

BOR CARBIDE



BOR CARBIDE
Special Inserts

Code key of heavy milling inserts



① Insert shape						
						Others Z
C	F	G	L	S	X	

② Clearance angle major			
			Others O
N	Q	T	

③ Tolerance class		
C: ± 0.013	E: ± 0.025	R: Blank
± 0.025		

④ Clamping form					
					Others (Special requirements such as different clamping forms or hole diameter) X

⑤ Length
Integer of length

⑥ Width	⑦ Thickness	Corresponding sizes of the size codes of length, width and thickness												
		Code	03	03A	04	05	05A	05B	06	06A	06B	06C	06D	06E
		Size	3.80	3.97	4.76	5.00	5.95	5.80	6.35	6.00	6.94	6.84	6.55	6.70
Integer of width	Integer of thickness	Code	07	07A	07B	07C	07D	07E	07F	07G	08	08A	09	09A
		Size	7.94	7.05	7.15	7.24	7.35	7.60	7.50	7.82	8.50	8.00	9.52	
		Code	09B	10	11	11A	11B	11C	12	12A	12B	12C	13	13A
		Size	9.43	10.00	11.50	11.11	11.90	11.00	12.70	12.00	12.40	12.80	13.50	13.00
		Code	13B	13C	14	14A	14B	14C	15	15A	15B	15C	15D	15E
		Size	13.85	13.75	14.29	14.20	14.50	14.05	15.87	15.00	15.10	15.28	15.50	15.78
		Code	15F	15G	16	16A	16B	16C	17	17A	18	18A	18B	19
		Size	15.68	15.40	16.30	16.00	16.50	16.78	17.50	17.00	18.47	18.00	18.35	19.05
		Code	20	22	23	25	26	28						
		Size	20.00	22.80	23.99	25.00	26.50	28.57						

Notes: Coding principle: Add zero before Single-digit integer and take the two-digit integer as code; for sizes that differ in decimal bits, letters A, B, C, etc. are added to distinguish them.

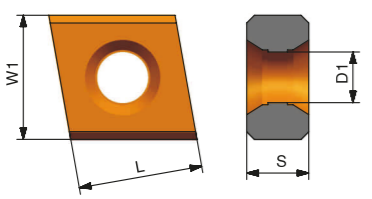
⑧ Eigenvalue or code		


* "(L)" before the feature codes means that the eigenvalue is on the length side, "(S)" means that the eigenvalue is on the thickness side, and no letter means that the eigenvalue is on the width (W) side.
 * "(R)" after the feature code indicates the right knife, "(L)" indicates the left knife, and no letter indicates that there is no distinction between left and right.
 * Other feature codes may also be compiled according to other features of products.

Groove code

Heavy milling inserts

Working condition: ● Stable ● Average ☒ Tough

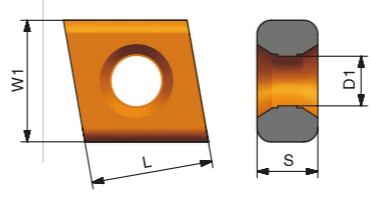



Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	CNEF121206-405	12.7	12.70	6.35	5.4	☆				★		
	CNEF121206-408	12.7	12.70	6.35	5.4	☆				★		
	CNEL161406-408	16.3	14.29	6.35	5.4	☆				★		

★ Recommended grade ☆ Available grade

Heavy milling inserts

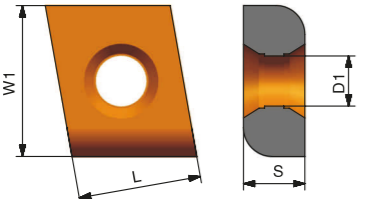
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	CNEF161406-4R10	16.3	14.29	6.35	5.4	☆				★		
	CNEF161406-4R15	16.3	14.29	6.35	5.4	☆				★		
	CNEF161406-4R30	16.3	14.29	6.35	5.4	☆				★		

★ Recommended grade ☆ Available grade

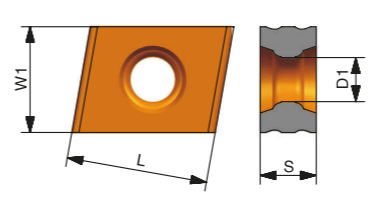
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	CNEF161406-2R30	16.3	14.29	6.35	5.4	☆				★		
	CNEF161406-2R50	16.3	14.29	6.35	5.4	☆				★		

