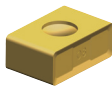
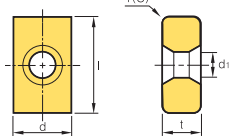
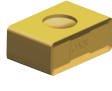
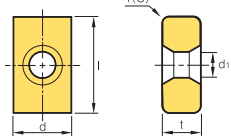
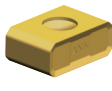
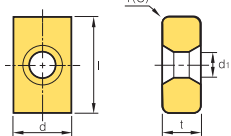
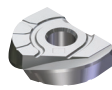
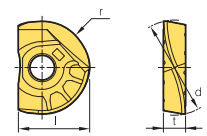

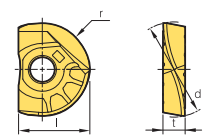

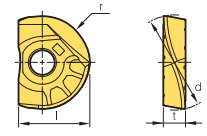


# E Milling Inserts

Workpiece	Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Stainless steel	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Cast iron	K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Non-ferrous metal	N	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Heat resistant alloy, Titanium alloy	S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hardened steel	H	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

**Machining types**

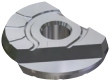
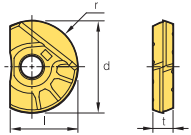
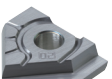
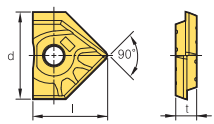
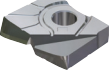
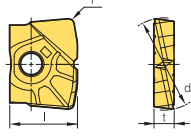
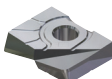
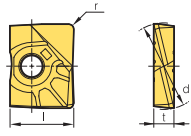
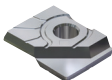
- Continuous cutting
- General cutting
- ✱ Interrupted cutting

Inserts	Designation	Cermet		Coated									Uncoated		Dimensions (mm)					Geometries	Available tools			
		CN2000	CN30	NC5330	NCM535	NCM545	PC2505	PC2010	PC2015	PC210F	PC3700	PC6510	PC9530	PC9540	PC5400	ST30A	H01	l	d			t	r	d <sub>1</sub>
<b>KEL-MF</b> 	150608-MF	●															15.88	15.23	6.35	0.8	-		E408	
	150608-ML																15.88	15.23	6.35	0.8	-			
<b>KEL-QNN</b> 	1506QNN-MF	●															15.88	15.23	6.35	0.8	-		E391	
	1506QNN-ML																15.88	15.23	6.35	0.8	-			
<b>KEL-ANN</b> 	1506ANN-MF	●															15.88	15.23	6.35	0.8	-		E391	
	1506ANN-ML																15.88	15.23	6.35	0.8	-			
<b>LBH</b> 	080									●							7.0	8	2.4	4.0	-		E319~ E322	
	100									●							8.5	10	2.6	5.0	-			
	120									●							10.0	12	3.0	6.0	-			
	160									●							12.0	16	4.0	8.0	-			
	200									●							15.0	20	5.0	10.0	-			
	250									●							18.5	25	6.0	12.5	-			
	300									●							22.5	30	7.0	15.0	-			
	320									●							23.5	32	7.0	16.0	-			
330									●							24.0	33	7.0	16.5	-				
<b>LBH-KF</b> 	080-KF									●							7.0	8	2.4	4.0	-		E318 E319	
	100-KF									●							8.5	10	2.6	5.0	-			
	120-KF									●							10.0	12	3.0	6.0	-			
	130-KF									●							20.5	13	3.0	6.5	-			
	160-KF									●							12.0	16	4.0	8.0	-			
	170-KF									●							12.5	17	4.0	8.5	-			
	200-KF									●							15.0	20	5.0	10.0	-			
	210-KF									●							15.5	21	5.0	10.5	-			
	250-KF									●							18.5	25	6.0	12.5	-			
	300-KF									●							22.5	30	7.0	15.0	-			
	320-KF									●							23.5	32	7.0	16.0	-			
	330-KF									●							24.0	33	7.0	16.5	-			
<b>LBH-KH</b> 	080-KH									●							7.0	8	2.4	4.0	-		E318 E319	
	100-KH									●							8.5	10	2.6	5.0	-			
	120-KH									●							10.0	12	3.0	6.0	-			
	130-KH									●							20.5	13	3.0	6.5	-			
	160-KH									●							12.0	16	4.0	8.0	-			
	170-KH									●							12.5	17	4.0	8.5	-			
	200-KH									●							15.0	20	5.0	10.0	-			
	210-KH									●							15.5	21	5.0	10.5	-			
	250-KH									●							18.5	25	6.0	12.5	-			
	260-KH									●							19.0	26	6.0	13.0	-			
	300-KH									●							22.5	30	7.0	15.0	-			
	320-KH									●							23.5	32	7.0	16.0	-			
330-KH									●							24.0	33	7.0	16.5	-				

