

PRODUCT RANGE

RESIN BONDED

DIAMOND WHEELS

CBN WHEELS

DIAMOND POINTS

CBN POINTS

ELECTRO-PLATED OR GALVANIC

DIAMOND WHEELS

CBN WHEELS

DIAMOND POINTS

CBN POINTS

DIAMOND FILES

LAPPING

DIAMOND COMPOUND

DIAMOND SPRAY

LAPPING ACCESSORIES

RESIN AND ELECTRO-PLATED
HAND LAPS

TOOLS — (SEE SEPARATE CATALOGUE)

DIAMOND DRESSING TOOLS

DIAMOND TURNING TOOLS

CBN TURNING TOOLS

GRIT SIZE CHART

International Standardization of Grit Sizes for Diamond and Cubic Boron Nitride									
Sieve Grit Designations						Nominal mesh size to ISO 6106 DIN 848 Part 1, 1980 µm	Micron Grit Sizes		
Diamond FEPA-Standard		CBN FEPA-Standard		Diamond + CBN US Standard ASTM-E-11-70			Diamond	CBN	GRIT SIZE MICRONS
narrow	wide	narrow	wide	narrow	wide				
D 1181	D 1182	B 1181	B 1182	18/ 18	16/20	1180/1000	D 25	B 30	32-52
D 1001		B 1001		18/ 20		1000/ 850			30-40
D 851	D 852	B 851	B 852	20/ 25	20/30	850/ 710	D 20	B 15	25-30
D 711		B 711		25/ 30		710/ 600			10-25
D 601	D 602	B 601	B 602	36/ 35	36/40	600/ 500	D 7	B 6	5-10
D 501		B 501		35/ 40		500/ 425			2- 5
D 426	D 427	B 426	B 427	40/ 45	40/50	425/ 355	D 1	B 1	1- 2
D 356		B 356		45/ 50		355/ 300			0,5- 1
D 301	D 252	B 301	B 252	50/ 60	60/ 70	300/ 250	D 0,25		< 0,5
D 251		B 251		60/ 70		250/ 212			
D 213	D 181	B 213	B 181	70/ 80	80/100	212/ 180			
D 181		B 181		80/100		180/ 150			
D 151	D 126	B 151	B 126	100/120	120/140	150/ 125			
D 126		B 126		120/140		125/ 106			
D 107	D 91	B 107	B 91	140/170	170/200	106/ 90			
D 91		B 91		170/200		90/ 75			
D 76	D 64	B 76	B 64	200/230	230/270	75/ 63			
D 64		B 64		230/270		63/ 50			
D 54	D 46	B 54	B 46	276/325	325/400	50/ 45			
D 46		B 46		325/400		45/ 38			

SPINDLE REVOLUTIONS PER MINUTE (RPM)

TO OBTAIN 12.5-50 METRES PER SECOND PERIPHERAL SPEED

WHEEL DIAMETER

MILLIMETRES

	PERIPHERAL SURFACE SPEED IN METRES PER SECOND												
	12.5	15	17.5	20	22.5	25.0	27.5	30	32.5	35.0	40	50	
	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM
3	80K	95K											
4	60K	72K	84K	95K									
5	48K	57K	67K	78K	88K	95K	100K						
6	40K	48K	56K	64K	72K	80K	88K	95K	100K				
8	30K	36K	42K	48K	54K	60K	66K	72K	78K	84K	95K		
10	24K	29K	33K	38K	43K	48K	53K	57K	62K	67K	76K	95K	
15	15K	19K	22K	25K	29K	32K	35K	38K	41K	45K	51K	64K	
20	11500	14300	16700	19000	21500	24000	26000	29500	31000	33000	38000	48000	
25	9500	11500	13500	15500	17000	19000	21000	23000	25000	27000	30500	38000	
50	4775	5730	6700	7600	8600	9500	10500	11500	12500	13500	15300	19000	
75	3200	3800	4450	5100	5750	6350	7000	7650	8250	8900	10200	12700	
100	2400	2850	3350	3800	4300	4800	5250	5750	6200	6700	7600	9500	
125	1900	2300	2700	3100	3400	3800	4200	4600	5000	5300	6100	7800	
150	1500	1800	2200	2500	2850	3200	3500	3800	4150	4450	5100	6400	
175	1350	1625	1900	2200	2450	2750	3000	3250	3500	3800	4350	5450	
200	1200	1425	1650	1900	2150	2400	2650	2950	3100	3350	3800	4800	
250	950	1145	1335	1525	1725	1900	2100	2300	2500	2700	3100	3800	
300	795	965	1115	1275	1425	1600	1780	1900	2050	2225	2550	3200	
350	680	820	950	1090	1225	1350	1500	1650	1775	1900	2200	2750	
400	595	715	835	955	1075	1200	1300	1425	1550	1675	1900	2400	
450	530	635	750	850	950	1050	1165	1275	1380	1500	1700	2120	
500	475	575	670	765	860	955	1050	1145	1240	1335	1525	1900	

DRY GRINDING DIAMOND
WET OR DRY GRIND CUBIC BORON NITRIDE
WET GRIND DIAMOND
PREFERABLY WET GRIND CUBIC BORON NITRIDE
WET GRIND DIAMOND
WET GRIND CUBIC BORON NITRIDE

GENERAL RECOMMENDATIONS

HOW TO ORDER YOUR WHEEL OR TOOL

Where possible PHOENIX DIAMOND TOOL CO. LTD., adopt FEPA standards and coding. Many British Imperial sizes are available.

WHEEL SHAPE

Most commonly used shapes can be found on pages 4 and 5. If your requirement does **not** appear please send us your sketch.

Where the shape you require is found, turn to the appropriate page.

Where your exact requirement is displayed it will be enough to quote the catalogue number and abrasive details.

Otherwise give us the following information.

DIAMETER D.

This is always the maximum diameter of the wheel.

ABRASIVE RIM WIDTH

This will be shown as T, W or U.

ABRASIVE RIM DEPTH

This is always shown as X.

TOTAL WHEEL THICKNESS

Dimension T

BORE DIAMETER

Dimension H.

GENERAL WHEEL SHAPE

This is the description at the top of the page. eg. 1A1

ANGLE OF BODY

Dimension S, applicable to Flared Cups and Dish Wheels.

PROFILE RADIUS R

The radius on the abrasive layer where appropriate.

PROFILE ANGLE V

The angle on the abrasive layer where appropriate.

ABRASIVE DETAILS

ABRASIVE TYPE.

eg., Diamond. D126 or Cubic Boron Nitride (CBN) B126

GRIT SIZE

Refer to the chart of mesh sizes on page 2.

As a guide: — Rougher — Finer

Coarse	D181 — D126
Medium	D107 — D76
Fine	D64 — D54
Extra Fine	D46 — D25

Electro-plated (Galvanic) wheels often use Grit sizes considerably coarser.

CONCENTRATION

Diamond and CBN wheels are manufactured in four concentrations 50 - 75 - 100 and 125. 100 concentration is equal to 4.4 Carats of abrasive per cubic centimetre or 72 Carats per cubic inch. Other concentrations are proportional.

BOND TYPE

We advise you to give us as much detail of the application as possible, and to allow Phoenix to recommend the most suitable bond.

OTHER INFORMATION

Tell Us: Material to be ground

Coolant type if any

Machine type and condition

Amount of stock to be removed

Spindle speeds available

Surface Finish required

For repeat orders simply give the number of the previous wheel.

SELECT YOUR WHEEL BY SHAPE



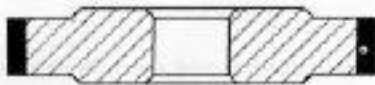
1A1

page 6



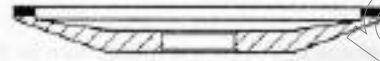
9A3

page 13



14A1

page 7



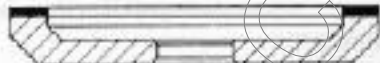
12A2 20°

page 14



3A1

page 8



12A2 45°

page 15



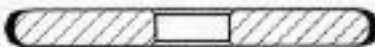
1A1R

page 9



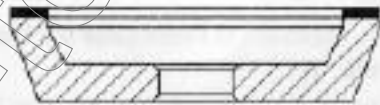
6A2 and 6A2HC

page 16



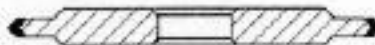
1FF1

page 9



11A2

page 17



14EE1

page 10



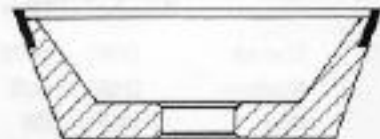
6A9

page 17



14V1

page 11



11V9

page 18



OPG

page 12



12V9

page 19



1A1W

page 13



11A9

page 20



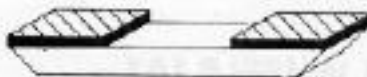
4BT9

page 20



4A2

page 21



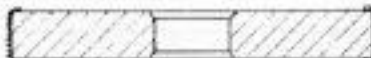
HAND LAPS

page 25



6VV9

page 22



ELECTRO-PLATED PERIPHERAL WHEELS

page 28



ELECTRO-PLATED CUT-OFF WHEELS

page 29



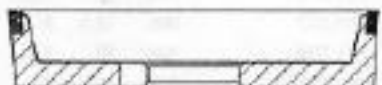
COMBINATION

page 23



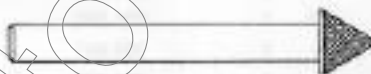
ELECTRO-PLATED GRINDING SPINDLES

page 30



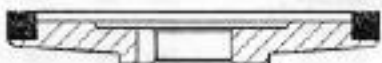
VOLL TOP GRIND

page 24



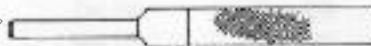
ELECTRO-PLATED CONE POINTS

page 30



SIDE GRIND

page 25



ELECTRO-PLATED FILES

page 31



LAPPING

page 32 & 33



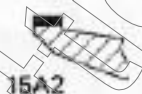
OTHER SHAPES AVAILABLE



15V4



1U1



15A2



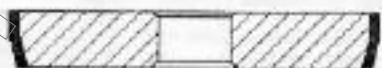
15V5



15V9



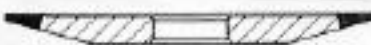
11C2



1Y1



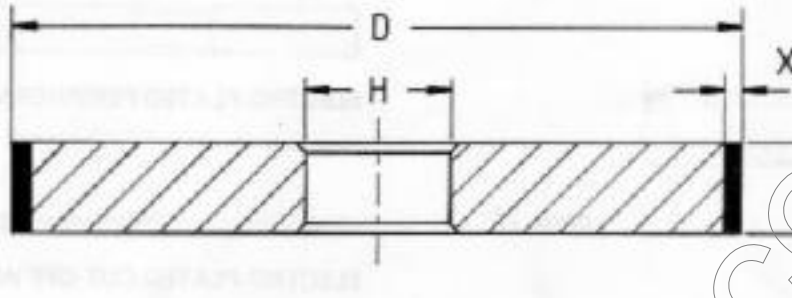
4V4



4ET9

PLEASE SUPPLY DETAILS AND POSSIBLY A SKETCH OF YOUR REQUIREMENTS.

