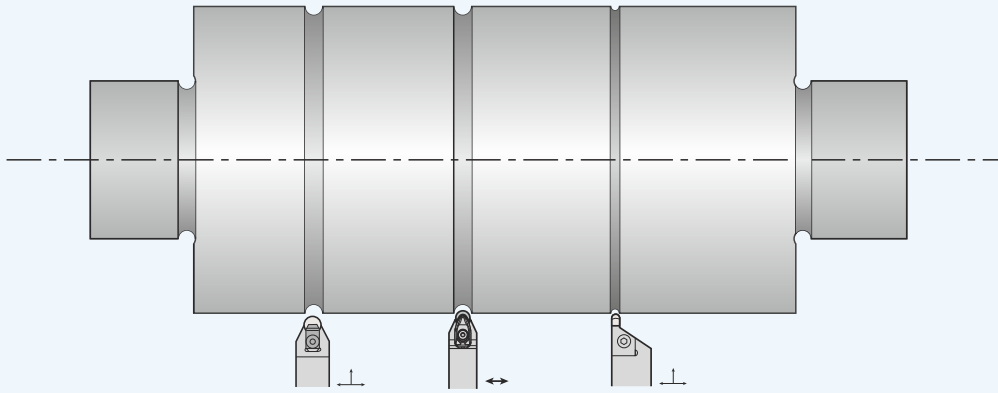


Roof Machining Catalog



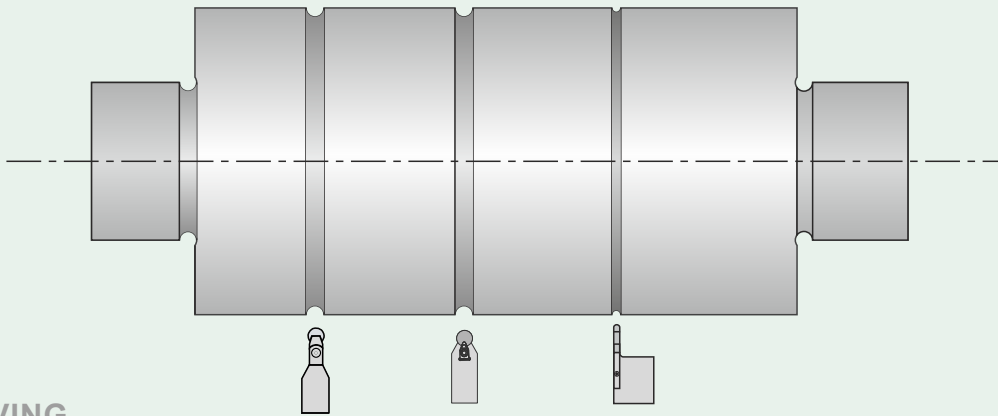
Sangeo
cutting tools



PCBN/ GROOVING

TUNGSTEN CARBIDE ROLLS

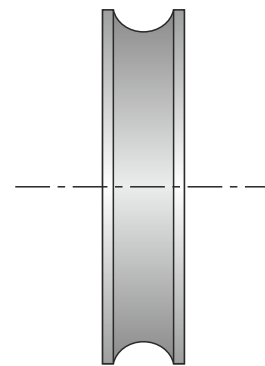
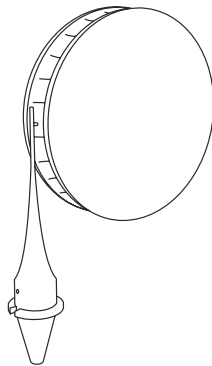
RCGX	RNGN	R(Type)
PCBN	PCBN	PCBN



CERAMIC/ GROOVING

DUCTILE CAST IRON ROLLS

RCGX	RNGN	SGR	SGF	SWRP
CERAMIC	CERAMIC	CERAMIC	CERAMIC	CERAMIC



PCBN - PCD - CARBIDE/ NOTCH

TUNGSTEN CARBIDE ROLLS

DUCTILE CAST IRON ROLLS

CBN-N-HF	CBN-N-FF	PCD-N-HF	PCD-N-FF	CRD-N-HF	CRD-N-FF
PCBN	PCBN	PCD	PCD	CARBIDE	CARBIDE



cutting tools

Pcbn



Pcd



Carbide



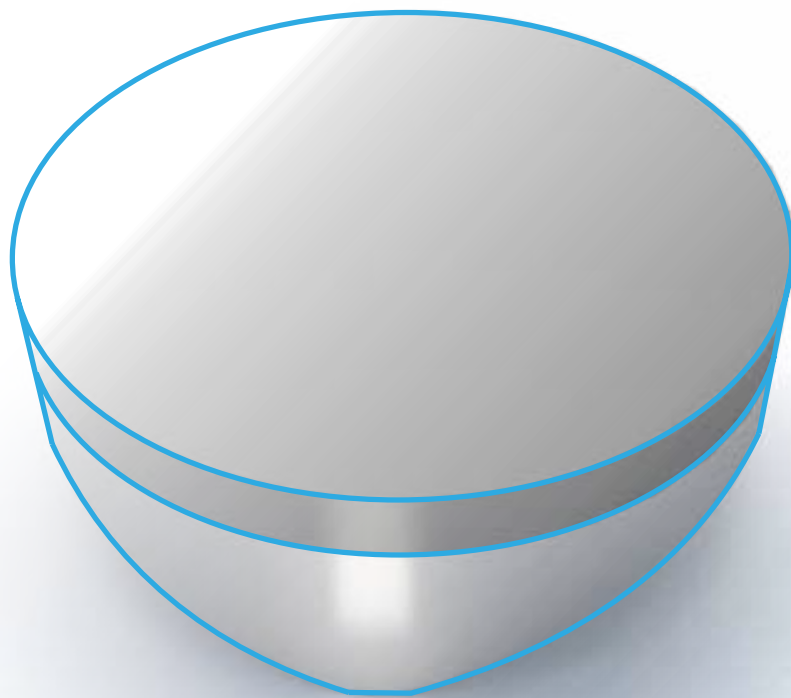
Ceramic



Holder

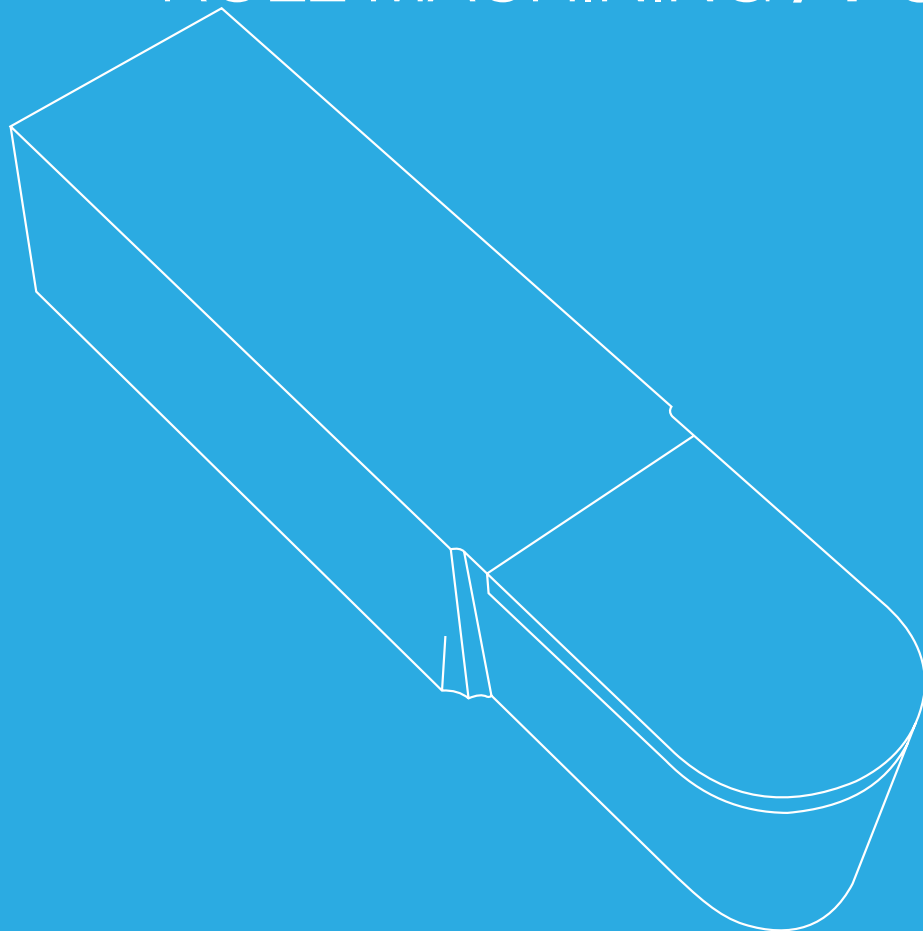


Grinding Wheel





ROLL MACHINING / PCBN



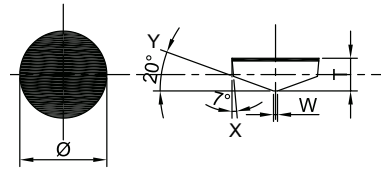
grooving tools
notch tools

PCBN

RCGX

360

PCBN/ GROOVING



HOLDERS



PCD

CARBIDE

CERAMIC

HOLDER

GROOVING WHEEL

DESCRIPTION

DIMENSIONS

PCBN

BC150

BC170

BC420

W

T(mm)