● : Stock item



Workpiece	Steel	P											Machining types
	Stainless steel	M											
Cast iron	K											<ul style="list-style-type: none"> <li>● Continuous cutting</li> <li>● General cutting</li> <li>✳ Interrupted cutting</li> </ul>	
Non-ferrous metal	N												
Heat resistant alloy, Titanium alloy	S												
Hardened steel	H												

Inserts	Designation	Cement		Coated										Uncoated		Dimensions (mm)					Geometries	Available tools		
		CN2000	CN30	NC5330	NCM535	NCM545	PC2505	PC2010	PC210F	PC3600	PC3700	PC6510	PC9530	PC9540	PC5300	PC5400	ST30A	H01	l	d			t	r
<b>LBS</b> 	080																	18.5	25	6.0	12.5	-		E319~ E322
	090																	19.0	26	6.0	13.0	-		
	100																	22.5	30	7.0	15.0	-		
	110																	23.0	31	7.0	15.5	-		
	120																	23.5	32	7.0	16.0	-		
	130																	7.0	8	2.4	4.0	-		
	160																	7.5	9	2.4	4.5	-		
	170																	8.5	10	2.6	5.0	-		
	200																	9.0	11	2.6	5.5	-		
	210																	10.0	12	3.0	6.0	-		
	250																	10.5	13	3.0	6.5	-		
	260																	12.0	16	4.0	8.0	-		
	300																	12.5	17	4.0	8.5	-		
310																	15.0	20	5.0	10.0	-			
320																	15.5	21	5.0	10.5	-			
<b>LCF</b> 	160-D90																	13.7	16	4.0	-	-		E319~ E322
	200-D90																	17.0	20	5.0	-	-		
	250-D90																	21.5	25	6.0	-	-		
<b>LFH</b> 	100																	8.5	10	2.6	1.0	-		E319~ E322
	120																	10.0	12	3.0	1.0	-		
	160																	12.0	16	4.0	1.5	-		
	200																	15.0	20	5.0	1.5	-		
	250																	18.5	25	6.0	2.0	-		
	300																	22.5	30	7.0	2.0	-		
	320																	23.5	32	7.0	2.0	-		
<b>LRH</b> 	100-R05																	8.5	10	2.6	0.5	-		E319~ E322
	100-R10																	8.5	10	2.6	1.0	-		
	100-R20																	8.5	10	2.6	2.0	-		
	110-R05																	9.0	11	2.6	0.5	-		
	120-R05																	10.0	12	3.0	0.5	-		
	120-R10																	10.0	12	3.0	1.0	-		
	120-R20																	10.0	12	3.0	2.0	-		
	130-R05																	10.5	13	3.0	0.5	-		
	130-R10																	10.5	13	3.0	1.0	-		
	160-R05																	12.0	16	4.0	0.5	-		
	160-R10																	12.0	16	4.0	1.0	-		
	160-R20																	12.0	16	4.0	2.0	-		
	160-R30																	12.0	16	4.0	3.0	-		
	170-R05																	12.5	17	4.0	0.5	-		
	170-R10																	12.5	17	4.0	1.0	-		
	200-R05																	15.0	20	5.0	0.5	-		
	200-R10																	15.0	20	5.0	1.0	-		
	200-R20																	15.0	20	5.0	2.0	-		
	200-R30																	15.0	20	5.0	3.0	-		
	<b>LR</b>  (Special type)	210-R05																	15.5	21	5.0	0.5		
210-R10																		15.5	21	5.0	1.0	-		
250-R05																		18.5	25	6.0	0.5	-		
250-R10																		18.5	25	6.0	1.0	-		
250-R20																		18.5	25	6.0	2.0	-		
250-R30																		18.5	25	6.0	3.0	-		
260-R05																		19.0	26	6.0	0.5	-		
260-R10																		19.0	26	6.0	1.0	-		
300-R10																		22.5	30	7.0	1.0	-		
300-R20																		22.5	30	7.0	2.0	-		
300-R30																	22.5	30	7.0	3.0	-			
310-R05																	23.0	31	7.0	0.5	-			
320-R10																	23.5	32	7.0	1.0	-			
320-R20																	23.5	32	7.0	2.0	-			

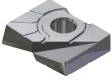
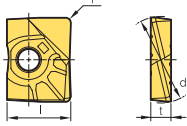
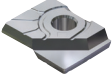