★ Recommended grade ☆ Available grade

Working condition: ● Stable ● Average ☒ Tough

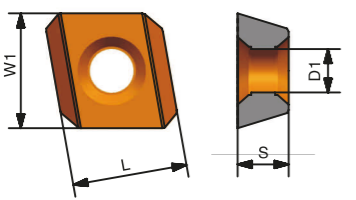


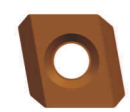
Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	CNER16A12A06-L2M	16.00	12.00	6.35	5.4	☆				★		
	CNEF161406-L2M	16.30	14.29	6.35	5.4	☆				★		

★ Recommended grade ☆ Available grade

Heavy milling inserts

Working condition: ● Stable ● Average ☒ Tough



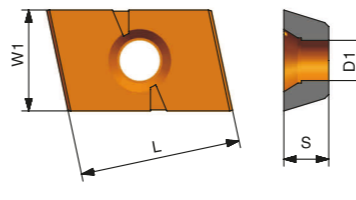
Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	CQEH141406--R02R	14.29	14.29	6.35	5.4	☆				★		
	CQER11A11A04-R01R	11.10	11.10	4.76	5.4	☆				★		

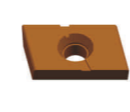
Workpiece material: **P** Steel, **M** Stainless steel, **K** Cast iron, **N** Non-ferrous metal, **S** Heat resistant super alloys Titanium alloy

★ Recommended grade ☆ Available grade

Heavy milling inserts

Working condition: ● Stable ● Average ☒ Tough

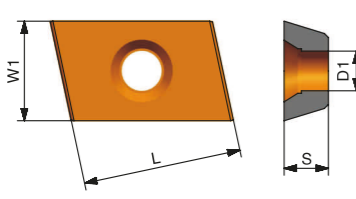


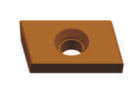
Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	FQEW221406-R04R	22.8	14.29	6.35	5.4	☆				★		

Workpiece material: **P** Steel, **M** Stainless steel, **K** Cast iron, **N** Non-ferrous metal, **S** Heat resistant super alloys Titanium alloy

★ Recommended grade ☆ Available grade

Working condition: ● Stable ● Average ☒ Tough

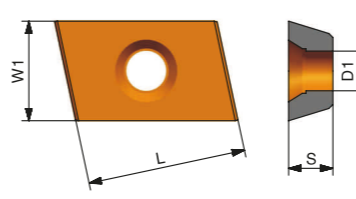


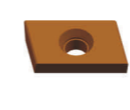
Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	FQES190906-2R30R	19.05	9.525	6.35	4.4	☆				★		
	FQES190906-2R40R	19.05	9.525	6.35	4.4	☆				★		
	FQES190906-2R45R	19.05	9.525	6.35	4.4	☆				★		
	FQES190906-2R50R	19.05	9.525	6.35	4.4	☆				★		

Workpiece material: **P** Steel, **M** Stainless steel, **K** Cast iron, **N** Non-ferrous metal, **S** Heat resistant super alloys Titanium alloy

★ Recommended grade ☆ Available grade

Working condition: ● Stable ● Average ☒ Tough



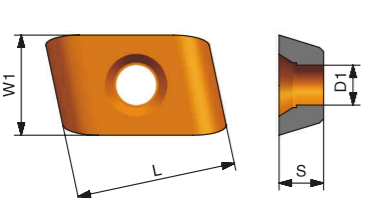
Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	FQEP120904-210L	12.70	9.525	4.76	4.4	☆				★		
	FQEP120904-210R	12.70	9.525	4.76	4.4	☆				★		
	FQEP120904-2R05L	12.70	9.525	4.76	4.4	☆				★		


Workpiece material: **P** Steel, **M** Stainless steel, **K** Cast iron, **N** Non-ferrous metal, **S** Heat resistant super alloys Titanium alloy

