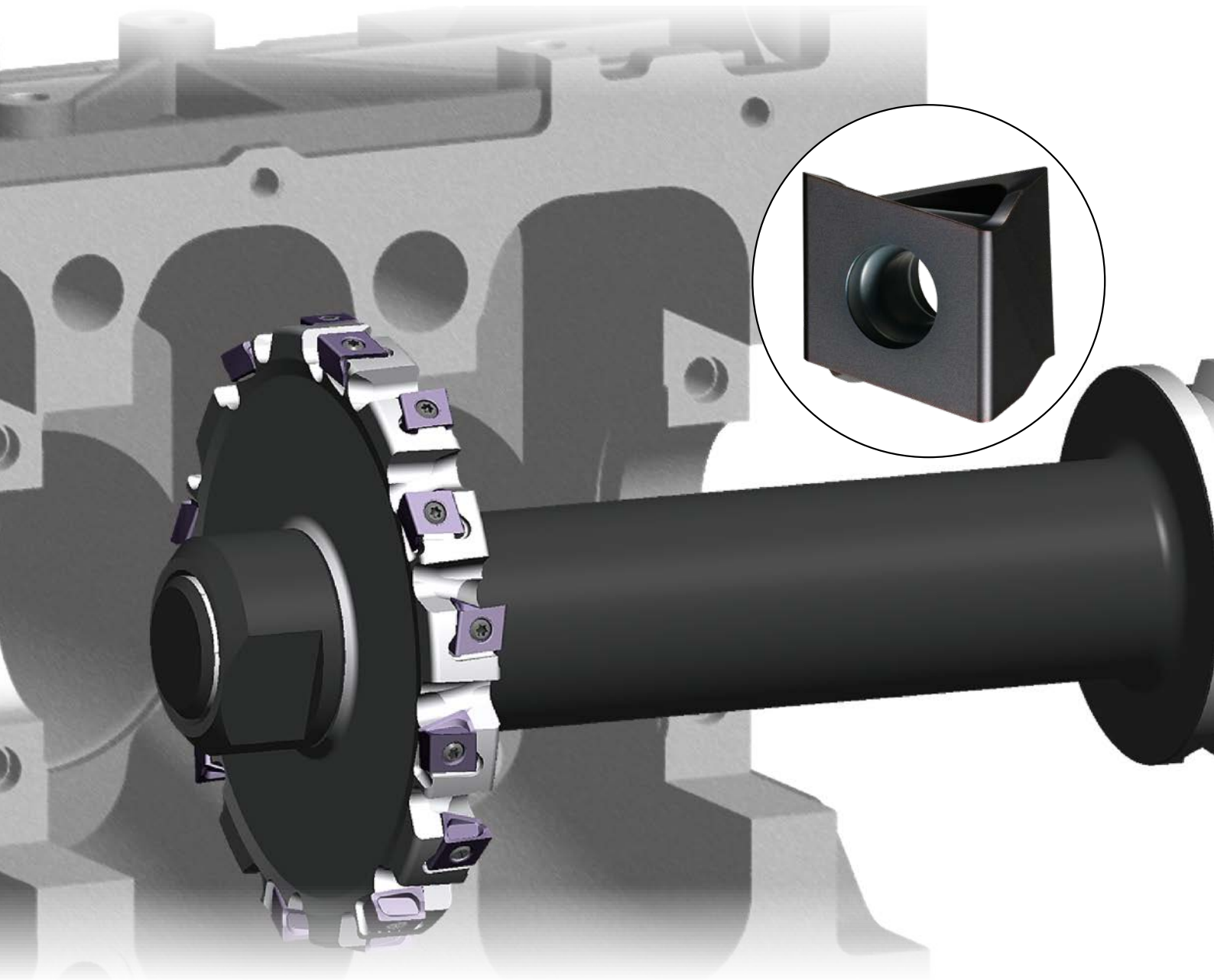


SIDE AND FACE MILLING CUTTER SERIES

SIDE AND FACE MACHINING WITH LOW CUTTING
RESISTANCE VERTICAL MOUNT DOUBLE-SIDED INSERTS
FOR DCV SERIES



*M*plus...

DCV3 / DCV4 / DCV5

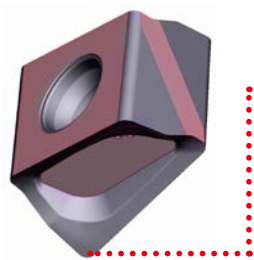
EXCHANGEABLE INSERTS

ECONOMICAL INSERT DESIGN

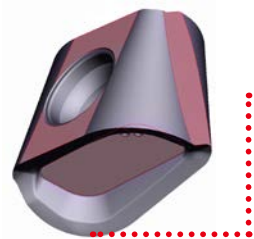
Tangential type insert with 4 cutting edges.