Ø

X

Y



RCGX060300

0.73

3.18

6.35

7°

20°

●

●

●

RCGX090300

0.75

3.18

9.525

7°

20°

●

●

●

RCGX120400

1.00

4.76

12.70

7°

20°

●

●

●

RCGX190600

4.00

6.35

19.05

7°

20°

●

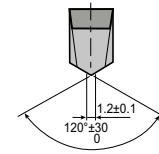
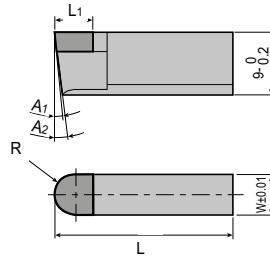
●

●

PCBN

R(Type)

PCBN/ GROOVING



HOLDERS

35

PCD

CARBIDE

CERAMIC

HOLDER

GROOVING WHEEL

DESCRIPTION

DIMENSIONS

PCBN

BC150

BC170

BC420

W

R

L1

A1

A2

L



3R-CBN-1.6T

4R-CBN-1.8T

6.0

3.0

5.3

6

-

25

●

●

●

8.0

4.0

6.5

6

-

25

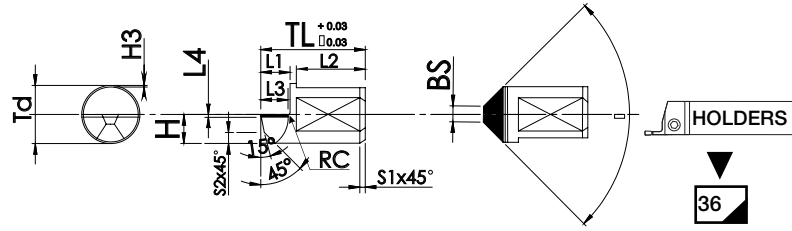
●

●

●

NOTCH TOOL

PCBN/ HALF FACE



PCBN


PCD

CARBIDE

CERAMIC

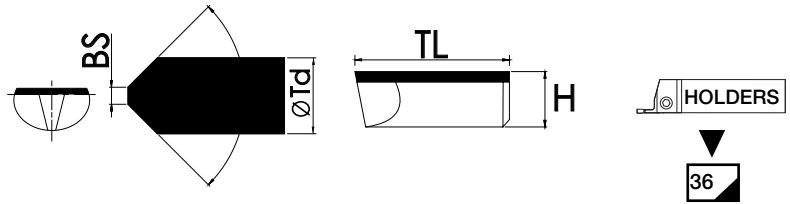
HOLDER

GROOVING WHEEL

DESCRIPTION	DIMENSIONS						PCBN				
	Dimension	Td(mm)	TL(mm)	BS(mm)	L1	H	BC150	BC170	BC420		
 CBN-N06-HF	N06	2.5	5.0	0.8	1.6	1.8	●	●	●		
CBN-N08-HF	N08	3.0	5.7	0.7	1.8	2.0	●	●	●		
CBN-N10-HF	N10	4.0	7.0	0.9	2.1	2.2	●	●	●		
CBN-N12-HF	N12	5.0	8.3	1.1	2.4	2.7	●	●	●		
CBN-N14-HF	N14	5.0	10.0	1.2	2.6	2.7	●	●	●		
CBN-N16-HF	N16	6.0	11.0	1.4	3.2	3.5	●	●	●		
CBN-N18-HF	N18	6.0	14.0	1.6	3.2	3.5	●	●	●		
CBN-N20-HF	N20	8.0	14.0	1.8	4.3	4.0	●	●	●		
CBN-N22-HF	N22	8.0	15.0	2.0	4.3	4.0	●	●	●		
CBN-N24-HF	N24	10.0	17.0	2.2	5.0	5.0	●	●	●		
CBN-N26-HF	N26	10.0	19.0	2.4	5.3	5.0	●	●	●		
CBN-N30-HF	N30	12.0	21.0	2.8	6.4	6.0	●	●	●		
CBN-N32-HF	N32	12.0	22.0	3.0	6.4	6.0	●	●	●		
CBN-N36-HF	N36	14.0	24.0	3.7	6.7	7.0	●	●	●		
CBN-N40-HF	N40	14.0	29.0	4.0	6.7	7.0	●	●	●		

PCBN

NOTCH TOOL



PCBN/ FULL FACE

PCD

CARBIDE

CERAMIC

HOLDER

GROOVING WHEEL

DESCRIPTION

DIMENSIONS

PCBN

BC150

BC170

BC420

Dimension

ØTd(mm)

TL(mm)

BS(mm)

