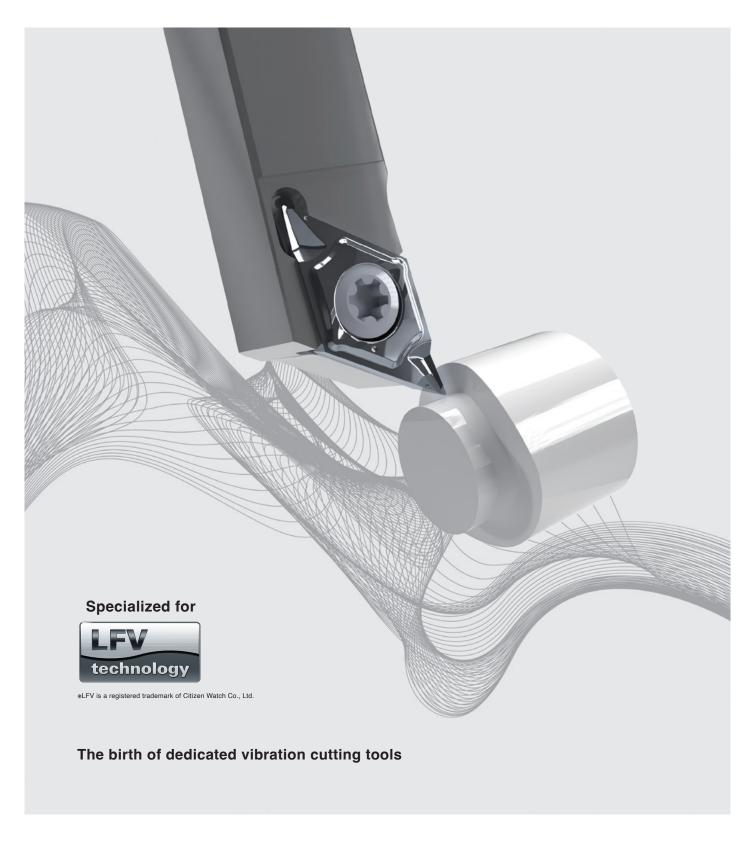
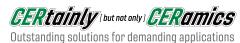
TMV Chipbreaker

For OD Turning | Specially designed for vibration cutting on automatic lathes











| Compatible models (Cincom)









L12

L20

L20XIIB5

L32









A20

D25

M16

M32

Achieving extended tool life and stable cutting performance in vibration cutting

Performance

• Significantly reducing damage of cutting edge

Extended lifespan can be expected even in the machining of difficult-to-cut materials

More stable of chip control

Stable chip formation during vibration cutting

| Applications

Front turning process using an automatic lathe with vibration cutting function

| Cutting conditions

Grade	Material	Machining method	Cuttir	Vibration condition (LFV)				
			Cutting speed (SFM)	Feed (IPR)	D.O.C. (inch)	Р	Q	D
ST4	Austenitic stainless steel (SUS304 / SUS316 etc)	Front Turning	130 - 330	.00080024		Mode 1	0.5	0.5
DM4	Carbon steel / Alloy steel (SCM435 / S45C etc)	Front Turning	170 - 400	.00080024	.0208			
TM4	Non-ferrous (Aluminum / Titanium etc)	Front Turning	200 - 500	.00080024				

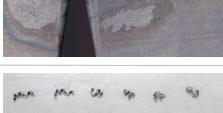
△ Our products are designed with a low cutting edge, please use them after aligning with the center.

▲ When using insert radius R.003, please set the feed rate to .0008"/rev or less. If you want to increase the feed rate beyond .0008"/rev, we recommend using the [Mode 2 / E4.0 / R0.5]

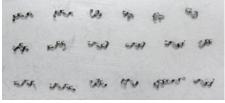
Case study

Machine	Cincom L20-LFV				
Material	SUS316L				
Speed	270 SFM				
Feed	.002 IPR				
D.O.C.	.040"				
Coolant	WET				
Vib condition	Mode 1 Q0.5 D0.5				

Cutting edge photo Machining distance 8km

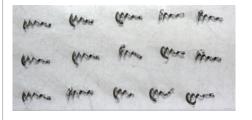


TMV Chipbreaker









Construction equipment parts

Chip condition

Material	SGD material (SS polish) Machining Dia: ¢.31" / .425" / .472"	
Rotation speed (rpm)	2,500	
Feed (IPR)	.0012	
D.O.C.(inch)	.0787 / .1024 / .1575	
Vib condition (LFV)	Mode 1 / Q1.0 / D0.5	



DM4 DCGT11T302MRTMV	600pcs / Corner
Competitor PVD coated insert	300pcs / Corner

Valve component

Material	SUS304 Machining Dia∶φ.15″	
Rotation speed (rpm)	2,263	
Feed (IPR)	.0008	
D.O.C. (inch)	.1220	
Vib condition (LFV)	Mode 2 / E3.0 / R0.5 / I0.02	



ST4 DCGT11T302MRTMV	3,000pcs / Corner				
Competitor PVD coated insert	2,200pcs / Corner				



Shape	Insert number		Qty /Case	PVD coated grade			Dimensions		
	ISO	ANSI	Giy /Case	ST4	DM4	TM4	I.C.	Thickness	Radius
	DCGT11T301MRTMV	DCGT32.504MRTMV	10	•	•	•	3/8	5/32	.003*
	DCGT11T302MRTMV	DCGT32.508MRTMV	10	•	•	•	3/8	5/32	.007
	DCGT11T304MRTMV	DCGT32.51MRTMV	10	•	•	•	3/8	5/32	.015
	CCGT09T301MRTMV	CCGT32.504MRTMV	10	•	•	•	3/8	5/32	.003*
	CCGT09T302MRTMV	CCGT32.508MRTMV	10	•	•	•	3/8	5/32	.007
	CCGT09T304MRTMV	CCGT32.51MRTMV	10	•	•	•	3/8	5/32	.015
40	VCGT110302MRTMV	VCGT2208MRTMV	10	•	•	•	1/4	1/8	.007
	VCGT110304MRTMV	VCGT221MRTMV	10	•	•	•	1/4	1/8	.015
A	TNGG160402MRTMV	TNGG3308MRTMV	10	•	•	•	3/8	3/16	.007
0	TNGG160404MRTMV	TNGG331MRTMV	10	•	•	•	3/8	3/16	.015

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