (100x50x25)

Universal sharpening stone.

**Order No. 66260389054**

## **NORTON** Sharpening stones for diamond and CBN wheels

### Stone WA 150 GV (25x25x150)

For cleaning and sharpening of vitrified and resin bond grinding wheels > D64 Recommended for sharpening Q-Flute<sup>2</sup>

**Order No. 69936621643**

### Stone WA 220 GV (25x25x150)

For cleaning and sharpening of vitrified and resin bond grinding wheels

**Order No. 69014165446**

### Stone WA 320 GV (25x25x150)

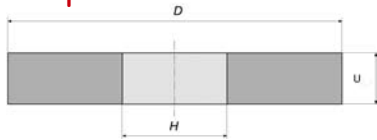
For cleaning and sharpening of vitrified and resin bond grinding wheels < D46

**Order No. 69936651380**

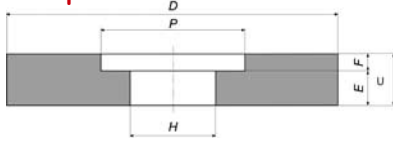
Contact address for NORTON grinding wheels see page 17.

## Conventional grinding wheels

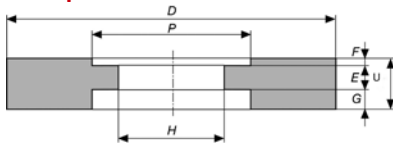
### Shape 1



### Shape 5

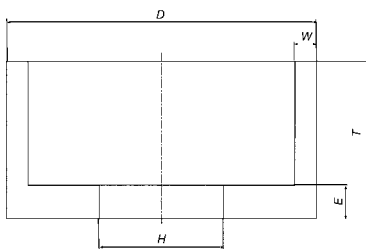


### Shape 7



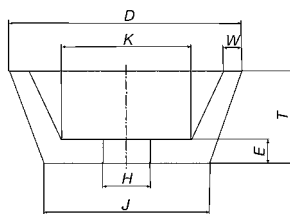
## Conventional grinding wheels

### Shape 6



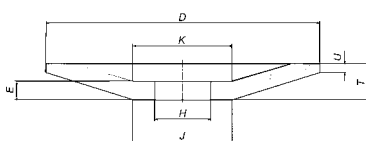
## Conventional grinding wheels

### Shape 11



## Conventional grinding wheels

### Shape 12



<b>NORTON</b>		<b>Grinding with conventional wheels</b>		
Shape	D - U - H - P - F - G	Specification	ORDER No.	
1	- 225 - 10 - 51	22A120I8V4181	66253066284	
1	- 225 - 16 - 51	22A120I8V4181	61463659178	
1	- 225 - 20 - 51	22A120I8V4181	66253066287	
1	- 225 - 25 - 51	22A120I8V4181	66253066289	
5	- 225 - 30 - 51 - 120 - 5	22A120I8V4181	66253066290	
1	- 250 - 10 - 51	22A120I8V4181	61463662304	
1	- 250 - 16 - 51	22A120I8V4181	61463659174	
1	- 250 - 20 - 51	22A120I8V4181	61463659172	
1	- 250 - 25 - 51	22A120I8V4181	66253066291	
5	- 250 - 30 - 51 - 120 - 5	22A120I8V4181	66253066292	
1	- 300 - 10 - 76,2	22A120I8V4181	66253066295	
1	- 300 - 16 - 76,2	22A120I8V4181	66253066296	
1	- 300 - 20 - 76,2	22A120I8V4181	66253066298	
1	- 300 - 30 - 76,2	22A120I8V4181	66253066301	
7	- 300 - 50 - 76,2 - 160 - 10 - 10	22A120I8V4181	66253066302	
1	- 400 - 16 - 127	22A120I8V4181	66253065761	
1	- 400 - 20 - 127	22A120I8V4181	66253065762	
1	- 400 - 30 - 127	22A120I8V4181	66253065760	

<b>NORTON</b>		<b>Conventional wheels for universal tool and cutter grinding machines</b>			
Material number	Dimension D - T - H	Specification	Remarks	Packing unit	
69936674860	100 - 50 - 20	38A 60 J VS	For tungsten carbide	2	
69936639436	100 - 50 - 20	38A 80 K VS		2	
69936668288	100 - 50 - 32	39C 60 J V		2	
66253049958	125 - 63 - 32	38A 46 K VS			

<b>NORTON</b>		<b>Conventional wheels for universal tool and cutter grinding machines</b>			
Material number	Dimension D - T - H	Specification	Remarks	Packing unit	
69936686170	100 - 40 - 20	38A 60 K VS		2	
66253050104	125 - 40 - 32	38A 60 J VS		2	
66253050106	125 - 40 - 32	38A 80 K VS		2	

<b>NORTON</b>		<b>Conventional wheels for universal tool and cutter grinding machines</b>			
Material number	Dimension D - T - H	Specification	Remarks	Packing unit	
69936686186	100 - 13 - 20	38A60 K VS	For tungsten carbide	2	
69936683998	150 - 13 - 32	39C 80 J V		2	
69936686204	150 - 13 - 32	38A120 J VS		2	

All dimensions in mm.

Contact address for conventional grinding wheels see page 17.



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