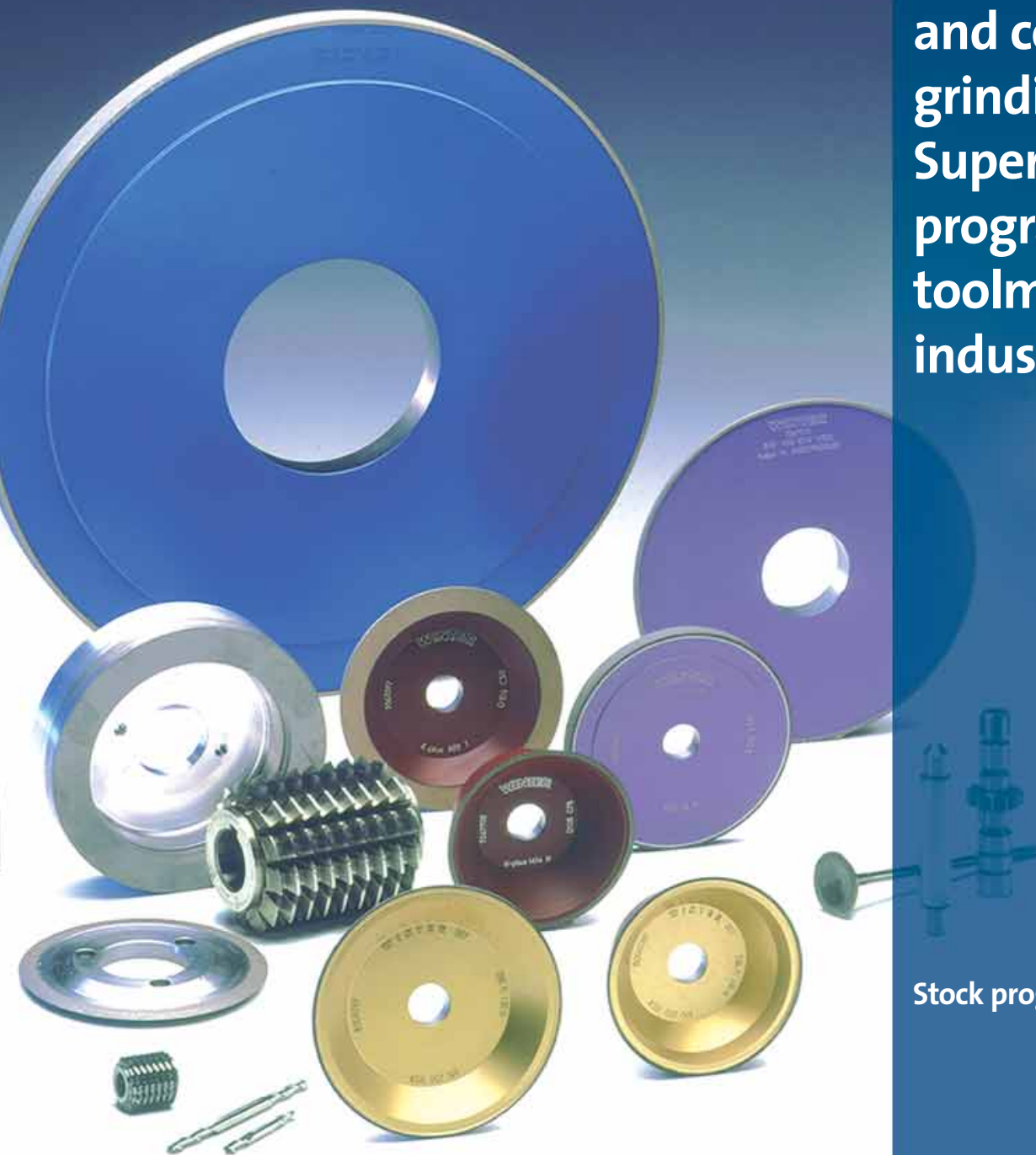


# WINTER

**Diamond and  
CBN tools  
and conventional  
grinding wheels  
Super Standard  
program for the  
toolmaking  
industry**



Stock programme

## Notes

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 instruction of the machine manufacturer.

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, please contact one of our headquarters.

For further questions on our grinding wheel programme, please contact our headquarters.

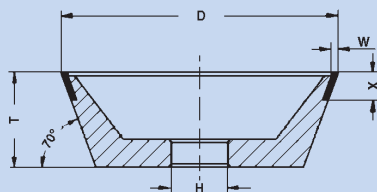
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## Grinding wheel shape according to FEPA 11V9



## WINTER

### Diamond grinding wheels

Shape	- D	- W	- X	- H	Grit size	Bond	Concentration	ORDER No.	Remarks	
K 11V9	- 75	- 1,5	- 10	- 20	D64	K-PLUS 888RY	C75 D	82152921	T=30	
K 11V9	- 75	- 2	- 10	- 20	D15C	K-PLUS 888R	C50 H	82013375	T=30	
					D46	K-PLUS 888R	C75 D	82036507		
					D64	K-PLUS 888R	C75 D	82009328		
					D91	K-PLUS 888R	C75 D	80107927		
					D126	K-PLUS 888R	C75 D	80117160		
K 11V9	- 100	- 2	- 10	- 20	D15A	K-PLUS 777R	C75 H	82008521	T=35 *)	
					D46	K-PLUS 1414N	C75 D	82112679		
					D64	K-PLUS 888R	C75 D	80102564		
					D91	K-PLUS 888R	C75 D	80116983		
					D126	K-PLUS 1414J	C75 D	82004763		*)
					D126	K-PLUS 888R	C75 D	80100036		
					D151	K-PLUS 1410	C75 D	82152923		
K 11V9	- 100	- 3	- 10	- 20	D46	K-PLUS 1414N	C75 D	80116780	*) T=35	
					D64	K-PLUS 888R	C75 D	80116067		
					D91	K-PLUS 888R	C75 D	80135264		
					D126	K-PLUS 1414N	C75 D	80137905		*)
					D126	K-PLUS 888R	C75 D	80105050		
					D151	K-PLUS 1410	C75 D	82152924		

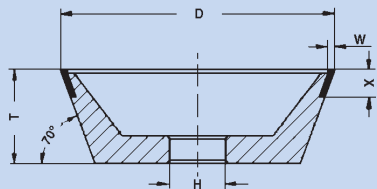
#### Application

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

Suitable for use on all universal tool and cutter grinding machines, in dry and wet grinding. Also for engraving tool grinding machines (see also page 14 and 15).