PERIPHERAL WHEELS 1A1



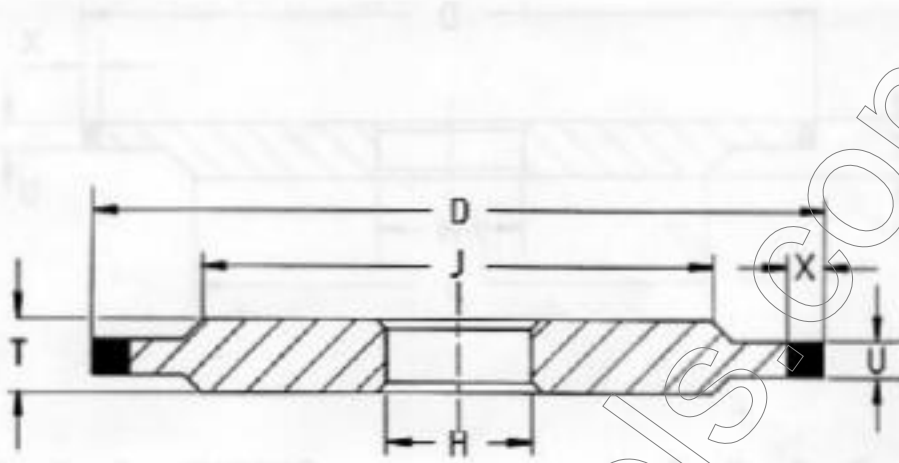
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001.002	20	12.5	3	001.035	150	3	3	001.068	250	12.5	1.6
001.003	25	3	3	001.036	150	5	1.6	001.069	250	12.5	3
001.004	25	6.5	3	001.037	150	5	3	001.070	250	20	1.6
001.005	25	10	3	001.038	150	6.5	1.6	001.071	250	20	3
001.006	40	3	3	001.039	150	6.5	3	001.072	300	6.5	1.6
001.007	40	6.5	3	001.040	150	10	1.6	001.073	300	6.5	3
001.008	40	10	3	001.041	150	10	3	001.074	300	10	1.6
001.009	50	3	3	001.042	150	12.5	1.6	001.075	300	10	3
001.010	50	6.5	3	001.043	150	12.5	3	001.076	300	12.5	1.6
001.011	50	10	3	001.044	175	3	1.6	001.077	300	12.5	3
001.012	50	12.5	3	001.045	175	3	3	001.078	300	20	1.6
001.013	75	3	3	001.046	175	6.5	1.6	001.079	300	20	3
001.014	75	6.5	3	001.047	175	6.5	3	001.080	300	25	1.6
001.015	75	10	3	001.048	175	10	1.6	001.081	300	25	3
001.016	75	12.5	3	001.049	175	10	3	001.082	350	12.5	1.6
001.017	100	3	3	001.050	175	12.5	1.6	001.083	350	12.5	3
001.018	100	6.5	1.6	001.051	175	12.5	3	001.084	350	20	1.6
001.019	100	6.5	3	001.052	175	20	1.6	001.085	350	20	3
001.020	100	10	1.6	001.053	175	20	3	001.086	350	25	1.6
001.021	100	10	3	001.054	200	5	1.6	001.087	350	25	3
001.022	100	12.5	1.6	001.055	200	5	3				
001.023	100	12.5	3	001.056	200	6.5	1.6	001.088	400	12.5	3
001.024	125	3	3	001.057	200	6.5	3				
001.025	125	5	1.6	001.058	200	10	1.6	001.089	400	20	3
001.026	125	5	3	001.059	200	10	3				
001.027	125	5	6.5	001.060	200	12.5	1.6	001.090	400	25	3
001.028	125	6.5	1.6	001.061	200	12.5	3				
001.029	125	6.5	3	001.062	200	16	1.6	001.091	450	12.5	3
001.030	125	10	1.6	001.063	200	16	3				
001.031	125	10	3	001.064	250	6.5	1.6	001.092	450	20	3
001.032	125	12.5	1.6	001.065	250	6.5	3				
001.033	125	12.5	3	001.066	250	10	1.6	001.093	450	25	3

ORDERING EXAMPLE
 1A1 D=125T=15 X=3
 or 001.033

H=31.75
 H=31.75

D151 Rein Conc=75
 D151 Rein Conc=75

PERIPHERAL WHEELS 14A1

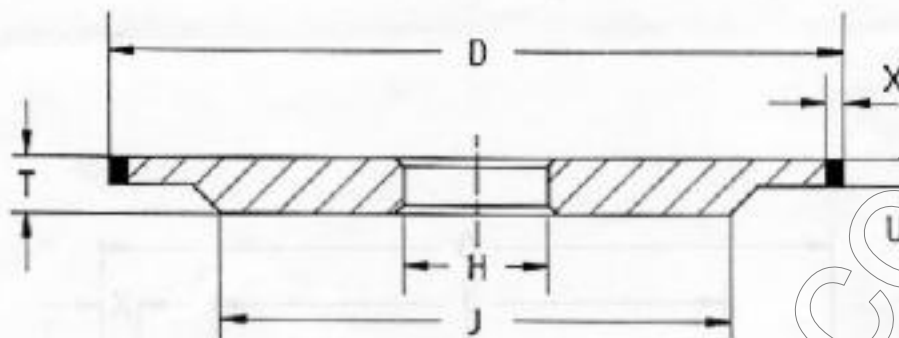


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002.001	100	3	1	6	70	002.009	150	3	1	6	120
002.002	100	3	2	6	70	002.010	150	3	2	6	120
002.003	100	6	2	6	70	002.011	150	6	2	6	120
002.004	100	6	3	6	70	002.012	150	6	3	6	120
002.005	125	3	1	6	100	002.013	175	3	3	8	140
002.006	125	3	2	6	100	002.014	175	3	5	8	140
002.007	125	6	2	6	100	002.015	175	6	3	8	140
002.008	125	6	3	6	100	002.016	175	6	5	8	140

ORDERING EXAMPLE
 14A1 D=200 X=8 U=3 T=10 J=175
 002.008 H=32 D151 Resin Conc=75
 H=32 D151 Resin Conc=75

PERIPHERAL WHEELS 14A1
 H=32 D151 Resin Conc=75
 H=32 D151 Resin Conc=75

3A1



Catalogue No.	D	X	U	T	J
003.001	25	3	1.5	5	15
003.002	25	3	3	5	15
003.003	40	3	1.5	5	20
003.004	40	6	1.5	5	20
003.005	40	3	3	5	20
003.006	40	6	3	5	20
003.007	50	3	1.5	5	30
003.008	50	6	1.5	5	30
003.009	50	3	3	5	30
003.010	50	6	3	5	30
003.011	75	3	1.5	6	50
003.012	75	6	1.5	6	50
003.013	75	3	3	6	50
003.014	75	6	3	6	50
003.015	100	3	1.5	6	70
003.016	100	6	1.5	6	70
003.017	100	3	3	6	70
003.018	100	6	3	6	70
003.019	125	3	1.5	8	100
003.020	125	6	1.5	8	100
003.021	125	3	3	8	100
003.022	125	6	3	8	100
003.023	125	1.5	5	8	100
003.024	125	3	5	8	100
003.025	125	1.5	6	10	100
003.026	125	3	6	10	100
003.027	150	3	1.5	10	120
003.028	150	6	1.5	10	120
003.029	150	3	3	10	120
003.030	150	6	3	10	120

Catalogue No.	D	X	U	T	J
003.031	150	1.5	5	10	120
003.032	150	3	5	10	120
003.033	150	1.5	6	12	120
003.034	150	3	6	12	120
003.035	150	1.5	9	12	120
003.036	150	3	9	12	120
003.037	175	6	1.5	12	140
003.038	175	6	3	12	140
003.039	175	1.5	5	12	140
003.040	175	3	5	12	140
003.041	175	1.5	6	12	140
003.042	175	3	6	12	140
003.043	175	1.5	9	12	140
003.044	175	3	9	12	140
003.045	200	6	3	12	180
003.046	200	3	5	12	180
003.047	200	3	6	12	180
003.048	200	1.5	9	15	180
003.049	200	3	9	15	180
003.050	250	3	3	12	200
003.051	250	6	3	12	200
003.052	250	3	5	12	200
003.053	250	3	6	12	200
003.054	250	3	9	15	200
003.055	250	3	12	20	200
003.056	300	3	5	15	250
003.057	300	3	6	15	250
003.058	300	3	9	20	250
003.059	300	3	12	20	250

