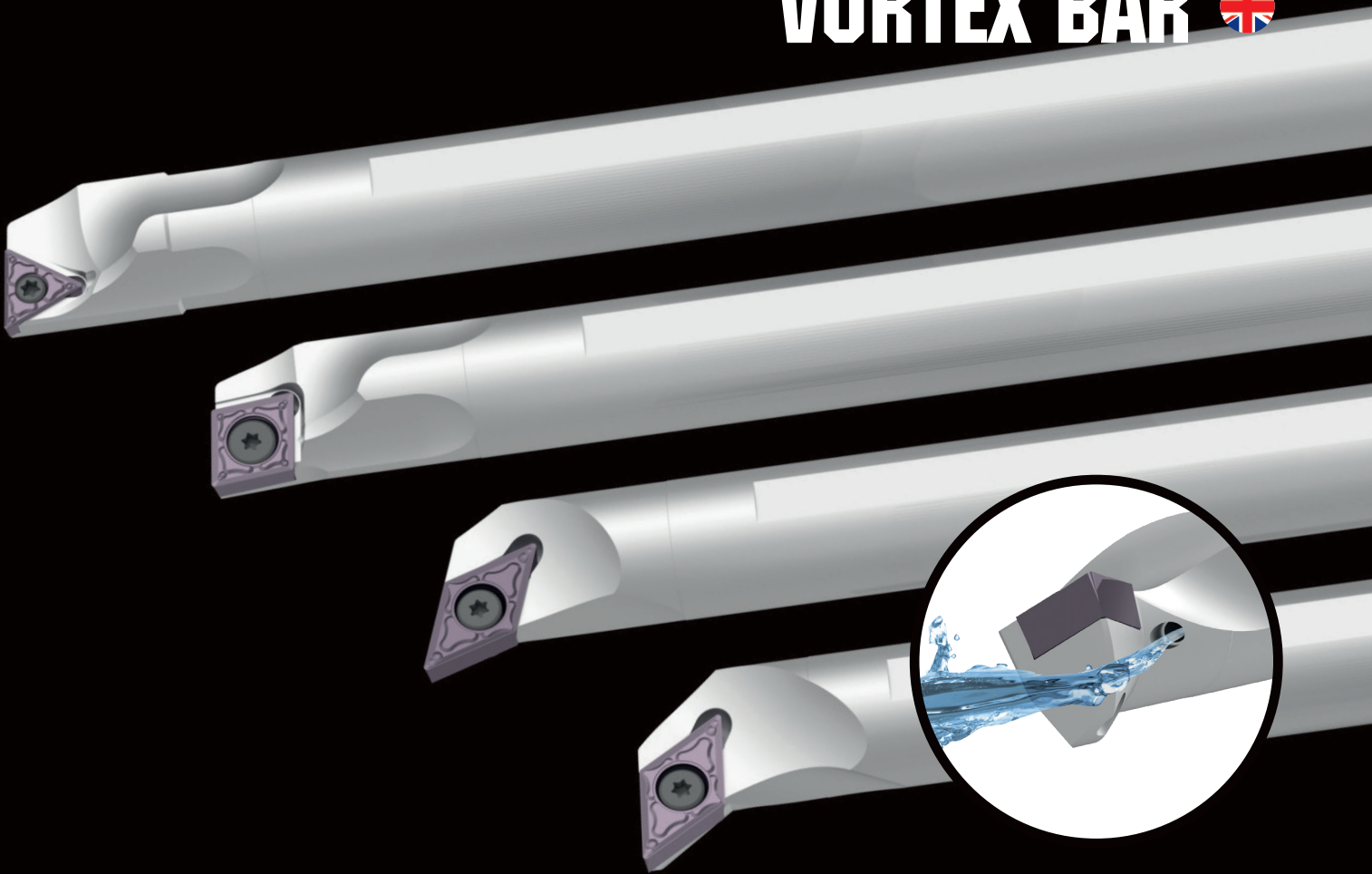


VORTEX BAR 



SPECIAL
KIT Action

Solution package Vortex technology for turning

nikkoTOOLS
SORMA CUTTING SOLUTIONS

VORTEX BAR




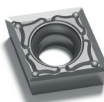
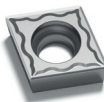
**SPECIAL
KIT**






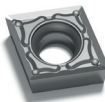
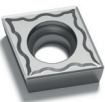
Try Vortex Bar!