\*) 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

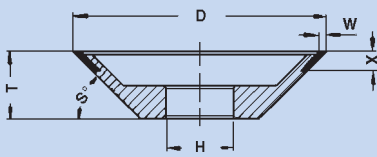
Shape	- D	- W	- X	- H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 11V9	- 75	- 2	- 10	- 20	B126	KSS 10N	V180 D	80129465	T=30 *)
					B181	KSS 007N	V180 D	80111288	
K 11V9	- 75	- 3	- 10	- 20	B126	KSS 10N	V180 D	80129813	T=30
K 11V9	- 100	- 2	- 10	- 20	B91	KSS 12N	V180 D	82039181	T=35 *)
					B126	KSS 10N	V180 D	80114900	
					B126	KSS 007N	V180 D	80138342	
					B151	KSS 1065V-63	V180 H	82153025	
					B181	KSS 007N	V180 D	80141096	
					B181	KSS 007N-63	V180 D	80102572	
K 11V9	- 100	- 3	- 10	- 20	B126	KSS 10N	V180 D	80110242	T=35
K 11V9	- 125	- 2	- 10	- 20	B181	KSS 007N D	V180 D	80142084	*) T=40

#### Application

For grinding single- and multi-edge HSS tools, for example 1<sup>st</sup> and 2<sup>nd</sup> relief and faces (straight and helical). Suitable for use on all universal tool and cutter 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 12V9



## WINTER

### Diamond grinding wheels

Shape	D	W	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
2K 12V9	75	2	10	20	D15C	K-PLUS 777N	C75 H	82121943	T=25
					D46	K-PLUS 888R	C75 D	82043662	S°=45°
					D64	K-PLUS 888R	C75 D	80123357	
					D91	K-PLUS 888R	C75 D	82152926	
					D126	K-PLUS 888R	C75 D	80123365	
5K 12V9	100	2	10	20	D46	K-PLUS 888R	C75 D	82131121	T=25
					D64	K-PLUS 888R	C75 D	80123381	S°=45°
					D91	K-PLUS 888R	C75 D	82152927	
					D126	K-PLUS 888R	C75 D	80123398	
3K 12V9	100	3	6	20	D91	K-PLUS 888R	C75 A	82003450	T=20 *) S°=30°

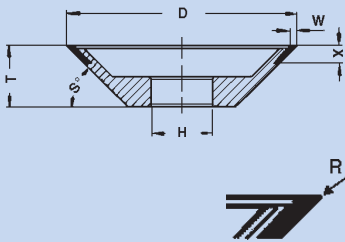
#### Application

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 and cutter grinding machines, in dry and wet grinding.

\*) Suitable for close-pitch tools.

## Grinding wheel shape according to FEPA 12V9



## WINTER

### CBN grinding wheels

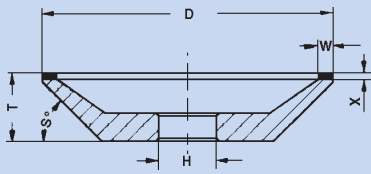
Shape	D	W	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
7K 12V9	50	2	6	20	B126	KSS 10N	V180 D	80108631	T = 16 S = 45°
2K 12V9	75	2	10	20	B126	KSS 10N	V180 D	80123332	S = 45° S = 45°
3K 12V9	75	3	6	20	B181	KSS 007N	V180 D	80146523	T = 20 *) S = 45° R=1
6K 12V9	75	3	6	20	B181	KSS 007N	V180 H	80148095	T = 20 *) S = 35° R=1
K 12V9	100	2	6	20	B126	KSS 10N	V180 D	80137898	T = 35 S = 45°
5K 12V9	100	2	10	20	B126	KSS 10N	V180 D	80123340	T = 25 S = 45°
6K 12V9	100	3	6	20	B181	KSS 007N	V180 D	80144400	T = 20 *) S = 45° R=1
7K 12V9	100	3	6	20	B181	KSS 007N	V180 A	80123835	T = 20 *) S = 35° R=1
1K 12V9	100	3	15	20	B151	KSS 007N-63	V180 H	80113515	T = 22 *) S = 45°
3K 12V9	125	3	6	20	B181	KSS 007N	V180 D	80146531	T = 25 *) S = 45° R=1
K 12V9	125	3	10	20	B151	KSS 007N-63	V180 D	82094120	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 and cutter 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

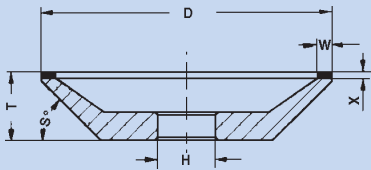
Shape	D	W	X	S°	H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 12A2	75	3	4	45	20	D7	K-PLUS 730	C50 B	80130160	T=24
						D15B	K-PLUS 777J	C50 B	80118846	
						D46	K-PLUS 888J	C75 B	80130152	
						D64	K-PLUS 888J	C75 B	80130177	
						D126	K-PLUS 888R	C75 A	80130200	
K 12A2	100	5	2	45	20	D46	K-PLUS 888N	C50 H	80124297	T=25
						D91	K-PLUS 888R	C50 H	80130185	
K 12A2	100	10	2	45	20	D64	K-PLUS 888J	C50 H	80103617	T=25
						D126	K-PLUS 888J	C50 H	80103666	
K 12A2	100	10	4	45	20	D126	K-PLUS 888N	C75 H	80120473	T=27
K 12A2	125	6	2	45	20	D46	K-PLUS 888R	C50 H	80103828	T=25
						D91	K-PLUS 888R	C50 H	80103836	
						D126	K-PLUS 888R	C50 H	82152925	
K 12A2	125	12,5	2	45	20	D64	K-PLUS 888J	C38 H	80104281	T=25
						D64	K-PLUS 888J	C50 H	80104135	
						D91	K-PLUS 888J	C50 H	80104184	
						D126	K-PLUS 888J	C50 H	80104192	
K 12A2	150	15	2	45	20	D91	K-PLUS 777N	C50 H	80107610	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 and cutter grinding machines, in dry and wet grinding.

## Grinding wheel shape according to FEPA 12A2



## INDIMANT

### Diamond grinding wheels

Shape	D	W	X	S°	H	Grit size	Bond	Concentration	ORDER No.	Remarks
12A2	100	6	2	45	20	D64	KR 219	C50	82266379	
12A2	100	8	2	45	20	D126	KR 219	C75	82266383	
12A2	125	10	2	45	20	D64	KR 219	C50	82266386	
						D126	KR 219	C50	82266387	
12A2	150	10	2	45	20	D64	KR 219	C50	82266388	

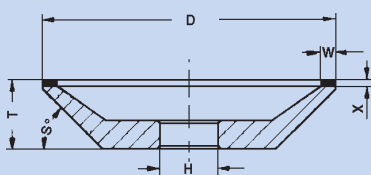
#### Application

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 and cutter grinding machines, in dry and wet grinding.

Contact address for INDIMANT grinding wheels see page 23.

## Grinding wheel shape according to FEPA 12A2



## WINTER

### CBN grinding wheels

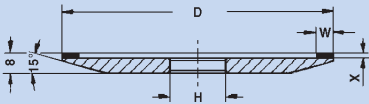
Shape	D	W	X	S°	H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 12A2	75	3	4	45	20	B46	KSS 10N	V180 H	80117955	T=24
						B91	KSS 10N	V180 H	80144458	
K 12A2	100	5	2	20	20	B126	KSS 10J	V120 H	80128825	T=12
K 12A2	100	5	2	45	20	B126	KSS 10J	V120 H	80129773	T=25
K 12A2	150	5	2	20	20	B126	KSS 10J	V120 H	80136163	T=18
K 12A2	175	5	2	20	20	B126	KSS 10J	V120 H	80135223	T=20
K 12A2	175	5	4	20	20	B126	KSS 10J	V120 H	82153003	T=22
K 12A2	200	5	4	20	20	B126	KSS 10J	V120 H	82153009	T=24

#### Application

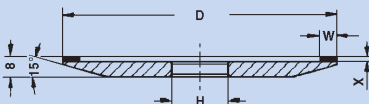
For grinding single- and multi-edge HSS tools, especially relief.