H



CBN-N06-FF

N06

2.0

3.5

0.6

1.2

●

●

●

CBN-N06-FF

N06

2.5

4.0

0.7

1.3

●

●

●

CBN-N08-FF

N08

3.0

5.7

0.9

1.5

●

●

●

CBN-N10-FF

N10

4.0

7.0

1.0

2.0

●

●

●

CBN-N12-FF

N12

4.0

9.0

1.0

2.0

●

●

●

CBN-N14-FF

N14

5.0

10.0

1.4

2.5

●

●

●

CBN-N16-FF

N16

6.0

12.0

1.6

3.0

●

●

●

CBN-N18-FF

N18

6.0

13.0

1.8

3.0

●

●

●

CBN-N25-FF

N25

7.0

15.0

2.5

3.5

●

●

●

CBN-N32-FF

N32

9.0

19.4

3.2

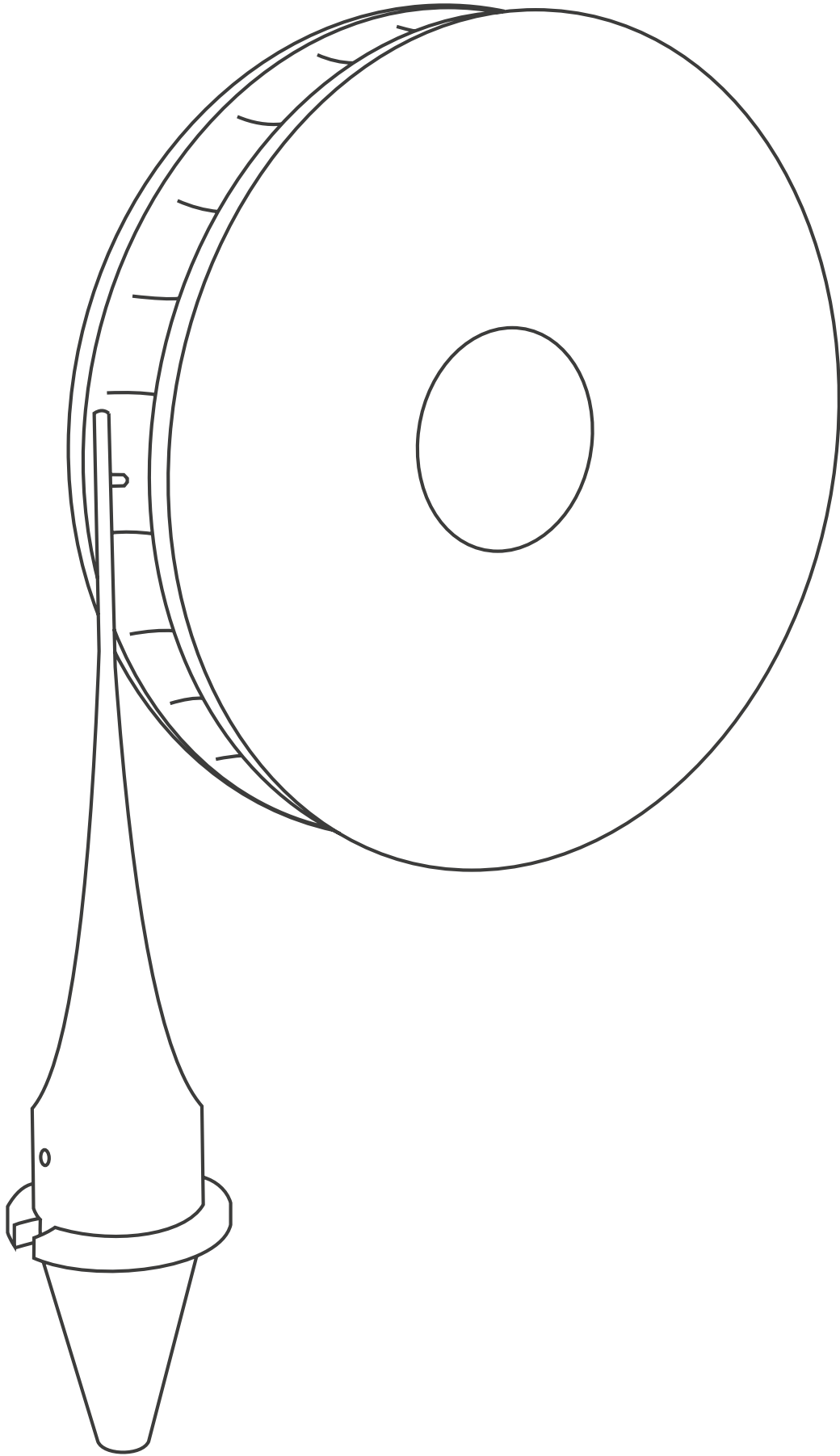
4.5

●

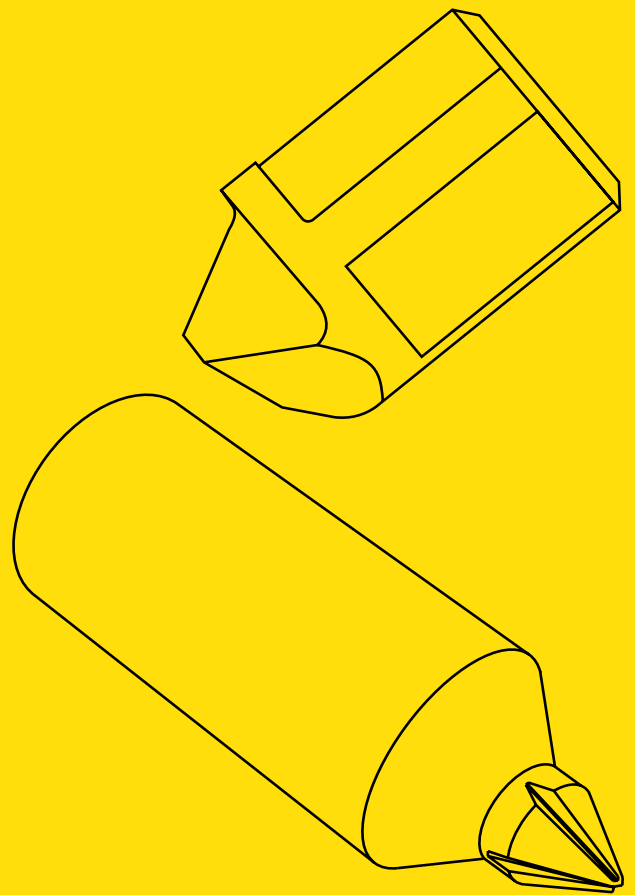
●

●





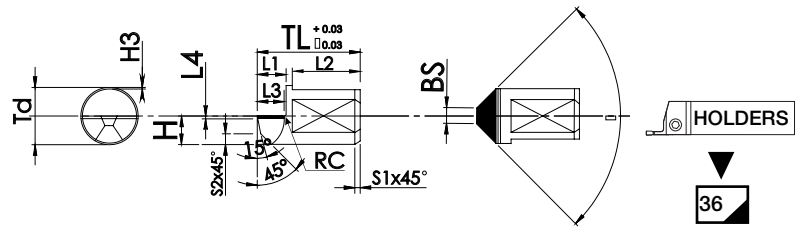
ROLL MACHINING / PCD



notch tools
marking tools

NOTCH TOOL

PCD/ HALF FACE



PCBN

PCD

CARBIDE

CERAMIC

HOLDER

GROOVING WHEEL

DESCRIPTION

DIMENSIONS

PCD

PC100

PC150

PC200

PC300

Dimension

Td(mm)

TL(mm)

BS(mm)

L1

H



PCD-N06-HF

N06

2.5

5.0

0.8

1.6

1.8

●

●

●

●

PCD-N08-HF

N08

3.0

5.7

0.7

1.8

2.0

●

●

●

●

PCD-N10-HF

N10

4.0

7.0

0.9

2.1

2.2

●

●

●

●

PCD-N12-HF

N12

5.0

8.3

1.1

2.4

2.7

●

●

●

●

PCD-N14-HF

N14

5.0

10.0

1.2

2.6

2.7

●

●

●

●

PCD-N16-HF

N16

6.0

11.0

1.4

3.2

3.5

●

●

●

●

PCD-N18-HF

N18

6.0

14.0

1.6

3.2

3.5

●

●

●

●

PCD-N20-HF

N20

8.0

14.0

1.8

4.3

4.0

●

●

●

●

PCD-N22-HF

N22

8.0

15.0

2.0

4.3

4.0

●

●

●

●

PCD-N24-HF

N24

10.0

17.0

2.2

5.0

5.0

●

●

●

●

PCD-N26-HF

N26

10.0

19.0

2.4

5.3

5.0

●

●

●

●

PCD-N30-HF

N30

12.0

21.0

2.8

6.4

6.0

●

●

●

●

PCD-N32-HF

N32

12.0

22.0

3.0

6.4

6.0

●

●

●

●

PCD-N36-HF

N36

14.0

24.0

3.7

6.7

7.0

●

●

●

●

PCD-N40-HF

N40

14.0

29.0

4.0

6.7

7.0

●

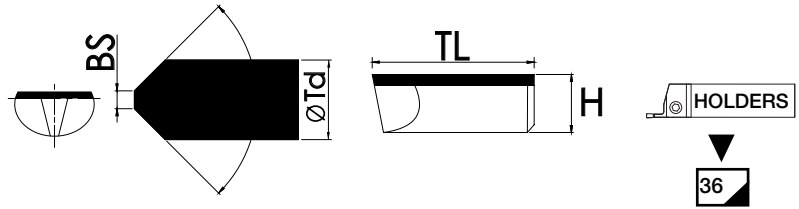
●

●

●

NOTCH TOOL

PCD/ FULL FACE



PCBN


PCD

CARBIDE

CERAMIC

HOLDER

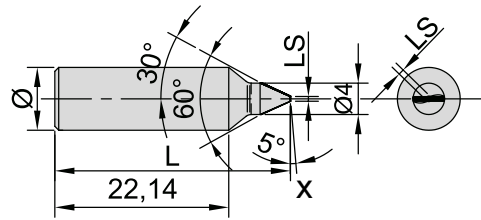
GROOVING WHEEL

DESCRIPTION	DIMENSIONS					PCD						
	Dimension	ØTd(mm)	TL(mm)	BS(mm)	H	PC100	PC150	PC200	PC300			
	PCD-N06-FF	N06	2.0	3.5	0.6	1.2	●	●	●	●		
	PCD-N06-FF	N06	2.5	4.0	0.7	1.3	●	●	●	●		
	PCD-N08-FF	N08	3.0	5.7	0.9	1.5	●	●	●	●		
	PCD-N10-FF	N10	4.0	7.0	1.0	2.0	●	●	●	●		
	PCD-N12-FF	N12	4.0	9.0	1.0	2.0	●	●	●	●		
	PCD-N14-FF	N14	5.0	10.0	1.4	2.5	●	●	●	●		
	PCD-N16-FF	N16	6.0	12.0	1.6	3.0	●	●	●	●		
	PCD-N18-FF	N18	6.0	13.0	1.8	3.0	●	●	●	●		
	PCD-N25-FF	N25	7.0	15.0	2.5	3.5	●	●	●	●		
	PCD-N32-FF	N32	9.0	19.4	3.2	4.5	●	●	●	●		

PCBN

MARKING TOOL

PCD



PCD

DESCRIPTION

DIMENSIONS

PCD

PC100

PC150

PC200

PC300

Ø(mm)