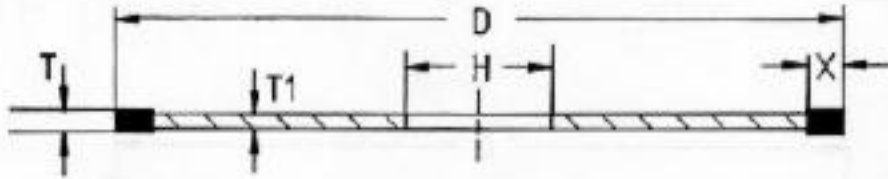
ORDERING EXAMPLE

3A1 D=150 X=3 U=6 J=100
or 003.031

H=31.75
H=31.75

D126 Conc=100
D126 Conc=100

PERIPHERAL SLITTING WHEELS 1A1R



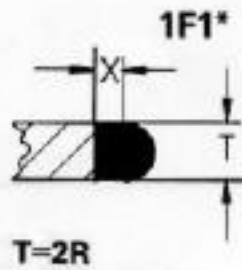
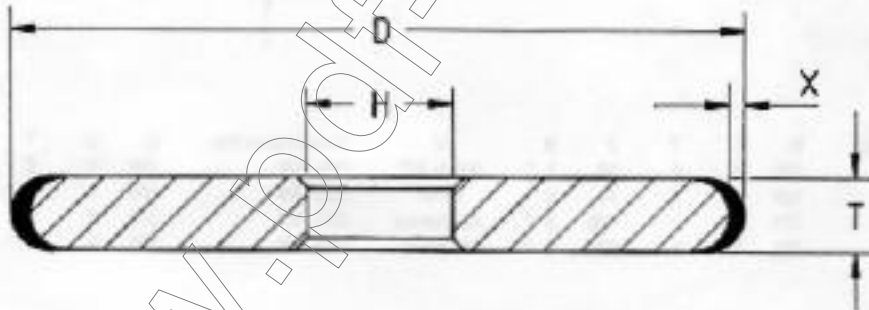
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004.002	100	1.0	6	004.008	150	1.5	6
004.003	100	1.5	3	004.009	200	1.0	6
004.004	100	1.5	6	004.010	200	1.5	6
004.005	150	1.0	3	004.011	250	1.5	6
004.006	150	1.0	6	004.012	300	1.5	6

ORDERING EXAMPLE
 1A1R D=150 T=1.5 X=6
 or 004.006

H=20
 H=20

B107 Resin Conc=100
 B107 Resin Conc=100

RADIUS WHEELS 1FF1 and 1F1*



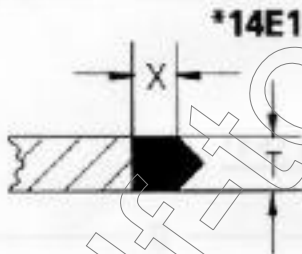
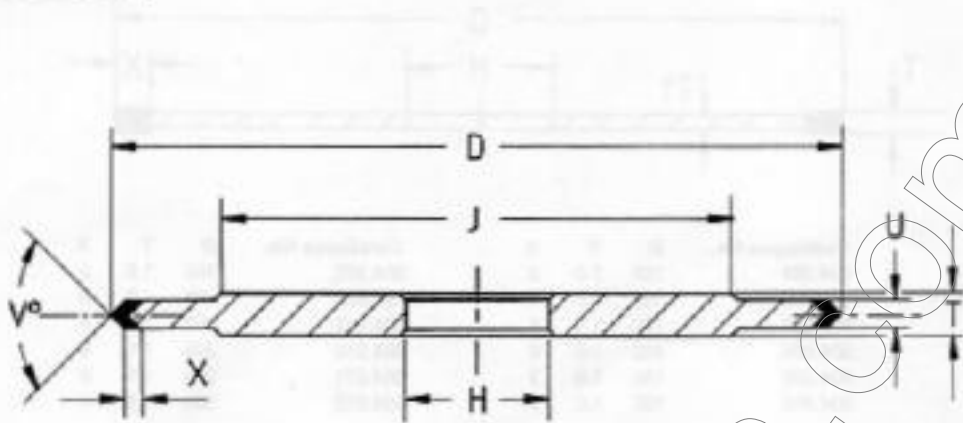
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005.002	50	3	3*	005.012	100	5	3
005.003	50	4	3	005.013	125	2	3*
005.004	50	5	3	005.014	125	3	3*
005.005	75	2	3*	005.015	125	4	3
005.006	75	3	3*	005.016	125	5	3
005.007	75	4	3	005.017	150	2	3*
005.008	75	5	3	005.018	150	3	3*
005.009	100	2	3*	005.019	150	4	3
005.010	100	3	3*	005.020	150	5	3

ORDERING EXAMPLE
 1FF1 D=150 R=5 X=3
 or 005.020

H=25
 H=25

D151 Resin Conc=75
 D151 Resin Conc=75

14EE1 and 14E1*



Catalogue No.	D	U	T	J	X	V	Catalogue No.	D	U	T	J	X	V
006.001	100	3	6	70	3 *	90° & 60°	006.005	150	3	6	120	3 *	90° & 60°
006.002	100	4	6	70	3 *	other	006.006	150	4	6	120	3 *	other
006.003	125	3	6	100	3 *	Angles by Request	006.007	175	4	8	140	3	Angles by Request
006.004	125	4	6	100	3 *	Request	006.008	175	5	8	140	3	Request

ORDERING EXAMPLE

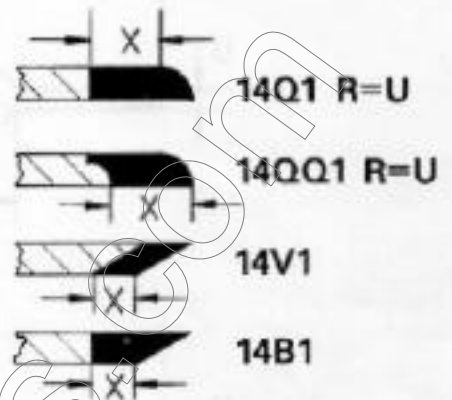
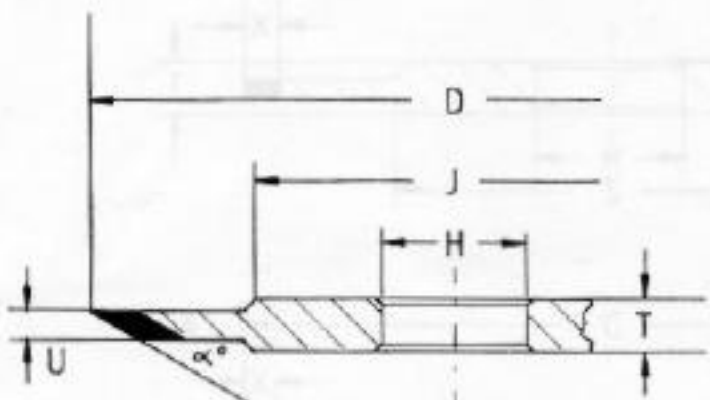
14EE D=125 U=4 T=10 J=100 X=3
or 006.004

V=45 H=20
V=90 H=20

D125 Resin Conc = 100
D125 Resin Conc = 100

<http://www.offtools.com>

PERIPHERAL WHEELS 14V1 14B1 14Q1 14QQ1



14Q1 Catalogue No.	14QQ1 Catalogue No.	14B1 Catalogue No.	14V1 Catalogue No.	D	U	X	T	B1.V1 α°	J
007.001	--	008.001	--	150	3	3	6	60	120
--	--	008.002	--	150	3	3	6	45	120
007.002	--	--	008.011	150	5	3	6	60	120
--	--	--	008.012	150	5	3	6	45	120
007.003	--	008.003	--	175	3	3	8	60	140
--	--	008.004	--	175	3	3	8	45	140
007.004	--	--	008.013	175	5	3	8	60	140
--	--	--	008.014	175	5	3	8	45	140
007.005	--	008.005	--	200	3	3	10	60	160
--	--	008.006	--	200	3	3	10	45	160
007.006	--	--	008.015	200	5	3	10	60	160
--	--	--	008.016	200	5	3	10	45	160
007.007	--	008.007	--	225	3	3	15	60	175
--	--	008.008	--	225	3	3	15	45	175
007.008	--	--	008.017	225	5	3	15	60	175
--	--	--	008.018	225	5	3	15	45	175
007.009	--	008.009	--	225	3	5	15	60	175
--	--	008.010	--	225	3	5	15	45	175
007.010	--	--	008.019	225	5	5	15	60	175
--	--	--	008.020	225	5	5	15	45	175
007.011	--	--	--	250	5	3	15	--	200
--	007.012	--	--	250	8	3	15	--	200
--	007.013	--	--	250	10	3	15	--	200