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

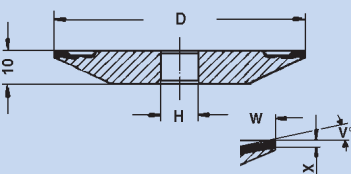
## Grinding wheel shape according to FEPA 4A2



## Grinding wheel shape according to FEPA 4A2



## Grinding wheel shape according to FEPA 4V4



## WINTER

### Diamond grinding wheels

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 4A2	- 100 - 6 - 2 - 20	D64	K-PLUS 888N	C50 H	80100182	
		D91	K-PLUS 888N	C50 H	80130103	

#### 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 and cutter 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	80107846	
K 4A2	- 125 - 4 - 2 - 20	B107	KSS 10N	V120 H	80108112	
3K 4A2	- 150 - 3 - 2 - 20	B151	KSS RY	V240 A	80137913	
K 4A2	- 150 - 4 - 2 - 20	B107	KSS 10N	V120 H	80108291	

#### 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 and cutter grinding machines, in dry and wet grinding.

## WINTER

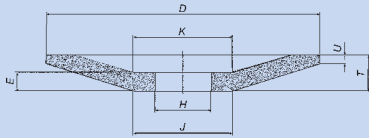
### CBN grinding wheels

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	80144425	

#### Application

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

## Conventionell grinding wheels



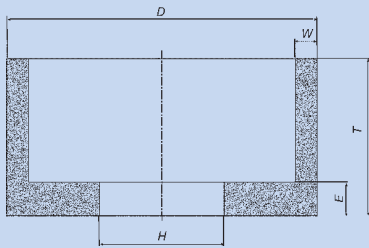
### Conventional wheels for universal tool and cutter grinding machines

Material number	Dimension D - T - H	Specification	Remarks	Minimum order
SK-170451Z	150 - 15 - 20	22A80Jot8V300	Recommendation	8



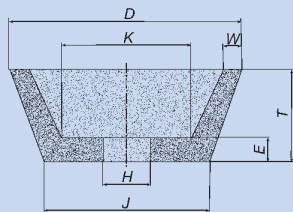
### Conventional wheels for universal tool and cutter grinding machines

Material number	Dimension D - T - H	Specification	Remarks	Minimum order
627943	100 - 13 - 20	38A60KVS		15



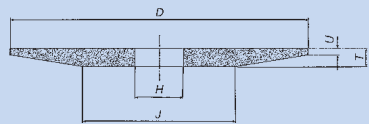
### Conventional wheels for universal tool and cutter grinding machines

Material number	Dimension D - T - H	Specification	Remarks	Minimum order
257937	100 - 50 - 20	38A60JVS W=8 E=10		6



### Conventional wheels for universal tool and cutter grinding machines

Material number	Dimension D - T - H	Specification	Remarks	Minimum order
614228	100 - 40 - 20	55G46KVS	Recommendation	20



### Conventional wheels for universal tool and cutter grinding machines

Material number	Dimension D - T - H	Specification	Remarks	Minimum order
SK-144522J	150 - 8 - 32	21A80L7V300		8



### Conventional wheels for universal tool and cutter grinding machines

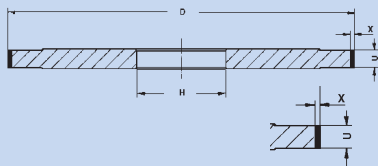
Material number	Dimension D - T - H	Specification	Remarks	Minimum order
259378	125 - 7 - 20	38A60KVS		8

Contact address for EFESIS grinding wheels see page 23.

Contact address for NORTON grinding wheels see page 23.



## Grinding wheel shape according to FEPA 1A1



## WINTER

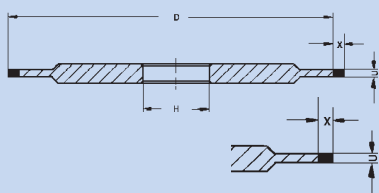
### Diamond grinding wheels

Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 1A1	- 200 - 10 - 2 - 51	D20B	K-PLUS 777J	C50 B	80101073	
		D91	K-PLUS 888NY	C75 B	80130144	
		D126	K-PLUS 888NY	C75 B	80111603	
K 1A1	- 200 - 10 - 4 - 51	D126	K-PLUS 888RY	C75 H	80114366	
K 1A1	- 200 - 20 - 2 - 51	D126	K-PLUS 888NY	C75 B	80128922	
K 1A1	- 225 - 15 - 2 - 51	D126	K-PLUS 888NY	C75 B	80147358	
K 1A1	- 250 - 10 - 2 - 51	D126	K-PLUS 888NY	C75 B	82045427	
K 1A1	- 250 - 10 - 2 - 76	D126	K-PLUS 888NY	C75 B	80114933	
K 1A1	- 250 - 10 - 3 - 51	D20B	K-PLUS 777J	C50 B	82137081	
K 1A1	- 250 - 12 - 3 - 76	D126	K-PLUS 1313RY	C75 B	82099839	
		D46	K-PLUS 888N	C75 B	80107587	
2K 1A1	- 250 - 12 - 4 - 76	D91	K-PLUS 888N	C75 B	80116148	
		D126	K-PLUS 888NY	C75 B	82139741	
K 1A1	- 250 - 15 - 2 - 76	D126	K-PLUS 888RY	C75 B	80131116	
K 1A1	- 250 - 15 - 3 - 51	D126	K-PLUS 888NY	C75 B	82152928	
K 1A1	- 250 - 20 - 4 - 51	D126	K-PLUS 1313RY	C75 B	80115654	
K 1A1	- 300 - 10 - 2 - 76	D91	K-PLUS 888NY	C50 B	80135272	
K 1A1	- 300 - 10 - 2 - 127	D46	K-PLUS 888NY	C50 B	82041445	
K 1A1	- 300 - 10 - 2 - 127	D126	K-PLUS 888NY	C75 B	80140075	
K 1A1	- 300 - 10 - 3 - 76	D126	K-PLUS 1313NY	C75 B	80135280	
K 1A1	- 300 - 10 - 4 - 127	D126	K-PLUS 1414N	C75 B	82105966	
K 1A1	- 300 - 15 - 2 - 127	D126	K-PLUS 1313TY	C75 B	80140067	
K 1A1	- 300 - 15 - 4 - 127	D20A	K-PLUS 777J	C50 B	80143801	
K 1A1	- 300 - 20 - 2 - 127	D126	K-PLUS 1313TY	C75 B	80128947	
K 1A1	- 300 - 20 - 2 - 127	D151	K-PLUS 888NY	C75 B	80135297	
3K 1A1	- 350 - 30 - 3 - 127	D151	K-PLUS 1313RY	C75 B	80147171	
K 1A1	- 400 - 10 - 2 - 127	D20A	K-PLUS 777N	C50 B	82138707	
K 1A1	- 400 - 20 - 3 - 127	D126	K-PLUS 1313RY	C75 B	80115508	

#### Application

For grinding on surface and cylindrical grinding machines; preferably wet grinding.