L

LS

Shaft Dia

X



PCD-MT08

PCD-MT10

PCD-MT12

PCD-MT15

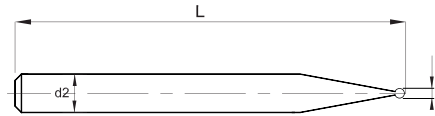
PCD-MT18

CARBIDE

CERAMIC

MARKING TOOL

ELECTROPLATE



HOLDER

DESCRIPTION

DIMENSIONS

ELECTROPLATE

ELP01

Dimension

L

Shaft Dia



ELP-MT10

ELP-MT12

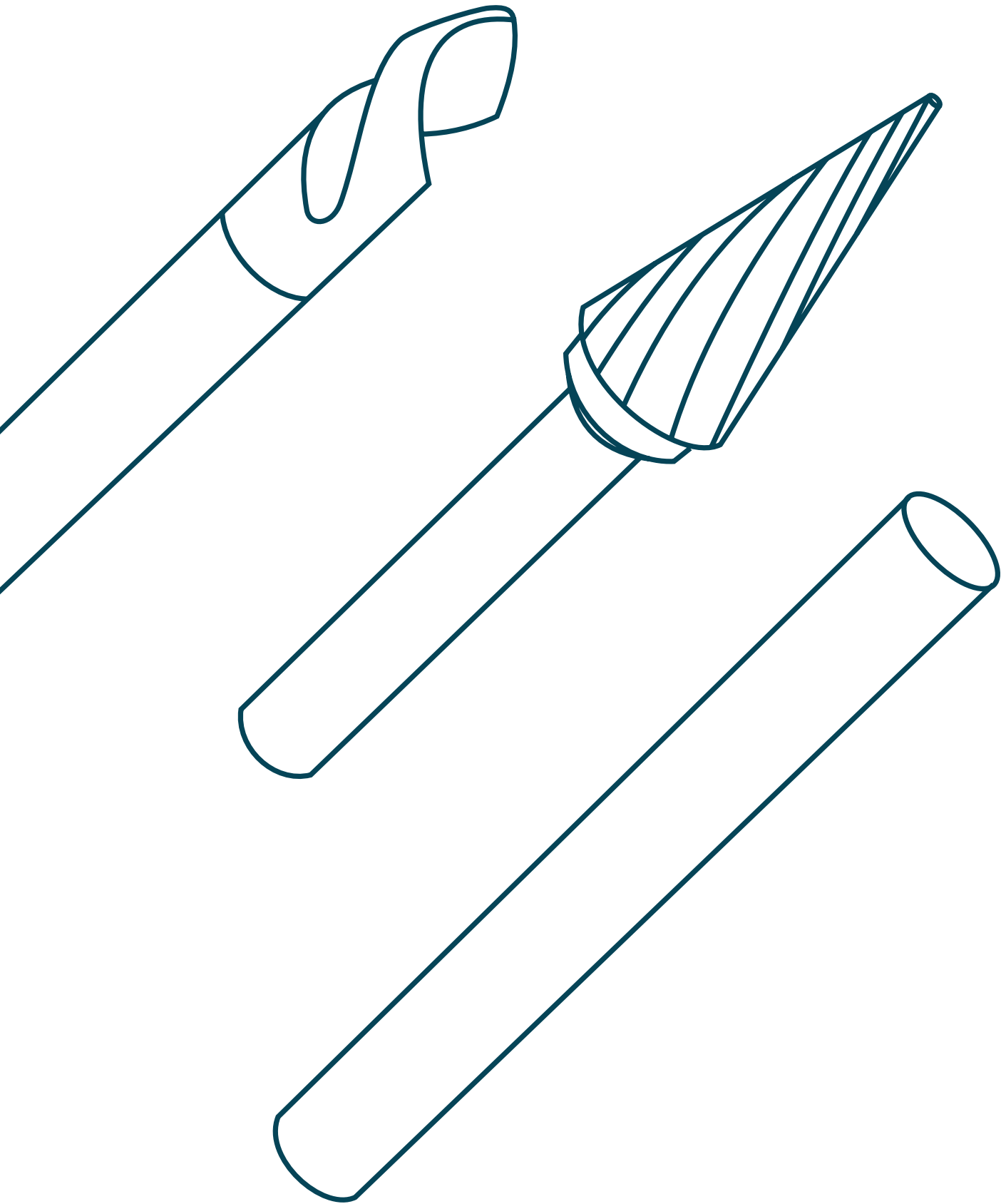
ELP-MT14

ELP-MT18

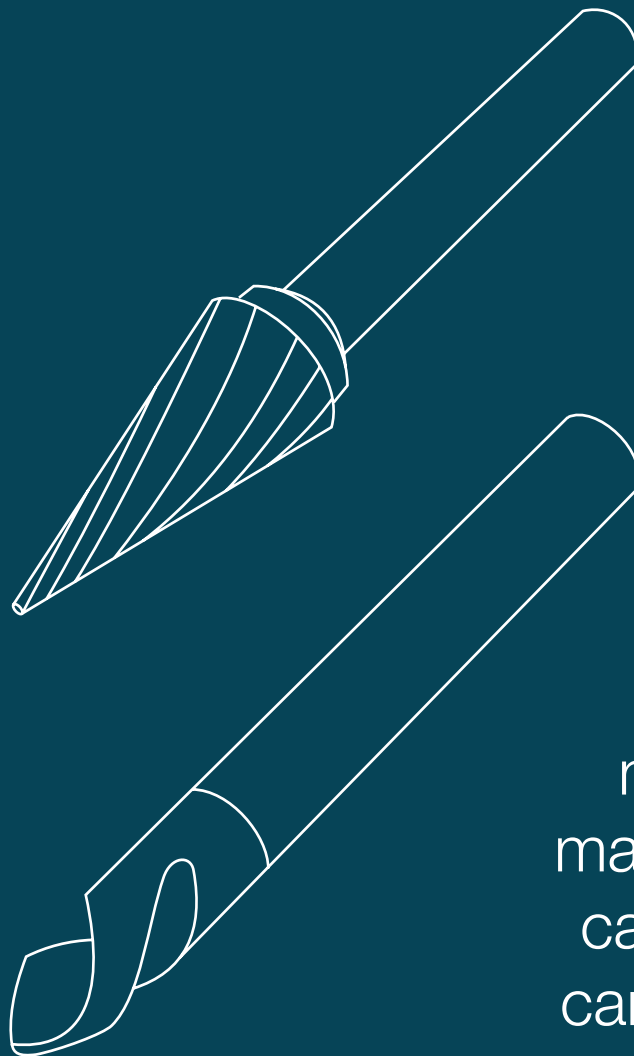
ELP-MT20

GROOVING WHEEL





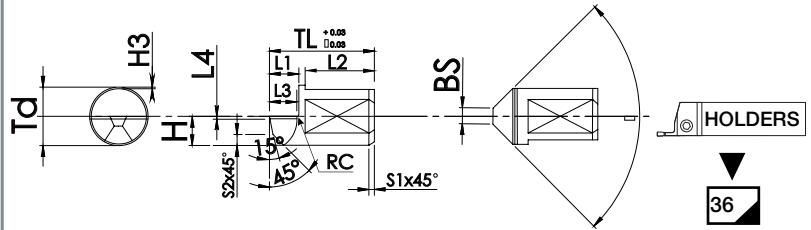
ROLL MACHINING / CARBIDE



notch tools
marking tools
carbide rods
carbide burrs

NOTCH TOOL

CARBIDE/ HALF FACE



DESCRIPTION

DIMENSIONS

CARBIDE

US8305

US8310

Dimension

Td(mm)

TL(mm)

BS(mm)

L1

H



CRD-N06-HF

N06

2.5

5.0

0.8

1.6

1.8

●

●

CRD-N08-HF

N08

3.0

5.7

0.7

1.8

2.0

●

●

CRD-N10-HF

N10

4.0

7.0

0.9

2.1

2.2

●

●

CRD-N12-HF

N12

5.0

8.3

1.1

2.4

2.7

●

●

CRD-N14-HF

N14

5.0

10.0

1.2

2.6

2.7

●

●

CRD-N16-HF

N16

6.0

11.0

1.4

3.2

3.5

●

●

CRD-N18-HF

N18

6.0

14.0

1.6

3.2

3.5

●

●

CRD-N20-HF

N20

8.0

14.0

1.8

4.3

4.0

●

●

CRD-N22-HF

N22

8.0

15.0

2.0

4.3

4.0

●

●

CRD-N24-HF

N24

10.0

17.0

2.2

5.0

5.0

●

●

CRD-N26-HF

N26

10.0

19.0

2.4

5.3

5.0

●

●

CRD-N30-HF

N30

12.0

21.0

2.8

6.4

6.0

●

●

CRD-N32-HF

N32

12.0

22.0

3.0

6.4

6.0

●

●

CRD-N36-HF

N36

14.0

24.0

3.7

6.7

7.0

●

●

CRD-N40-HF

N40

14.0

29.0

4.0

6.7

7.0

●

●

CRD-N50-HF

N50

16.0

36.0

5.0

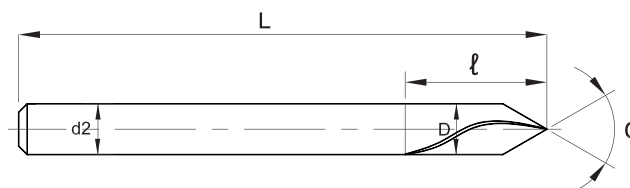
7.5

8.0

●

●

MARKING TOOL



CARBIDE

PCBN

PCD

CARBIDE

CERAMIC

HOLDER

GROOVING WHEEL

CARBIDE

DESCRIPTION

DIMENSIONS

US8305

US8310

D

L

l

d2

a

CRD-MT-6

Ø 6 (mm)

60 mm

12 mm

Ø 6 (mm)

60°

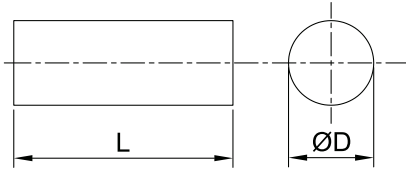
•

•



CARBIDE ROD

CARBIDE

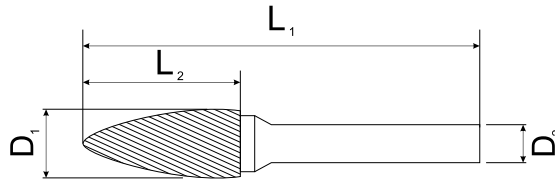


DESCRIPTION	DIMENSIONS						CARBIDE				
	ØD	L					US8305	US8310			
	CRD-ROD5	05.0	100 mm				•	•			
	CRD-ROD6	06.0	100 mm				•	•			
	CRD-ROD7	07.0	100 mm				•	•			
	CRD-ROD8	08.0	100 mm				•	•			
	CRD-ROD9	09.0	100 mm				•	•			
	CRD-ROD10	10.0	100 mm				•	•			
	CRD-ROD11	11.0	100 mm				•	•			
	CRD-ROD12	12.0	100 mm				•	•			
	CRD-ROD13	13.0	100 mm				•	•			
	CRD-ROD14	14.0	100 mm				•	•			
CRD-ROD15	15.0	100 mm				•	•				
CRD-ROD16	16.0	100 mm				•	•				
CRD-ROD17	17.0	100 mm				•	•				
CRD-ROD18	18.0	100 mm				•	•				
CRD-ROD19	19.0	100 mm				•	•				
CRD-ROD20	20.0	100 mm				•	•				