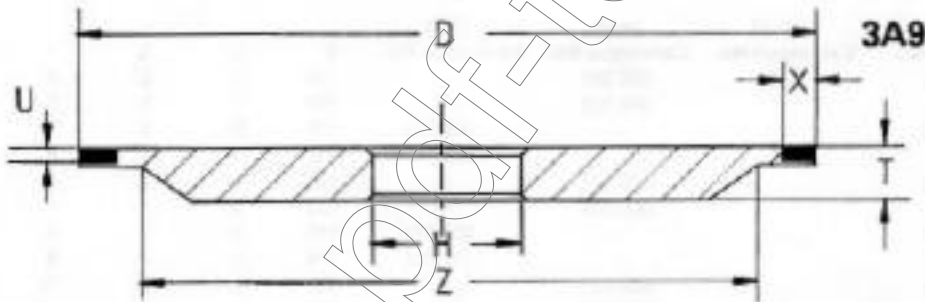
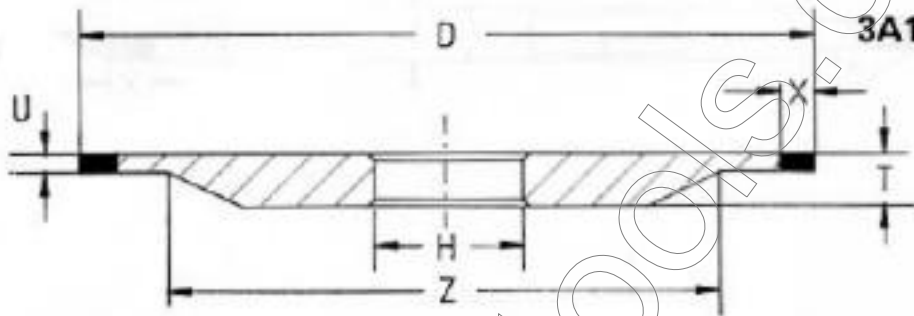
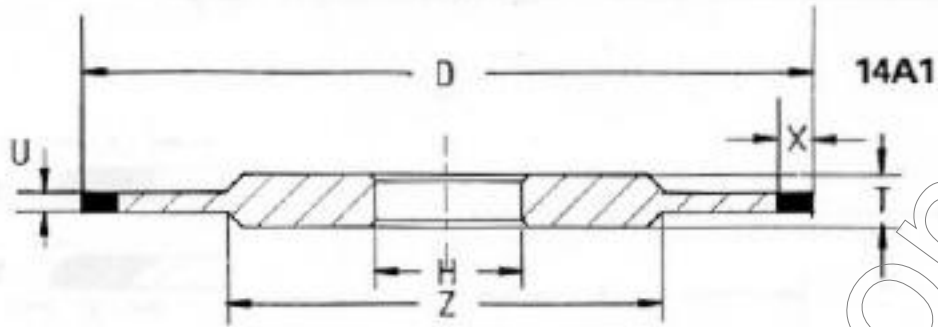
ORDERING EXAMPLE

14Q1 D=200 U=5 X=3 T=15 J=160
or 007.006

H=50
H=50

D126 Resin Conc =75
D126 Resin Conc =75

OPTICAL PROFILE GRINDING WHEELS



Catalogue No.	D	X	U	T	Z	Types Available
022.001	125	3	1	10	109	3A9
022.002	125	6	1	10	103	3A9
022.003	125	3	1.5	10	99	3A9 3A1 14A1
022.004	125	5	1.5	10	95	3A9 3A1 14A1
022.005	125	6	1.5	10	95	3A1 14A1
022.006	125	3	3	10	95	3A1 14A1
022.007	125	6	3	10	95	3A1 14A1
022.008	190	3	1.5	12	124	3A9 3A1 14A1
022.009	150	6	1.5	12	124	3A9 3A1 14A1
022.010	150	3	3	12	124	3A1 14A1
022.011	150	6	3	12	124	3A1 14A1
022.012	180	10	1.5	12	124	3A9
022.013	150	10	3	12	124	3A9 3A1 14A1

FOR OTHER 14A1 SHAPES
SEE PAGE 7

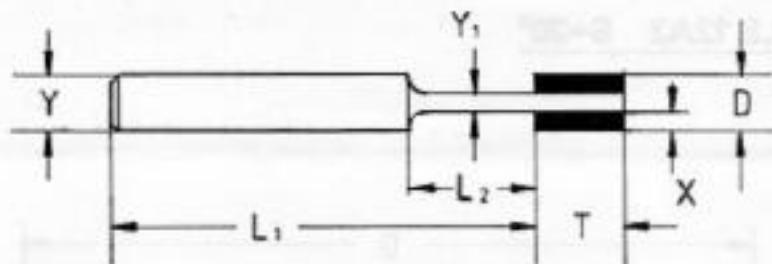
ORDERING EXAMPLE

3A9 D=125 X=5 U=2 T=10 Z=95
or 022.004

H=31.75
H=31.75

D91 Resin Conc=50
D91 Resin Conc=50

1A1W INTERNAL GRINDING WHEELS



COARSE GRAIN D151 (B151)

FINE GRAIN D54 (B54)

*=PREFERRED SIZES WITH PRICE ADVANTAGE

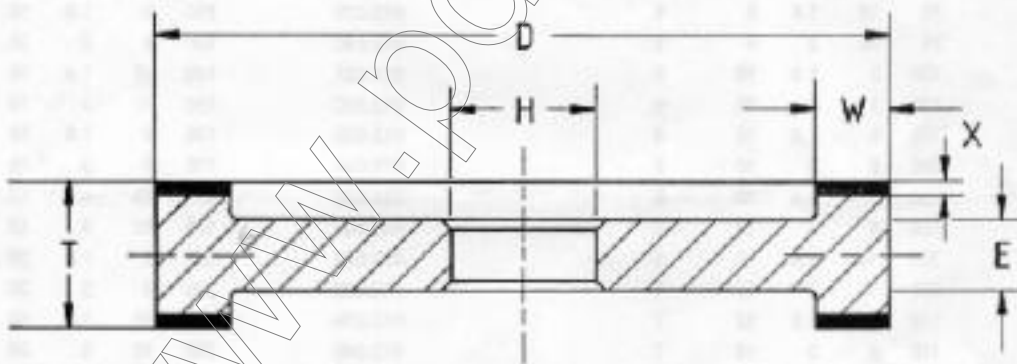
Catalogue No.	D	T	X	Y	Y1	L1	L2	Catalogue No.	D	T	X	Y	Y1	L1	L2
023.001	6	6	1.5	3	3	60	*	023.009	14	6	3	6		80	
023.002	6	6	1.5	6	3	60	8	023.010	14	10	3	6		80	
023.003	8	4	2	3	3	60	*	023.011	16	6	3	10		80	
023.004	8	6	2	6	4	80	14	023.012	16	10	3	10		80	
023.005	10	6	3	6	4	80	14	023.013	18	6	3	10		80	
023.006	10	10	3	6	4	80	10	023.014	18	10	3	10		80	
023.007	12	6	3	6		80	*	023.015	20	6	3	10		80	
023.008	12	10	3	6		80		023.016	20	10	3	10		80	

ORDERING EXAMPLE

1A1W D=10 T=10 X=3 Y=6 Y1=4 L1=110 L2=10
or 023.006

D91 Resin Conc =125
D91 Resin Conc =125

9A3



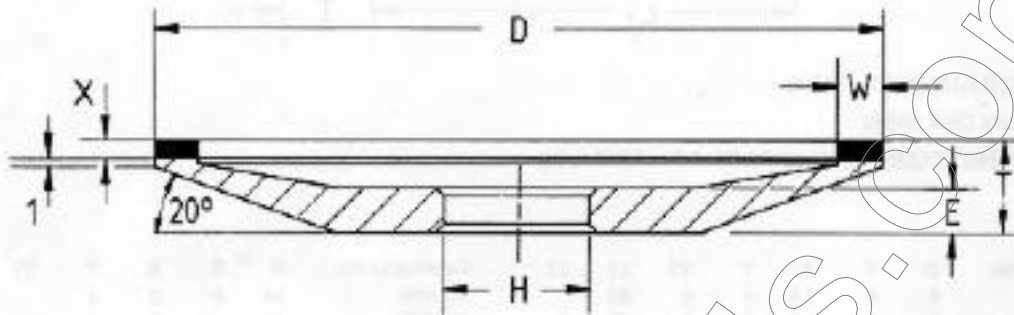
Catalogue No.	D	W	X	T-2X	E	Catalogue No.	D	W	X	T-2X	E
024.001	100	6	2	22	10	024.016	150	15	3	25	14
024.002	100	6	3	22	10	024.017	175	6	2	25	14
024.003	100	10	2	22	10	024.018	175	6	3	25	14
024.004	100	10	3	22	10	024.019	175	10	2	25	14
024.005	125	6	2	22	10	024.020	175	10	3	25	14
024.006	125	6	3	22	10	024.021	175	12	2	25	14
024.007	125	10	2	22	10	024.022	175	12	3	25	14
024.008	125	10	3	22	10	024.023	175	15	2	25	14
024.009	150	6	2	25	14	024.024	175	15	3	25	14
024.010	150	6	3	25	14	024.025	200	10	2	30	18
024.011	150	10	3	25	14	024.026	200	10	3	30	18
024.012	150	10	3	25	14	024.027	200	12	2	30	18
024.013	150	12	2	25	14	024.028	200	12	3	30	18
024.014	150	12	3	25	14	024.029	200	15	2	30	18
024.015	150	15	2	25	14	024.030	200	15	3	30	18

ORDERING EXAMPLE

9A3 D=150 W=10 X=3 T=31 E=10
or 024.012

H=31.75
H=31.75

D126 Resin Conc =75
D126 Resin Conc =75

DISH WHEELS 12A2 S=20°

Catalogue No.	D	W	X	T-X	E	Catalogue No.	D	W	X	T-X	E
012.001	75	3	1.6	8	5	012.023	125	6	1.6	14	8
012.002	75	3	3	8	5	012.024	125	6	3	14	8
012.003	75	5	1.6	8	5	012.025	125	10	1.6	14	8
012.004	75	5	3	8	5	012.026	125	10	3	14	8
012.005	75	6	1.6	8	5	012.027	150	5	1.6	16	9
012.006	75	6	3	8	5	012.028	150	6	3	16	9
012.007	75	10	1.6	8	5	012.029	150	6	1.6	16	9
012.008	75	10	3	8	5	012.030	150	6	3	16	9
012.009	100	3	1.6	10	6	012.031	150	10	1.6	16	9
012.010	100	3	3	10	6	012.032	150	10	3	16	9
012.011	100	5	1.6	10	6	012.033	175	6	1.6	18	10
012.012	100	5	3	10	6	012.034	175	6	3	18	10
012.013	100	6	1.6	10	6	012.035	175	10	1.6	18	10
012.014	100	6	3	10	6	012.036	175	10	3	18	10
012.015	100	10	1.6	10	6	012.037	200	6	1.6	20	11
012.016	100	10	3	10	6	012.038	200	6	3	20	11
012.017	115	5	1.6	12	7	012.039	200	10	1.6	20	11
012.018	115	5	3	12	7	012.040	200	10	3	20	11
012.019	115	6	1.6	12	7	012.041	250	6	1.6	23	13
012.020	115	6	3	12	7	012.042	250	6	3	23	13
012.021	125	5	1.6	14	8	012.043	250	10	1.6	23	13
012.022	125	5	3	14	8	012.044	250	10	3	23	13