★ Recommended grade ☆ Available grade

Heavy milling inserts

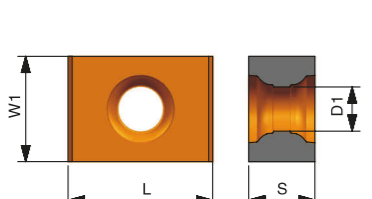
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	FQES190906-4RXR	19.05	9.525	6.35	4.4	☆			★			

★ Recommended grade ☆ Available grade

Working condition: ● Stable ● Average ☒ Tough

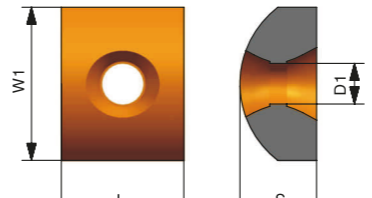



Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	LNED150906-408	15.875	9.525	6.35	4.4	☆			★			
	LNER151207-404	15.875	12.70	7.94	5.5	☆			★			
	LNER151208B-408	15.875	12.70	7.82	5.5	☆			★			
	LNER151207-400	15.875	12.70	7.94	5.5	☆			★			
	LNER151207-408	15.875	12.70	7.94	5.5	☆			★			
	LNEF191206-405	19.05	12.70	7.94	5.4	☆			★			
	LNEL191207-400	19.05	12.70	7.94	5.4	☆			★			
	LNEL191406-402	19.05	14.29	6.35	5.4	☆			★			
	LNER191406-400	19.05	14.29	6.35	5.4	☆			★			
	LNER191406-405	19.05	14.29	6.35	5.4	☆			★			
	LNER191406-408	19.05	14.29	6.35	5.5	☆			★			
	LNER191406-410	19.05	14.29	6.35	5.4	☆			★			
LNER191407A-406	19.05	14.29	7.05	5.4	☆			★				

★ Recommended grade ☆ Available grade

Heavy milling inserts

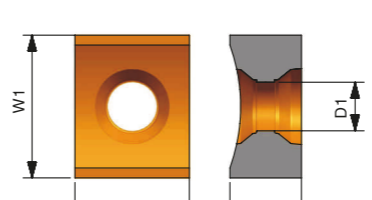
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	LNER151207-DR100	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-DR115	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-DR130	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-DR145	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-DR160	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-DR190	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-DR200	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-DR250	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-DR400	15.875	12.70	7.94	5.4	☆			★			
LNER151207-DR800	15.875	12.70	7.94	5.4	☆			★				

★ Recommended grade ☆ Available grade

Working condition: ● Stable ● Average ☒ Tough

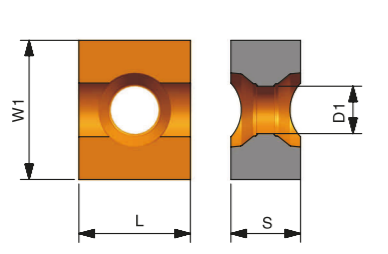



Insert shape	Type	Dimension (mm)				CVD	PVD				Cemented carbide	Cermet
		L	W1	S	D1							
	LNER151207-NR100	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-NR130	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-NR140	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-NR150	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-NR190	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-NR200	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-NR800	15.875	12.70	7.94	5.4	☆			★			
	LNER151207-NR3000	15.875	12.70	7.94	5.4	☆			★			

★ Recommended grade ☆ Available grade

Heavy milling inserts

Working condition: ● Stable ● Average ☐ Tough

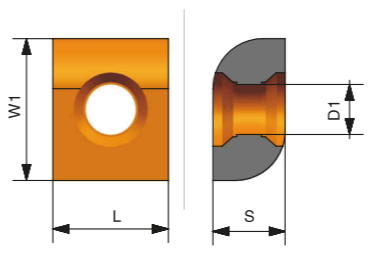



Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented Carbide	Cermet
		L	W1	S	D1						
	LNEN151207-2NR100	15.875	12.70	7.94	5.4	☆			★		
	LNEN151207-2NR130	15.875	12.70	7.94	5.4	☆			★		
	LNEN151207-2NR140	15.875	12.70	7.94	5.4	☆			★		
	LNEN151207-2NR190	15.875	12.70	7.94	5.4	☆			★		