SECURE CLAMPING

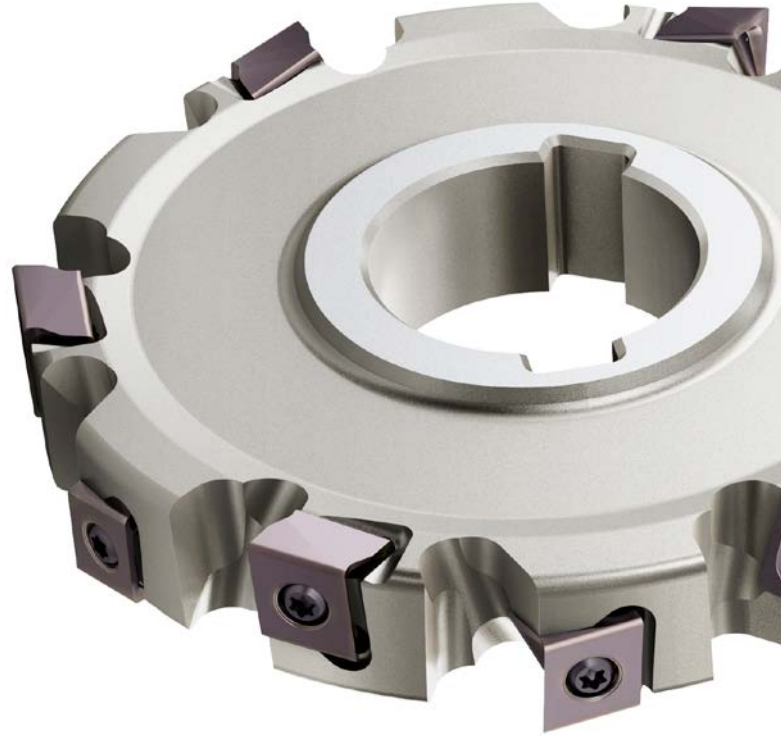
Special seating surfaces ensure all different insert radius sizes are securely clamped.



Corner radius R 0.4 mm

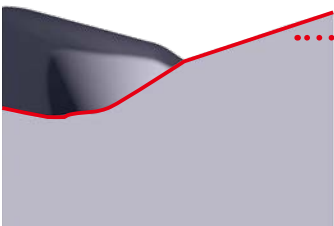


Corner radius R 4.0 mm for DCV3
Corner radius R 5.0 mm for DCV4
Corner radius R 7.0 mm for DCV5

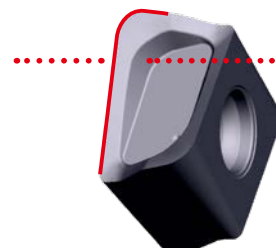


Cutter body with inserts: GAMF: + 8° GAMP: + 3°

LOW CUTTING RESISTANCE INSERT → PREFERRED SHARPNESS



Tough cutting edge
(Convex curve)

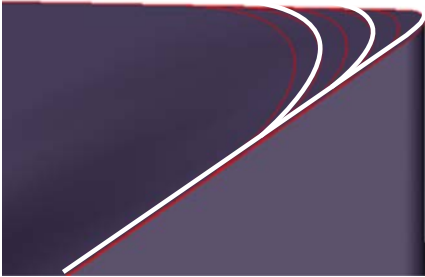


Double-phased helical
rake angles

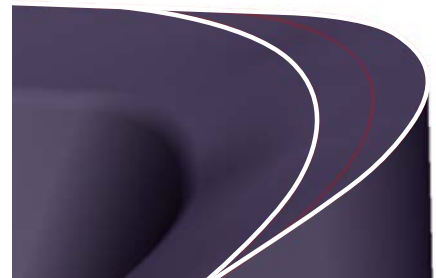
HIGH PRECISION CORNER RADIUS

PRECISION INSERTS FOR FORMING ACCURATE CORNER RADII IN THE WORKPIECE.

R 0.4 – R 3.0 mm

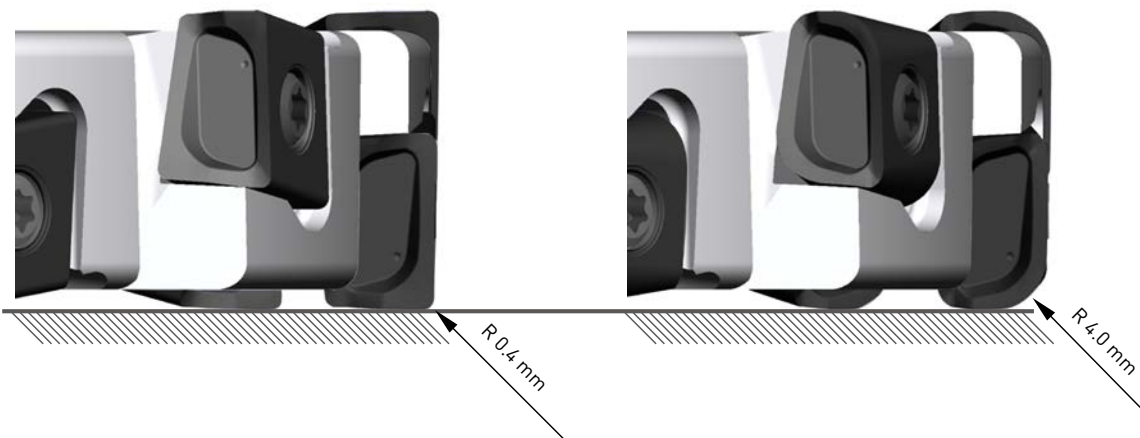


R 3.0 – R 7.0 mm



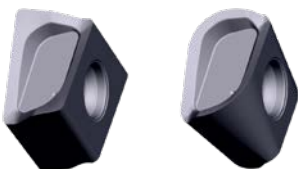
CONSISTENT GEOMETRY

Cutting width and diameter do not change even when different corner radius inserts are used.

