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Innovative grinding technology since 1895

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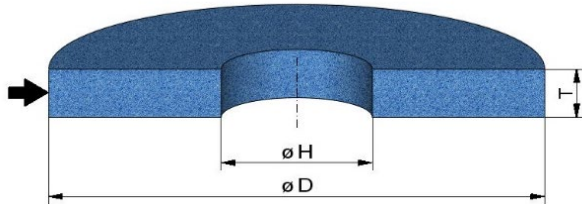


Abrasive code number	Abrasive	Name
10A	Regular aluminum oxide	
20A	Semi-pure aluminum oxide	
24A	Semi-pure aluminum oxide	
35A	Aluminum oxide, white	
38A	Special fused aluminum oxide blend, white	
40A	Special fused aluminum oxide, pink	EK
43A	Special fused aluminum oxide blend, pink	
47A	Special fused aluminum oxide, ruby	
57C	Silicon carbide, green	SiC
131A	Mono crystalline	EKK
137A	Aluminum oxide blend	
140A	Ceramic grain	
148A	Ceramic grain blend	Blue Moon
191A	Shaped ceramic grain	Blue Moon T
199A	Shaped ceramic grain	Blue Moon TZ
200A	Shaped ceramic grain blend	Blue Moon TZ

**Abrasive type:** Aluminum oxide: 35A, 40A, 47A, 131A, 137A | Sintered aluminum oxide: 140A | Silicon carbide: 57C  
**Shape:** Form A  
**Machine type:** Aba, Jung, ELB, G+H, Blohm, and others  
**Information:** For grinding materials that are difficult to machine, we recommend CBN grinding wheels with a ceramic bond



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**RECIPROCATING GRINDING**

Traverse and infeed grinding	Article-No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel	10651	200	20	51	EK	35A	46	H	7	V	44	35-50	Universal
Straight grinding wheel	10652	200	25	51	EK	35A	46	H	7	V	44		Universal
Straight grinding wheel	186594	200	25	51		140A	46	I	12	V	170-30		High alloyed hardened steel
Straight grinding wheel	10233	225	25	51	EK	35A	46	H	7	V	44		Universal
Straight grinding wheel	169856	225	25	51		137A	46	I	10	V	170		Hardened steel
Straight grinding wheel	140723	225	25	51	EKK	131A	46	F	10	V	92		Hardened steel
Straight grinding wheel	186596	225	25	51		47A	46	I	12	V	170		VA, nitriding steel
Straight grinding wheel	186595	225	25	51		140A	46	I	12	V	170-30		High alloyed hardened steel
Straight grinding wheel	186597	225	25	51	SiC	57C	60	I	10	V	159		Stellite, nitriding steel
Straight grinding wheel	10232	250	25	51	EK	35A	46	H	7	V	44		Universal
Straight grinding wheel	186836	250	25	51		140A	46	I	12	V	170-30		High alloyed hardened steel
Straight grinding wheel	10231	250	25	76	EK	35A	46	H	7	V	44		Universal
Straight grinding wheel	186598	250	25	76		140A	46	I	12	V	170-30		High alloyed hardened steel
Straight grinding wheel	21031	250	32	76	EK	35A	46	H	7	V	44		Universal
Straight grinding wheel*	10063	300	50	76	EK	35A	46	H	7	V	44		Universal
Straight grinding wheel*	10666	300	50	76	EK	35A	36	F	10	V	92		Universal
Straight grinding wheel*	10141	300	50	76	EK	40A	46	G	8	V	92		Hardened steel
Straight grinding wheel*	167188	300	50	76		137A	46	I	10	V	170		Hardened steel
Straight grinding wheel*	140724	300	50	76	EKK	131A	46	F	10	V	92		Hardened steel
Straight grinding wheel*	186600	300	50	76		47A	46	I	12	V	170		VA, nitriding steel
Straight grinding wheel*	177406	300	50	76		140A	46	I	12	V	170-30	High alloyed hardened steel	
Straight grinding wheel*	186599	300	50	76	SiC	57C	60	I	10	V	159	Stellite, nitriding steel	

\* with 155 x 10/10 recess on both sides

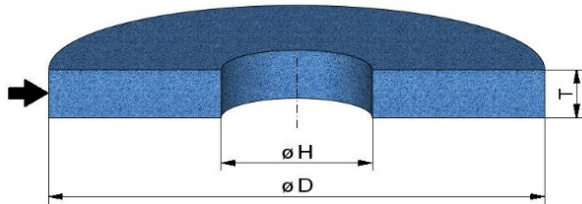


## SURFACE GRINDING - FORM 1

**Abrasive type:** Aluminum oxide: 35A, 40A, 47A, 131A, 137A | Sintered aluminum oxide: 140A  
**Shape:** Form A  
**Machine type:** Aba, Jung, ELB, G+H, Blohm, u.a.  
**Information:** For grinding materials that are difficult to machine, we recommend CBN grinding wheels with a ceramic bond



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### RECIPROCATING GRINDING

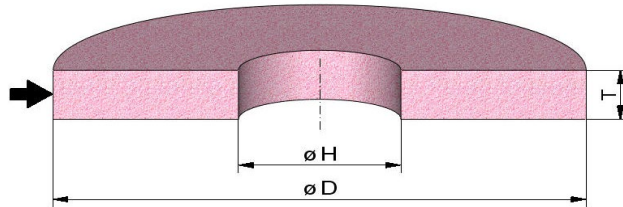
Traverse and infeed grinding	Article-No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel	90920	350	40	127	EK	35A	46	H	7	V	44	35-50	Universal
Straight grinding wheel	186591	350	40	127		140A	46	I	12	V	170-30		High alloyed hardened steel
Straight grinding wheel	10100	400	50	127	EK	35A	46	H	7	V	44		Universal
Straight grinding wheel	10109	400	50	127	EK	40A	46	G	8	V	92		Hardened steel
Straight grinding wheel	181825	400	50	127		137A	46	I	10	V	170		Hardened steel
Straight grinding wheel	140725	400	50	127	EKK	131A	46	F	10	V	92		Hardened steel
Straight grinding wheel	162945	400	50	127		47A	46	I	12	V	170		VA, nitriding steel
Straight grinding wheel	186592	400	50	127		140A	46	I	12	V	170-30		High alloyed hardened steel
Straight grinding wheel	163916	400	100	127		35A	46	J	13	V	176		Universal
Straight grinding wheel	173948	400	100	127		140A	46	J	13	V	170-30		High alloyed hardened steel

## SURFACE GRINDING - FORM 1

**Abrasive type:** Aluminum oxide: 40A  
**Shape:** Form A  
**Machine type:** Jung, ELB, G+H and others



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### PROFILE- AND GROOVE GRINDING

Diaform grinding	Article-No.	$\varnothing$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel	10261	250	32	51	EK	40A	120	I	8	V	92	35-50	

### FLUTE GRINDING

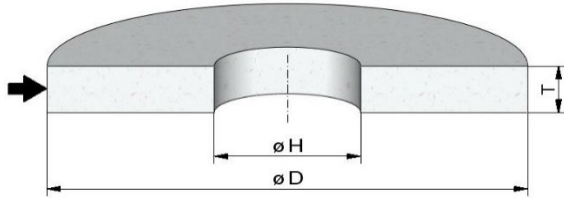
Flute grinding	Article-No.	$\varnothing$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel	166491	200	20	51	EK	40A	120	K	8	V	170	35-50	Universal
Straight grinding wheel	166493	300	20	76	EK	40A	120	K	8	V	170		Universal

**EXTERNAL CYLINDRICAL GRINDING - GRINDING BETWEEN CENTERS - FORM 1**

**Abrasive type:** Aluminum oxide: 35A, 47A, 137A | Sintered aluminum oxide: 140A | Silicon carbide: 57C  
**Shape:** Form A, or of your choice  
**Machine type:** Studer, Kellenberger, Tacchella, and others