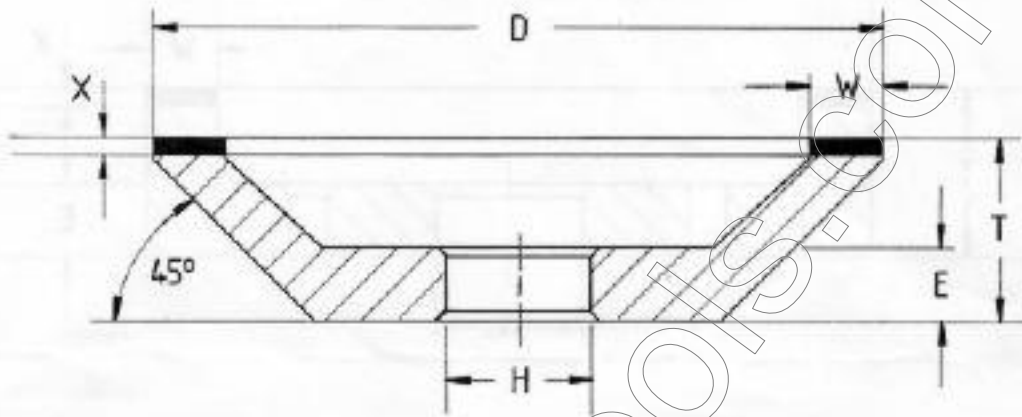
ORDERING EXAMPLE

12A2/20 D=125 W=3 X=3 T=18 E=10
or 012.021

H=20
H=20

D91 Resin Conc =50
D91 Resin Conc =50

DISH WHEELS 12A2 S=45°



Catalogue No.	D	W	X	T-X	E	Catalogue No.	D	W	X	T-X	W
013.001	75	6	1.6	20	9	013.019	175	6	1.6	25	12
013.002	75	6	3	20	9	013.020	175	6	3	25	12
013.003	75	10	1.6	20	9	013.021	175	10	1.6	25	12
013.004	75	10	3	20	9	013.022	175	10	3	25	12
013.006	100	6	1.6	23	10	013.023	175	15	1.6	25	12
013.006	100	6	3	23	10	013.024	175	15	3	26	12
013.007	100	10	1.6	23	10	013.025	200	10	1.6	25	12
013.008	100	10	3	23	10	013.026	200	10	3	26	12
013.009	125	6	1.6	23	10	013.027	200	15	1.6	25	12
013.010	125	6	3	23	10	013.028	200	15	3	25	12
013.011	125	10	1.6	23	10	013.029	200	20	1.6	25	12
013.012	125	10	3	23	10	013.030	200	20	3	25	12
013.013	150	6	1.6	23	10	013.031	250	10	1.6	25	12
013.014	150	6	3	23	10	013.032	250	10	3	25	12
013.015	150	10	1.6	23	10	013.033	250	15	1.6	25	12
013.016	150	10	3	23	10	013.034	250	15	3	25	12
013.017	150	15	1.6	23	10	013.035	250	20	1.6	25	12
013.018	150	15	3	23	10	013.036	250	20	3	25	12

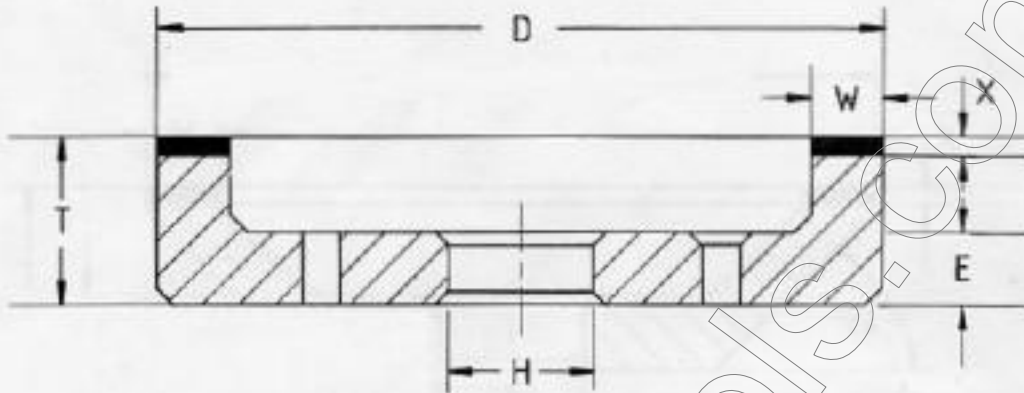
ORDERING EXAMPLE

12A2/45 D=150 W=6 X=1.6 T=25 E=10
or 013.013

H=31.75
H=31.75

D126 Resin Conc=100
D126 Resin Conc=100

PLAIN CUP WHEELS 6A2 AND 6A2HC



Catalogue No.	D	W	X	T-X	E	Catalogue No.	D	W	X	T-X	E
010.001	75	5	1.6	22	10	010.031	150	15	1.6	22	10
010.002	75	5	3	22	10	010.032	150	15	3	22	10
010.003	75	6	1.6	22	10	010.033	150	20	1.6	22	10
010.004	75	6	3	22	10	010.034	150	20	3	22	10
010.005	75	10	1.6	22	10	010.035	175	6	1.6	25	13
010.006	75	10	3	22	10	010.036	175	6	3	25	13
010.007	100	5	1.6	22	10	010.037	175	10	1.6	25	13
010.008	100	5	3	22	10	010.038	175	10	3	25	13
010.009	100	6	1.6	22	10	010.039	175	15	1.6	25	13
010.010	100	6	3	22	10	010.040	175	15	3	25	13
010.011	100	10	1.6	22	10	010.041	175	20	1.6	25	13
010.012	100	10	3	22	10	010.042	175	20	3	25	13
010.013	100	12.5	1.6	22	10	010.043	175	25	1.6	25	13
010.014	100	12.5	3	22	10	010.044	175	25	3	25	13
010.015	100	15	1.6	22	10	010.045	200	10	1.6	25	13
010.016	100	15	3	22	10	010.046	200	10	3	25	13
010.017	125	6	1.6	22	10	010.047	200	15	1.6	25	13
010.018	125	6	3	22	10	010.048	200	15	3	25	13
010.019	125	10	1.6	22	10	010.049	200	20	1.6	25	13
010.020	125	10	3	22	10	010.050	200	20	3	25	13
010.021	125	12.5	1.6	22	10	010.051	200	25	1.6	25	13
010.022	125	12.5	3	22	10	010.052	200	25	3	25	13
010.023	125	15	1.6	22	10	010.053	250	10	1.6	25	13
010.024	125	15	3	22	10	010.054	250	10	3	25	13
010.025	150	6	1.6	22	10	010.055	250	15	1.6	25	13
010.026	150	6	3	22	10	010.056	250	15	3	25	13
010.027	150	10	1.6	22	10	010.057	250	20	1.6	25	13
010.028	150	10	3	22	10	010.058	250	20	3	25	13
010.029	150	12.5	1.6	22	10	010.059	250	25	1.6	25	13
010.030	150	12.5	3	22	10	010.060	250	25	3	25	13