- PCBN
- PCD
- CARBIDE
- CERAMIC
- HOLDER
- GROOVING WHEEL

PCBN

CARBIDE BURRS



TREE SHAPED/ CARBIDE

PCD

DESCRIPTION

DIMENSIONS

CARBIDE

US8305

US8310

D_1

D_2

L_1

L_2



SAG0616

6

6

61

16

●

●

SAG0820

8

6

65

20

●

●

SAG1020

10

6

65

20

●

●

SAG1225

12

6

70

25

●

●

SAG1625

16

6

70

25

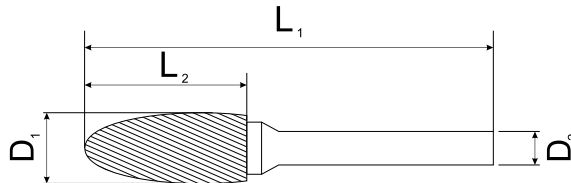
●

●

CARBIDE

CERAMIC

CARBIDE BURRS



TREE SHAPED/ CARBIDE

HOLDER

DESCRIPTION

DIMENSIONS

CARBIDE

US8305

US8310

D_1

D_2

L_1

L_2



SAH0616

6

6

61

16

●

●

SAH0820

8

6

65

20

●

●

SAH1020

10

6

65

20

●

●

SAH1232

12

6

77

32

●

●

SAH1636

16

6

81

36

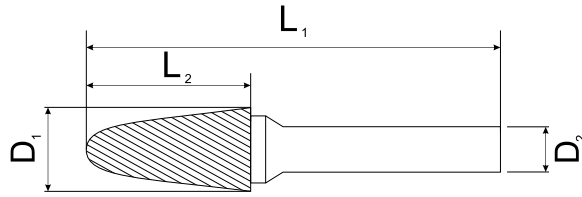
●

●

GROOVING WHEEL

CARBIDE BURRS

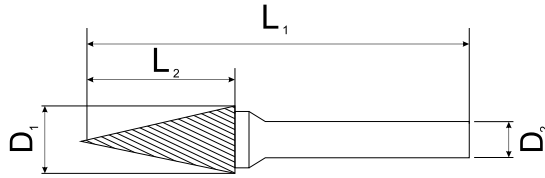
TREE SHAPED/ CARBIDE



DESCRIPTION		DIMENSIONS						CARBIDE				
								US8305	US8310			
		D1	D2	L1	L2							
	SAL0616	6	6	61	16	●	●					
	SAL0822	8	6	67	22	●	●					
	SAL1025	10	6	70	25	●	●					
	SAL1228	12	6	73	28	●	●					
	SAL1633	16	6	78	33	●	●					

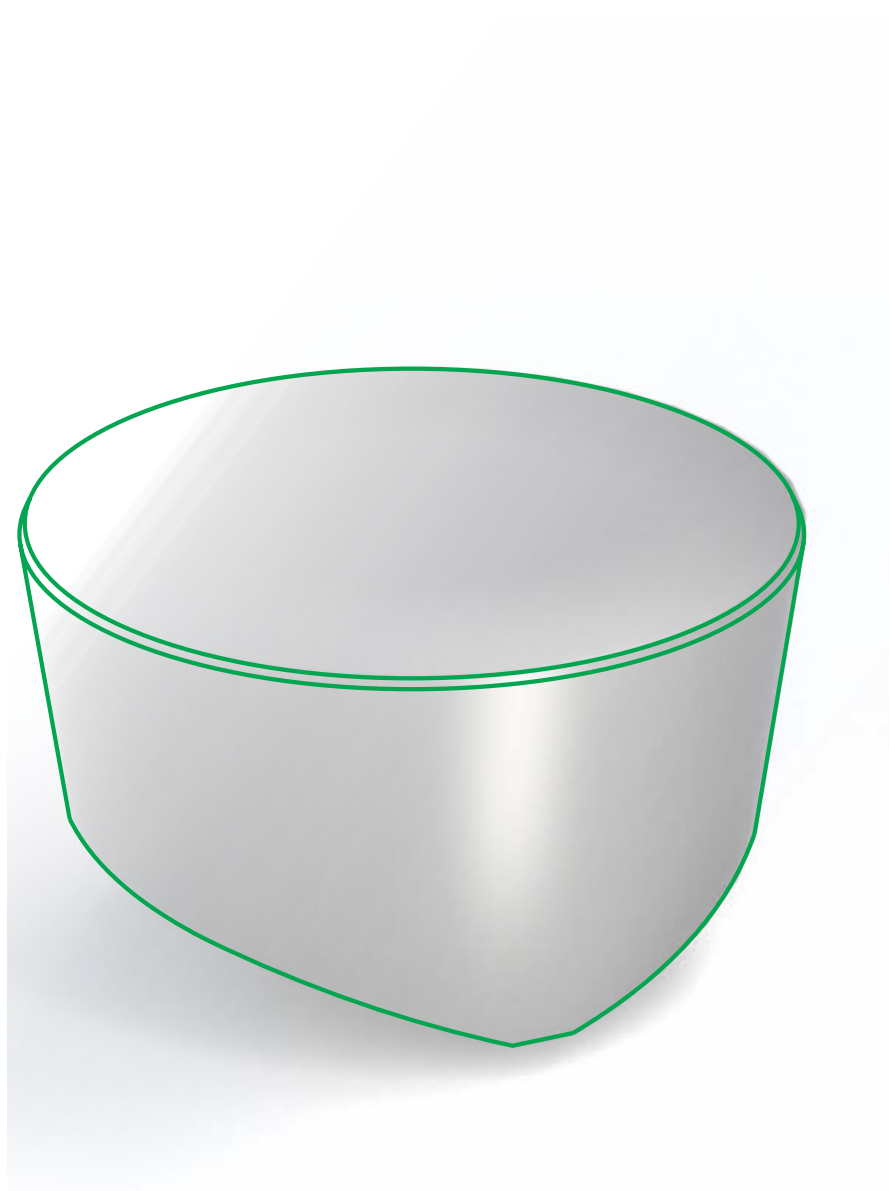
CARBIDE BURRS

CONE SHAPED/ CARBIDE



DESCRIPTION		DIMENSIONS						CARBIDE				
								US8305	US8310			
		D1	D2	L1	L2							
	SAM0616	6	6	61	16	●	●					
	SAM0820	8	6	65	20	●	●					
	SAM1020	10	6	65	20	●	●					
	SAM1225	12	6	70	25	●	●					
	SAM1625	16	6	70	25	●	●					

- PCBN
- PCD
- CARBIDE
- CERAMIC
- HOLDER
- GROOVING WHEEL



ROLL MACHINING / CERAMIC



Grades

	ISO DIN 513														
	K					H					S				
	K01	K10	K20	K30	K40	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40
PCBN															
PCD															
CARBIDE															
CERAMIC															
HOLDER															
GROOVING WHEEL															
AL ₂ O ₃ + TiC(N)						KS8110									
						KS8130									
						KS8150									
						KS8170									
AL ₂ O ₃ + TiC(N) PVD						KSC8110									
						KSC8130									
AL ₂ O ₃ + ZrO ₂	KZ4120														
	KZ4130														
Si ₃ N ₄	KN4110														
	KN4120														
	KN4130														
	KN4140														
	KN4150														
TiC + AL ₂ O ₃	KA4110														
SiAlON											KL7110				
											KL7120				
Whisker											KW7110				
											KW7120				

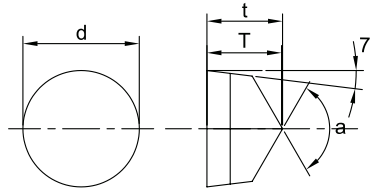
COATED

ROLL MACHINING

RCGX

360

CERAMIC/ TURNING INSERT



HOLDERS

38

PCBN

PCD

CARBIDE

CERAMIC

HOLDER

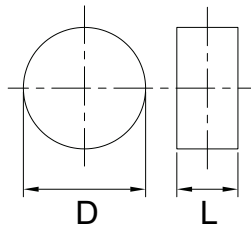
GROOVING WHEEL

DESCRIPTION	DIMENSIONS				CERAMIC								
	D	t	T	a	KS8110	KS8130	KS8150	KS7170	KSC8110	KSC8130	KW7110	KW7120	
	RCGX060400	6.35	4.8	4.57	120°	●	●	●		●	●	●	●
	RCGX060600	6.35	6.4	6.2	120°	●	●	●		●	●	●	●
	RCGX060700	6.35	7.9	7.7	120°	●	●	●		●	●	●	●
	RCGX090700	9.52	7.9	7.7	120°	●	●	●		●	●	●	●
	RCGX120700	12.7	7.9	7.7	120°	●	●	●		●	●	●	●
	RCGX151000	15.9	10	9.77	120°	●	●	●		●	●	●	●
	RCGX191000	19.1	10	9.77	120°	●	●	●		●	●	●	●
	RCGX251200	25.4	12	11.9	140°	●	●	●		●	●	●	●

RNGN

360

CERAMIC/ TURNING INSERT



HOLDERS

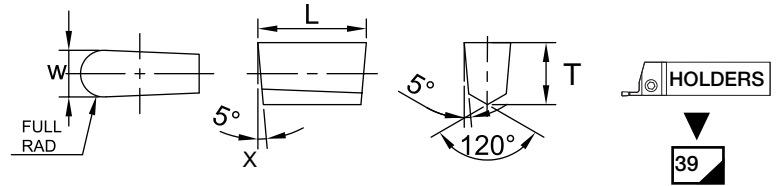
40

DESCRIPTION	DIMENSIONS				CERAMIC								
	D	L	T	A	KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KW7110	KW7120	
	RNGN120400	12.7	4.76	-	-	●	●	●			●	●	
	RNGN120700	12.7	7.94	-	-	●	●	●			●	●	
	RNGN190700	19.05	7.94	-	-	●	●	●			●	●	