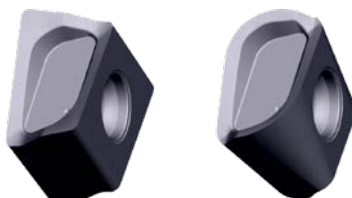


LARGE VARIETY OF CORNER RADII AVAILABLE

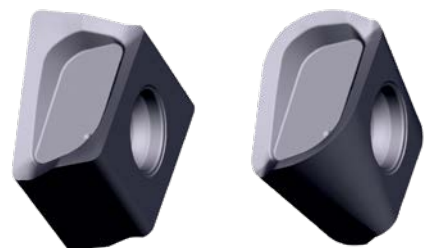
DCV3 = R 0.4 – R 4.0 mm



DCV4 = R 0.4 – R 5.0 mm



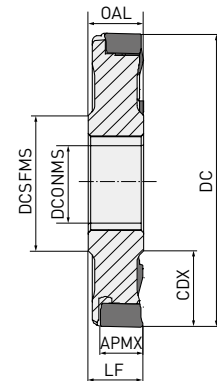
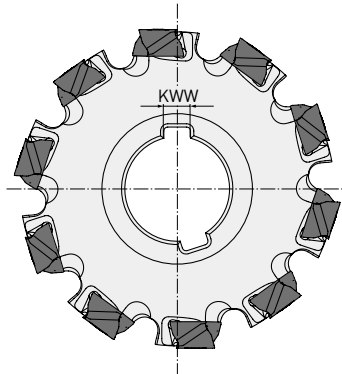
DCV5 = R 0.4 – R 7.0 mm



DCV3



P K



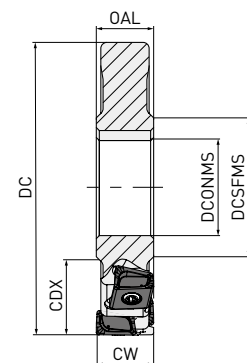
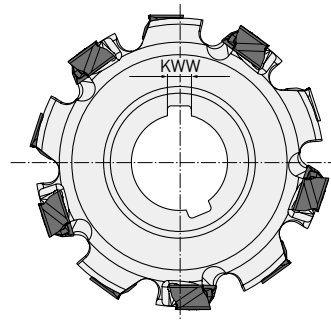
Max. APMX: 8.6 mm

HALF SIDE

DC	ZNF	LF = OAL	CDX	DCONMS	DCSFMS	KWW		
80 – 99.9	8	≥12	20.0	27	40	7	—	LNGU09
100 – 124.9	10		27.0	32	46	8	—	
125 – 160.0	12		35.0	40	55	10	—	

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15



Largest width CW: 17.2 mm

FULL SIDE

DC	ZNF	ZNP	LF = OAL	CW	CDX	DCONMS	DCSFMS	KWW		
80 – 99.9	4	8	≥12	12-17.2	20.0	27	40	7	—	LNGU09
100 – 124.9	5	10		12-17.2	27.0	32	46	8	—	
125 – 160.0	6	12		12-17.2	35.0	40	55	10	—	

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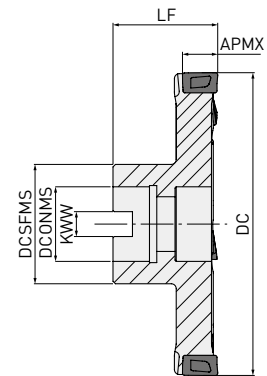
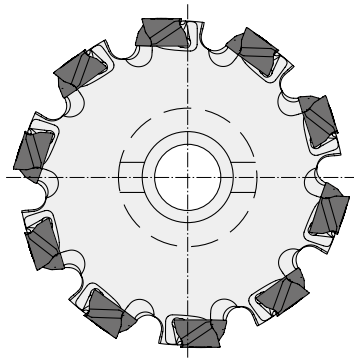
1. Multi level designs available for each size. Please contact our technical department (MMC Hartmetall GmbH - special@mmchg.de) for details of any geometry not shown.

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DCV3



P K



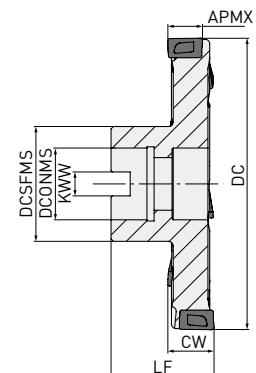
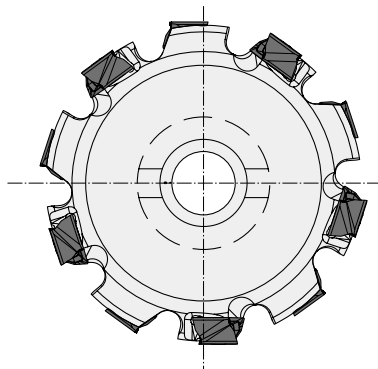
Max. APMX: 8.6 mm

HALF SIDE ARBOR

DC	ZEFP	LF	CDX	DCONMS	DCSFMS	KWW		
80 – 99.9	8	50	20.0	27	40	12.4	—	LNGU09
100 – 124.9	10	60	27.0	32	46	14.4	—	
125 – 160.0	12	60	35.0	40	55	16.4	—	

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15



FULL SIDE ARBOR

Largest width CW: 17.2 mm

DC	ZEFP	LF	CW	CDX	DCONMS	DCSFMS	KWW		
80 – 99.9	8	50	12-17.2	20.0	27	40	12.4	—	LNGU09
100 – 124.9	10	60	12-17.2	27.0	32	46	14.4	—	
125 – 160.0	12	60	12-17.2	35.0	40	55	16.4	—	

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1. Multi level designs available for each size. Please contact our technical department (MMC Hartmetall GmbH - special@mmchg.de) for details of any geometry not shown.