## Grinding wheel shape according to FEPA 14A1



## ID INDIMANT

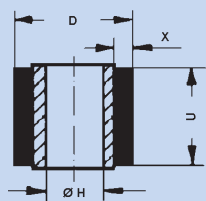
### Diamond grinding wheels

Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
14A1	- 200 - 10 - 2 - 51	D126	KR 280	C75	82266326	
		D91	KR 280	C75	82266344	
		D54	KR 280	C75	82266351	
14A1	- 200 - 10 - 3 - 51	D126	KR 280	C75	82266352	
14A1	- 200 - 15 - 3 - 51	D126	KR 280	C75	82266353	
		D91	KR 280	C75	82266355	
14A1	- 225 - 10 - 3 - 51	D126	KR 280	C75	82266356	
		D91	KR 280	C75	82266361	
14A1	- 225 - 15 - 3 - 51	D126	KR 280	C75	82266362	
		D91	KR 280	C75	82266364	
14A1	- 250 - 10 - 3 - 51	D126	KR 280	C75	82266359	
		D91	KR 280	C75	82266357	
14A1	- 250 - 15 - 3 - 51	D126	KR 280	C75	82266367	
		D91	KR 280	C75	82266369	
14A1	- 300 - 10 - 3 - 76	D126	KR 125	C75	82266370	
14A1	- 300 - 15 - 3 - 76	D126	KR 125	C75	82266371	
14A1	- 300 - 15 - 3 - 76	D91	KR 125	C75	82266372	
14A1	- 300 - 20 - 3 - 76	D126	KR 125	C75	82266374	
14A1	- 350 - 20 - 3 - 127	D126	KR 125	C75	82266375	
14A1	- 400 - 20 - 3 - 127	D126	KR 125	C75	82266377	

If you require vitreous bonded wheels, please contact us.

Contact address for  
INDIMANT grinding wheels  
see page 23.

## Grinding wheel shape according to FEPA 1A1



## WINTER

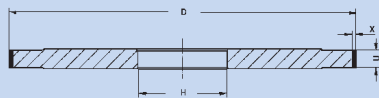
### CBN grinding wheels

Shape	- D	- U	- X	- H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 1A1	- 10	- 10	- 2	- 4	B126	KSS RY	V180 E	80109377	
K 1A1	- 12	- 10	- 2	- 6	B126	KSS RY	V180 E	80120992	
K 1A1	- 15	- 10	- 2	- 6	B126	KSS RY	V180 E	80120984	
K 1A1	- 16	- 10	- 2	- 6	B126	KSS RY	V180 E	80109700	
K 1A1	- 18	- 10	- 2	- 6	B126	KSS RY	V180 E	80107287	
K 1A1	- 20	- 10	- 2	- 8	B126	KSS RY	V180 E	80107140	
K 1A1	- 20	- 15	- 2	- 8	B126	KSS RY	V180 E	80120976	
K 1A1	- 25	- 10	- 2	- 8	B126	KSS RY	V180 E	80132526	
K 1A1	- 25	- 10	- 2	- 10	B126	KSS RY	V180 E	80126232	
K 1A1	- 25	- 15	- 2	- 8	B126	KSS RY	V180 E	80134698	
K 1A1	- 30	- 10	- 2	- 10	B126	KSS RY	V180 E	80107181	
K 1A1	- 30	- 15	- 2	- 10	B126	KSS RY	V180 E	80120951	
K 1A1	- 38	- 20	- 2	- 15	B126	KSS RY	V180 E	80121007	
K 1A1	- 50	- 10	- 2	- 20	B126	KSS RY	V180 A	80135183	
K 1A1	- 60	- 15	- 2	- 20	B126	KSS RY	V180 H	80110080	
K 1A1	- 100	- 10	- 2	- 20	B126	KSS RY	V180 H	80129798	
K 1A1	- 125	- 10	- 2	- 20	B126	KSS 10N	V120 H	80136171	

#### Application

For internal grinding of HSS tools. Suitable for wet and dry grinding.

## Grinding wheel shape according to FEPA 1A1



## WINTER

### CBN grinding wheels

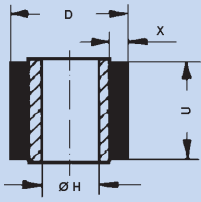
Shape	- D	- U	- X	- H	Grit size	Bond	Concentration	ORDER No.	Remarks
K 1A1	- 200	- 10	- 2	- 51	B126	KSS 10N	V120 B	80150338	
K 1A1	- 200	- 10	- 4	- 51	B64	KSS RY	V180 B	80141728	
K 1A1	- 200	- 15	- 2	- 51	B107	KSS 10N	V120 B	80150346	
K 1A1	- 225	- 10	- 3	- 51	B126	KSS 10N	V120 B	82128405	
K 1A1	- 225	- 12	- 3	- 51	B126	KSS 10N	V120 B	82153010	
K 1A1	- 250	- 15	- 2	- 51	B91	KSS RY	V150 B	80123965	
K 1A1	- 250	- 15	- 2	- 51	B126	KSS 10N	V120 B	80150354	
K 1A1	- 250	- 15	- 4	- 76	B151	KSS RY	V120 B	82120532	
K 1A1	- 250	- 20	- 2	- 51	B126	KSS 10N	V120 B	80150362	
K 1A1	- 250	- 20	- 4	- 76	B126	KSS NY	V180 B	80128225	
K 1A1	- 300	- 15	- 2	- 76	B126	KSS 10N	V120 B	80150410	
K 1A1	- 300	- 15	- 2	- 127	B126	KSS 10N	V120 B	80150370	
K 1A1	- 300	- 20	- 2	- 76	B126	KSS 10N	V120 B	80150387	
K 1A1	- 300	- 20	- 2	- 127	B126	KSS 10N	V120 B	80150395	
K 1A1	- 300	- 30	- 4	- 76	B126	KSS 10N	V120 B	80150265	
K 1A1	- 300	- 30	- 4	- 76	B126	KSS 10N	V180 B	80150273	
K 1A1	- 350	- 20	- 3	- 127	B126	KSS 10N	V120 B	82147804	
K 1A1	- 400	- 20	- 3	- 127	B126	KSS 10N	V120 B	80150281	
K 1A1	- 400	- 20	- 3	- 127	B126	KSS 10N	V180 B	80150298	
K 1A1	- 400	- 30	- 3	- 127	B126	KSS 10N	V120 B	80150305	
K 1A1	- 400	- 30	- 3	- 127	B126	KSS 10N	V180 B	80150313	

#### Application

For grinding on surface and cylindrical grinding machines; preferably wet grinding

Recommended concentrations For surface grinding: V120  
For cylindrical grinding: V180

## Grinding wheel shape according to FEPA 1A1



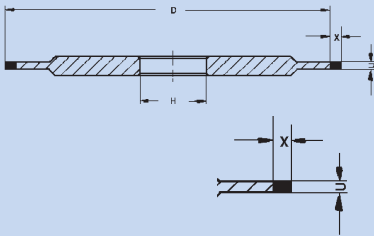
### CBN grinding wheels

Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
1A1	- 10 - 10 - 1,5 - 6	B126	KR 192	V18	82266396	
1A1	- 15 - 10 - 2 - 6	B126	KR 192	V18	82266401	
1A1	- 20 - 10 - 2 - 8	B126	KR 192	V18	82266523	
1A1	- 25 - 10 - 2 - 10	B126	KR 192	V18	82266525	
1A1	- 30 - 15 - 2 - 10	B126	KR 192	V18	82266526	
1A1	- 35 - 15 - 2 - 10	B126	KR 192	V18	82266527	
1A1	- 40 - 15 - 2 - 16	B126	KR 192	V18	82266528	
1A1	- 50 - 15 - 2 - 20	B126	KR 192	V18	82266530	

#### Application

For internal cylindrical grinding of HSS tools. Suitable for wet and dry grinding.