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**TRAVERSE AND INFEEED GRINDING**

Grinding between centers	Article-No.	$\varnothing$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel	186578	400	30	127		35A	80	I	8	V	176	35-50	Universal
Straight grinding wheel	186580	400	30	127		137A	80	I	8	V	170		Hardened Steel
Straight grinding wheel	186579	400	30	127	SiC	57C	80	I	8	V	159		Stellite, nitriding steel
Straight grinding wheel	186581	400	30	127		140A	80	I	10	V	174-30		Universal C60-HSS
Straight grinding wheel	186582	400	50	127		35A	80	I	8	V	176		Universal
Straight grinding wheel	186584	400	50	127		137A	80	I	8	V	170		Hardened Steel
Straight grinding wheel	186586	400	50	127		47A	70	I	12	V	170		VA, nitriding steel
Straight grinding wheel	186583	400	50	127	SiC	57C	80	I	8	V	159		Stellite, nitriding steel
Straight grinding wheel	186585	400	50	127		140A	80	I	10	V	174-30		Universal C60-HSS
Straight grinding wheel	169945	500	50	203		35A	80	I	8	V	176		Universal
Straight grinding wheel	186588	500	50	203		137A	80	I	8	V	170		Hardened Steel
Straight grinding wheel	186590	500	50	203		47A	70	I	12	V	170		VA, nitriding steel
Straight grinding wheel	186587	500	50	203	SiC	57C	80	I	8	V	159		Stellite, nitriding steel
Straight grinding wheel	186589	500	50	203		140A	80	I	10	V	174-30		Universal C60-HSS

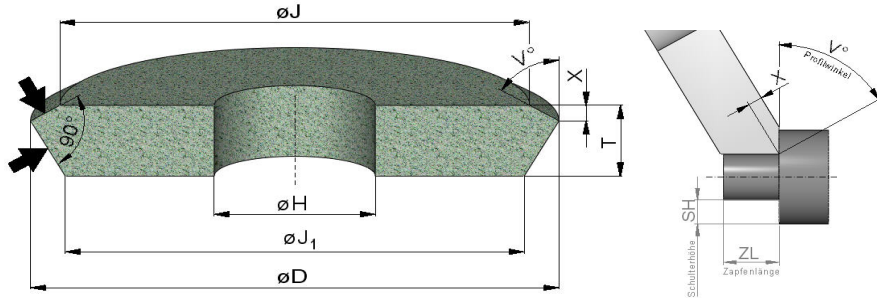
**EXTERNAL CYLINDRICAL GRINDING - GRINDING BETWEEN CENTERS - FORM 1**

**Abrasive type:**  
**Shape:**  
**Machine type:**  
**Information:**

**Aluminum oxide: 35A**  
**Form N - V and X after specification**  
**Studer, Kellenberger, Tacchella, u.a.**  
**For grinding materials that are difficult to machine, we recommend CBN grinding wheels with a ceramic bond**



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**ANGULAR INFED GRINDING**

External grinding between centers	Article-No.	$\varnothing$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel	186666	500	63	127		35A	80/1	I	14	V	176	35-50	Universal
Straight grinding wheel	186667	500	63	127		35A	120	I	14	V	176		Universal, fine
Straight grinding wheel	186668	500	63	203		35A	80/1	I	14	V	176		Universal
Straight grinding wheel	186669	500	63	203		35A	120	I	14	V	176		Universal, fine
Straight grinding wheel	160386	500	80	203		35A	80/1	I	14	V	176		Universal
Straight grinding wheel	160930	500	80	203		35A	120	I	14	V	176		Universal, fine

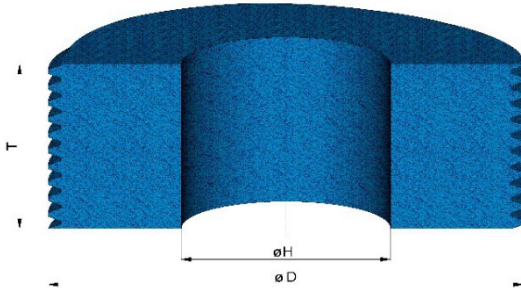
## GEAR GRINDING - FORM A

Abrasive type:

Aluminum oxide: 43A | Sintered aluminum oxide 140A, 148A Blue Moon, 199A Blue Moon TZ

Standard pressure angle PA:

12°, 14,5°, 15°, 16°, 17°, 19°, 20°, 21°, 22°



Modulus:

1- 12 depending on PA

Number of starts:

Maximum 9

Profil:

Profiled or unprofiled



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### CONTINUOUS GENERATING GRINDING

Grinding worm wheels		Article-No.	ø mm	Width mm	Bore mm	Name	Grain type	Grain size	Hardness	Porosity	Bonding	Bonding type	vc, max. [m/s]
Reishauer	Grinding worm	185105	275	125	160		43A	120	I	12	V	170	80
	Grinding worm	165143	275	125	160	Blue Moon	148A	80	J	11	V	174-30	
	Grinding worm	174418	275	125	160	Blue Moon	148A	120	J	11	V	174-30	
	Grinding worm	183466	275	160	160		43A	120	I	12	V	170	
	Grinding worm	156067	275	160	160	Blue Moon	148A	80	J	11	V	174-30	
	Grinding worm	154998	275	160	160	Blue Moon	148A	120	J	11	V	174-30	
	Grinding worm	186214	275	160	160	Blue Moon TZ	199A	120	J	11	V	174-50	
	Grinding worm	186215	300	145	160		43A	120	I	12	V	170	
	Grinding worm	186216	300	145	160	Blue Moon	148A	80	J	11	V	174-30	
KAPP NILES	Grinding worm	155113	250	125	145	Blue Moon	148A	120	J	11	V	174-30	80
	Grinding worm	176305	280	160	115		43A	120	I	12	V	170	
	Grinding worm	175263	280	160	115		140A	80	H	13	V	170-60	
	Grinding worm	156643	280	160	115	Blue Moon	148A	80	J	11	V	174-30	
	Grinding worm	159893	280	160	115	Blue Moon	148A	120	J	11	V	174-30	
	Grinding worm	165131	300	160	145	Blue Moon	148A	80	J	11	V	174-30	
	Grinding worm	177044	300	160	145	Blue Moon	148A	120	J	11	V	174-30	
	Grinding worm	182782	300	160	145	Blue Moon TZ	199A	120	J	11	V	174-50	
	Grinding worm	186220	300	200	115	Blue Moon	148A	80	J	11	V	174-30	
	Grinding worm	178873	300	200	115		140A	80	H	13	V	170-60	
	Grinding worm	186221	300	200	115	Blue Moon TZ	199A	120	J	11	V	174-50	
	Grinding worm	186222	320	125	115		43A	120	I	12	V	170	
	Grinding worm	186223	320	125	115	Blue Moon	148A	80	J	11	V	174-30	





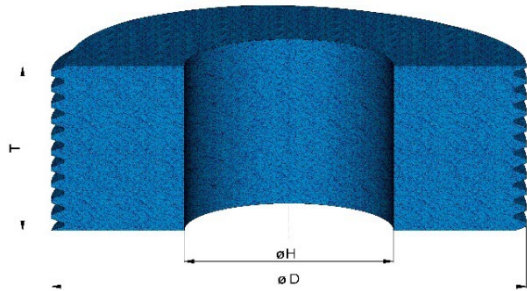
## GEAR GRINDING - FORM A

Abrasive type:

Aluminum oxide: 43A | Sintered aluminum oxide: 140A, 148A Blue Moon, 199A Blue Moon TZ

Standard pressure angle PA:

12°, 14,5°, 15°, 16°, 17°, 19°, 20°, 21°, 22°



Modulus:

1- 12 depending on PA

Number of starts:

Maximum 9

Profil:

Profiled or unprofiled



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### CONTINUOUS GENERATING GRINDING

Grinding worm wheels	Article-No.	ø mm	Width mm	Bore mm	Name	Grain type	Grain size	Hardness	Porosity	Bonding	Bonding type	vc, max. [m/s]	
Liebherr	Grinding worm	171829	240	200		140A	80	I	12	V	170-30	63	
	Grinding worm	186227	240	200	76,2	Blue Moon	148A	120	J	11	V		174-30
	Grinding worm	186226	240	200	76,2	Blue Moon TZ	199A	120	J	11	V		174-50
	Grinding worm	186228	240	230	110		140A	80	I	12	V		170-30
	Grinding worm	186229	240	230	110	Blue Moon	148A	80	J	11	V		174-30
	Grinding worm	186230	240	230	110	Blue Moon TZ	199A	120	J	11	V		174-50
	Grinding worm	171045	320	230	110		140A	80	I	12	V		170-30
	Grinding worm	186231	320	230	110		140A	80	H	13	V		170-60
	Grinding worm	159290	320	230	110	Blue Moon	148A	80	J	11	V		174-30
	Grinding worm	186232	320	230	110	Blue Moon TZ	199A	120	J	11	V		174-50

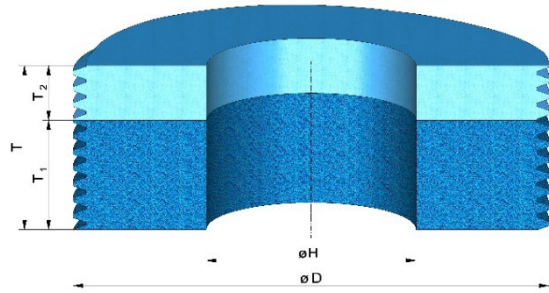
## GEAR GRINDING - FORM A

Abrasive type:

Aluminum oxide: 35A | Sintered aluminum oxide: 148A Blue Moon

Standard pressure angle PA:

12°, 14,5°, 15°, 16°, 17°, 19°, 20°, 21°, 22°



Modulus:

1- 12 depending on PA

Number of starts:

Maximum 9

Profil:

Profiled or unprofiled



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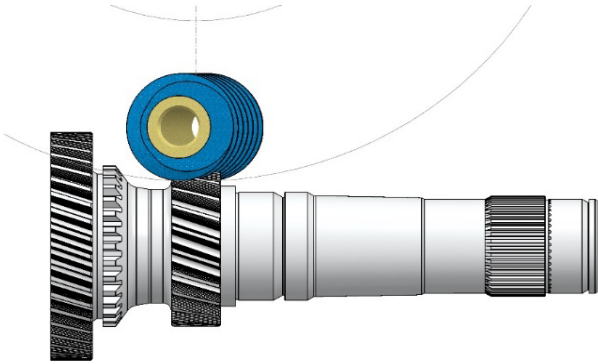
### CONTINUOUS GENERATING GRINDING

Compound grinding worm wheels		Article- No.	ø mm	Width mm	Bore mm	Name	Grain type	Grain size	Hard- ness	Porosity	Bonding	Bonding type	vc, max. [m/s]
Reishauer	Compound grinding worm Finegrinding	170580	275	160 (100/60)	160	Blue Moon	148A 35A	80 320	J G	11 10	V V	174-30 176	80
	Compound grinding worm Polishing	186270	275	160 (100/60)	160	Blue Moon	148A 35A	80 600	J P	11 6	V P	174-30 122	
	Compound grinding worm Polishing	186266	275	160 (100/60)	160	Blue Moon	148A 35A	120 600	J P	11 6	V P	174-30 122	
KAPP NILES	Compound grinding worm Finegrinding	186292	280	160 (105/55)	115	Blue Moon	148A 35A	80 320	J G	11 10	V V	174-30 176	80
	Compound grinding worm Polishing	186275	280	160 (105/55)	115	Blue Moon	148A 35A	80 600	J Q	11 6	V P	174-30 112	
	Compound grinding worm Polishing	180757	280	160 (105/55)	115	Blue Moon	148A 35A	120 600	J Q	11 6	V P	174-30 112	
	Compound grinding worm Polishing	186281	300	160 (105/55)	145	Blue Moon	148A 35A	80 600	J Q	11 6	V P	174-30 112	
	Compound grinding worm Polishing	180759	300	160 (105/55)	145	Blue Moon	148A 35A	120 600	J Q	11 6	V P	174-30 112	
Liebherr	Compound grinding worm Polishing	183019	240	230 (150/80)	110	Blue Moon	148A 35A	80 600	J P	11 6	V P	174-30 122	80
	Compound grinding worm Polishing	186286	240	230 (150/80)	110	Blue Moon	148A 35A	120 600	J P	11 6	V P	174-30 122	

## GEAR GRINDING - FORM A

Abrasive type:  
Standard pressure angle PA:

Aluminum oxide: 35A | Sintered aluminum oxide: 148A Blue Moon, 199A Blue Moon TZ  
12°, 14,5°, 15°, 16°, 17°, 19°, 20°, 21°, 22°



Modulus:  
Number of starts:  
Profil:

1- 12 depending on PA  
Maximum 9  
Profiled or unprofiled



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### KONTINUIERLICHES WÄLZSCHLEIFEN

Grinding worm wheels for grinding of interfering contours		Article- No.	ø mm	Width mm	Bore mm	Name	Grain type	Grain size	Hard- ness	Porosity	Bonding	Bonding type	vc, max. [m/s]
KAPP NILES	Grinding worm	186218	110	180	34	Blue Moon	148A	80	J	11	V	174-30	80
	Grinding worm	179182	110	180	34	Blue Moon	148A	120	J	11	V	174-30	
	Compound grinding worm Polishing	186279	110	180 (125/55)	34	Blue Moon	148A 35A	80 600	J Q	11 6	V P	174-30 112	
	Compound grinding worm Polishing	180758	110	180 (125/55)	34	Blue Moon	148A 35A	120 600	J Q	11 6	V P	174-30 112	
Liebherr	Grinding worm	186225	120	200	40	Blue Moon	148A	120	J	11	V	174-30	63
	Grinding worm	186224	120	200	40	Blue Moon TZ	199A	120	J	11	V	174-50	

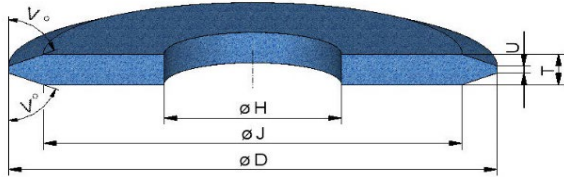
## PROFILE GRINDING - FORM 1

**Abrasive type:**  
**Shape:**  
**Machine type:**

Aluminum oxide: 35A | Sintered aluminum oxide: 140A, 191A Blue Moon T, 200A Blue Moon TZ  
Form E, pre-profiled to customer requirements  
Höfler, Klingelberg, Gleason, KAPP NILES, Reform, and others



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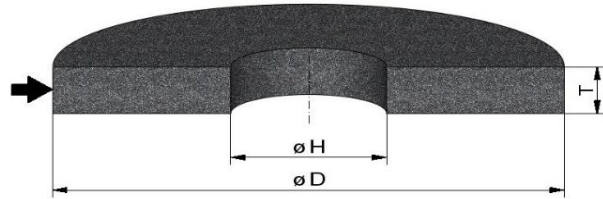