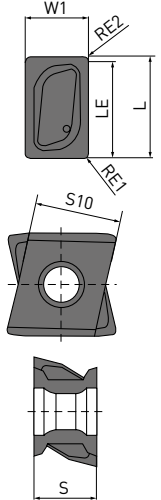
15

DCV3

SPARE PARTS

Tool holder type		TQ (Nm)		
	Clamp screw	Clamp torque	Wrench	Anti-seize lubricant
DCV3 LGU090600PNE0M	TS304	1.5	TKY08W	MK1KS

INSERT

Order number	VP15TF	Hand	Class	Honing	L	LE	S	S10	RE1	W1	Shape	Geometry <i>Right hand insert shown</i>
LNGU090604PNER-M	●	R	G	E	9	8.6	6	8.5	0.4	6		
LNGU090608PNER-M	●	R	G	E	9	8.6	6	8.5	0.8	6		
LNGU090612PNER-M	●	R	G	E	9	8.6	6	8.5	1.2	6		
LNGU090616PNER-M	●	R	G	E	9	8.6	6	8.5	1.6	6		
LNGU090620PNER-M	●	R	G	E	9	8.6	6	8.5	2	6		
LNGU090624PNER-M	●	R	G	E	9	8.6	6	8.5	2.4	6		
LNGU090630PNER-M	●	R	G	E	9	8.6	6	8.5	3	6		
LNGU090640PNER-M	●	R	G	E	9	8.6	6	8.5	4	6		
LNGU090604PNEL-M	●	L	G	E	9	8.6	6	8.5	0.4	6		
LNGU090608PNEL-M	●	L	G	E	9	8.6	6	8.5	0.8	6		
LNGU090612PNEL-M	●	L	G	E	9	8.6	6	8.5	1.2	6		
LNGU090616PNEL-M	●	L	G	E	9	8.6	6	8.5	1.6	6		
LNGU090620PNEL-M	●	L	G	E	9	8.6	6	8.5	2	6		
LNGU090624PNEL-M	●	L	G	E	9	8.6	6	8.5	2.4	6		
LNGU090630PNEL-M	●	L	G	E	9	8.6	6	8.5	3	6		
LNGU090640PNEL-M	●	L	G	E	9	8.6	6	8.5	4	6		

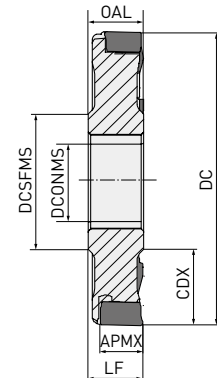
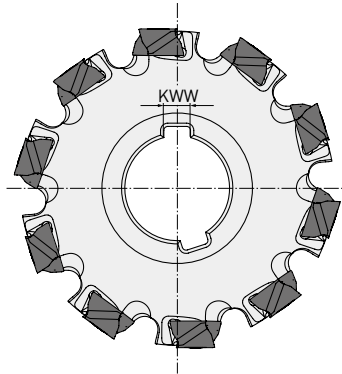
1/1

[10 inserts in one case]

DCV4



P K



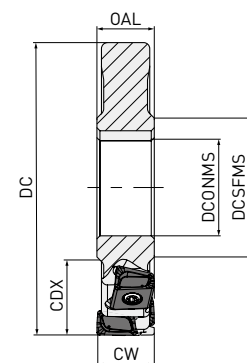
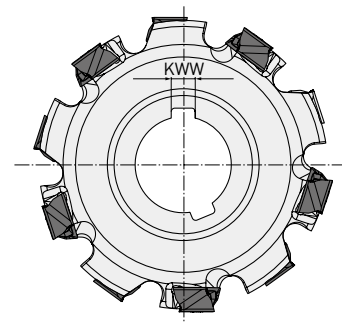
Max. APMX: RE1 < 3.0 mm 12.2 mm
RE1 > 3.0 mm 11.4 mm

HALF SIDE

DC	ZEFP	LF = OAL	CDX	DCONMS	DCSFMS	KWW		
80 – 99.9	8	18	20.0	27	40	7	—	LNGU13
100 – 124.9	10		27.0	32	46	8	—	
125 – 159.9	12		35.0	40	55	10	—	
160 – 200	14		52.5	40	55	10	—	

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15 



Largest width CW: 24 mm

FULL SIDE

DC	ZEFP	CW	CDX	DCONMS	DCSFMS	KWW		
80 – 99.9	4	18–24	20.0	27	40	7	—	LNGU13
100 – 124.9	5	18–24	27.0	32	46	8	—	
125 – 159.9	6	18–24	35.0	40	55	10	—	
160 – 200	7	18–24	52.5	40	55	10	—	

1/1

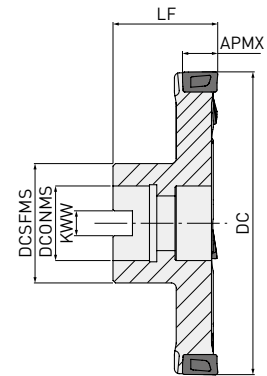
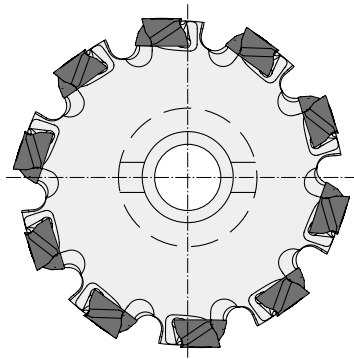
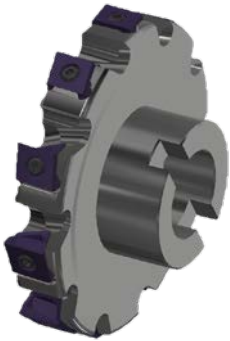
1. Multi level designs available for each size. Please contact our technical department
(MMC Hartmetall GmbH - special@mmchg.de) for details of any geometry not shown.