Each kit includes 4 Vortex Bars and 10 inserts

SCLC

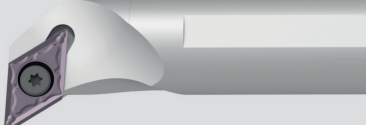


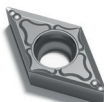
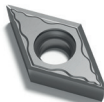
R				
				DMIN
1 x NT-V10K-SCLCR06-12 (Ø10)				12
1 x NT-V12M-SCLCR06-14 (Ø12)			INTERNAL COOLANT	14
1 x NT-V16Q-SCLCR09-18 (Ø16)				18
1 x NT-V20R-SCLCR09-22 (Ø20)				22
	5 x CCMT060204-PFU 5 x CCMT09T304-PFU	JP5125 VORTEX-CC09R JC8025 VORTEX-CC11R JC9025 VORTEX-CC12R		
	5x CCMT060204-PMU 5x CCMT09T304-PMU	JP5125 VORTEX-CC01R JC8025 VORTEX-CC03R JC9025 VORTEX-CC05R		

Choose grade and chipbreaker.





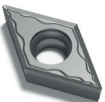
L				
				DMIN
1 x NT-V10K-SCLCL06-12 (Ø10)				12
1 x NT-V12M-SCLCL06-14 (Ø12)			INTERNAL COOLANT	14
1 x NT-V16Q-SCLCL09-18 (Ø16)				18
1 x NT-V20R-SCLCL09-22 (Ø20)				22
	5 x CCMT060204-PFU 5 x CCMT09T304-PFU	JP5125 VORTEX-CC09L JC8025 VORTEX-CC11L JC9025 VORTEX-CC12L		
	5 x CCMT060204-PMU 5 x CCMT09T304-PMU	JP5125 VORTEX-CC01L JC8025 VORTEX-CC03L JC9025 VORTEX-CC05L		

Choose grade and chipbreaker.

SDUC

R				
				DMIN
1 x NT-V10K-SDUCR07-14 (Ø10)				14
1 x NT-V12M-SDUCR07-16 (Ø12)			INTERNAL COOLANT	16
1 x NT-V16Q-SDUCR11-23 (Ø16)				23
1 x NT-V20R-SDUCR11-27 (Ø20)				27
	5 x DCMT070204-PFU 5 x DCMT11T304-PFU	JP5125 VORTEX-DC09R JC8025 VORTEX-DC11R JC9025 VORTEX-DC12R		
	5x DCMT070204-PMU 5x DCMT11T304-PMU	JP5125 VORTEX-DC03R JC8025 VORTEX-DC05R JC9025 VORTEX-DC06R		

Choose grade and chipbreaker.

L				
				DMIN
1 x NT-V10K-SDUCL07-14 (Ø10)				14
1 x NT-V12M-SDUCL07-16 (Ø12)			INTERNAL COOLANT	16
1 x NT-V16Q-SDUCL11-23 (Ø16)				23
1 x NT-V20R-SDUCL11-27 (Ø20)				27
	5 x DCMT070204-PFU 5 x DCMT11T304-PFU	JP5125 VORTEX-DC09L JC8025 VORTEX-DC11L JC9025 VORTEX-DC12L		
	5x DCMT070204-PMU 5x DCMT11T304-PMU	JP5125 VORTEX-DC03L JC8025 VORTEX-DC05L JC9025 VORTEX-DC06L		

Choose grade and chipbreaker.

VORTEX BAR



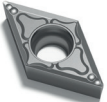
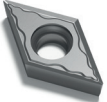
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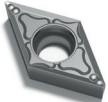
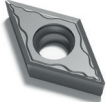
Try Vortex Bar!

Each kit includes 4 Vortex Bars and 10 inserts

SDQC



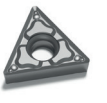

R			
		DMIN	
1 x NT-V10K-SDQCR07-13 (Ø10)			13
1 x NT-V12M-SDQCR07-16 (Ø12)			16
1 x NT-V16Q-SDQCR11-20 (Ø16)		20	
1 x NT-V20R-SDQCR11-25 (Ø20)		25	
	5 x DCMT070204-PFU	JP5125	VORTEX-DC20R
	5 x DCMT11T304-PFU	JC8025	VORTEX-DC22R
		JC9025	VORTEX-DC23R
	5x DCMT070204-PMU	JP5125	VORTEX-DC14R
	5x DCMT11T304-PMU	JC8025	VORTEX-DC16R
		JC9025	VORTEX-DC17R

Choose grade and chipbreaker.