### DISCONTINUOUS GENERATING GRINDING & PROFILE GRINDING

Profile grinding wheels	Article-No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application	
Profile grinding wheel	185608	200	20	76,2		140A	80	H	13	V	174-60	50	Small modulus	
Profile grinding wheel	186140	350	40	127		140A	46	I	10	V	174-30		50	Small, medium modulus
Profile grinding wheel	186141	400	63	127		140A	46	I	10	V	174-30			
Profile grinding wheel	186142	350	40	127		140A	60	I	10	V	174-30			
Profile grinding wheel	186143	400	63	127		140A	60	I	10	V	174-30			
Profile grinding wheel	170086	350	40	127		35A	80	I	10	V	170			
Profile grinding wheel	159540	400	63	127		35A	80	I	10	V	170			
Profile grinding wheel	186144	350	40	127		140A	80	I	10	V	174-30			
Profile grinding wheel	186145	400	63	127		140A	80	I	10	V	174-30			
Profile grinding wheel	186146	350	40	127		140A	100	I	10	V	174-30			
Profile grinding wheel	186147	400	63	127		140A	100	I	10	V	174-30			
Profile grinding wheel	186148	350	40	127	Blue Moon T	191A	80	I	14	V	164-50			
Profile grinding wheel	186149	400	63	127	Blue Moon T	191A	80	I	14	V	164-50			
Profile grinding wheel	179175	350	40	127	Blue Moon TZ	200A	60	I	14	V	164-75			
Profile grinding wheel	186150	400	63	127	Blue Moon TZ	200A	60	I	14	V	164-75			

## BENCH GRINDER AND FLOOR STAND GRINDER WHEELS - FORM 1

**Abrasive type:** Aluminum oxide: 10A  
**Shape:** Form A, straight grinding wheel  
**Machine type:** Bench grinder



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### TOOL GRINDING

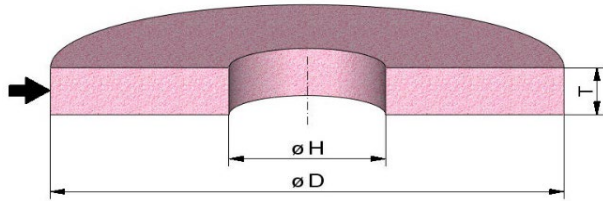
	Article- No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application	
Straight grinding wheel <sup>1</sup>	90911	150	20	32		10A	36	P	3	V	11	35	Alloyed and unalloyed steel	
Straight grinding wheel <sup>1</sup>	10053	150	20	32		10A	60	N	5	V	12			
Straight grinding wheel <sup>2</sup>	21034	175	25	32		10A	36	P	3	V	11			
Straight grinding wheel <sup>2</sup>	10583	175	25	32		10A	80	N	5	V	12			
Straight grinding wheel <sup>2</sup>	10036	175	32	32		10A	36	P	3	V	11			
Straight grinding wheel <sup>2</sup>	91260	200	25	32		10A	36	P	3	V	11			
Straight grinding wheel <sup>2</sup>	10567	200	25	32		10A	80	N	5	V	12			
Straight grinding wheel <sup>2</sup>	10037	200	32	32		10A	36	P	3	V	11			
Straight grinding wheel <sup>2</sup>	10170	200	32	32		10A	60	N	5	V	12			
Straight grinding wheel	127685	250	40	51		10A	60	N	5	V	12			
Straight grinding wheel <sup>3</sup>	10592	300	40	76		10A	24	Q	3	V	11			
Straight grinding wheel <sup>3</sup>	10587	300	40	51		10A	36	P	3	V	11			
Straight grinding wheel <sup>3</sup>	92095	300	40	51		10A	46	O	5	V	12			50
Straight grinding wheel <sup>3</sup>	10590	300	40	51		10A	60	N	5	V	12			35
Straight grinding wheel	10601	400	50	127		10A	60	N	5	V	12			

2) Also available with 20 / 25 / 51 mm bore or optionally with reducing bushings

3) Also available with a 125 x 19 mm recess on one side (ISO form 5)

## BENCH GRINDER AND FLOOR STAND GRINDER WHEELS - FORM 1

**Abrasive type:** Aluminum oxide: 40A  
**Shape:** Form A, straight grinding wheel  
**Machine type:** Bench grinder



Innovative grinding technology since 1895

### TOOL GRINDING

	Article- No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel <sup>1</sup>	90969	150	20	32		40A	46	M	5	V	13	35	Alloyed and unalloyed steel
Straight grinding wheel <sup>1</sup>	100995	150	20	32		40A	60	M	5	V	13		
Straight grinding wheel <sup>1</sup>	10196	150	20	32		40A	80	M	5	V	13		
Straight grinding wheel <sup>2</sup>	10219	175	25	32		40A	46	M	5	V	13	40	
Straight grinding wheel <sup>2</sup>	118379	175	25	32		40A	60	M	5	V	13		
Straight grinding wheel <sup>2</sup>	10194	175	25	32		40A	80	M	5	V	13	35	
Straight grinding wheel <sup>2</sup>	10199	175	32	32		40A	60	M	5	V	13		
Straight grinding wheel <sup>2</sup>	101485	175	32	32		40A	80	M	5	V	13		
Straight grinding wheel <sup>2</sup>	92396	200	25	32		40A	46	M	5	V	13		
Straight grinding wheel <sup>2</sup>	91681	200	25	32		40A	60	M	5	V	13		
Straight grinding wheel <sup>2</sup>	10190	200	25	32		40A	80	M	5	V	13		
Straight grinding wheel <sup>2</sup>	10214	200	32	32		40A	46	M	5	V	13		
Straight grinding wheel <sup>2</sup>	10620	200	32	32		40A	60	M	5	V	13		
Straight grinding wheel <sup>2</sup>	10192	200	32	32		40A	80	M	5	V	13		
Straight grinding wheel <sup>1</sup>	10210	250	32	51		40A	46	M	5	V	13		
Straight grinding wheel <sup>1</sup>	91261	250	32	51		40A	60	M	5	V	13		
Straight grinding wheel <sup>3+4</sup>	10209	300	40	51		40A	46	M	5	V	13		
Straight grinding wheel <sup>3+4</sup>	10206	300	40	51		40A	60	M	5	V	13		

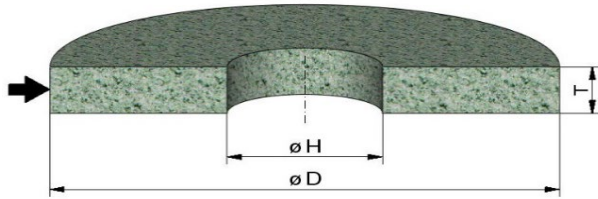
1) Also available with 20 / 25 mm bore

1) Also available with 20 / 25 / 51 mm bore

3) Also available with 76 mm bore or optionally with reducing bushings

4) Also available with a 125 x 19 mm recess on one side (ISO form 5)