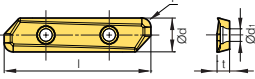
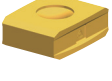
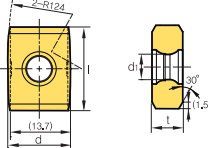

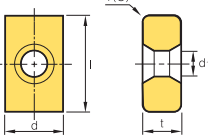
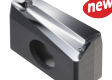
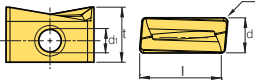
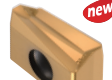
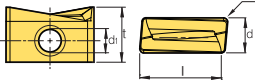
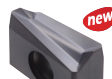
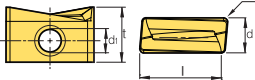
● : Stock item

# E Milling Inserts

Workpiece	Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Stainless steel	M								●	●							●	●	●
	Cast iron	K		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Non-ferrous metal	N																		●
	Heat resistant alloy, Titanium alloy	S								●								●	●	●
Hardened steel	H								●	●	●	●	●	●	●	●	●	●	●	●

## Machining types

- Continuous cutting
- General cutting
- Interrupted cutting

Inserts	Designation	Cermet CN2000 CN30	Coated									Uncoated ST30A H01	Dimensions (mm)					Geometries	Available tools				
			NC5330	NCM535	NCM545	PC2505	PC2010	PC210F	PC3600	PC3700	PC6510		PC9530	PC9540	PC5300	PC5400	l			d	t	r	d <sub>1</sub>
<b>LRH</b> 	320-R30									●						23.5	32	7.0	3.0	-	 <p>LRH type</p>		
	330-R05															24.0	33	7.0	0.5	-			
	330-R10															24.0	33	7.0	1.0	-			
	330-R20															24.0	33	7.0	2.0	-			
	330-R30															24.0	33	7.0	3.0	-			
<b>LR</b>  (Special type)																							
<b>LDET</b> <small>new</small> 	650540PPFR-MA															65	15	5.625	4.0	5.56		E367	
	650550PPFR-MA															65	15	5.625	5.0	5.56			
<b>LNCS</b> 	1907-C1.5-WC															19.05	14.3	7	-	5.8		E398 E399	
	1907-R3.0-WC															19.05	14.3	7	-	5.8			
<b>LNE</b> 	324-R0.8															15.9	9.525	6.35	0.8	4.4		E405~ E409	
	324-C1.0															15.9	9.525	6.35	1.0	4.4			
<b>LNKT-MA</b> <small>new</small> 	080404PNR-MA															8.0	4.2	6.6	0.4	2.8		E303~ E308	
	080408PNR-MA															8.0	4.2	6.6	0.8	2.8			
	140608PNR-MA															12.7	6.65	10.0	0.8	4.0			
	170704PNR-MA															16.5	7.0	11.0	0.4	4.5			
	170708PNR-MA															16.5	7.0	11.0	0.8	4.5			
	170712PNR-MA															16.5	7.0	11.0	1.2	4.5			
	170716PNR-MA															16.5	7.0	11.0	1.6	4.5			
	170720PNR-MA															16.5	7.0	11.0	2.0	4.5			
<b>LNKT-ML</b> <small>new</small> 	080404PNR-ML															8.0	4.2	6.6	0.4	2.8			
	080408PNR-ML															8.0	4.2	6.6	0.8	2.8			
	140608PNR-ML															12.7	6.65	10.0	0.8	4.0			
	170704PNR-ML															16.5	7.0	11.0	0.4	4.5			
	170708PNR-ML										●					16.5	7.0	11.0	0.8	4.5			
	170712PNR-ML															16.5	7.0	11.0	1.2	4.5			
	170716PNR-ML															16.5	7.0	11.0	1.6	4.5			
	170720PNR-ML															16.5	7.0	11.0	2.0	4.5			
<b>LNKT-MM</b> <small>new</small> 	080404PNR-MM															8.0	4.2	6.6	0.4	2.8			
	080408PNR-MM															8.0	4.2	6.6	0.8	2.8			
	140608PNR-MM															12.7	6.65	10.0	0.8	4.0			
	170704PNR-MM															16.5	7.0	11.0	0.4	4.5			
	170708PNR-MM															16.5	7.0	11.0	0.8	4.5			
	170712PNR-MM															16.5	7.0	11.0	1.2	4.5			
	170716PNR-MM															16.5	7.0	11.0	1.6	4.5			
	170720PNR-MM															16.5	7.0	11.0	2.0	4.5			

● : Stock item