## Grinding wheel shape according to FEPA 14A1



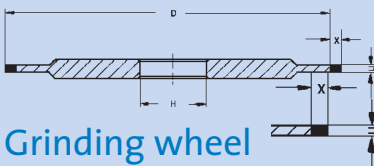
### Diamond grinding wheels

Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
14A1	- 200 - 10 - 2 - 51	B91 B126	KR 191 KR 191	V18 V18	82266542 82266546	
14A1	- 200 - 10 - 3 - 51	B91 B126	KR 191 KR 191	V18 V18	82266548 82266549	
14A1	- 200 - 15 - 3 - 51	B126 B91	KR 191 KR 191	V18 V18	82266551 82266552	
14A1	- 225 - 10 - 3 - 51	B126 B91	KR 191 KR 191	V18 V18	82266554 82266555	
14A1	- 225 - 15 - 3 - 51	B126 B91	KR 191 KR 191	V18 V18	82266556 82266557	
14A1	- 250 - 10 - 3 - 51	B126 B91	KR 191 KR 191	V18 V18	82266558 82266559	
14A1	- 250 - 15 - 3 - 51	B126 B91	KR 191 KR 191	V18 V18	82266561 82266562	
14A1	- 250 - 20 - 3 - 51	B126 B91	KR 191 KR 191	V18 V18	82266563 82266564	
14A1	- 300 - 15 - 3 - 76	B126 B91	KR 191 KR 191	V18 V18	82266565 82266566	
14A1	- 300 - 20 - 3 - 76	B126 B91	KR 191 KR 191	V18 V18	82266568 82266569	
14A1	- 350 - 20 - 3 - 127	B126	KR 191	V18	82266570	
14A1	- 350 - 30 - 3 - 127	B126	KR 191	V18	82266571	
14A1	- 400 - 15 - 3 - 127	B126	KR 191	V18	82266573	
14A1	- 400 - 20 - 3 - 127	B126	KR 191	V18	82266574	
14A1	- 400 - 30 - 3 - 127	B126	KR 191	V18	82266576	

If you require vitreous bonded wheels, please contact us.

Contact address for INDIMANT grinding wheels see backside.

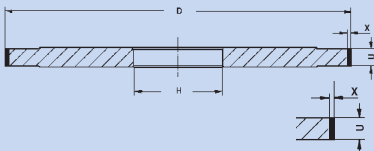
## Grinding wheel shape according to FEPA 14A1



### Vitreous bonded wheels for surface and outer diameter (OD) grinding

Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
14A1	- 225 - 15 - 5 - 51	B91	WC6VG1	V24	82296053	
14A1	- 250 - 20 - 5 - 76,2	B91	WC6VG1	V24	82303456	

## Grinding wheel shape according to FEPA 1A1

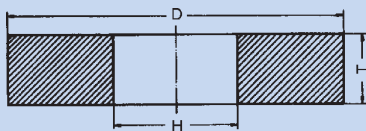


### Vitreous bonded wheels for surface and outer diameter (OD) grinding

Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
1A1	- 250 - 8 - 5 - 51	B91	WC6VG1	V24	82301651	
1A1	- 250 - 15 - 4 - 51	B91	WC6VG1	V24	82288960	

If you require vitreous bonded wheels, please contact us.

## Grinding wheel shape according to 1



### Surface grinding with conventional wheels

Shape	- D - U - H	Specification	ORDER No.	Application
1	- 250 - 25 - 51	WA 463H 5V LGAA	82267148	Hard and soft steel
1	- 300 - 50 - 76,2	WA 461 F 9V LRNC	82267122	Hard and soft steel



### Profile plunge grinding with conventional wheels

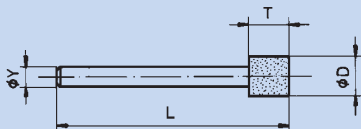
Shape	- D - U - H	Specification	ORDER No.	Application Minimum Corner radius
1	- 250 - 6 - 51	WA 100H 6V LGAA	82266699	0,15 mm (reciprocating)
1	- 250 - 12 - 51	WA 120H 7V LGAA	82266829	0,12 mm (reciprocating)
1	- 250 - 20 - 51	WA 220H 8V LGAA	82267020	0,08 mm (reciprocating)



### Flute grinding with conventional wheels

Shape	- D - U - H	Specification	ORDER No.	Application Minimum Corner radius
1	- 225 - 8 - 51	WA 150 K 8V LGAA	82266943	0,10 mm (easy to dress)

## Grinding pins



Contact address for INDIMANT grinding wheels see page 23.



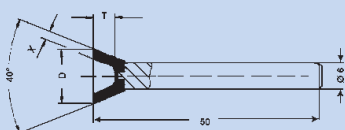
### Internal cylindrical and coordinate grinding (Diamond / CBN)

Shape	- D - T - Y - L	ORDER No. Diamond / D126	ORDER No. CBN / B126	Remarks
1A1W	- 6 - 7 - 6 - 60	82266857	82267712	all electroplated bond
1A1W	- 8 - 10 - 6 - 80	82266864	82267722	
1A1W	- 10 - 10 - 6 - 80	82266867	82267727	
1A1W	- 10 - 10 - 8 - 100	82268045	82268583	
1A1W	- 12 - 10 - 10 - 110	82268051	82268585	
1A1W	- 15 - 10 - 10 - 110	82268069	82268588	

Additional grit sizes, dimensions and bond types (resin, metal, vitreous) deliverable on demand.

A special programme for Hauser- coordinate grinding machine is available.

## Grinding wheel 07B (not FEPA Standard)



## WINTER

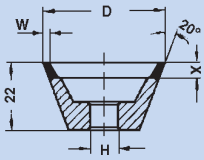
### CBN grinding pins

Shape	- D - T - X - V°	Grit size	Bond	Concentration	ORDER No.	Remarks
2K 07B	- 10 - 5 - 2 - 40	B126	KSS 10N	V240	80705894	
1K 07B	- 12 - 5 - 2 - 40	B126	KSS 10N	V240	80705861	
1K 07B	- 15 - 5 - 2 - 40	B126	KSS 10N	V240	80706144	

#### Application

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

## Grinding wheel 07B (not FEPA Standard)



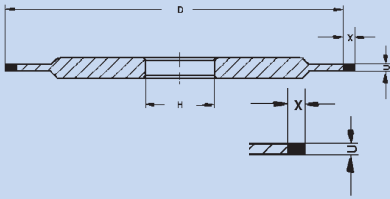
## WINTER CBN grinding pins

Shape	D	W	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
2K 11V2	20	2	5	8	B126	KSS 12N	V180 A	80121526	
K 11V2	30	2	5	8	B126	KSS 12N	V180 H	80107692	
K 11V2	40	2	5	10	B126	KSS 10N	V180 H	80131424	

### Application

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

## Grinding wheel shape according to FEPA 14A1



## WINTER

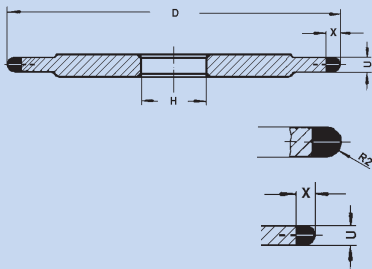
### Diamond grinding wheels

Shape	D	U	X	H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 14A1	75	2	6	20	D64	K-PLUS 888R	C75 A	80128930	
K 14A1	100	2	5	20	D76	K-PLUS 1414N	C75 A	80115832	
					D126	K-PLUS 888R	C75 A	82097077	

### Application

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

## Grinding wheel shape according to FEPA 14F1



## WINTER

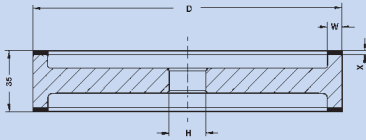
### Diamond grinding wheels

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	80128914	

### Application

For profile grinding of solid carbide tools.