**Abrasive type:** Silicon carbide: 57C  
**Shape:** Form A, straight grinding wheel  
**Maschinentyp:** Bench grinder



Innovative grinding technology since 1895

**TOOL GRINDING**

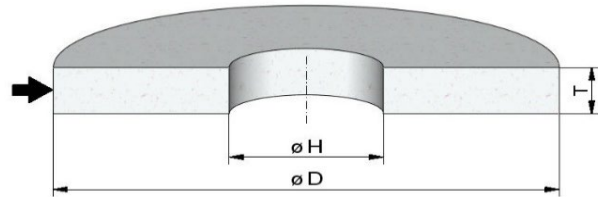
	Article- No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel <sup>1</sup>	91446	125	20	32	SiC	57C	80	I	5	V	53	35	Carbide Tools
Straight grinding wheel <sup>1</sup>	23282	150	20	32	SiC	57C	80	I	5	V	53		
Straight grinding wheel <sup>2</sup>	91281	150	25	32	SiC	57C	60	J	4	V	53		
Straight grinding wheel <sup>2</sup>	100190	150	25	32	SiC	57C	80	I	5	V	53		
Straight grinding wheel <sup>2</sup>	92686	175	25	32	SiC	57C	60	J	4	V	53		
Straight grinding wheel <sup>2</sup>	10023	175	25	32	SiC	57C	80	I	5	V	53		
Straight grinding wheel <sup>2</sup>	10249	175	32	32	SiC	57C	60	J	4	V	53		
Straight grinding wheel <sup>2</sup>	10020	175	32	32	SiC	57C	80	I	5	V	53		
Straight grinding wheel <sup>2</sup>	94133	200	25	32	SiC	57C	46	J	4	V	53		
Straight grinding wheel <sup>2</sup>	91486	200	25	32	SiC	57C	60	J	4	V	53		
Straight grinding wheel <sup>2</sup>	100461	200	25	32	SiC	57C	80	I	5	V	53		
Straight grinding wheel <sup>2</sup>	90852	200	32	32	SiC	57C	60	J	4	V	53		
Straight grinding wheel <sup>2</sup>	10085	200	32	32	SiC	57C	80	I	5	V	53		
Straight grinding wheel <sup>2</sup>	10138	250	32	32	SiC	57C	80	I	5	V	53		
Straight grinding wheel <sup>3+4</sup>	10238	300	40	51	SiC	57C	60	J	4	V	53		
Straight grinding wheel <sup>3+4</sup>	10135	300	40	51	SiC	57C	80	I	5	V	53		

- 1) Also available with 20 / 25 mm bore
- 2) Also available with 20 / 25 / 51 mm bore
- 3) Also available with 76 mm bore or optionally with reducing bushings
- 4) Also available with a 125 x 19 mm recess on one side (ISO form 5)



## BENCH GRINDER AND FLOOR STAND GRINDER WHEELS - FORM 1

**Abrasive type:** Aluminum oxide: 35A  
**Shape:** Form A, straight grinding wheel  
**Machine type:** Bench grinder



Innovative grinding technology since 1895

### TOOL GRINDING

	Article- No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel <sup>1</sup>	96128	125	25	32		35A	80	I	6	V	92	35	Woodworking Tools
Straight grinding wheel <sup>1</sup>	93144	150	20	32		35A	46	J	6	V	92		
Straight grinding wheel <sup>1</sup>	10148	150	20	32		35A	60	K	6	V	92		
Straight grinding wheel <sup>2</sup>	91455	200	25	32		35A	46	J	6	V	92		
Straight grinding wheel <sup>2</sup>	91550	200	25	32		35A	60	K	6	V	92		
Straight grinding wheel <sup>2</sup>	10045	200	25	32		35A	80	I	6	V	92		
Straight grinding wheel <sup>2</sup>	93871	200	32	32		35A	60	K	6	V	92		

1) Also available with 20 / 25 mm bore

2) Also available with 20 / 25 / 51 mm bore or optionally with reducing bushings



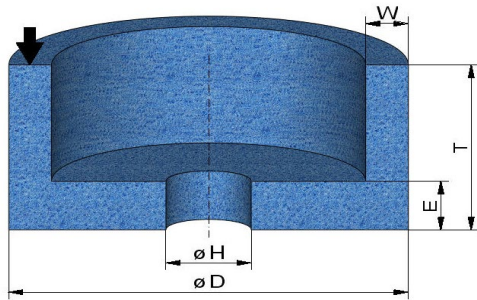
## CUP GRINDING WHEELS - STRAIGHT - FORM 6

Abrasive type:  
Shape:

Aluminum oxide: 35A | Sintered aluminum oxide: 140A | Silicon carbide: 57C  
D-Cup, cylindrical



Innovative grinding technology since 1895



### TURNING, MILLING, DRILLING TOOLS

	Article-No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Cup grinding wheel <sup>1</sup>	47193	80	40	20		35A	54	I	6	V	92	32	Universal medium
Cup grinding wheel <sup>1</sup>	10118	100	50	20		35A	46	I	6	V	92		Universal rough
Cup grinding wheel <sup>1</sup>	10119	100	50	20		35A	54	I	6	V	92		Universal medium
Cup grinding wheel	47912	100	50	20		35A	70/90	I	6	V	92		Universal medium
Cup grinding wheel <sup>1</sup>	10121	100	50	20		35A	80	I	5	V	13		Universal fine
Cup grinding wheel	181102	100	50	20		140A	54	I	8	V	170-30		High alloyed hardened steel
Cup grinding wheel	48152	100	50	20		57C	80	I	5	V	53		Stellite
Cup grinding wheel <sup>1</sup>	47572	125	63	32		35A	46	I	6	V	92		Universal rough
Cup grinding wheel <sup>1</sup>	47568	125	63	32		35A	54	I	6	V	92		Universal medium
Cup grinding wheel <sup>1</sup>	47202	125	63	32		35A	80	I	5	V	13		Universal fine
Cup grinding wheel	178761	125	63	32		140A	54	I	8	V	170-30		High alloyed hardened steel
Cup grinding wheel <sup>1</sup>	17972	150	80	32		35A	54	I	6	V	92		Universal medium
Cup grinding wheel	173723	150	80	32		140A	54	I	8	V	170-30		High alloyed hardened steel

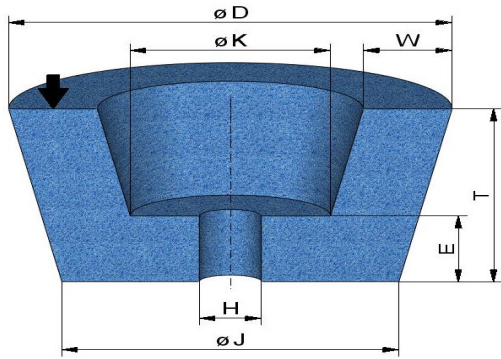
1) Also available with edge hardening 22 (improves the edge retention of the cup wheels)

Abrasive type:  
Shape:

Aluminum oxide: 35A | Sintered aluminum oxide: 140A  
E-CUP, tapered



Innovative grinding technology since 1895



TURNING, MILLING, DRILLING TOOLS

	Article- No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Cup grinding wheel <sup>1+2</sup>	10165	80	32	20		35A	54	I	6	V	92	32	Universal medium
Cup grinding wheel <sup>1+3</sup>	46721	100	40	20		35A	54	I	6	V	92		Universal medium
Cup grinding wheel <sup>1+4</sup>	10178	125	45	20		35A	54	I	6	V	92		Universal medium
Cup grinding wheel <sup>1+4</sup>	178696	125	45	20		140A	54	I	8	V	170-30		High alloyed hardened steel
Cup grinding wheel <sup>1+5</sup>	10179	150	50	32		35A	54	I	6	V	92		Universal medium
Cup grinding wheel <sup>1+5</sup>	174730	150	50	32		140A	54	I	8	V	170-30		High alloyed hardened steel

1) Also available with edge hardening 22 (improves the edge retention of the cup wheels)

2) E 80 DIN 69149

3) E 100 ISO 11

4) E 125 DIN 69149

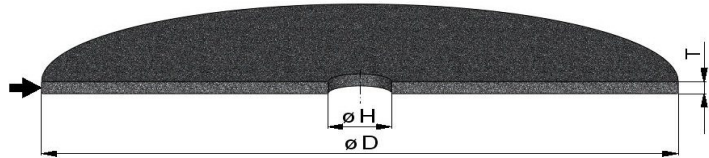
5) E 150 DIN 69149



**CUT-OFF DISCS - FORM 41**

Abrasive type:  
Shape:

Aluminum oxide: 10A  
Form A



Innovative grinding technology since 1895

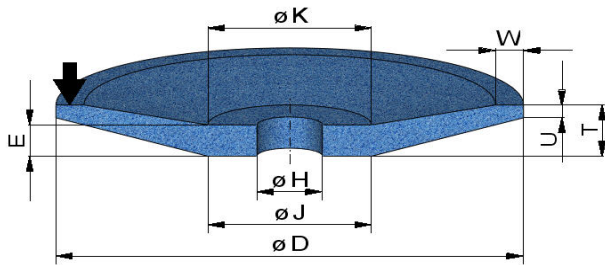
**FOR CUTTING OF STYLUSUS**

	Article- No.	$\varnothing$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Cutting disc	10152	100	1	20		10A	60	O		B	20		

## DISH GRINDING WHEELS - FORM 12

Abrasive type:  
Shape:

Aluminum oxide: 40A | Sintered aluminum oxide 140A  
Form 12 (B-Cup)



Innovative grinding technology since 1895

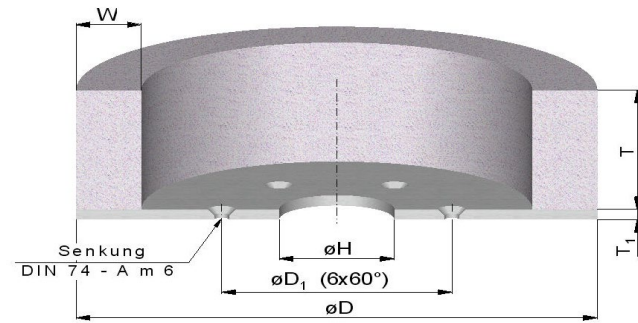
### TURNING AND MILLING TOOLS

	Article- No.	$\varnothing$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Dish grinding wheel	10293	125/61	13/3,2	32		40A	60	J	5	V	13		Universal
Dish grinding wheel	180365	125/61	13/3,2	32		140A	60	I	6	V	196-50		High alloyed hardened steel
Dish grinding wheel	22581	150/66	16/3,2	32		40	60	J	5	V	13		Universal
Dish grinding wheel	173767	150/66	16/3,2	32		140A	54	K	6	V	170-30		High alloyed hardened steel

## DRILL GRINDING - FORM 5

Abrasive type:  
Shape:  
Machine type:

Aluminum oxide: 35A  
Form A  
Wedevag, Oliver



Innovative grinding technology since 1895

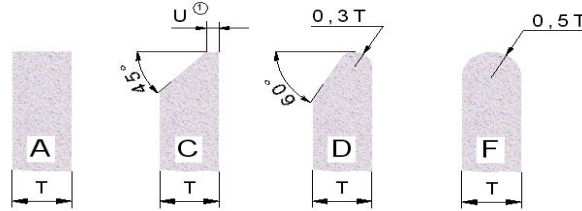
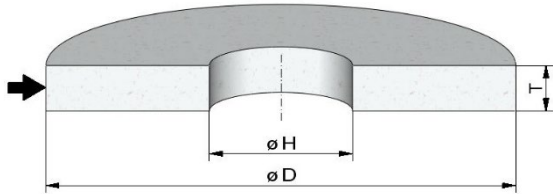
### DRILL GRINDING

	Article- No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Grinding wheel glued on carrier	24713	229	50	125		35A	54	M	3	V	13		Universal - Wedevag
Grinding wheel glued on carrier	24884	229	50	125		35A	54	M	3	V	13		Universal - Oliver

## SAW SHARPENING GRINDING WHEELS - FORM 1

Abrasive type:  
Shape:

Aluminum oxide: 35A  
Form A and all other edge shapes



Innovative grinding technology since 1895

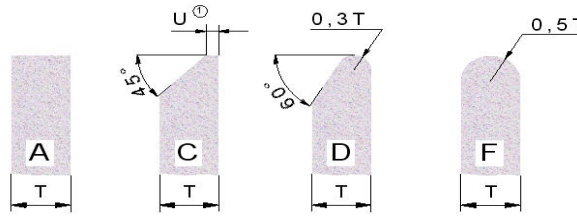
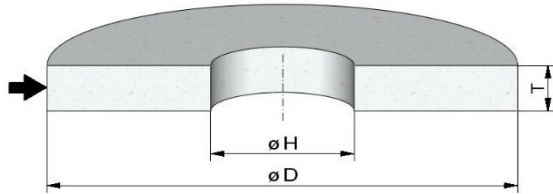
### SHARPENING OF SAW BLADES FOR WOODWORKING

	Article- No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application	
Straight grinding wheel	10470	150	4	25		35A	60	M	6	V	92	35	Gatter, Bandsäge, universal	
Straight grinding wheel	66274	150	6	25		35A	60	M	6	V	92			
Straight grinding wheel	66770	150	8	25		35A	60	M	6	V	92			
Straight grinding wheel	10458	150	10	32		35A	46	J	6	V	94			
Straight grinding wheel	71091	150	10	25		35A	46	J	6	V	94		CV universal	
Straight grinding wheel	699297	200	4	32		35A	60	M	6	V	92		40	Gatter, Bandsäge, universal
Straight grinding wheel	10465	200	6	32		35A	60	M	6	V	92			
Straight grinding wheel	66181	200	8	32		35A	60	M	6	V	92			
Straight grinding wheel	66662	200	4	32		35A	46	J	6	V	94			
Straight grinding wheel	71731	200	6	32		35A	46	J	6	V	94	35	CV universal	
Straight grinding wheel	66702	200	8	32		35A	46	J	6	V	94			
Straight grinding wheel	66430	200	10	32		35A	46	J	6	V	94			
Straight grinding wheel	10454	200	12	32		35A	46	J	6	V	94	CV universal		

## SAW SHARPENING GRINDING WHEELS - FORM 1

Abrasive grain:  
Shape:  
Machine type:

Aluminum oxide: 35A  
Form A and all other edge shapes



### SAW SHARPENING WHEELS FOR WOOD & METAL INDUSTRY

	Article- No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel	10450	200	10	32		35A	60	K	6	V	92	35	Universal soft
Straight grinding wheel	10449	200	12	32		35A	60	K	6	V	92		Universal mediam
Straight grinding wheel	66185	200	10	32		35A	60	L	6	V	92		Universal hard
Straight grinding wheel	66526	200	12	32		35A	60	L	6	V	92		CV universal
Straight grinding wheel	94193	200	10	32		35A	60	M	6	V	92		Universal soft
Straight grinding wheel	66657	200	12	32		35A	60	M	6	V	92		Universal medium
Straight grinding wheel	66548	250	8	32		35A	46	J	6	V	94		Universal hard
Straight grinding wheel	10453	250	10	32		35A	46	J	6	V	94		CV universal
Straight grinding wheel	10452	250	12	32		35A	46	J	6	V	94		Universal soft
Straight grinding wheel	105428	250	8	32		35A	60	K	6	V	92		Universal medium
Straight grinding wheel	67040	250	10	32		35A	60	K	6	V	92		Universal hard
Straight grinding wheel	21028	250	12	32		35A	60	K	6	V	92		Universal soft
Straight grinding wheel	66929	250	8	32		35A	60	L	6	V	92		Universal medium
Straight grinding wheel	66184	250	10	32		35A	60	L	6	V	92		Universal hard
Straight grinding wheel	66182	250	12	32		35A	60	L	6	V	92		Universal soft
Straight grinding wheel	10461	250	8	32		35A	60	M	6	V	92		Universal medium
Straight grinding wheel	10460	250	10	32		35A	60	M	6	V	92		Universal hard
Straight grinding wheel	10459	250	12	32		35A	60	M	6	V	92		Universal soft