PCBN

SGR

CERAMIC/ GROOVING



PCD

DESCRIPTION

DIMENSIONS

CERAMIC

KS8110

KS8130

KS8150

KS8170

KSC8110

KSC8130

KW7110

KW7120

W

T

L

X



SGR4012

4.00

5.00

12

5°

●

●

●

●

●

●

SGR5012

5.00

5.00

12

5°

●

●

●

●

●

●

SGR6015

6.00

7.50

15

5°

●

●

●

●

●

●

SGR7015

7.00

7.50

15

5°

●

●

●

●

●

●

SGR8015

8.00

7.50

15

5°

●

●

●

●

●

●

SGR1015

10.00

7.50

15

5°

●

●

●

●

●

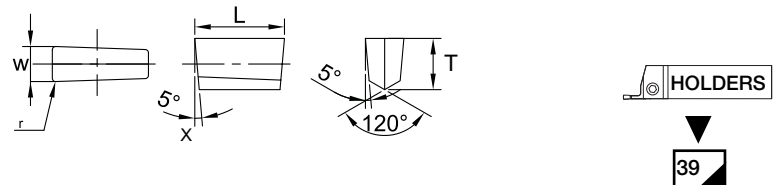
●

CARBIDE

CERAMIC

SGF

CERAMIC/ GROOVING



DESCRIPTION

DIMENSIONS

CERAMIC

KS8110

KS8130

KS8150

KS8170

KSC8110

KSC8130

KW7110

KW7120

W

T

L

X



SGF4012

4.00

5.00

12

5°

●

●

●

●

●

●

SGF5012

5.00

5.00

12

5°

●

●

●

●

●

●

SGF6015

6.00

7.50

15

5°

●

●

●

●

●

●

SGF7015

7.00

7.50

15

5°

●

●

●

●

●

●

SGF8015

8.00

7.50

15

5°

●

●

●

●

●

●

SGF1015

10.00

7.50

15

5°

●

●

●

●

●

●

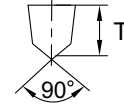
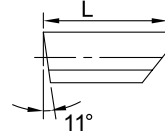
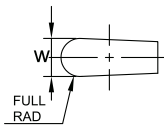
HOLDER

GROOVING WHEEL

ROLL MACHINING

SWRP

CERAMIC/ GROOVING



HOLDERS

39

PCBN


PCD

CARBIDE

CERAMIC

HOLDER

GROOVING WHEEL

DESCRIPTION	DIMENSIONS					CERAMIC							
						KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KW7110	KW7120
	W	T	L	X									
	SWRP094050	2.388	4.75	12.7	-								●
	SWRP125050	3.175	4.75	12.7	-								●
	SWRP156050	3.962	4.75	12.7	-								●
	SWRP187050	4.750	4.75	12.7	-								●
	SWRP218075	5.537	6.35	19.05	-							●	●
	SWRP250075	6.350	6.35	19.05	-							●	●
	SWRP281075	7.137	6.35	19.05	-							●	●
	SWRP312100	7.925	8.56	25.40	-							●	●
	SWRP344100	8.738	8.56	25.40	-								●
	SWRP375100	9.525	8.56	25.40	-								●

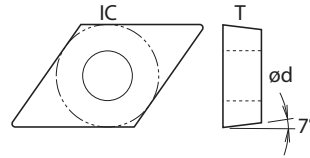
PCBN

DNGA



55

CERAMIC/ TURNING



PCD

DESCRIPTION

DIMENSIONS

CERAMIC

KS8110

KS8130

KS8150

KS8170

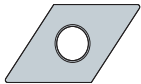
KSC8110

KSC8130

KW7110

KW7120

CARBIDE



DESCRIPTION	DIMENSIONS			KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KW7110	KW7120
	IC	T	ØD								
DNGA150404	12,7	4,76	5,16	●	●	●		●	●	●	●
DNGA150408	12,7	4,76	5,16	●	●	●		●	●	●	●
DNGA150412	12,7	4,76	5,16	●	●	●		●	●	●	●
DNGA150604	12,7	6,35	5,16	●	●	●		●	●	●	●
DNGA150608	12,7	6,35	5,16	●	●	●		●	●	●	●
DNGA150612	12,7	6,35	5,16	●	●	●		●	●	●	●
DNGA150616	12,7	6,35	5,16	●	●	●		●	●	●	●
DNGA150704	12,7	7,94	5,16	●	●	●		●	●	●	●
DNGA150708	12,7	7,94	5,16	●	●	●		●	●	●	●
DNGA150712	12,7	7,94	5,16	●	●	●		●	●	●	●

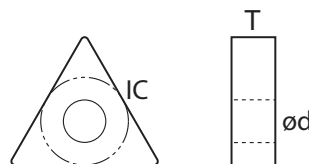
CERAMIC

TNGA



60

CERAMIC/ TURNING



HOLDER

DESCRIPTION

DIMENSIONS

CERAMIC

KS8110

KS8130

KS8150

KS8170

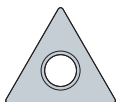
KSC8110

KSC8130

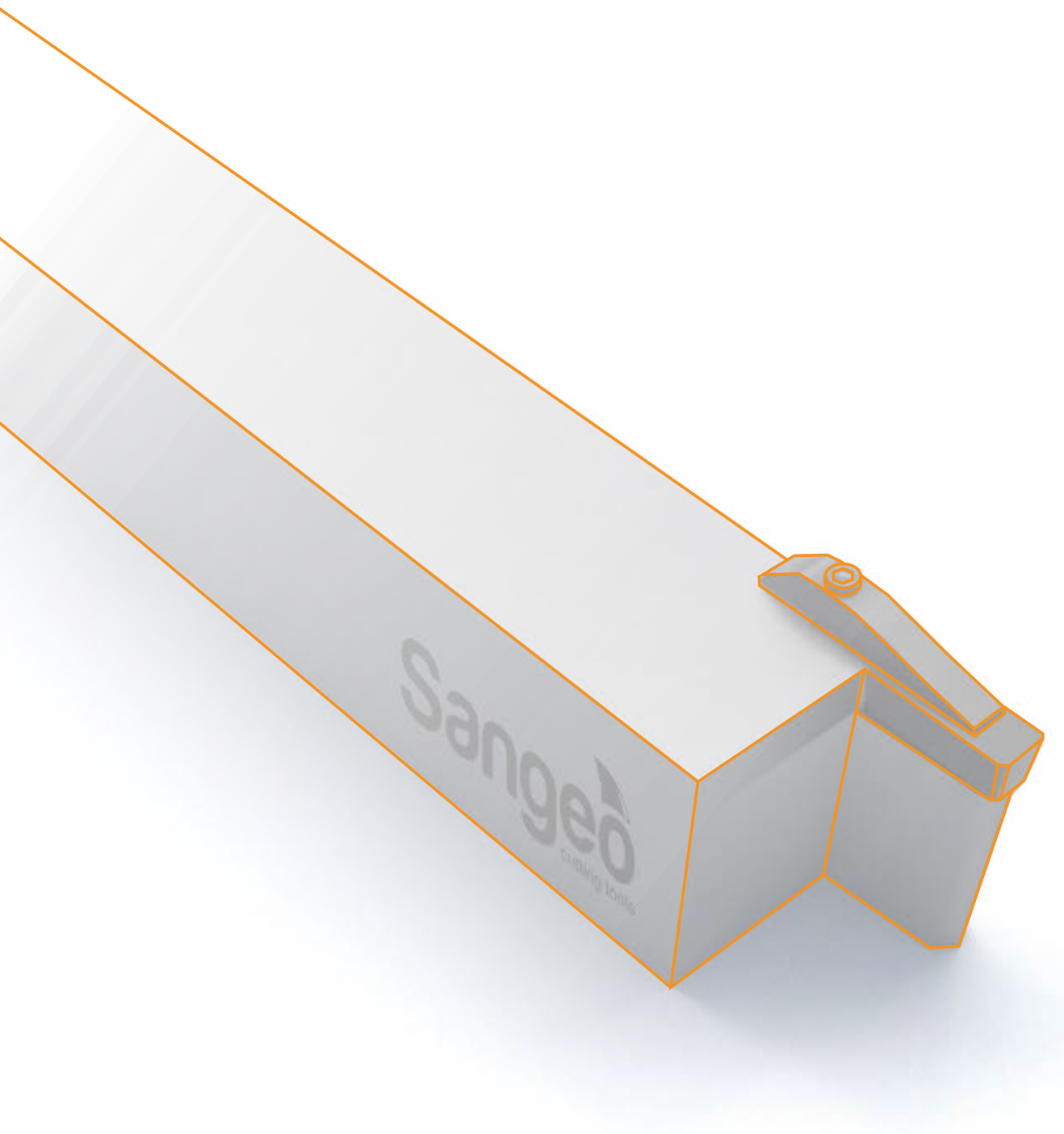
KW7110

KW7120

GROOVING WHEEL



DESCRIPTION	DIMENSIONS			KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KW7110	KW7120
	IC	T	ØD								
TNGA160404	9,525	4,76	3,81	●	●	●		●	●	●	●
TNGA160408	9,525	4,76	3,81	●	●	●		●	●	●	●
TNGA160412	9,525	4,76	3,81	●	●	●		●	●	●	●
TNGA160416	9,525	4,76	3,81	●	●	●		●	●	●	●
TNGA220408	12,7	4,76	5,16	●	●	●		●	●	●	●
TNGA220412	12,7	4,76	5,16	●	●	●		●	●	●	●
TNGA270608	15,875	6,35	6,35	●	●	●		●	●	●	●
TNGA270612	15,875	6,35	6,35	●	●	●		●	●	●	●
TNGA270616	15,875	6,35	6,35	●	●	●		●	●	●	●



ROLL MACHINING / HOLDERS



Holders

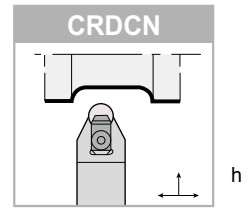
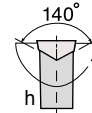
ROLL MACHINING

PCBN

CRDCN

RC □□

PCBN



PCD

CARBIDE

CERAMIC

HOLDER

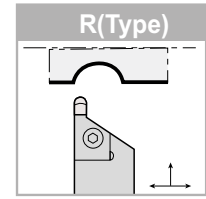
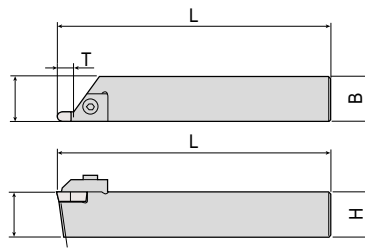
GROOVING WHEEL