## Grinding wheel shape according to FEPA 9A3



## WINTER

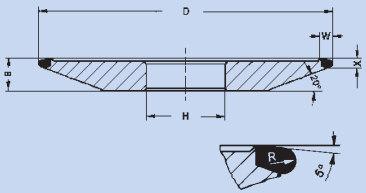
### Diamond grinding wheels

Shape	- D - W - X - T - H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 9A3	- 175 - 5 - 2 - 30 - 20	D46	K-PLUS 888N	C50 A	82119142	
		D64	K-PLUS 888N	C50 A	82093486	
		D126	K-PLUS 888N	C75 A	82095615	
K 9A3	- 175 - 6 - 2 - 35 - 20	D15B	K-PLUS 777J	C31 A	80130217	
K 9A3	- 175 - 8 - 2 - 35 - 20	D46	K-PLUS 888NY	C31 A	80130225	
		D64	K-PLUS 888NY	C31 A	80133093	

#### Application

For grinding carbide-tipped turning tools.

## Grinding wheel 700 (not FEPA Standard)



## WINTER

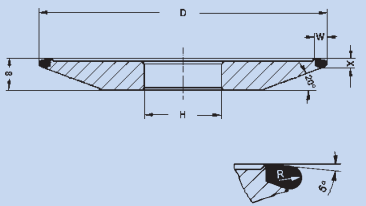
### Diamond grinding wheels

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	80122725	R=1
1K 700	- 100 - 2,2 - 3 - 20	D151	K-PLUS 1414R	C100 A	80116278	R=1
1K 700	- 100 - 4,4 - 5 - 20	D126	K-PLUS 888R	C100 A	80116091	R=2

#### Application

For grinding helical-fluted carbide tools, e.g. on NC controlled tool and cutter grinding machines. Reciprocating and creep-feed grinding. See also page 4 (12V9 wheels).

## Grinding wheel 700 (not FEPA Standard)



## WINTER

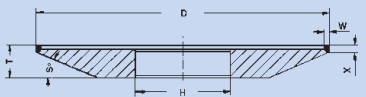
### CBN grinding wheels

Shape	- D - U - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
1K 700	- 75 - 2,2 - 3 - 20	B126	KSS 10N	V180 A	80142035	R=1
		B151	KSS RY	V240 A	82002054	R=1
1K 700	- 100 - 2,2 - 3 - 20	B126	KSS 10N	V180 A	80142043	R=1
1K 700	- 100 - 4,4 - 5 - 20	B126	KSS 920	V180 A	80146548	R=2
		B181	KSS 007N	V180 D	80108778	R=2
1K 700	- 125 - 4,4 - 5 - 20	B126	KSS 920	V180 A	80146556	R=2
		B181	KSS 007N	V180 D	80108948	R=2

#### Application

For grinding helical-fluted HSS tools, e.g. on NC controlled tool and cutter grinding machines. Reciprocating and creep-feed grinding. Very suitable for relief grinding. See also page 8 (12V9 wheels).

## Grinding wheel 222 (not FEPA Standard)



## WINTER

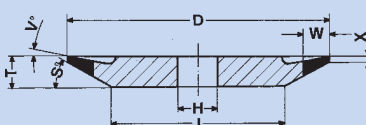
### CBN grinding wheels

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	80137321	bis Modul 6 T=17 S°=20°
1K 222	- 200 - 2 - 3,3 - 50,8	B151	KSS RY	V300 A	80137338	bis Modul 12 T=22 S°=23°

#### Application

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

## Grinding wheel shape according to 4BT9



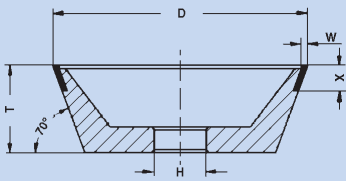
## ID INDIMANT

### 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	82285843	

Contact address for INDIMANT grinding wheels see page 23.

## Grinding wheel shape according to FEPA 11V9



## WINTER

### Diamond grinding wheels

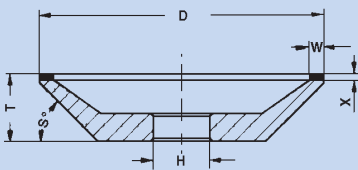
Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
M 11V9	- 95,3 - 3,2 - 9,3 - 20	D91	M-PLUS 789	C50 D	80106096	T=35
		D126	M-PLUS 789	C50 D	80106103	
		D126	M-PLUS 789	C75 D	80106111	
M 11V9	- 125 - 3 - 10 - 20	D126	M-PLUS 789	C75 D	80147828	T=40

#### 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

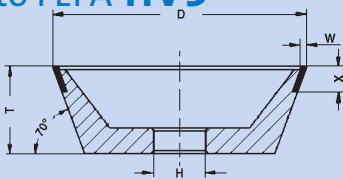
Shape	- D - U - X - S° - H	Grit size	Bond	Concentration	ORDER No.	Remarks
M 12A2	- 75 - 3 - 4 - 45 - 20	D91	M-PLUS 789	C50 A	80106030	T=24
M 12A2	- 100 - 6 - 4 - 45 - 20	D91	M-PLUS 789	C50	80106071	T=27
		D126	M-PLUS 789	C50	80106088	

#### 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



## INDIMANT

### Diamond grinding wheels, Type RESIMET

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
11V9	- 90 - 3 - 6 - 20	D64	RESIMET	C50	82267514	
		D107	RESIMET	C50	82256968	
		D151	RESIMET	C50	82256972	
11V9	- 90 - 3 - 6 - 20	D107	RESIMET	C75	82256970	
		D151	RESIMET	C75	82267533	
11V9	- 125 - 3 - 6 - 20	D64	RESIMET	C50	82277356	
		D107	RESIMET	C50	82267593	
		D151	RESIMET	C50	82267731	

#### 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.

## INDIMANT

### CBN grinding wheels, Typ RESIMET

Shape	- D - W - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
11V9	- 90 - 3 - 6 - 20	B151	RESIMET	V12	82267613	
		B151	RESIMET	V18	82267635	

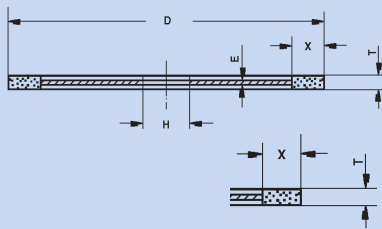
#### Application

For grinding HSS tools.

In dry and wet grinding.

Contact address for INDIMANT grinding wheels see page 23.

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	83423298	Keramik
K 1A1R	- 100	- 1	- 5	- 0,8	- 20	D151	K-PLUS 4821	C100	83421864	Hartmetall
K 1A1R	- 125	- 1	- 5	- 0,8	- 20	D151	K-PLUS 4821	C100	83421872	Hartmetall
K 1A1R	- 150	- 1	- 7	- 0,8	- 20	D151	K-PLUS 4821	C100	83421880	Hartmetall
K 1A1R	- 150	- 1	- 7	- 0,8	- 32	D151	K-PLUS 4821	C100	83423808	Hartmetall
K 1A1R	- 200	- 1,2	- 7	- 0,9	- 30	D151	K-PLUS 4821	C100	83423962	Hartmetall
1BZ 1A1R	- 100	- 0,8	- 5	- 0,6	- 20	D126	BZ309	C45	83402431	Magnet-Werkstoff
1BZ 1A1R	- 150	- 0,7	- 10	- 0,5	- 20	D91	BZ359	C23	83423395	Quarzglas

#### Application

For cutting ceramics, carbide, 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	83431024	
K 1A1R	- 125	- 1	- 5	- 0,8	- 20	B151	KSSRY	V180	83431308	
K 1A1R	- 150	- 1	- 7	- 0,8	- 20	B151	KSSRY	V180	83423038	

#### Application

For cutting HSS.