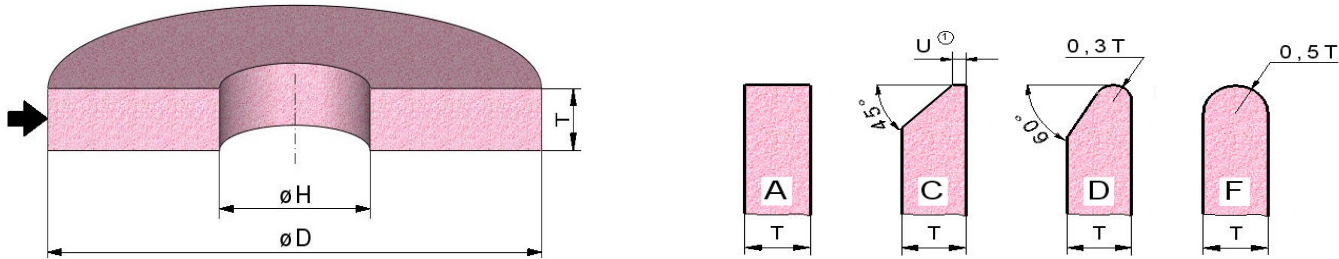
### SAW SHARPENING WHEELS FOR VOLLMER LILLIPUT MACHINES

	Article- No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Super grinding wheel	10831	120	2	51		20A	46	P	9	BF	90	50	
Cur-off disc	60274	120	2	51		38A	46	O	2	B	70	80	



## SAW SHARPENING GRINDING WHEELS - FORM 1

**Abrasive type:** Aluminum oxide: 40A  
**Shape:** Form A  
**Machine type:** Vollmer, Loroch and others



### SAW SHARPENING FOR WOOD & METAL-INDUSTRY

	Article- No.	$\varnothing$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel <sup>1</sup>	10423	150	1	25		40A	80	L	4	V	27	35	Universal
Straight grinding wheel <sup>1</sup>	10420	150	2	25		40A	80	L	4	V	27		
Straight grinding wheel <sup>1</sup>	10411	150	3	25		40A	80	L	4	V	27		
Straight grinding wheel	66359	150	4	25		40A	60	L	4	V	92		
Straight grinding wheel	71833	150	5	25		40A	60	L	4	V	92		
Straight grinding wheel	66273	150	6	25		40A	60	L	4	V	92		
Straight grinding wheel	70982	150	8	25		40A	60	L	4	V	92		
Straight grinding wheel	10331	200	1	32		40A	80	L	4	V	27		
Straight grinding wheel	10328	200	1,5	32		40A	80	L	4	V	27		
Straight grinding wheel	10327	200	2	32		40A	80	L	4	V	27		
Straight grinding wheel	10326	200	2,5	32		40A	80	L	4	V	27		
Straight grinding wheel	10325	200	3	32		40A	80	L	4	V	27		
Straight grinding wheel	10324	200	3,5	32		40A	80	L	4	V	27		
Straight grinding wheel	109748	200	4	32		40A	60	L	4	V	92		
Straight grinding wheel	66385	200	5	32		40A	60	L	4	V	92		
Straight grinding wheel	66204	200	6	32		40A	60	L	4	V	92		
Straight grinding wheel	66596	200	8	32		40A	60	L	4	V	92		

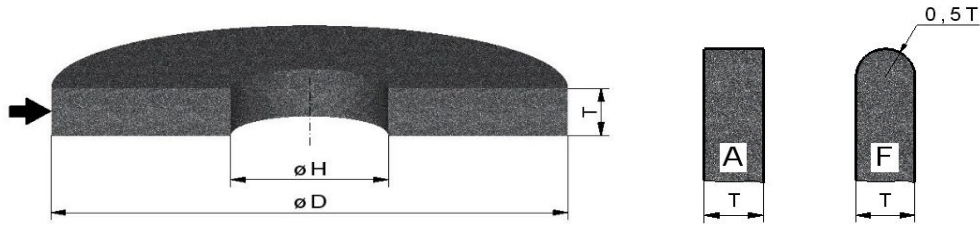
1) Also available with 20 / 25 / 30 or 32 mm bore



## SAW SHARPENING GRINDING WHEELS - FORM 1

Abrasive type:  
Shape:

Aluminum oxide: 24A  
Form A and F



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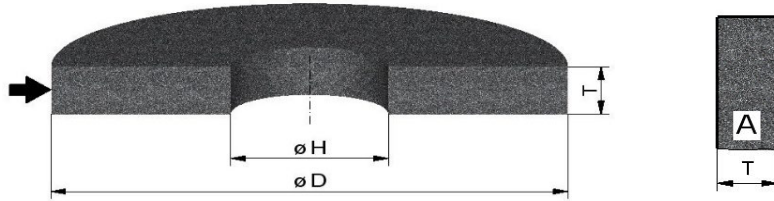
### CAHIANSAW WOODWORKING INDUSTRY

	Article-No.	$\phi$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel <sup>1</sup>	66237	145	3,2	12		24A	54	L	5	V	13	35	Chainsaw universal
Straight grinding wheel <sup>1</sup>	66332	145	3,2	12		24A	54	M	3	V	13		Chainsaw hard
Straight grinding wheel <sup>1</sup>	66684	145	4	12		24A	54	L	5	V	13		Chainsaw universal
Straight grinding wheel <sup>1</sup>	66685	145	4	12		24A	54	M	3	V	13		Chainsaw hard
Straight grinding wheel <sup>1</sup>	66491	145	4,5	12		24A	54	L	5	V	13		Chainsaw universal
Straight grinding wheel <sup>1</sup>	67346	145	4,5	12		24A	54	M	3	V	13		Chainsaw hard

1) Also available with 20 / 22 mm bore

## SAW SHARPENING GRINDING WHEELS - FORM 1

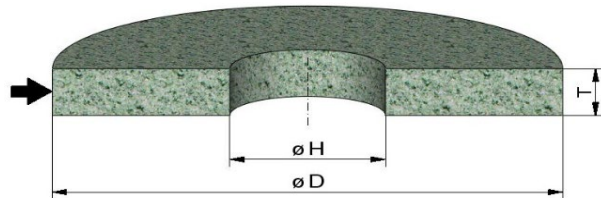
Abrasive type: Aluminum oxide: 131A  
 Shape: Form A  
 Machine type: Weinig Rondamat



### HSS-PROFILMESSER HOLZINDUSTRIE - PROFILSCHLEIFEN

	Article- No.	$\varnothing$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel	140729	225	5	60		131A	60	J	5	V	13	35	Universal medium

Abrasive type: Siliziumcarbid: 57C  
 Shape: Type A



### GRINDING WHEELS FOR CHIP BREAKER FLUTES

	Article- No.	$\varnothing$ mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hard- ness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Straight grinding wheel <sup>1)</sup>	92682	150	6	20	SiC	57C	120	L	4	V	50	35	Universal
Straight grinding wheel <sup>1)</sup>	92685	200	6	32	SiC	57C	120	L	4	V	50		Universal

1) Also available with 51 mm bore

## DRESSING STONES AND EQUIPMENT

### DRESSING STONES FOR SHARPENING

Description	Article-No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Dressing stone	10150	100	25	15		50C	36	R		V	53		
Dressing stone	10149	125	30	20		50C	36	R		V	53		
Dressing stone	10352	200	50	25		50C	14	R	2	V	53		
Dressing stone	10354	200	50	25		50C	24	R		V	53		

### HANDPADS FOR THE STONE WORKING INDUSTRY

Description	Article-No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Handpad	10338	200	50	25		57C	30	L	4	V	51		
Handpad	16975	200	50	25		57C	60	K	4	V	51		

### SHARPENING STONES FOR CBN- AND DIA-WHEELS

Description	Article-No.	ø mm	Width mm	Bore mm	Name	Grain Type	Grain Size	Hardness	Porosity	Bonding	Bond Type	vc, max. [m/s]	Application
Sharpening stone	10329	100	25	15		35A	180	G	6	V	92		
Sharpening stone	10171	100	25	15		35A	320	H	3	V	92		
Sharpening stone	18653	100	50	25		57C	180	C		B	70		