★ Recommended grade ☆ Available grade

Heavy milling inserts

Working condition: ● Stable ● Average ☐ Tough

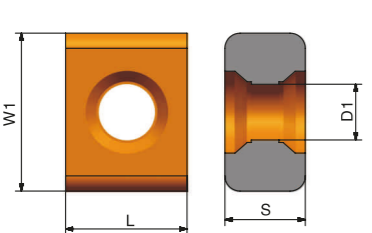



Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented Carbide	Cermet
		L	W1	S	D1						
	LNEN151207-2NR100	15.875	12.70	7.94	5.4	☆			★		
	LNEN151207-2NR130	15.875	12.70	7.94	5.4	☆			★		
	LNEN151207-2NR140	15.875	12.70	7.94	5.4	☆			★		
	LNEN151207-2NR190	15.875	12.70	7.94	5.4	☆			★		
	LNER151207-2R20	15.875	12.70	7.94	5.4	☆			★		
	LNER151207-2R30	15.875	12.70	7.94	5.4	☆			★		
	LNER151207-2R35	15.875	12.70	7.94	5.4	☆			★		
	LNER151207-2R40	15.875	12.70	7.94	5.4	☆			★		
	LNER151207-2R45	15.875	12.70	7.94	5.4	☆			★		
	LNER151207-2R50	15.875	12.70	7.94	5.4	☆			★		
	LNER151207A-2R50	15.875	12.70	7.05	5.4	☆			★		
	LNER151207-2R55	15.875	12.70	7.94	5.4	☆			★		
	LNER15C1207-2R50	15.28	12.70	7.94	5.4	☆			★		
	LNER15F1207-2R50	15.68	12.70	7.94	5.4	☆			★		
	LNER191406-2R30	19.05	14.29	6.35	5.4	☆			★		
	LNER191406-2R35	19.05	14.29	6.35	5.4	☆			★		
LNER190906-2R50	19.05	9.525	6.35	5.4	☆			★			
LNER191407-2R60	19.05	14.29	7.94	5.4	☆			★			
LNER191406-2R30M22	19.05	14.29	6.35	5.4	☆			★			
LNER191406-2R46M15	19.05	14.29	6.35	5.4	☆			★			
LNER191407-2R60M15	19.05	14.29	7.94	5.4	☆			★			
LNER191407-2R70M20	19.05	14.29	7.94	5.4	☆			★			
LNER191408-2R70M20	19.05	14.29	8.50	5.4	☆			★			

★ Recommended grade ☆ Available grade

Heavy milling inserts

Working condition: ● Stable ● Average ☒ Tough

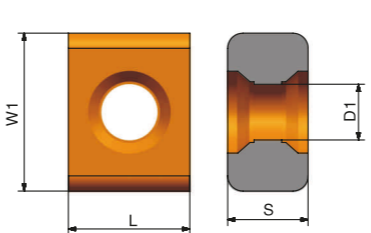



Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	LNER151206-4R10	15.875	12.70	6.35	5.4	☆			★		
	LNER151206B-4R20	15.875	12.70	6.94	5.4	☆			★		
	LNER151207-4R10	15.875	12.70	7.94	5.5	☆			★		
	LNER151207-4R20	15.875	12.70	7.94	5.5	☆			★		
	LNER191406-4R02	19.05	14.29	6.35	5.4	☆			★		
	LNER191406-4R12	19.05	14.29	6.35	5.4	☆			★		
	LNER191406-4R20	19.05	14.29	6.35	5.4	☆			★		
	LNER191406-4R24	19.05	14.29	6.35	5.4	☆			★		

★ Recommended grade ☆ Available grade

Heavy milling inserts

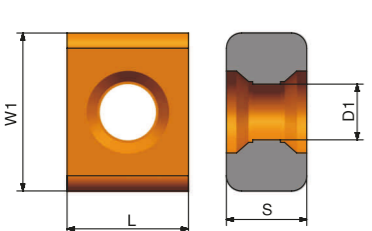
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	LNER150904-4R30H	15.875	9.525	4.76	4.4	☆			★		
	LNER151206-4R40H	15.875	12.70	6.35	5.4	☆			★		
	LNER151206-4R50H	15.875	12.70	6.35	5.4	☆			★		
	LNER151207-4R40H	15.875	12.70	7.94	5.4	☆			★		
	LNER151207-4R50H	15.875	12.70	7.94	5.4	☆			★		