### Diamond saw blades, Type UNIVEL

Shape	- D	- T	- X	- H	Specification	ORDER No.	Remarks
1A1R	- 101,6	- 1,14	- 6,35	- 20	WD100 PC100	82268514	
1A1R	- 127	- 1,14	- 6,35	- 20	WD100 PC100	82268621	
1A1R	- 152,4	- 1,14	- 6,35	- 20	WD100 PC100	82268625	
1A1R	- 152,4	- 1,59	- 6,35	- 20	WD100 PC100	82268700	
1A1R	- 203,2	- 1,14	- 3,175	- 22	WD100 PC100	82268626	
1A1R	- 203,2	- 1,14	- 3,175	- 51	WD100 PC100	82268637	
1A1R	- 203,2	- 1,59	- 6,35	- 51	WD100 PC100	82268708	
1A8	- 101,6	- 0,51	- -	- 20	WD120 T100N	82268643	
1A8	- 152,4	- 0,76	- -	- 20	WD120 SB100U	82268666	

#### Application

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



### CBN saw blades, Type UNIVEL

Shape	- D	- T	- X	- H	Specification	ORDER No.	Remarks
1A1R	- 203,2	- 1,14	- 6,35	- 20	BZ120 PB100	82268718	

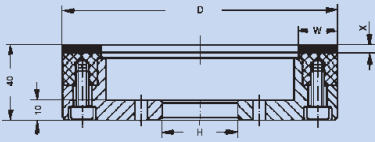
#### Application

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

Contact address for INDIMANT grinding wheels see page 23.



## 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	80142798 80131132 80142198	

#### Application

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

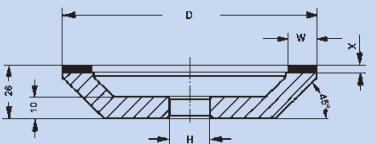
Shape	- D - W - X - U - H	Bond	ORDER No.	Remarks
1BZ 2A2T	- 150 - 20 - 4 - 15 - 112	VFF	80137265	

#### Application

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

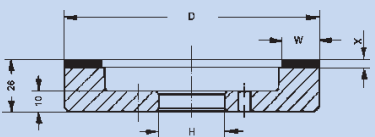
Shape	- D - W - X - S° - H	Bond	ORDER No.	Remarks
1BZ 12A2	- 125 - 15 - 4 - 45 - 20	VFF	80141866	

#### Application

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

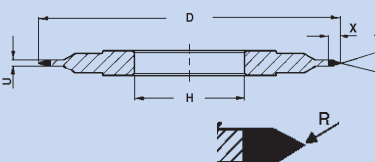
Shape	- D - W - X - H	Bond	ORDER No.	Remarks
1BZ 6A2	- 125 - 20 - 4 - 31,75	VFF	80141858	

#### Application

For Polybloc grinding (polycrystalline diamond)

VFF universal for rough and finish grinding

## Grinding wheel shape according to FEPA 14EA1



## WINTER

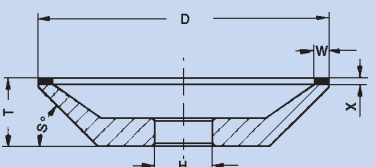
### Diamond grinding wheels

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	80101835	

#### Application

For grinding on optical profile grinding machines, for example DOEBELI OP 125  
Other shapes available on request.

## 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	80112568	

#### Application

Universally suited for all robust applications, e.g. on all steel grinding machines.  
Suitable for dry and wet grinding.

## 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 wheels 37 C602 N5V and 37 C802-15V.

**Order No. 55500081**

Share wheels:

37 C46-N5V **Order No. 55500105**  
37 C602-N5V **Order No. 55500113**  
37 C802-15V **Order No. 55500121**

For grit size:

≤ D/B181  
≥ D/B46  
D/B64 and metal bond



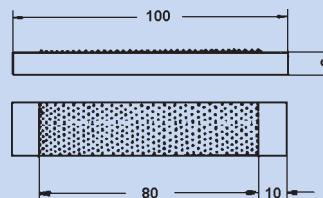
Use dry only, subsequent sharpening with WINTER Stone only if required.

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

**Order No. 80902901**

### WINTER Diamond Dressing Stick

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

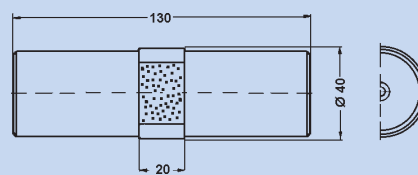


### 1S 44B-40-20 / D301 /S11

**Order No. 80102612**

### WINTER Dressing Cylinder

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



### WINTER-Stone No. 1A (65x65x16)

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

**Order No. 82274714**

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

Universal sharpening stone.

**Order No. 55500024**

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

Cleaning and sharpening vitrified-bond CBN wheels and pins.

**Order No. 55500040**

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

Cleaning and sharpening vitrified-bond CBN wheels and pins.

**Order No. 55500057**

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

Cleaning and sharpening vitrified-bond CBN wheels and pins.

**Order No. 56007267**

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

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

**Order No. 55500065**

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

Comments: see WINTER Stone No. 2

**Order No. 55500154**

## 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	- 1	D15	KUNSTHARZ		81100021	
				D46	KUNSTHARZ		81100038	
				D64	KUNSTHARZ		81100046	
				D91	KUNSTHARZ		81100054	
BZ 11C	- 30	- 9	- 1	D46	BRONZE		81100095	
				D64	BRONZE		81100102	
				D91	BRONZE		81100110	
				D126	BRONZE		81100127	

#### Application

For maintenance of carbide cutting edges.

**INDIMANT-Stone JA No. 150 GV (25x25x150)**

Reinigen und Schärfen keramisch und kunstharz gebundener Schleifscheiben > D64

**Order No. 82267405**

**INDIMANT-Stone JA No. 220 GV (25x25x150)**

Reinigen und Schärfen keramisch und kunstharz gebundener Schleifscheiben

**Order No. 82267408**

**INDIMANT-Stone No. JA 320 GV (25x25x150)**


Reinigen und Schärfen keramisch und kunstharz gebundener Schleifscheiben < D46

**Order No. 82267409**

Contact address for INDIMANT see page 23.

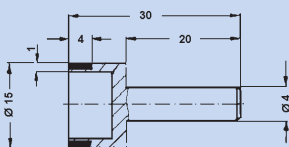
Norbide  
Dressing stick  
**Form 54 B**



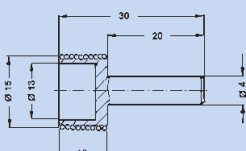
				
<b>NORBIDE Dressing stick</b>				
Shape	- B - C - L	Specification	ORDER No.	Remarks
54 B	- 12 - 8 - 50	37C 280 H V	641878	
<b>Application</b> Zum Abrichten konventioneller Schleifscheiben von Hand.				

For additional processing tasks you also inform himself about NORTON-sharpening ribbons.  
Contact address for NORTON see page 23.