RC	DESCRIPTION	STOCK													
			H	B	L	F									
	CRDCN	2525	K06	●	25	25	150	12.5	RCGX060300	ST-SCRC6	ST-CSRC6	ST-SHRC6	ST-SCRC6	ST-WR0040	
		3232	K06	●	32	32	170	16.0	RCGX060300	ST-SCRC6	ST-CSRC6	ST-SHRC6	ST-SCRC6	ST-WR0040	
		4040	K06	●	40	40	200	20	RCGX060300	ST-SCRC6	ST-CSRC6	ST-SHRC6	ST-SCRC6	ST-WR0040	
	CRDCN	2525	K09	●	25	25	150	12.5	RCGX090300	ST-SCRC9	ST-CSRC9	ST-SHRC9	ST-SCRC9	ST-WR0040	
		3232	K09	●	32	32	170	16.0	RCGX090300	ST-SCRC9	ST-CSRC9	ST-SHRC9	ST-SCRC9	ST-WR0040	
		4040	K09	●	40	40	200	20	RCGX090300	ST-SCRC9	ST-CSRC9	ST-SHRC9	ST-SCRC9	ST-WR0040	
	CRDCN	2525	K12	●	25	25	150	12.5	RCGX120400	ST-SCRC12	ST-CSRC12	ST-SHRC12	ST-SCRC12	ST-WR0040	
		3232	K12	●	32	32	170	16.0	RCGX120400	ST-SCRC12	ST-CSRC12	ST-SHRC12	ST-SCRC12	ST-WR0040	
		4040	K12	●	40	40	200	20	RCGX120400	ST-SCRC12	ST-CSRC12	ST-SHRC12	ST-SCRC12	ST-WR0040	

GROOVING HOLDER

R(Type) □□

PCBN



PCBN

PCD

CARBIDE

CERAMIC

HOLDER

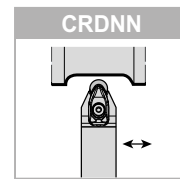
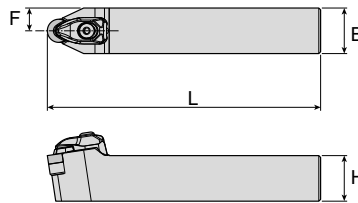
GROOVING WHEEL

R(Type)	DESCRIPTION			STOCK	DIMENSIONS									
					B	H	L	T	F					
	HCBN-3R	4040	3R	●	40	40	240	11	20	CBN-3R	-	ST-CSR3	ST-SCR3	ST-WR0040
	HCBN-4R	4040	4R	●	40	40	240	13	20	CBN-4R	-	ST-CSR4	ST-SCR4	ST-WR0040

CRDNN

RN □□

PCBN

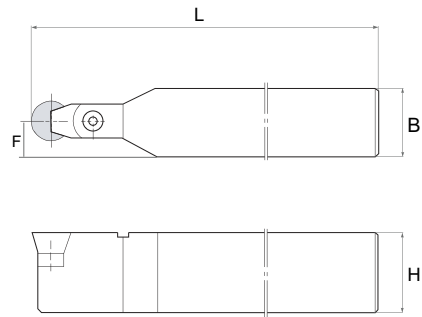


RN	DESCRIPTION			STOCK											
					H	B	L	F							
	CRDNN	2020	K06	●	20	20	125	10	RNGN-060300	ST-SCRC6	ST-CSRC6	STSPR04	ST-SCRC6	ST-SHRN06	ST-WR0040
		2525	K06	●	25	25	150	12.5	RNGN-060300	ST-SCRC6	ST-CSRC6	STSPR04	ST-SCRC6	ST-SHRN06	ST-WR0040
		3232	K06	●	32	32	170	16	RNGN-060300	ST-SCRC6	ST-CSRC6	STSPR04	ST-SCRC6	ST-SHRN06	ST-WR0040
	CRDNN	2020	K09	●	20	20	125	10	RNGN-090300	ST-SCRC9	ST-CSRC6	STSPR04	ST-SCRC6	ST-SHRN09	ST-WR0040
		2525	K09	●	25	25	150	12.5	RNGN-090300	ST-SCRC9	ST-CSRC6	STSPR04	ST-SCRC6	ST-SHRN06	ST-WR0040
		3232	K09	●	32	32	170	16	RNGN-090300	ST-SCRC9	ST-CSRC6	STSPR04	ST-SCRC6	ST-SHRN06	ST-WR0040
	CRDNN	2020	K12	●	20	20	125	10	RNGN-120400	ST-SCRC12	ST-CSRC6	STSPR04	ST-SCRC6	ST-SHRN12	ST-WR0040
		2525	K12	●	25	25	150	12.5	RNGN-120400	ST-SCRC12	ST-CSRC6	STSPR04	ST-SCRC6	ST-SHRN12	ST-WR0040
		3232	K12	●	32	32	170	16	RNGN-120400	ST-SCRC12	ST-CSRC6	STSPR04	ST-SCRC6	ST-SHRN12	ST-WR0040

CRDCN

RC □□

CERAMIC



PCBN

PCD

CARBIDE

CERAMIC

HOLDER

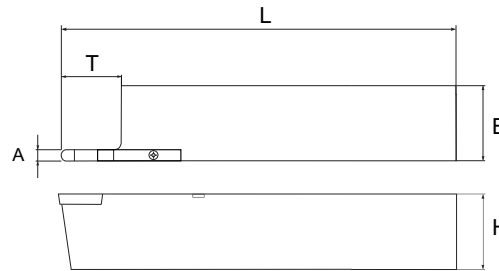
GROOVING WHEEL

RC	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
	CRDCN	2020	K06	●	●	20	20	125	10	ST-SHRC06	ST-SCRC6	ST-CSRC6	-	ST-SCRC6	ST-WR0040
		2525	M06	●	●	25	25	150	12.5	ST-SHRC06	ST-SCRC6	ST-CSRC6	-	ST-SCRC6	ST-WR0040
		3232	P06	●	●	32	32	170	16	ST-SHRC06	ST-SCRC6	ST-CSRC6	-	ST-SCRC6	ST-WR0040
		4040	S06	●	●	40	40	250	20	ST-SHRC06	ST-SCRC6	ST-CSRC6	-	ST-SCRC6	ST-WR0040
CRDCN	2020	K09	●	●	20	20	125	10	ST-SHRC06	ST-SCRC9	ST-CSRC9	-	ST-SCRC9	ST-WR0040	
		2525	M09	●	●	25	25	150	12.5	ST-SHRC06	ST-SCRC9	ST-CSRC9	-	ST-SCRC9	ST-WR0040
		3232	P09	●	●	32	32	170	16	ST-SHRC06	ST-SCRC9	ST-CSRC9	-	ST-SCRC9	ST-WR0040
		4040	S09	●	●	40	40	250	20	ST-SHRC06	ST-SCRC9	ST-CSRC9	-	ST-SCRC9	ST-WR0040
CRDCN	2020	K12	●	●	20	20	125	10	ST-SHRC06	ST-SCR12	ST-CSR12	-	ST-SCR12	ST-WR0040	
		2525	M12	●	●	25	25	150	12.5	ST-SHRC06	ST-SCR12	ST-CSR12	-	ST-SCR12	ST-WR0040
		3232	P12	●	●	32	32	170	16	ST-SHRC06	ST-SCR12	ST-CSR12	-	ST-SCR12	ST-WR0040
		4040	S12	●	●	40	40	250	20	ST-SHRC06	ST-SCR12	ST-CSR12	-	ST-SCR12	ST-WR0040
CRDCN	2020	K15	●	●	20	20	125	10	ST-SHRC06	ST-SCR15	ST-CSR15	-	ST-SCR15	ST-WR0040	
		2525	M15	●	●	25	25	150	12.5	ST-SHRC06	ST-SCR15	ST-CSR15	-	ST-SCR15	ST-WR0040
		3232	P15	●	●	32	32	170	16	ST-SHRC06	ST-SCR15	ST-CSR15	-	ST-SCR15	ST-WR0040
		4040	S15	●	●	40	40	250	20	ST-SHRC06	ST-SCR15	ST-CSR15	-	ST-SCR15	ST-WR0040
CRDCN	2020	K19	●	●	20	20	125	10	ST-SHRC06	ST-SCR19	ST-CSR19	-	ST-SCR19	ST-WR0040	
		2525	M19	●	●	25	25	150	12.5	ST-SHRC06	ST-SCR19	ST-CSR19	-	ST-SCR19	ST-WR0040
		3232	P19	●	●	32	32	170	16	ST-SHRC06	ST-SCR19	ST-CSR19	-	ST-SCR19	ST-WR0040
		4040	S19	●	●	40	40	250	20	ST-SHRC06	ST-SCR19	ST-CSR19	-	ST-SCR19	ST-WR0040
CRDCN	2020	K25	●	●	20	20	125	10	ST-SHRC06	ST-SCR25	ST-CSR25	-	ST-SCR25	ST-WR0040	
		2525	M25	●	●	25	25	150	12.5	ST-SHRC06	ST-SCR25	ST-CSR25	-	ST-SCR25	ST-WR0040
		3232	P25	●	●	32	32	170	16	ST-SHRC06	ST-SCR25	ST-CSR25	-	ST-SCR25	ST-WR0040
		4040	S25	●	●	40	40	250	20	ST-SHRC06	ST-SCR25	ST-CSR25	-	ST-SCR25	ST-WR0040