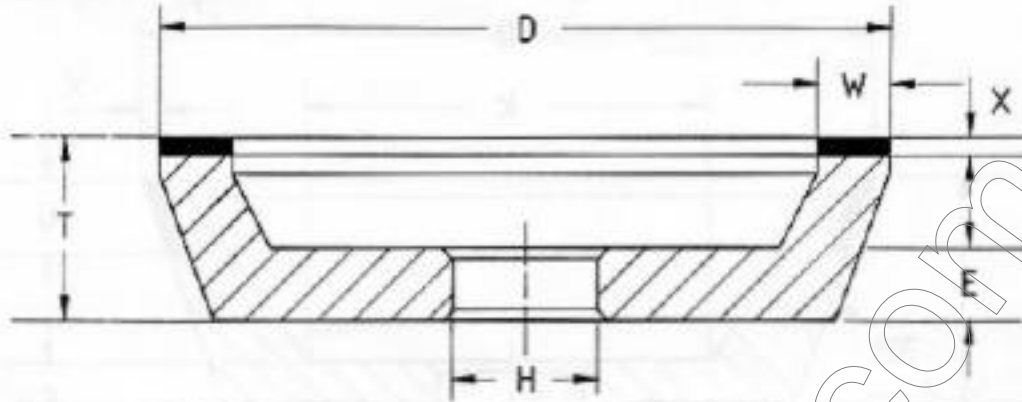
ORDERING EXAMPLE

6A2 D=150 W=15 X=2 T=24 E=12
or 010.031

H=25
H=25

D181 Resin Conc=50
D181 Resin Conc=50

CUP WHEEL 11A2

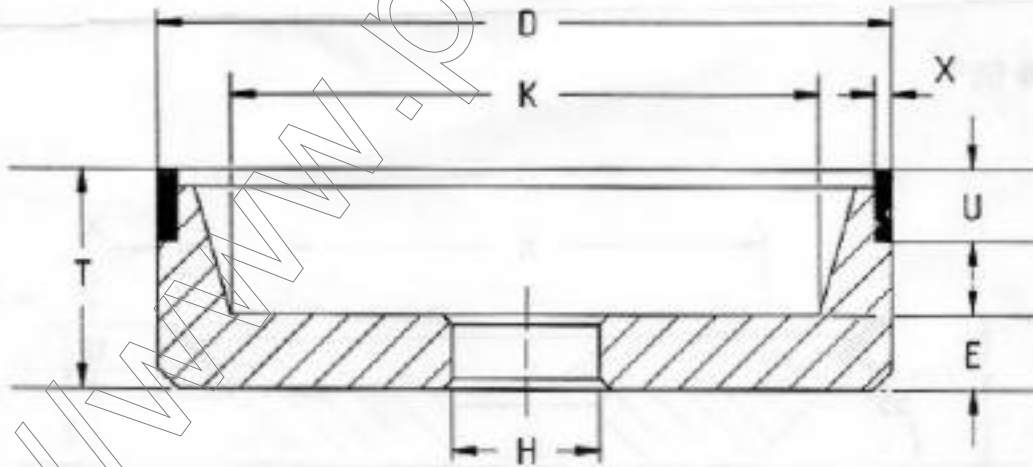


Catalogue No.	D	W	X	T-X	E
014.001	75	3	1.6	20	10
014.002	75	3	3	20	10
014.003	75	6	1.6	20	10
014.004	75	6	3	20	10
014.005	75	10	1.6	20	10
014.006	75	10	3	20	10
014.007	90	6	1.6	23	10
014.008	90	6	3	23	10
014.009	90	10	1.6	23	10

Catalogue No.	D	W	X	T-X	E
014.010	90	10	3	23	10
014.011	100	6	1.6	23	10
014.012	100	6	3	23	10
014.013	100	10	1.6	23	10
014.014	100	10	3	23	10
014.015	125	6	1.6	23	10
014.016	125	6	3	23	10
014.017	125	10	1.6	23	10
014.018	125	10	3	23	10

ORDERING EXAMPLE
 11A2 D=90 W=10 X=2 T=25 E=10 H=20
 or 014.009 H=20
 D126 Resin Conc =75
 D126 Resin Conc =75

CORNER SECTION GRINDING WHEELS 6A9

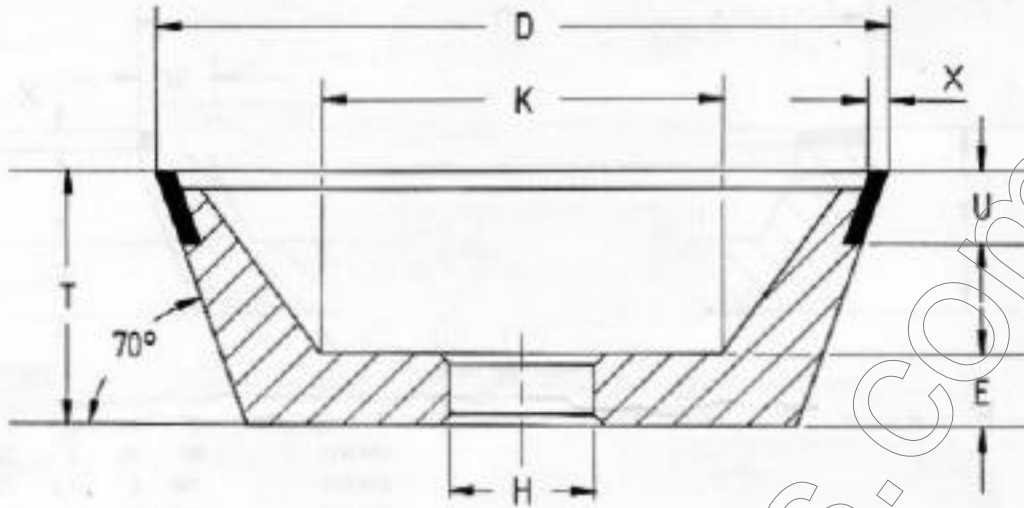


Catalogue No.	D	U	X	T	E	K
011.001	75	6	1.6	25	10	60
011.002	75	6	3	25	10	60
011.003	75	10	1.6	25	10	60
011.004	75	10	3	25	10	60
011.005	100	6	1.6	30	10	80
011.006	100	6	3	30	10	80
011.007	100	10	1.6	30	10	80
011.008	100	10	3	30	10	80

Catalogue No.	D	U	X	T	E	K
011.009	125	6	1.6	30	10	110
011.010	125	6	3	30	10	110
011.011	125	10	1.6	30	10	110
011.012	125	10	3	30	10	110
011.013	150	6	1.6	35	10	135
011.014	150	6	3	35	10	135
011.015	150	10	1.6	35	10	135
011.016	150	10	3	35	10	135

ORDERING EXAMPLE
 6A9 D=125 U=10 X=1.6 T=40 E=15 K=100 H=31.75
 or 011.011 H=31.75
 D107 Resin Conc =75
 D107 Resin Conc =75

D11V9 70°



Catalogue No.	D	X	U	T	E
019.001	18	1	3	13	4
019.002	25	1.6	6	20	6
019.003	35	1.6	6	23	6
019.004	38	1.6	6	23	8
019.005	50	1.6	6	25	8
019.006	57	1.6	6	25	8
019.007	75	1.6	10	30	10

Catalogue No.	D	X	U	T	E
019.008	75	3	10	30	10
019.009	90	1.6	10	35	10
019.010	90	3	10	35	10
019.011	100	1.6	10	35	10
019.012	100	3	10	35	10
019.013	125	1.6	11	40	10
019.014	125	3	11	40	10