Diamond dressing pins  
**4BZ 07B**



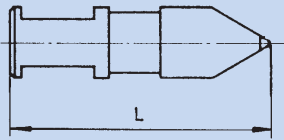
**1S 07B**



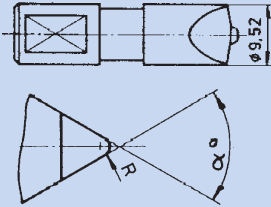
**WINTER**  
Diamond dressing pins

Shape	- D - T - X - H	Grit size	Bond	Concentration	ORDER No.	Remarks
4BZ 07B	- 15 - 4 - 1	D301	BZ 387.1	C135	80707943	
1S 07B	- 15 - 10 - 4 - 30	D426	G825	S33	80707498	
<b>Application</b> For dressing vitrified-bond CBN grinding wheels.						

## Profiling with DIAFORM chisel from INDIMANT



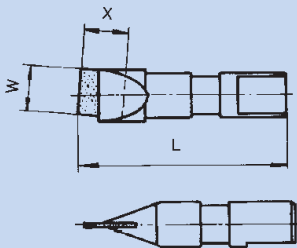
Type	$\alpha$	R	L	Order No.
40/125 L	40	0,125	44,5	<b>82267772</b>
40/250 L	40	0,250	44,5	<b>82267781</b>
40/500 L	40	0,500	44,5	<b>82267789</b>
Roughing Tool L 40				<b>82267810</b>



### 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

## Pre-profiling with DIAFORM blade from INDIMANT

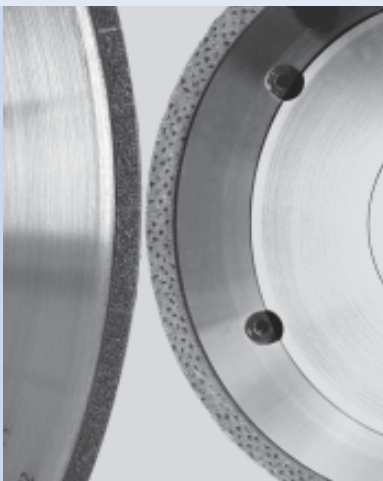


Indication	W	X	R	L	Order No.
1TF FDS90	10	12	0,35	45	<b>55802883</b>

DIAFORM-blade for an economic pre-profiling with DIAFORM trueing device.

Protects the profile diamond against-high wear rate.

## Programme supplement: WINTER-DS-form roll (dressing system) for all CNC-trueing and dressing operations in tool production.



### Standard model

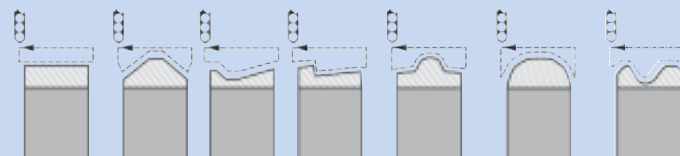
Diameter: 90 bis 160 mm  
175 and 200 mm on demand

Width: 0,5 bis 1,3 mm

Depth: 6 mm



Bore with instruction.

### Generate complex profiles in one operation:



Very high profile stability of the form roll..  
No costs for reprofiling.

## Diamond files from INDIMANT

Type	Cross section	Plated length	Total length	Mandrel diameter	Grit size	Order No.
	mm	mm	mm	mm		
						
N10/70	1,5 x 5,5	70	140	3	D91	<b>82267165</b>
N10/70	1,5 x 5,5	70	140	3	D126	<b>82267196</b>
						
N15/70	3,5 x 3,5	70	140	3	D126	<b>82267201</b>

Additional types, dimensions and grit sizes are listed in a separate brochure. If required, please ask for our special brochure No. 36.



## Diamond paste - polishing from INDIMANT

**Type:** Diamond paste HM, oil soluble  
**Specification:** Grit size 1/4µm – 90 µm  
**Application:** universally applicable for polishing  
 Steel / tungsten carbide / ceramic

**Order No.**

Diamond paste-20-GR-HM-oil soluble 3 µm **82266373**

Diamond paste-20-GR-HM-oil soluble 6 µm **82266378**

Diamond paste-20-GR-HM-oil soluble 9 µm **82266380**



## Diamond lapping and polishing media from

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

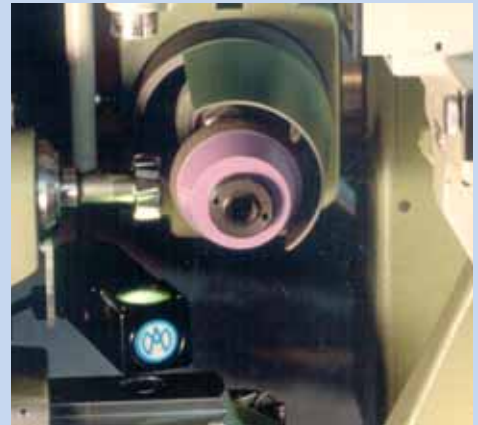
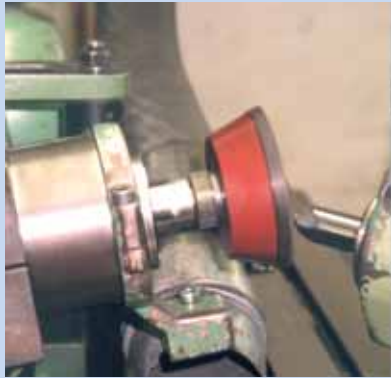
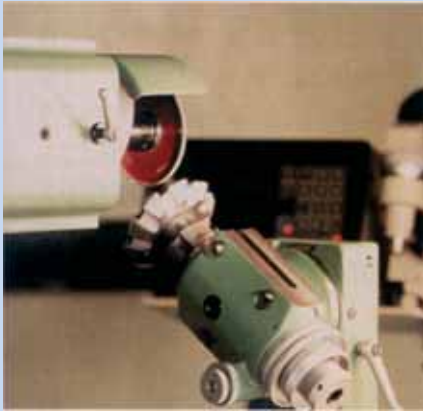
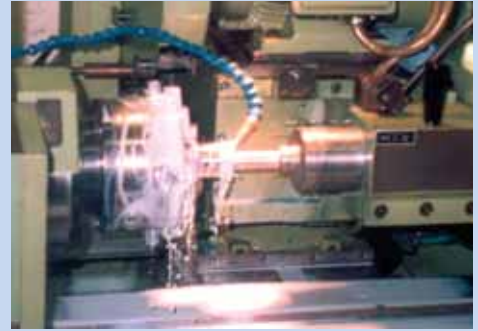
**WINTER-Dioplastol® thinner**

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

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

The complete detailed product range is described in a separate brochure. If required, please ask for our special brochure No. 38

# Application examples for diamond and CBN tools Super Standard programme



For your enquiries please contact:

# WINTER

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Certified to  
DIN EN ISO 9001:2000, No. QS-453 HH;  
DIN EN ISO 14001, No. EM-2129 HH;  
OHSAS 18001, No. S-2984 HH



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DIN EN ISO 14001, No. EM-2129 HH;  
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Certified to  
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No. 70100837



Certified to  
DIN EN ISO 14001 and OHSAS 18001  
No. 71 104 D 023 and 71 116 D 005



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Certified to  
DIN EN ISO 9001:2000  
No. 658030



Certified to  
DIN EN ISO 14001 and OHSAS 18001  
No. 71 104 E 001 and 71 116 E 005



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LG-Nr. 4 / 05 e