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DCV4



P K



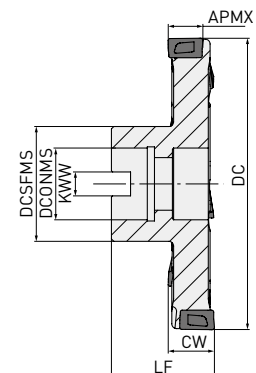
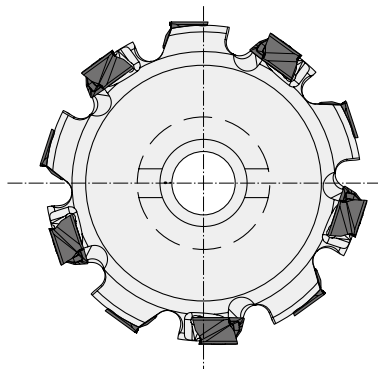
HALF SIDE ARBOR

Max. APMX: RE1 < 3.0 mm 12.2 mm
RE1 > 3.0 mm 11.4 mm

DC	ZEFP	LF	CDX	DCONMS	DCSFMS	KWW		
80 – 99.9	8 – 10	50	20	27	40	12.4	—	LNGU13
100 – 124.9	10 – 12	60	27	32	46	14.4	—	
125 – 159.9	12 – 14	60	35	40	55	16.4	—	
160 – 200	14 – 20	70	52.5	40	55	16.4	—	

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Largest width CW: 24 mm

FULL SIDE ARBOR

DC	ZEFP	LF	CW	CDX	DCONMS	DCSFMS	KWW		
80 – 99.9	8 – 10	50	18–24	20	27	40	12.4	—	LNGU13
100 – 124.9	10 – 12	60	18–24	27	32	46	14.4	—	
125 – 159.9	12 – 14	60	18–24	35	40	55	16.4	—	
160 – 200	14 – 20	70	18–24	52.5	40	55	16.4	—	

1/1

1. Multi level designs available for each size. Please contact our technical department (MMC Hartmetall GmbH - special@mmchg.de) for details of any geometry not shown.

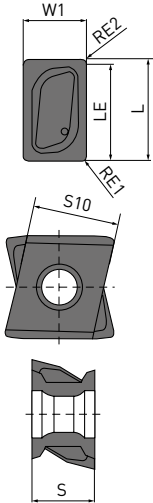
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DCV4

SPARE PARTS

Tool holder type		TQ (Nm)		
	Clamp screw	Clamp torque	Wrench	Anti-seize lubricant
DCV4 LNGU13080PNE	TS406	3.5	TKY15T	MK1KS

INSERT

Order number	MP6120	VP15TF	Hand	Class	Honing	L	LE	S	S10	RE1	RE2	W1	Shape	Geometry <i>Right hand insert shown</i>
LNGU130804PNER-M	●	●	R	G	E	13.0	12.2	8.0	11.0	0.4	0.8	8.0		
LNGU130804PNEL-M	●	●	L	G	E	13.0	12.2	8.0	11.0	0.4	0.8	8.0		
LNGU130808PNER-M	●	●	R	G	E	13.0	12.2	8.0	11.0	0.8	0.8	8.0		
LNGU130808PNEL-M	●	●	L	G	E	13.0	12.2	8.0	11.0	0.8	0.8	8.0		
LNGU130812PNER-M	●	●	R	G	E	13.0	12.2	8.0	11.0	1.2	0.8	8.0		
LNGU130812PNEL-M	●	●	L	G	E	13.0	12.2	8.0	11.0	1.2	0.8	8.0		
LNGU130816PNER-M	●	●	R	G	E	13.0	12.2	8.0	11.0	1.6	0.8	8.0		
LNGU130816PNEL-M	●	●	L	G	E	13.0	12.2	8.0	11.0	1.6	0.8	8.0		
LNGU130820PNER-M	●	●	R	G	E	13.0	12.2	8.0	11.0	2.0	0.8	8.0		
LNGU130820PNEL-M	●	●	L	G	E	13.0	12.2	8.0	11.0	2.0	0.8	8.0		
LNGU130824PNER-M	●	●	R	G	E	13.0	12.2	8.0	11.0	2.4	0.8	8.0		
LNGU130824PNEL-M	●	●	L	G	E	13.0	12.2	8.0	11.0	2.4	0.8	8.0		
LNGU130830PNER-M	●	●	R	G	E	13.0	11.4	8.0	11.0	3.0	1.6	8.0		
LNGU130830PNEL-M	●	●	L	G	E	13.0	11.4	8.0	11.0	3.0	1.6	8.0		
LNGU130840PNER-M	●	●	R	G	E	13.0	11.4	8.0	11.0	4.0	1.6	8.0		
LNGU130840PNEL-M	●	●	L	G	E	13.0	11.4	8.0	11.0	4.0	1.6	8.0		
LNGU130850PNER-M	●	●	R	G	E	13.0	11.4	8.0	11.0	5.0	1.6	8.0		
LNGU130850PNEL-M	●	●	L	G	E	13.0	11.4	8.0	11.0	5.0	1.6	8.0		
LNGU130804PNER-R	●	●	R	G	E	13.0	12.2	8.0	11.0	0.4	0.8	8.0		
LNGU130804PNEL-R	●	●	L	G	E	13.0	12.2	8.0	11.0	0.4	0.8	8.0		
LNGU130808PNER-R	●	●	R	G	E	13.0	12.2	8.0	11.0	0.8	0.8	8.0		
LNGU130808PNEL-R	●	●	L	G	E	13.0	12.2	8.0	11.0	0.8	0.8	8.0		
LNGU130812PNER-R	●	●	R	G	E	13.0	12.2	8.0	11.0	1.2	0.8	8.0		
LNGU130812PNEL-R	●	●	L	G	E	13.0	12.2	8.0	11.0	1.2	0.8	8.0		
LNGU130816PNER-R	●	●	R	G	E	13.0	12.2	8.0	11.0	1.6	0.8	8.0		
LNGU130816PNEL-R	●	●	L	G	E	13.0	12.2	8.0	11.0	1.6	0.8	8.0		
LNGU130820PNER-R	●	●	R	G	E	13.0	12.2	8.0	11.0	2.0	0.8	8.0		
LNGU130820PNEL-R	●	●	L	G	E	13.0	12.2	8.0	11.0	2.0	0.8	8.0		
LNGU130824PNER-R	●	●	R	G	E	13.0	12.2	8.0	11.0	2.4	0.8	8.0		
LNGU130824PNEL-R	●	●	L	G	E	13.0	12.2	8.0	11.0	2.4	0.8	8.0		
LNGU130830PNER-R	●	●	R	G	E	13.0	11.4	8.0	11.0	3.0	1.6	8.0		
LNGU130830PNEL-R	●	●	L	G	E	13.0	11.4	8.0	11.0	3.0	1.6	8.0		
LNGU130840PNER-R	●	●	R	G	E	13.0	11.4	8.0	11.0	4.0	1.6	8.0		
LNGU130840PNEL-R	●	●	L	G	E	13.0	11.4	8.0	11.0	4.0	1.6	8.0		
LNGU130850PNER-R	●	●	R	G	E	13.0	11.4	8.0	11.0	5.0	1.6	8.0		
LNGU130850PNEL-R	●	●	L	G	E	13.0	11.4	8.0	11.0	5.0	1.6	8.0		