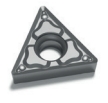

L			
		DMIN	
1 x NT-V10K-SDQCL07-13 (Ø10)			13
1 x NT-V12M-SDQCL07-16 (Ø12)			16
1 x NT-V16Q-SDQCL11-20 (Ø16)		20	
1 x NT-V20R-SDQCL11-25 (Ø20)		25	
	5 x DCMT070204-PFU	JP5125	VORTEX-DC20L
	5 x DCMT11T304-PFU	JC8025	VORTEX-DC22L
		JC9025	VORTEX-DC23L
	5x DCMT070204-PMU	JP5125	VORTEX-DC14L
	5x DCMT11T304-PMU	JC8025	VORTEX-DC16L
		JC9025	VORTEX-DC17L

Choose grade and chipbreaker.

STLC

R			
		DMIN	
1 x NT-V10K-STLCR11-12 (Ø10)			12
1 x NT-V12M-STLCR11-14 (Ø12)			14
1 x NT-V16Q-STLCR11-18 (Ø16)		18	
1 x NT-V20R-STLCR11-22 (Ø20)		22	
	10 x TCMT110204-PFU	JP5125	VORTEX-TC04R
		JC8025	VORTEX-TC05R
		JC9025	VORTEX-TC06R
	10 x TCMT110204-PMU	JP5125	VORTEX-TC01R
		JC8025	VORTEX-TC02R
		JC9025	VORTEX-TC03R

Choose grade and chipbreaker.

L			
		DMIN	
1 x NT-V10K-STLCL11-12 (Ø10)			12
1 x NT-V12M-STLCL11-14 (Ø12)			14
1 x NT-V16Q-STLCL11-18 (Ø16)		18	
1 x NT-V20R-STLCL11-22 (Ø20)		22	
	10 x TCMT110204-PFU	JP5125	VORTEX-TC04L
		JC8025	VORTEX-TC05L
		JC9025	VORTEX-TC06L
	10 x TCMT110204-PMU	JP5125	VORTEX-TC01L
		JC8025	VORTEX-TC02L
		JC9025	VORTEX-TC03L

Choose grade and chipbreaker.

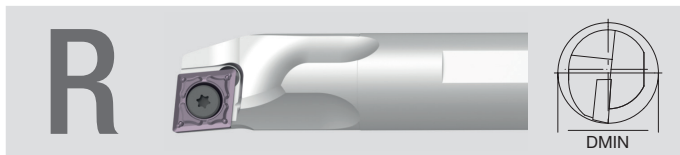
**SPECIAL
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Try Vortex Bar!

Each kit includes 3 Vortex Bars and 10 inserts

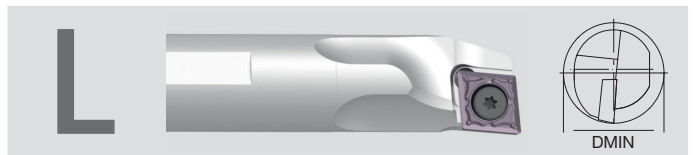
SCLC



1 x NT-V08H-SCLCR06-10 (Ø8)	INTERNAL COOLANT	10
1 x NT-V10K-SCLCR06-12 (Ø10)		12
1 x NT-V12M-SCLCR06-14 (Ø12)		14

	10 x CCMT060204-PFU	JP5125	VORTEX-3CC06R
	10x CCMT060204-PMU	JP5125	VORTEX-3CCR

Choose grade and chipbreaker.



1 x NT-V08H-SCLCL06-10 (Ø8)	INTERNAL COOLANT	10
1 x NT-V10K-SCLCL06-12 (Ø10)		12
1 x NT-V12M-SCLCL06-14 (Ø12)		14

	10 x CCMT060204-PFU	JP5125	VORTEX-3CC06L
	10x CCMT060204-PMU	JP5125	VORTEX-3CCL

Choose grade and chipbreaker.

Why choosing Vortex Bar?

- Special chip groove design improves chip ejection
- High quality steel reduces vibration even with significant overhang (max 5XD)
- Internal coolant channels on the full line-up



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