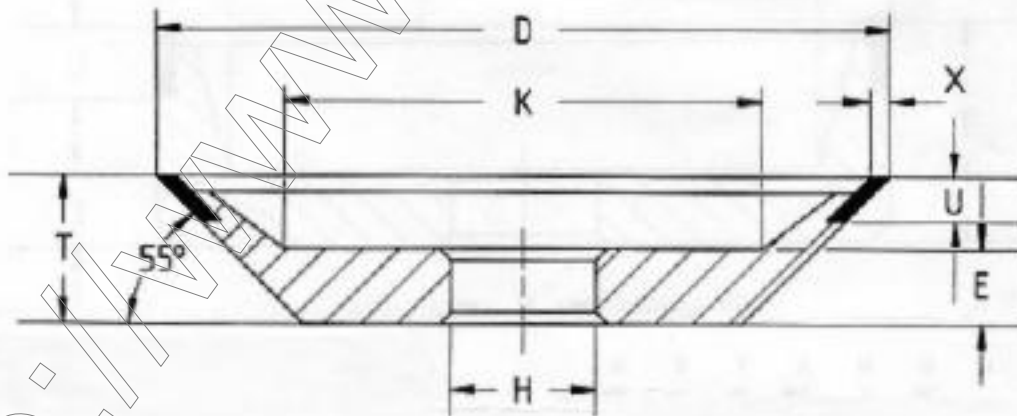
ORDERING EXAMPLE

11V9/70 D=90 X=1.6 U=10 T=35 E=10
or 019.009

H=31.75
H=31.75

D151 Resin Conc=75
D151 Resin Conc=75

D11V9 55°



Catalogue No.	D	X	U	T	E
020.001	90	1.6	10	28	10

Catalogue No.	D	X	U	T	E
020.002	125	1.6	10	25	10

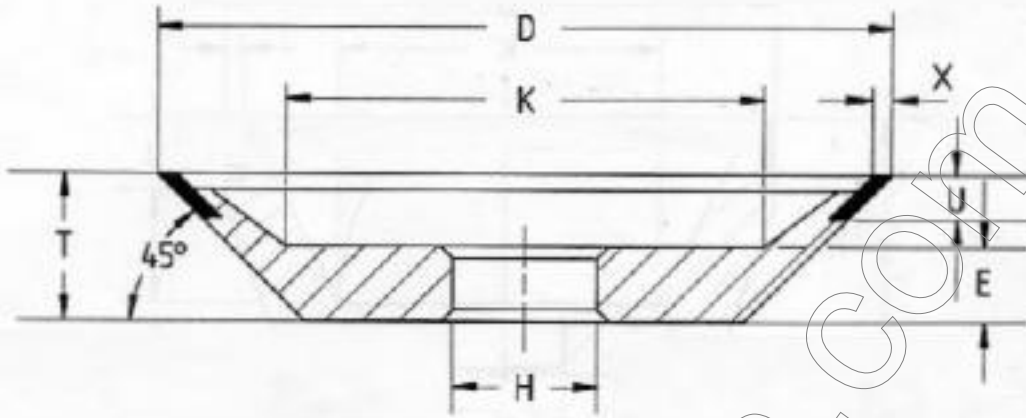
ORDERING EXAMPLE

11V9/55 D=90 X=1.6 U=10 T=28 E=10
or 020.001

H=31.75
H=31.75

D107 Resin Conc=100
D107 Resin Conc=100

D12V9 45°



Catalogue No.	D	X	U	T	E
021.001	90	1.6	10	22	10

Catalogue No.	D	X	U	T	E
021.002	125	1.6	10	25	10

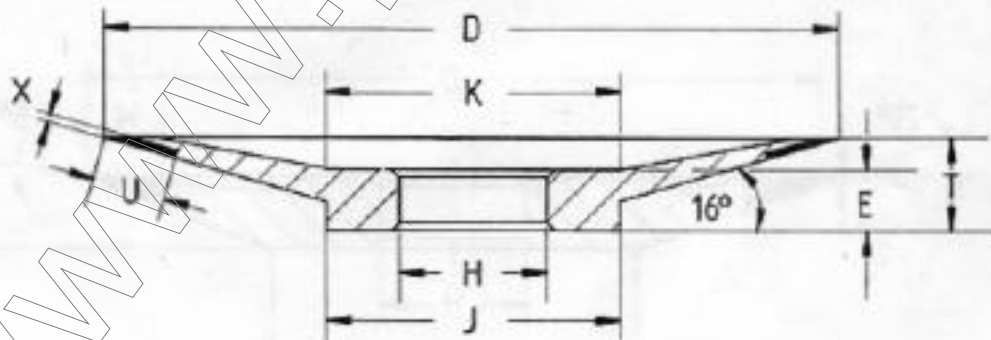
ORDERING EXAMPLE

12V9/45 D=90 X=1.6 U=10 T=22 E=10
or 021.001

H=20
H=20

D107 Resin Conc=75
D107 Resin Conc=75

DV12V9 16°



Catalogue No.	D	X	U	T	E	J
021.003	125	1.6	10	16	13	22

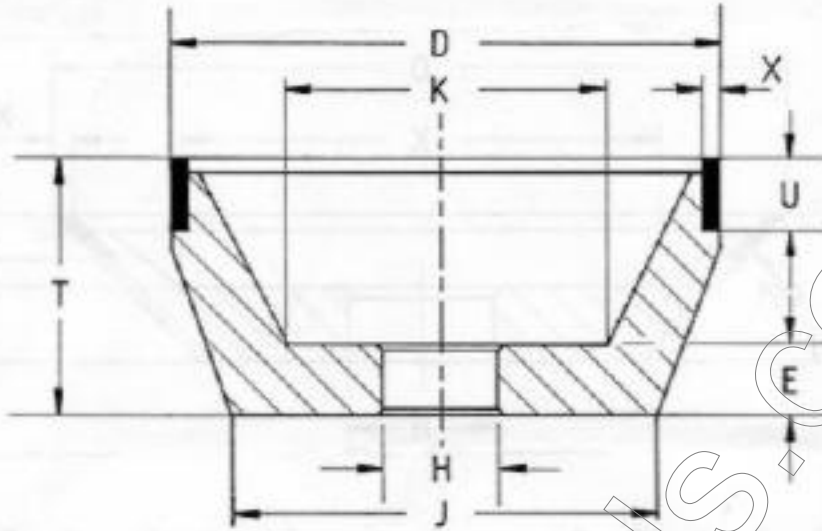
ORDERING EXAMPLE

12V9/16 D=125 X=1.6 U=10 T=16 E=10 J=22
or 021.003

H=31.75
H=31.75

D91 Resin Conc=75
D91 Resin Conc=75

TAPER CUP 11A9



Catalogue No.	D	X	U	T	E
017.001	83	1.5	10	35	10
017.002	83	3	10	35	10
017.003	125	1.5	10	40	10
017.004	125	3	10	40	10

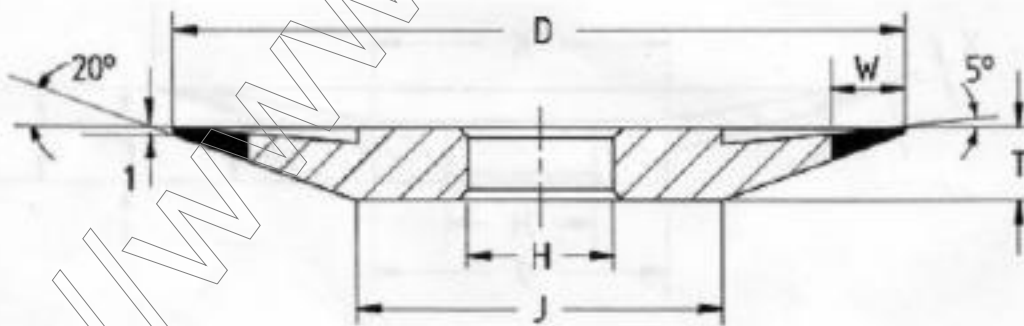
ORDERING EXAMPLE

11A9 D=100 X=3 U=10 T=40 E=10
or 017.003

H=20
H=20

D181 Resin Conc =100
D181 Resin Conc =100

4BT9



Catalogue No.	D	W	T	J
018.001	75	10	8	37
018.002	100	10	10	50
018.003	125	10	12	65

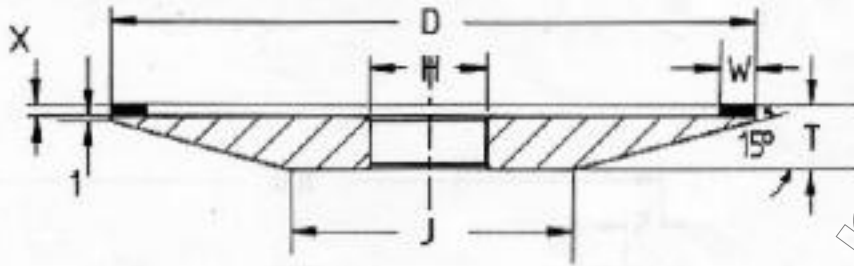
ORDERING EXAMPLE

4BT9 D=115 W=10 T=10 J=55
or 018.002

H=31.75
H=31.75

D126 Resin Conc =75
D126 Resin Conc =75

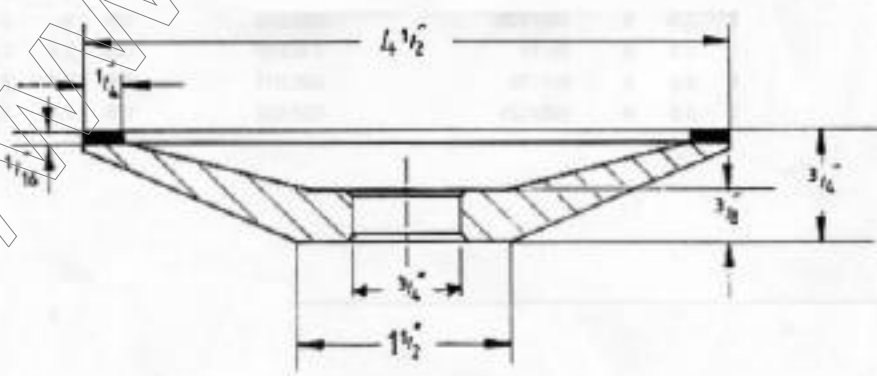
FACE GRIND WHEELS 4A2



Catalogue No.	D	W	X	T-X	J	Catalogue No.	D	W	X	T-X	J
031.001	75	3	1.5	6	37	031.021	125	10	1.5	10	58
031.002	75	3	3	6	37	031.022	125	10	3	10	58
031.003	75	5	1.5	6	37	031.023	150	5	1.5	12	68
031.004	75	5	3	6	37	031.024	150	5	3	12	68
031.005	100	3	1.5	8	48	031.025	150	6	1.5	12	68
031.006	100	3	3	8	48	031.026	150	6	3	12	68
031.007	100	5	1.5	8	48	031.027	150	10	1.5	12	68
031.008	100	5	3	8	48	031.028	150	10	3	12	68
031.009	100	6	1.5	8	48	031.029	175	6	1.5	14	78
031.010	100	6	3	8	48	031.030	175	6	3	14	78
031.011	115	3	1.5	9	55	031.031	175	10	1.5	14	78
031.012	115	3	3	9	55	031.032	175	10	3	14	78
031.013	115	5	1.5	9	55	031.033	200	6	1.5	16	88
031.014	115	5	3	9	55	031.034	200	6	3	16	88
031.015	115	6	1.5	9	55	031.035	200	10	1.5	16	88
031.016	115	6	3	9	55	031.036	200	10	3	16	88
031.017	125	5	1.5	10	58	031.037	250	6	1.5	20	108
031.018	125	5	3	10	58	031.038	250	6	3	20	108
031.019	125	6	1.5	10	58	031.039	250	10	1.5	20	108
031.020	125	6	3	10	58	031.040	250	10	3	20	108

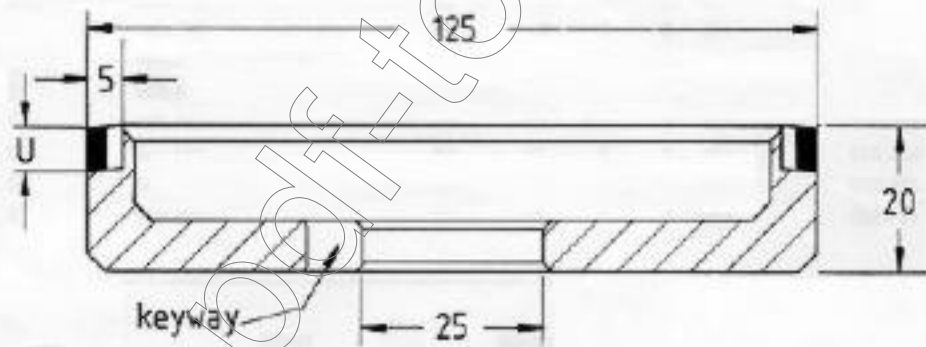
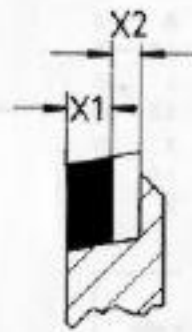
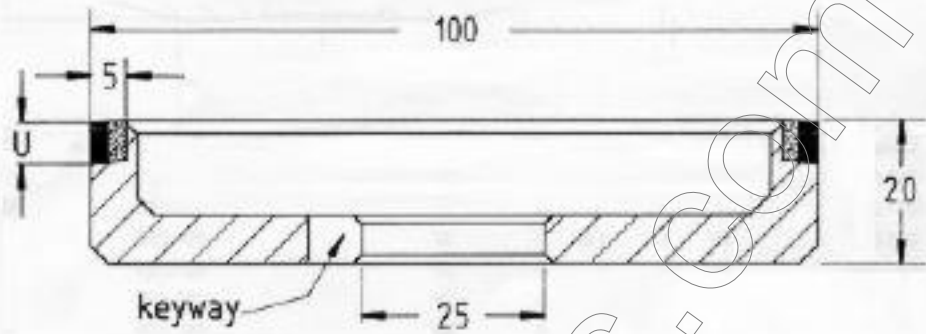
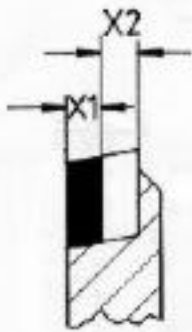
ORDERING EXAMPLE
 4A2 D=125 W=3 X=3 T=13 J=58 H=20 D91 Resin Conc=50
 or 031.018 H=20 D91 Resin Conc=50