SSGR

SGR □□

CERAMIC

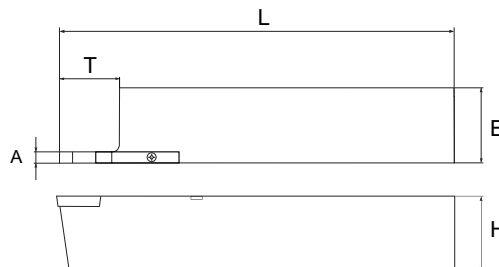


SG	DESCRIPTION			STOCK		DIMENSION								
				R	L	A	H	B	L	T				
	SSGR	3225	P40-12	●	●	4	32	25	170	19	SGR4012	ST-SGL4	ST-SCR5	ST-WR0030
		3225	P50-12	●	●	5	32	25	170	19	SGR5012	ST-SGL5	ST-SCR5	ST-WR0040
		3225	P60-15	●	●	6	32	25	170	19	SGR6015	ST-SGL5	ST-SCR5	ST-WR0040
		3225	P70-15	●	●	7	32	25	170	19	SGR7015	ST-SGL7	ST-SCR6	ST-WR0050
		3225	P80-15	●	●	8	32	25	170	19	SGR8015	ST-SGL8	ST-SCR6	ST-WR0050
		3225	P10-15	●	●	10	32	25	170	19	SGR1015	ST-SGL8	ST-SCR6	ST-WR0050

SSGF

SGF □□

CERAMIC



SG	DESCRIPTION			STOCK		DIMENSION								
				R	L	A	H	B	L	T				
	SSGF	3225	P40-12	●	●	4	32	25	170	19	SGF4012	ST-SGL4	ST-SCR5	ST-WR0030
		3225	P50-12	●	●	5	32	25	170	19	SGF5012	ST-SGL5	ST-SCR5	ST-WR0040
		3225	P60-15	●	●	6	32	25	170	19	SGF6015	ST-SGL5	ST-SCR5	ST-WR0040
		3225	P70-15	●	●	7	32	25	170	19	SGF7015	ST-SGL7	ST-SCR6	ST-WR0050
		3225	P80-15	●	●	8	32	25	170	19	SGF8015	ST-SGL8	ST-SCR6	ST-WR0050
		3225	P10-15	●	●	10	32	25	170	19	SGF1015	ST-SGL8	ST-SCR6	ST-WR0050

PCBN

PCD

CARBIDE

CERAMIC

HOLDER

GROOVING WHEEL



PCBN



PCD

CARBIDE

CERAMIC

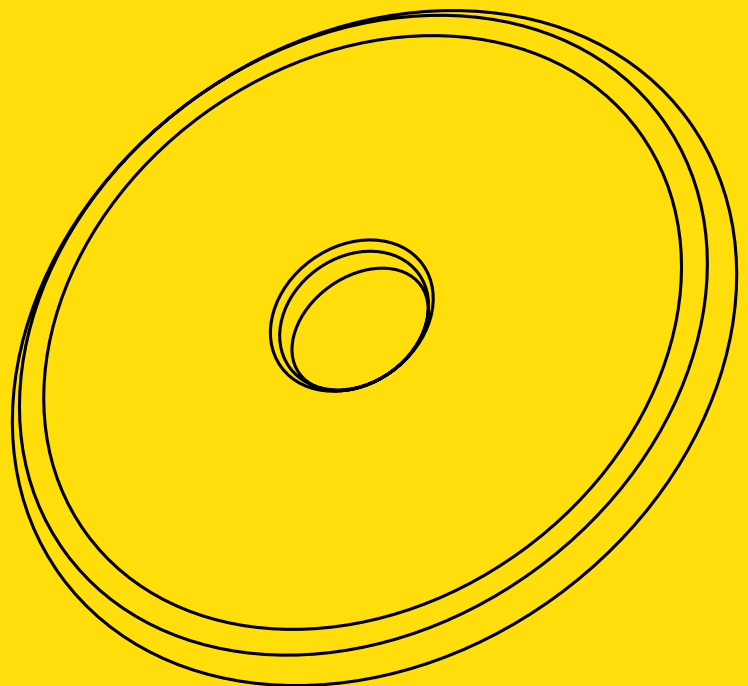
HOLDER



GROOVING WHEEL



ROLL MACHINING / grinding wheels



PCBN

DIAMOND WHEEL

GRINDING/ CUTTING/ GROOVING

PCD

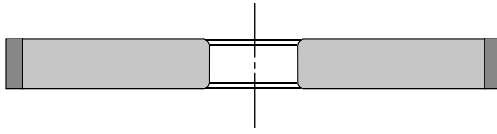
CARBIDE

CERAMIC

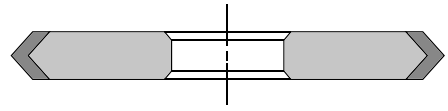
HOLDERS

GROOVING WHEEL

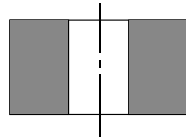
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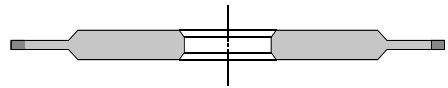
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1A8



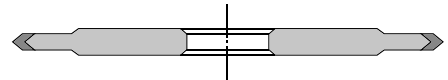
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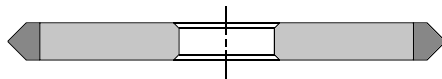
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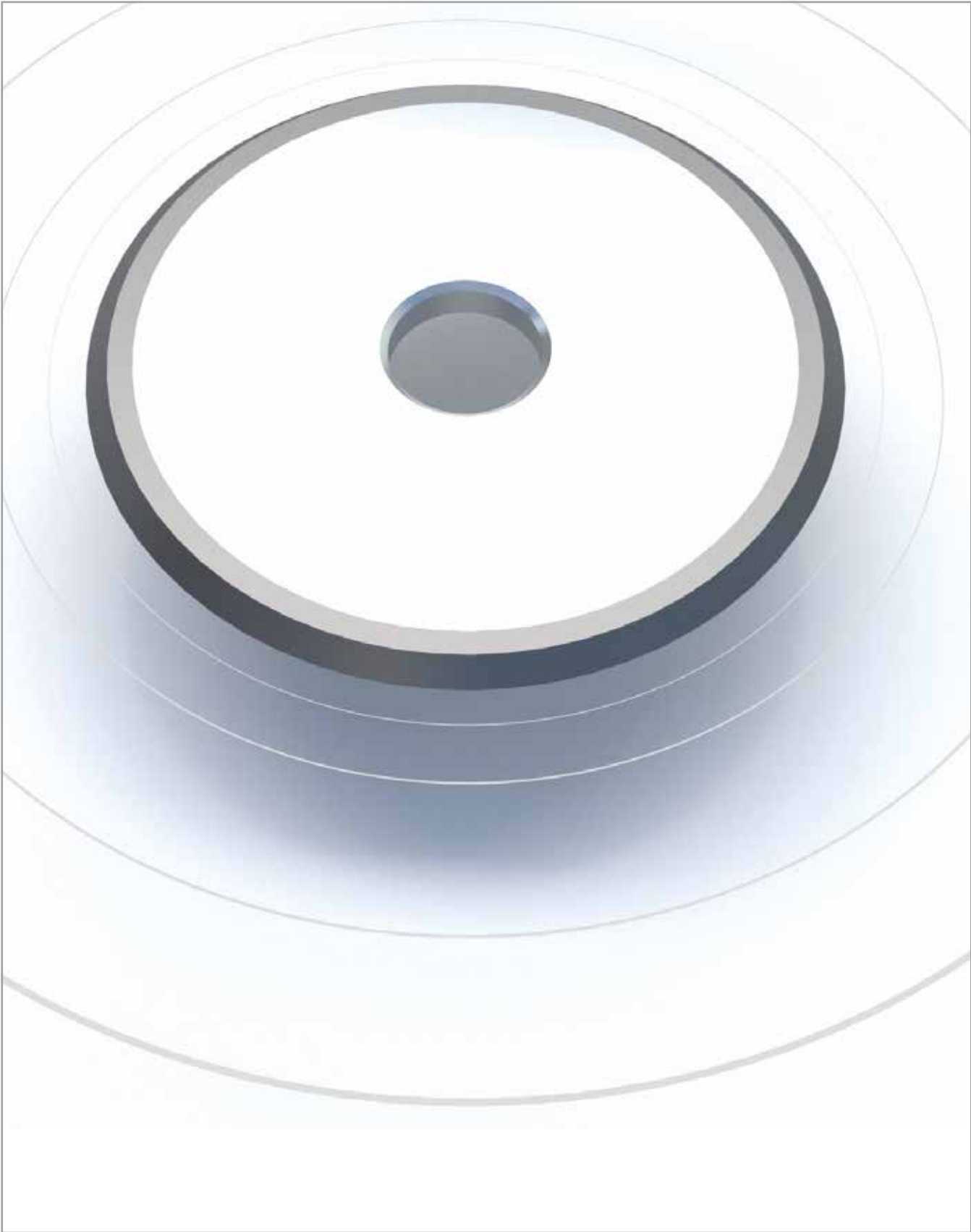
14EE1



1E1



Grinding wheels produced based on your inquiry. Please contact sales representation for your needs.



PCBN

PCD

CARBIDE

CERAMIC

HOLDERS

GROOVING WHEEL



Sangeo
cutting tools



HEAD OFFICE

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