★ Recommended grade ☆ Available grade

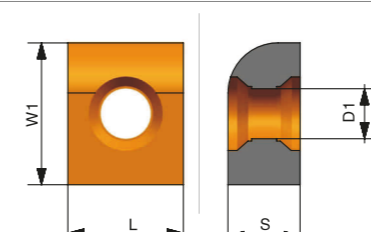
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	LNER151206-4R30	15.875	12.70	6.35	5.4	☆			★		
	LNER151206-4R40	15.875	12.70	6.35	5.4	☆			★		
	LNER151206-4R50	15.875	12.70	6.35	5.4	☆			★		
	LNER151206-4R55	15.875	12.70	6.35	5.4	☆			★		
	LNER151206-4R65	15.875	12.70	6.35	5.4	☆			★		
	LNER151207-4R40	15.875	12.70	7.94	5.4	☆			★		
	LNER151207-4R50	15.875	12.70	7.94	5.4	☆			★		

★ Recommended grade ☆ Available grade

Working condition: ● Stable ● Average ☒ Tough

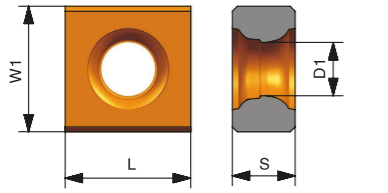



Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	LNER151207-1R30M20	15.875	12.70	7.94	5.4	☆			★		

★ Recommended grade ☆ Available grade

Heavy milling inserts

Working condition: ● Stable ● Average ☒ Tough

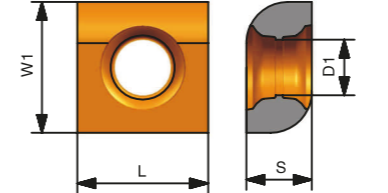



Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	SNED121206-408	12.70	12.70	6.35	5.5	☆			★		
	SNEN151507-400	15.875	15.875	7.94	5.4	☆			★		
	SNEN151507-408	15.875	15.875	7.94	5.4	☆			★		
	SNER151507-405	15.875	15.875	7.94	5.4	☆			★		

★ Recommended grade ☆ Available grade

Heavy milling inserts

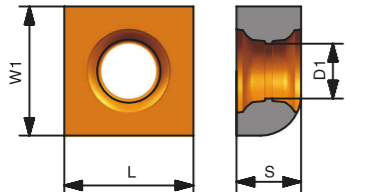
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	SNEB151507-2R40	15.875	15.875	7.94	5.4	☆			★		
	SNEH151507-2R20	15.875	15.875	7.94	5.4	☆			★		
	SNEH151507-2R50	15.875	15.875	7.94	5.4	☆			★		

★ Recommended grade ☆ Available grade

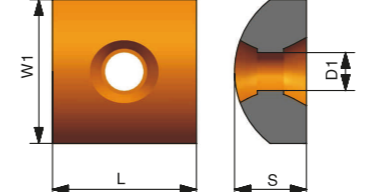
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	SNER151507-1R70	15.875	15.875	7.94	5.4	☆			★		

★ Recommended grade ☆ Available grade

Working condition: ● Stable ● Average ☒ Tough

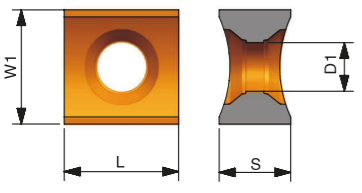



Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	SNEX121206-DR400	12.70	12.70	6.35	4.4	☆			★		
	SNEN151507-DR130	15.875	15.875	7.94	5.4	☆			★		
	SNEN151507G-DR140	15.875	15.875	7.82	5.4	☆			★		

★ Recommended grade ☆ Available grade

Heavy milling inserts

Working condition: ● Stable ● Average ☒ Tough

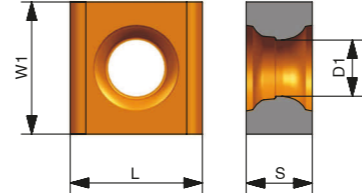



Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	SNER121207-2NR80	12.70	12.70	7.94	5.4	☆			★		