AUTOOL TYPE



Catalogue No. 032.001

TWIN RIM WHEELS 6VV9



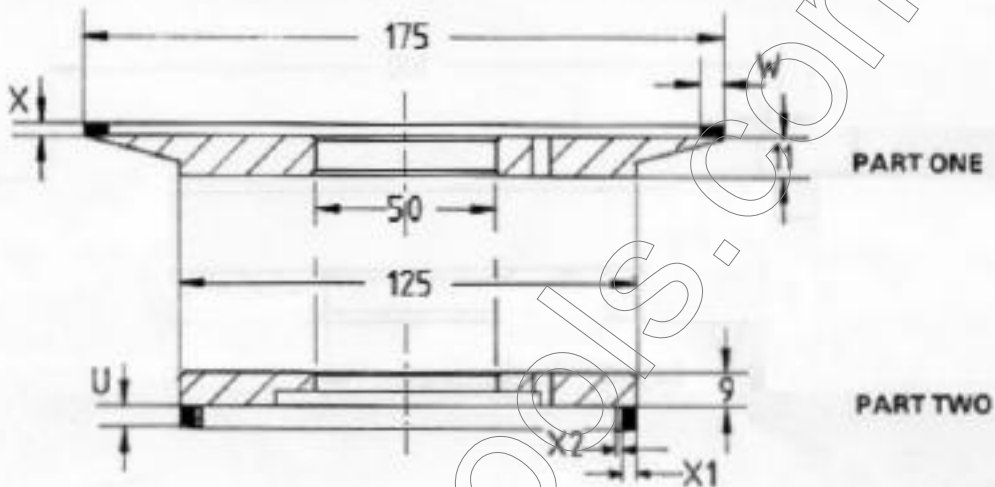
Catalogue No.	D	X1	X2	U	Concent
030.001	100	2.5	2.5	6	75/75
030.002	100	2.5	2.5	6	100/75
030.003	100	2.5	2.5	6	100/125
030.004	100	2.5	2.5	8	75/75
030.005	100	2.5	2.5	8	100/75
030.006	100	2.5	2.5	8	100/125

Catalogue No.	D	X1	X2	U	Concent
030.007	125	3	2	6	75/75
030.008	125	3	2	6	100/75
030.009	125	3	2	6	100/125
030.010	125	2.5	2.5	6	75/75
030.011	125	2.5	2.5	6	100/75
030.012	125	2.5	2.5	6	100/125

ORDERING EXAMPLE
TWIN RIM 030.003

D125/48

COMBINATION TOP GRIND & FACE GRIND VOLLMER DORNHAN



FACE GRIND

PART ONE

Catalogue No.	D	W	X	T-X	Concent
030.013	175	3	1.5	11	125
030.014	175	3	2	11	125
030.015	175	4	2	11	125
030.016	175	4	3	11	125

TOP GRINDING

PART TWO

Catalogue No.	D	X1	X2	U	Concent
030.017	125	3	2	6	100/75
030.018	125	3	2	6	100/125
030.019	125	3	2	8	100/75
030.020	125	3	2	8	100/125

ORDERING EXAMPLE

COMBINATION FACE GRIND D=175 W=5 X=2
or 030.016

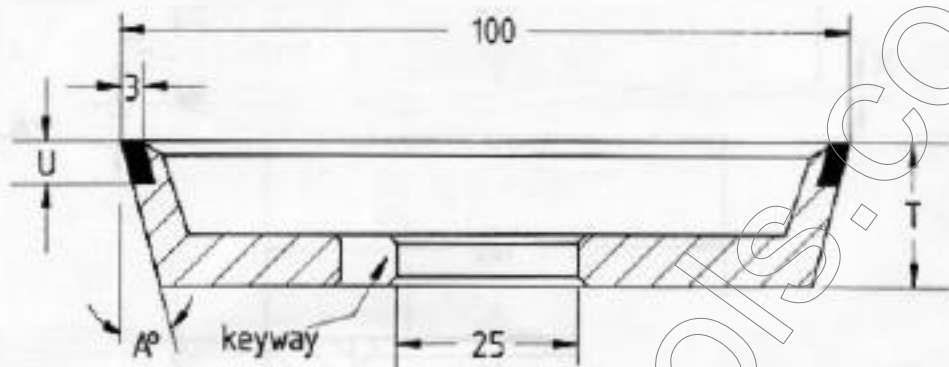
D125 Resin Conc=100
D125 Resin Conc=100

ORDERING EXAMPLE

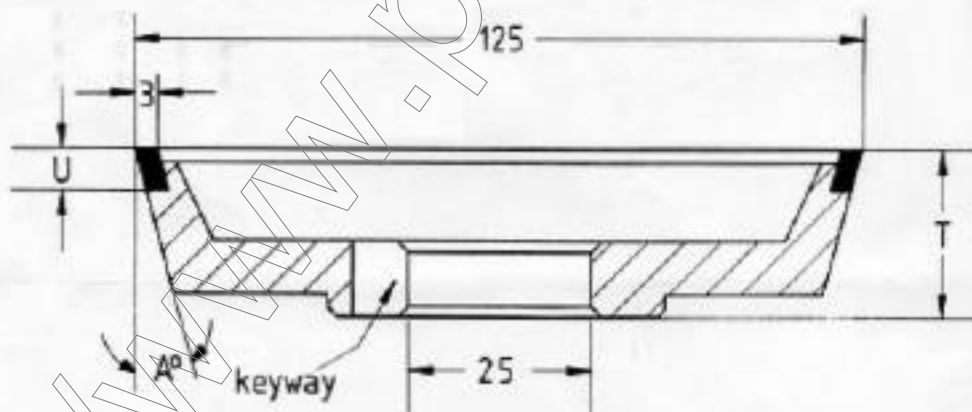
COMBINATION TOP GRIND 030.019

D125/46

VOLLMER TOP GRIND WHEELS

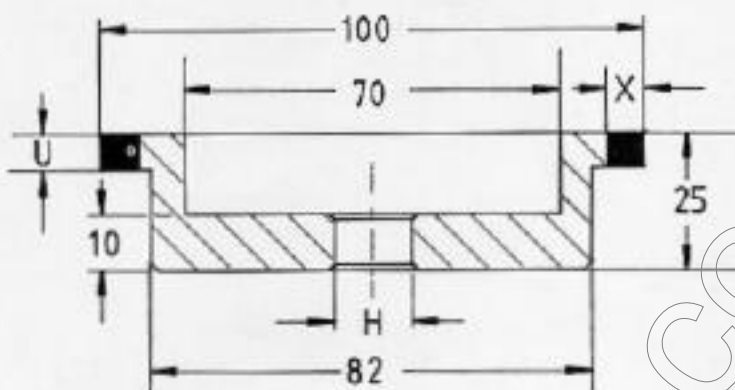


Catalogue No.	U	A°	Catalogue No.	U	A°
033.001	6	5	033.002	10	15



Catalogue No.	U	A°	Catalogue No.	U	A°
033.003	10	15	033.004	5	5

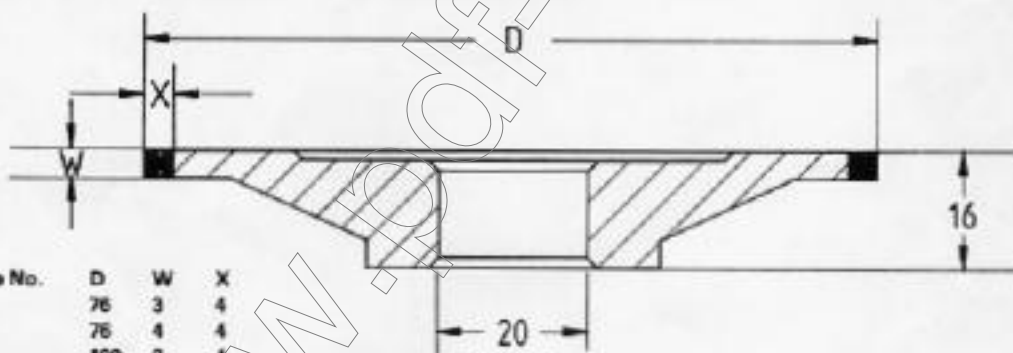
MANUAL SIDE GRIND WHEELS



Catalogue No.	U	X
035.001	4	4
035.002	5	5
035.003	6	6

ORDERING EXAMPLE
 MANUAL SIDE GRIND 035.002 H=20 D151 Resin Conc=100

VOLLMER DUO NORMAL SIDE GRINDING WHEELS



Catalogue No.	D	W	X
034.001	76	3	4
034.002	76	4	4
034.003	100	3	4
034.004	100	4	4

ORDERING EXAMPLE
 VOLLMER DUO 034.003 D181 Conc=100

HAND LAPS



DOUBLE ENDED
 DOUBLE

Catalogue No.	D
036.001	1.5
036.002	3

SINGLE ENDED
 SINGLE

Catalogue No.	D
036.003	1.5
036.004	3

ORDERING EXAMPLE
 HAND LAP DOUBLE 036.001 D91/46