1/1

[10 inserts in one case]

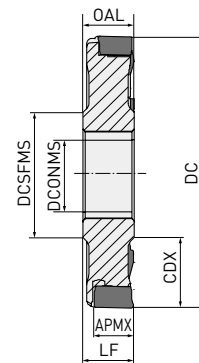
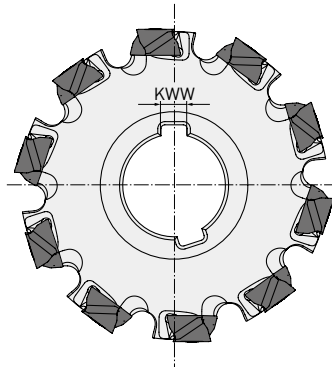
● : Inventory maintained. □ : Produced to order only.

DCV5



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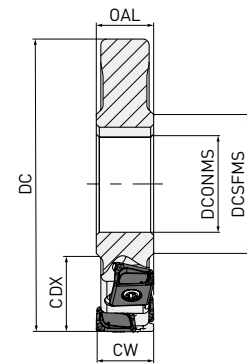
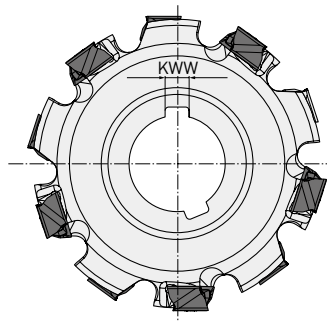
Max. APMX: RE1 < 3.0 mm 16.2 mm
RE1 > 3.0 mm 15.4 mm

HALF SIDE

DC	ZEFP	LF = OAL	CDX	DCONMS	DCSFMS	KWW		
100 – 124.9	8	23	27.0	32	46	8	—	LNGU17
125 – 159.9	10		35.0	40	55	10	—	
160 – 199.9	12		52.5	40	55	10	—	
200 – 250	16		65.0	50	70	12	—	

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Largest width CW: 32 mm

FULL SIDE

DC	ZEFP	CW	CDX	DCONMS	DCSFMS	KWW		
100 – 124.9	8	23 – 32	27.0	32	46	8	—	LNGU17
125 – 159.9	10		35.0	40	55	10	—	
160 – 199.9	12		52.5	40	55	10	—	
200 – 250	16		65.0	50	70	12	—	

1/1

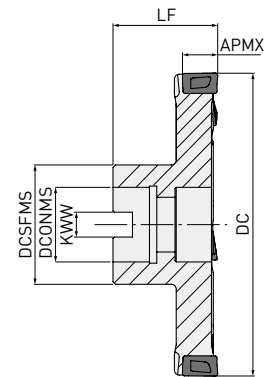
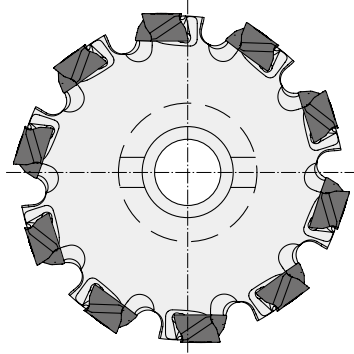
1. Multi level designs available for each size. Please contact our technical department
[MMC Hartmetall GmbH - special@mmchg.de] for details of any geometry not shown.

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DCV5



P K

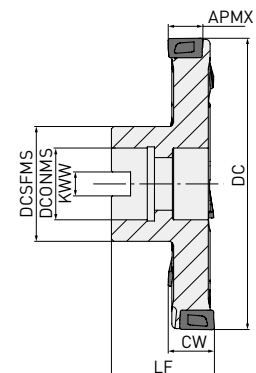
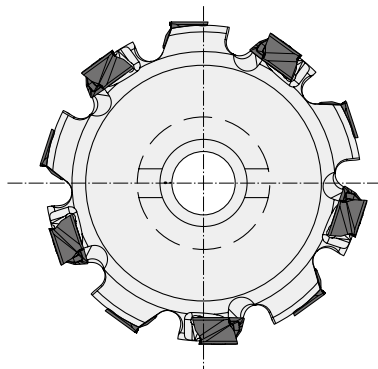