### RONDOR DRESSING EQUIPMENT

Description	
Model 00	Dressing of grinding wheels up to Ø 75 mm
Model 0	Dressing of grinding wheels up to Ø 150 mm
Model 1	Dressing of grinding wheels up to Ø 200 mm

### RONDOR DRESSING PEGTOP FOR RONDOR DRESSING EQUIPMENT

Description	
For model 00	Ø 35 mm
For modell 0	Ø 45 mm
For modell 1	Ø 55 mm

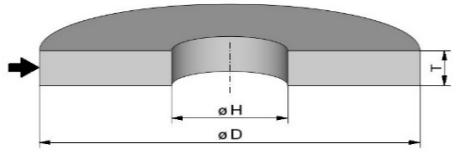
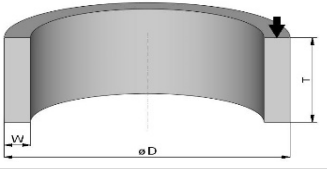
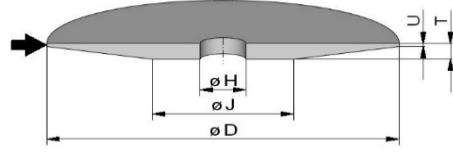
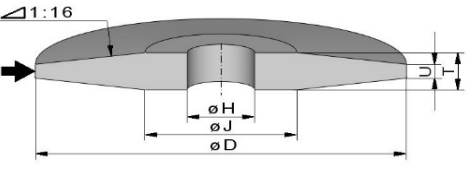
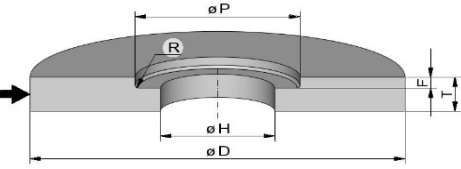
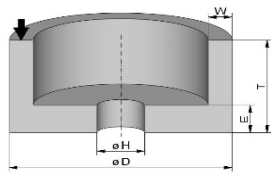
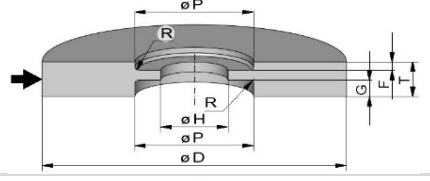
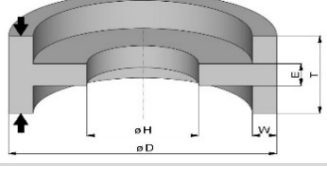
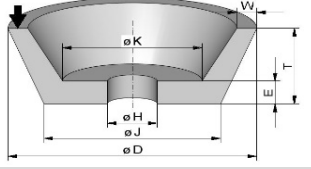
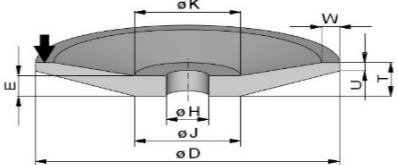
ACCESSORIES

Article- No.	Outer ø mm	Inner ø mm	Thickness mm	Grinding wheel max. outer Ø mm	Grinding wheel max. bore Ø mm
ZFB-35	22	18	0,5	42	18
ZFB-5	25	14,5	0,5	77,5	14,5
ZFB-36	32	18	0,5	96	18
ZFB-7	40	22	0,5	120	22
ZFB-8	45	34	0,5	110	32
ZFB-6	53	24	0,5	159	24
ZFB-9	53	34	0,5	158	32
ZFB-37	55	26	0,5	165	26
ZFB-32	60	20	0,5	180	20
ZFB-27	60	41	0,5	160	41
ZFB-38	60	50	0,5	110	50
ZFB-31	70	22	0,5	210	22
ZFB-20	70	33	0,5	210	32
ZFB-10	73	54	0,5	168	51
ZFB-39	80	61	0,5	175	61
ZFB-24	81	56	0,5	206	56
ZFB-23	90	41	0,5	270	41
ZFB-33	90	66	0,5	210	66
ZFB-11	106	54	0,5	318	54
ZFB-40	110	33	0,5	330	33
ZFB-49	113	77	0,5	293	77
ZFB-12	113	82	0,5	268	82
ZFB-41	120	53	0,5	360	51
ZFB-13	120	77	0,5	335	77
ZFB-4	120	91	0,5	265	91
ZFB-42	125	33	0,5	375	33
ZFB-34	130	77	0,5	390	77
ZFB-30	145	111	0,5	315	111
ZFB-52	150	77	0,5	450	77
ZFB-43	150	102	0,5	390	101,6
ZFB-48	150	122	0,5	290	122
ZFB-47	160	53	0,3	480	53
ZFB-2	161	118	0,5	370	118
ZFB-28	165	130	0,5	340	130
ZFB-15	180	128	0,5	440	128
ZFB-26	180	146	0,5	350	146
ZFB-22	200	128	0,5	560	128
ZFB-1	206	161	0,5	426	161
ZFB-44	206	167	0,5	401	165
ZFB-55	210	180	0,5	350	180
ZFB-19	230	162	0,5	570	162
ZFB-50	245	220	0,5	370	220
ZFB-45	250	128	0,5	750	128
ZFB-16	255	204	0,5	515	204
ZFB-21	255	204	0,3	510	204
ZFB-54	258	162	0,5	700	162
ZFB-3	275	205	0,5	625	205
ZFB-29	280	204	0,5	664	204
ZFB-25	310	205	0,5	835	205
ZFB-17	315	255	0,5	615	255
ZFB-14	375	306	0,5	725	305
ZFB-46	380	205	0,5	1140	205
ZFB-18	430	306	0,5	1050	306

**ACCESSORIES**

	Outer ø mm	Thickness mm	Bore ø mm
Bushing	20	6	8
Bushing	20	6	10
Bushing	20	6	12
Bushing	20	6	13
Bushing	20	6	14
Bushing	20	6	15
Bushing	20	6	16
Bushing	20	6	17
Bushing	20	6	18
Bushing	25	6	8
Bushing	25	6	10
Bushing	25	6	12
Bushing	25	6	13
Bushing	25	6	14
Bushing	25	6	15
Bushing	25	6	16
Bushing	25	6	17
Bushing	25	6	18
Bushing	25	6	20
Bushing	25	6	22
Bushing	32	9	12
Bushing	32	9	13
Bushing	32	9	14
Bushing	32	9	15
Bushing	32	9	16
Bushing	32	9	17
Bushing	32	9	18
Bushing	32	9	20
Bushing	32	9	22
Bushing	32	9	25
Bushing	32	9	30
Bushing	51	9	25
Bushing	51	9	30
Bushing	51	9	32
Bushing	51	9	35
Bushing	51	9	40

	Outer ø mm	Thickness mm	Bore ø mm
Bushing	20	6	1/2"
Bushing	25	6	1/2"
Bushing	25	6	3/4"
Bushing	32	9	1/2"
Bushing	32	9	3/4"
Bushing	32	9	1"

Type	Picture	Description	Article group
1		Straight grinding wheel	100
2		Ring wheel	126
3		Tapered one side	200
4		Tapered both sides	204
5		Recessed one side	101
6		Straight cup	413
7		Recessed both sides	102
9		Duplex straight cup	
11		Tapered cup	417
12		Dish wheel	416

20		Relieved one side	202
21		Relieved both sides	203
22		Relieved one side - recessed opposite side	208
23		Relieved and recessed one side	108
25		Relieved both sides and recessed one side	124
26		Relieved and recessed both sides	125
35		Wheel cemented or mounted to backplate	316
38		Hub one side	105
39		Hub both sides	116