★ Recommended grade ☆ Available grade

Heavy milling inserts

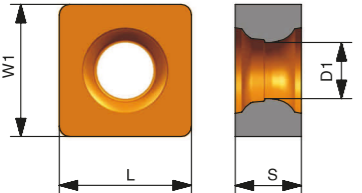
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	SNED121206-4R20	12.70	12.70	6.35	5.5	☆			★		
	SNEH151507-4R20	15.875	15.875	7.94	5.4	☆			★		
	SNER121206-4R25	12.70	12.70	6.35	4.4	☆			★		
	SNEY090904-4R30H	9.525	9.525	4.76	4.4	☆			★		

★ Recommended grade ☆ Available grade

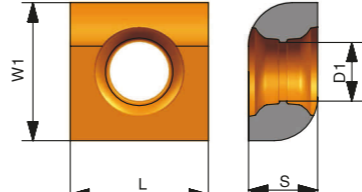
Working condition: ● Stable ● Average ☒ Tough




Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	SNED121206-S4R02	12.70	12.70	6.35	5.5	☆			★		
	SNED121206-S4R08	12.70	12.70	6.35	5.5	☆			★		
	SNEY090904-S4R04	9.525	9.525	4.76	4.4	☆			★		

★ Recommended grade ☆ Available grade

Working condition: ● Stable ● Average ☒ Tough

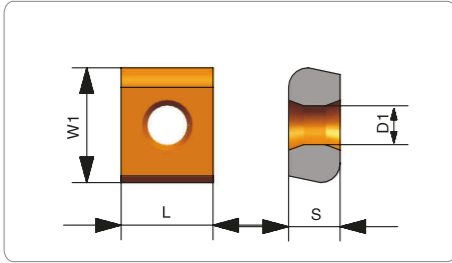


Insert shape	Type	Dimension (mm)				CVD		PVD		Cemented carbide	Cermet
		L	W1	S	D1						
	SNEN151507-2R20	15.875	15.875	7.94	5.4	☆			★		
	SNEN151507-2R30	15.875	15.875	7.94	5.4	☆			★		
	SNEN151507-2R40	15.875	15.875	7.94	5.4	☆			★		
	SNEN151507-2R50	15.875	15.875	7.94	5.4	☆			★		
	SNEN151507-2R60	15.875	15.875	7.94	5.4	☆			★		

★ Recommended grade ☆ Available grade

Heavy milling inserts

Working condition: ● Stable ● Average ✎ Tough



Workpiece material	P	Steel	✎	✎	●	●	●	●	●	✎	✎	✎	✎									
	M	Stainless steel			●	●	●	●	●	●	✎	✎	✎	✎								
	K	Cast iron	✎	✎	●	●	●	●	●	●	✎	✎	✎	✎								
	N	Non-ferrous metal																			●	
	S	Heat resistant super alloys Titanium alloy																				●

Insert shape	Type	Dimension (mm)				CVD		PVD				Cemented carbide	Cermet	
		L	W1	S	D1									
	ZNER12A1106-L2R15	12.00	11.50	6.35	4.4	☆						★		
	ZNER12B11C06-2R30	12.40	11.00	6.35	4.4	☆						★		
	ZNER13C11C06-2R30	13.75	11.00	6.35	4.4	☆						★		
	ZNER14A1206-2R25	14.20	12.70	6.35	4.4	☆						★		
	ZNER191408-2R50	19.05	14.29	8.50	5.4	☆						★		
	ZNEB151207B-2R40	15.875	12.70	7.14	5.4	☆						★		
	ZNEN151207-2R45	15.875	12.70	7.94	5.4	☆						★		
	ZNEN151208B-2R45	15.875	12.70	8.14	5.4	☆						★		
	ZNEN16A1408-2R50	16.00	14.00	8.50	5.4	☆						★		
	ZNEN16A1408-2R55	16.00	14.00	8.50	5.4	☆						★		
	ZNEJ151206-2R35	15.875	12.70	6.35	4.4	☆						★		

★ Recommended grade ☆ Available grade



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