Max. APMX: RE1 < 3.0 mm 16.2 mm
RE1 > 3.0 mm 15.4 mm

HALF SIDE ARBOR

DC	ZEFP	LF	CDX	DCONMS	DCSFMS	KWW		
100 – 124.9	8 – 10	50	27	32	46	14.4	—	LNGU17
125 – 159.9	10 – 12	60	35	40	55	16.4	—	
160 – 199.9	12 – 14	60	52.5	40	55	16.4	—	
200 – 250.0	14 – 20	70	65	40	70	16.4	—	

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Largest width CW: 32 mm

FULL SIDE ARBOR

DC	ZEFP	LF	CW	CDX	DCONMS	DCSFMS	KWW		
100 – 124.9	8 – 10	60	23 – 32	27	32	46	14.4	—	LNGU17
125 – 159.9	10 – 12	60		35	40	55	16.4	—	
160 – 199.9	12 – 14	70		52.5	40	55	16.4	—	
200 – 250.0	14 – 20	70		65	40	70	16.4	—	

1/1

1. Multi level designs available for each size. Please contact our technical department (MMC Hartmetall GmbH - special@mmchg.de) for details of any geometry not shown.

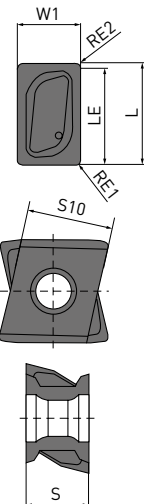
DCV5

SPARE PARTS

Tool holder type		TQ (Nm)		
	Clamp screw	Clamp torque	Wrench	Anti-seize lubricant
DCV5 LNGU17100PNEOR	TS53	7.5	TKY25T	MK1KS

INSERT

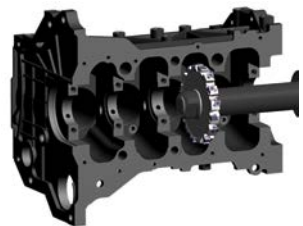
Order number	MP6120	VP15TF	Hand	Class	Honing	L	LE	S	S10	RE1	RE2	W1	D1	Shape	Geometry <i>Right hand insert shown</i>
LNGU171004PNER-R	●	●	R	G	E	17.0	16.2	10.0	13.0	0.4	0.8	10.0	5.5		
LNGU171004PNEL-R	●	●	L	G	E	17.0	16.2	10.0	13.0	0.4	0.8	10.0	5.5		
LNGU171008PNER-R	●	●	R	G	E	17.0	16.2	10.0	13.0	0.8	0.8	10.0	5.5		
LNGU171008PNEL-R	●	●	L	G	E	17.0	16.2	10.0	13.0	0.8	0.8	10.0	5.5		
LNGU171012PNER-R	●	●	R	G	E	17.0	16.2	10.0	13.0	1.2	0.8	10.0	5.5		
LNGU171012PNEL-R	●	●	L	G	E	17.0	16.2	10.0	13.0	1.2	0.8	10.0	5.5		
LNGU171016PNER-R	●	●	R	G	E	17.0	16.2	10.0	13.0	1.6	0.8	10.0	5.5		
LNGU171016PNEL-R	●	●	L	G	E	17.0	16.2	10.0	13.0	1.6	0.8	10.0	5.5		
LNGU171020PNER-R	●	●	R	G	E	17.0	16.2	10.0	13.0	2.0	0.8	10.0	5.5		
LNGU171020PNEL-R	●	●	L	G	E	17.0	16.2	10.0	13.0	2.0	0.8	10.0	5.5		
LNGU171024PNER-R	●	●	R	G	E	17.0	16.2	10.0	13.0	2.4	0.8	10.0	5.5		
LNGU171024PNEL-R	●	●	L	G	E	17.0	16.2	10.0	13.0	2.4	0.8	10.0	5.5		
LNGU171030PNER-R	●	●	R	G	E	17.0	15.4	10.0	13.0	3.0	1.6	10.0	5.5		
LNGU171030PNEL-R	●	●	L	G	E	17.0	15.4	10.0	13.0	3.0	1.6	10.0	5.5		
LNGU171040PNER-R	●	●	R	G	E	17.0	15.4	10.0	13.0	4.0	1.6	10.0	5.5		
LNGU171040PNEL-R	●	●	L	G	E	17.0	15.4	10.0	13.0	4.0	1.6	10.0	5.5		
LNGU171050PNER-R	●	●	R	G	E	17.0	15.4	10.0	13.0	5.0	1.6	10.0	5.5		
LNGU171050PNEL-R	●	●	L	G	E	17.0	15.4	10.0	13.0	5.0	1.6	10.0	5.5		
LNGU171060PNER-R	●	●	R	G	E	17.0	15.4	10.0	13.0	6.0	1.6	10.0	5.5		
LNGU171060PNEL-R	●	●	L	G	E	17.0	15.4	10.0	13.0	6.0	1.6	10.0	5.5		
LNGU171070PNER-R	●	●	R	G	E	17.0	15.4	10.0	13.0	7.0	1.6	10.0	5.5		
LNGU171070PNEL-R	●	●	L	G	E	17.0	15.4	10.0	13.0	7.0	1.6	10.0	5.5		



[10 inserts in one case]

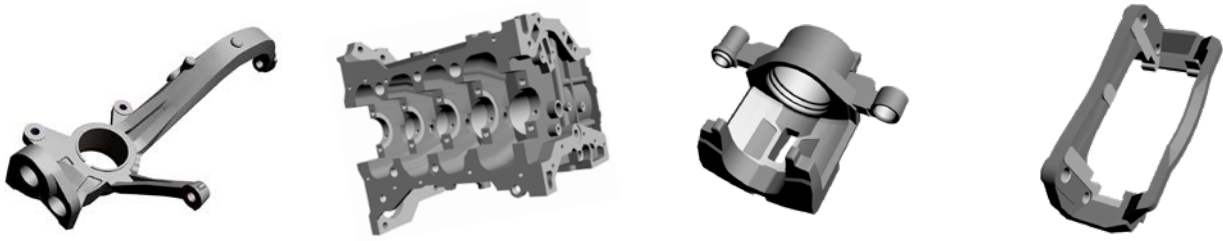
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APPLICATION EXAMPLES

Tool	DCV4 Ø 300 mm	DCV4 Ø 160 mm
Insert (Grade)	LNGU130804PNER-M (VP15TF)	LNGU130804PNER-M (VP15TF)
	Brake caliper (DIN GGG40.3)	Cylinder block (DIN GG25)
Workpiece		
n (min ⁻¹)	120	500
Vc (m/min)	113	201
fz (mm/t.)	0.09 – 0.24	0.14
Vf (mm/min)	150 – 400	500
ap (mm)	1.0 – 2.0	1.0
Cutting mode	Dry cutting	Dry cutting
Machine	Machining centre	Horizontal
Results	Approximately 2 x longer tool life than conventional products. Excellent dimensional accuracy and surface finish. Improved machining efficiency gave a 30 % reduction in tooling costs.	1.5 x better machining efficiency than conventional products. Approximately double tool life. Stable cutting with minimal sound and provided a good surface finish. Improved machining efficiency and longer tool life.

1. The above application examples are customer's application examples, and can differ from the recommended conditions.

UNIQUE SIDE CUTTER SERIES



Taking advantage of the latest technology, materials and cutter geometry.

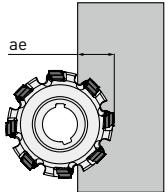
CLASSIFIED

	DCV3	DCV4	DCV5
Material	P K	P K	P K
Low cutting resistance	◎	◎	◎
Toughness	◎	◎	◎
Insert shape		Vertical	Vertical
ZNF		Double sided insert	Double sided insert
ZNP	4	4	4
Half side Max. depth of cut APMX	RE < 4.0 mm 8.6 mm	RE < 3.0 mm 12.2 mm	RE < 3.0 mm 16.2 mm
	RE ≥ 3.0mm 11.4 mm	RE ≥ 3.0mm 11.4 mm	RE ≥ 3.0 mm 15.4 mm
Full side Max. cutting dia DC	Ø 300 mm	Ø 400 mm	Ø 660 mm

DCV3 / DCV4 / DCV5

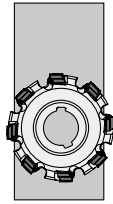
RECOMMENDED CUTTING CONDITIONS

SHOULDER MILLING

Material	Hardness	Grade	Vc	ap	ae	fz	Cutting mode
P	Steel ≤180HB	MP6120 VP15TF	150 (130 – 180)	≤APMX	<10%	0.10 (0.08 – 0.15)	
					<30%		
					≤50%		
					≤2.0	0.12 (0.08 – 0.20)	
					≤4.0	0.12 (0.08 – 0.20)	
K	Carbon steel/ Alloy steel	MP6120 VP15TF	150 (130 – 180)	≤4.0	<10%	0.10 (0.08 – 0.15)	
				≤APMX	<10%	0.10 (0.08 – 0.15)	
				≤APMX	≤50%	0.10 (0.08 – 0.12)	
				≤APMX	≤50%	0.10 (0.08 – 0.12)	
	Cast iron	VP15TF	150 (130 – 180)	≤2.0	≤50%	0.12 (0.08 – 0.20)	
				≤4.0	<10%	0.12 (0.08 – 0.20)	
				≤4.0	≤50%	0.10 (0.08 – 0.15)	
				≤APMX	<10%	0.10 (0.08 – 0.15)	
	Gray cast iron	VP15TF	130 (110 – 160)	≤2.0	≤50%	0.12 (0.08 – 0.20)	
				≤4.0	<10%	0.12 (0.08 – 0.20)	
				≤4.0	≤50%	0.10 (0.08 – 0.15)	
				≤APMX	<10%	0.10 (0.08 – 0.15)	
	Ductile cast iron	VP15TF	130 (110 – 160)	≤2.0	≤50%	0.12 (0.08 – 0.20)	
				≤4.0	<10%	0.12 (0.08 – 0.20)	
				≤4.0	≤50%	0.10 (0.08 – 0.15)	
				≤APMX	<10%	0.10 (0.08 – 0.15)	
				≤APMX	≤50%	0.10 (0.08 – 0.12)	

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FACE MILLING

Material	Hardness	Grade	Vc	ap	fz	Cutting mode
P	Steel ≤180HB	MP6120 VP15TF	150 (130 – 180)	≤APMX	0.10 (0.08 – 0.15)	
K	Carbon steel/ Alloy steel	MP6120 VP15TF	150 (130 – 180)	≤2.0	0.12 (0.08 – 0.20)	
				≤4.0	0.10 (0.08 – 0.15)	
				≤APMX	0.10 (0.08 – 0.12)	
	Cast iron	VP15TF	150 (130 – 180)	≤2.0	0.12 (0.08 – 0.20)	
				≤4.0	0.10 (0.08 – 0.15)	
				≤APMX	0.10 (0.08 – 0.12)	
	Gray cast iron	VP15TF	150 (130 – 180)	≤2.0	0.12 (0.08 – 0.20)	
				≤4.0	0.10 (0.08 – 0.15)	
				≤APMX	0.10 (0.08 – 0.12)	
	Ductile cast iron	VP15TF	130 (110 – 160)	≤2.0	0.12 (0.08 – 0.20)	
				≤4.0	0.10 (0.08 – 0.15)	
				≤APMX	0.10 (0.08 – 0.12)	

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