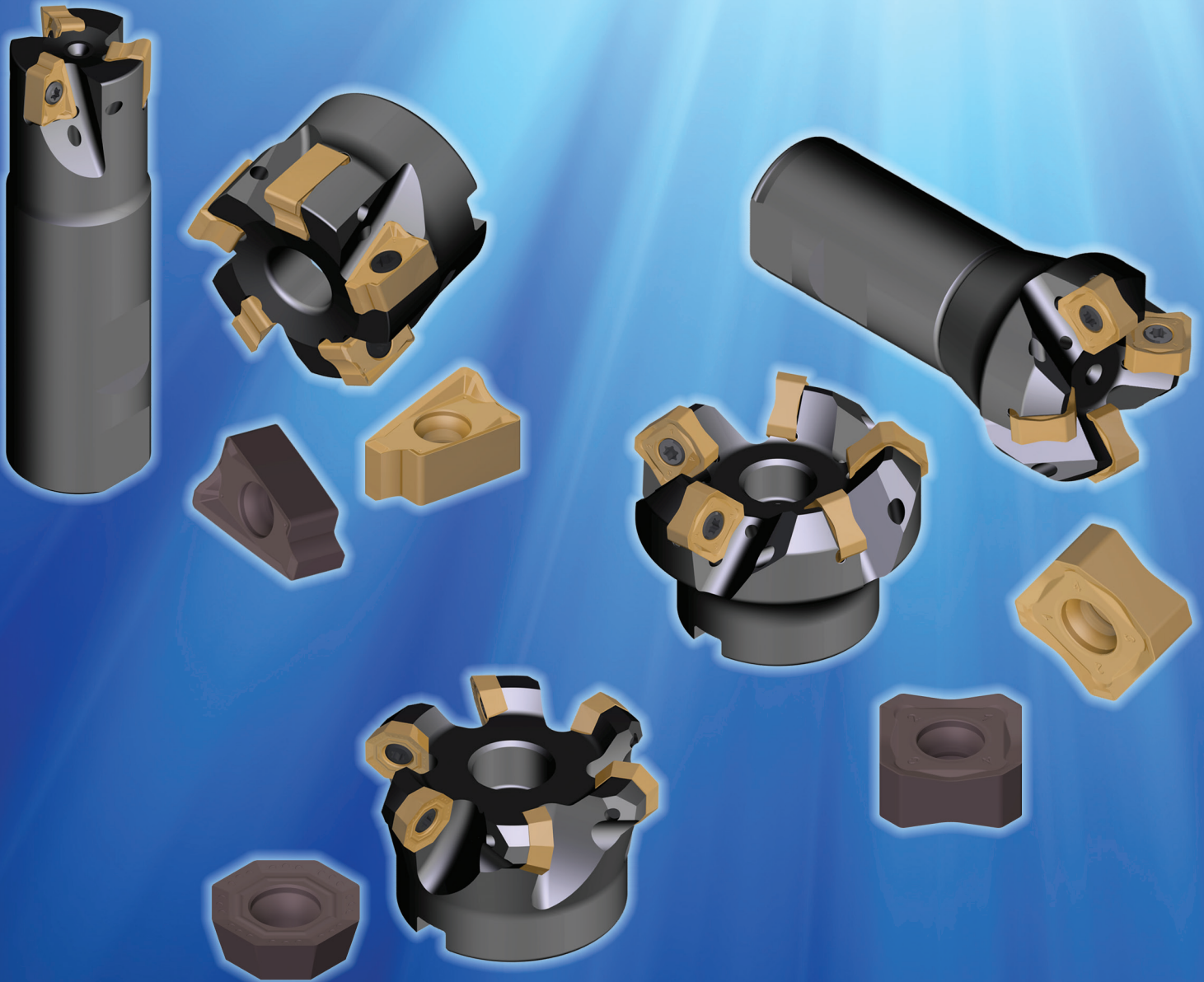


TyCarb focus

9.13



**New additions to the TyCarb milling program
offering you economical solutions
for higher productivity and longer tool life**

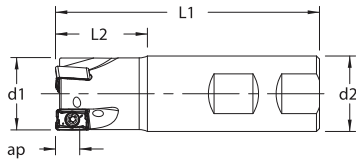
LNMX Milling Program



The newly developed LNMX family of milling cutters for square shoulder milling, available in 2 edge lengths, utilizes strong negative inserts giving users 4 cutting edges. Due to the design and thickness of the insert, high metal removal rates can be achieved optimizing productivity and cost.

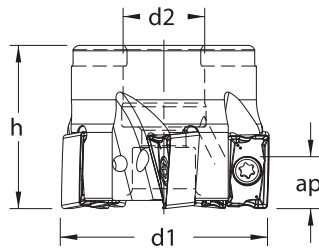
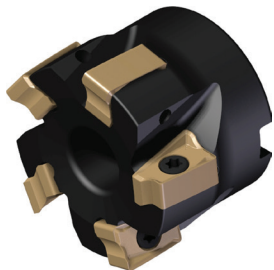
Features:

- 2 available cutting edge lengths- 11mm and 17mm
- Economical 4 cutting edges
- High rake giving smooth cutting action
- Proven grades giving long predictable life
- Suitable for Steel, Stainless Steel and Cast Iron
- Strong thick insert for maximum feed rates
- Capable of ramping and helical boring



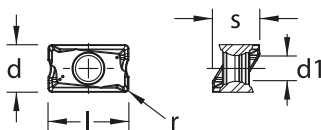
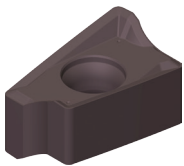
LN End Mills using LNMX Inserts

Designation	d ¹	d ²	l ¹	l ²	flutes
<i>Insert: LNMX-110608</i> Maximum Depth of Cut: .300"					
LN11EM-0750-3.50F3	.750	.750	3.50	1.47	3
LN11EM-1000-4.00H3	1.000	1.000	4.00	1.72	3
LN11EM-1250-4.00J4	1.250	1.250	4.00	1.72	4
LN11EM-1500-4.00J5	1.500	1.250	4.00	1.72	5



LN Shell Mills using LNMX Inserts

Designation	d ¹	d ²	h	flutes
<i>Insert: LNMX-110608</i> Maximum Depth of Cut: .300"				
LN11SM-2000-1.50F5	2.000	.750	1.50	5
LN11SM-2500-1.75H7	2.500	1.000	1.75	7
LN11SM-3000-1.75H9	3.000	1.000	1.75	9
<i>Insert: LNMX-171008</i> Maximum Depth of Cut: .450"				
LN17SM-2000-1.50F4	2.000	.750	1.50	5
LN17SM-2500-1.75H5	2.500	1.000	1.75	6
LN17SM-3000-2.00H6	3.000	1.000	2.00	7
LN17SM-4000-2.00J7	4.000	1.500	2.00	8
LN17SM-5000-2.00L8	5.000	1.500	2.00	9
LN17SM-6000-2.50L9	6.000	2.000	2.50	10



LNMX Inserts

Designation	l	d	s	d ¹	r	TP30MC	TP30GP	TP35MP
LNMX-110608	.433	.276	.250	.138	1/32	●	●	●
LNMX-171008	.669	.394	.394	.216	1/32		●	●

Spare Parts			
Insert: LNMX-1106..	TX8-672	W-37022	W-45511
Insert: LNMX-1710..	TX15-1245	W-37032	W-45526

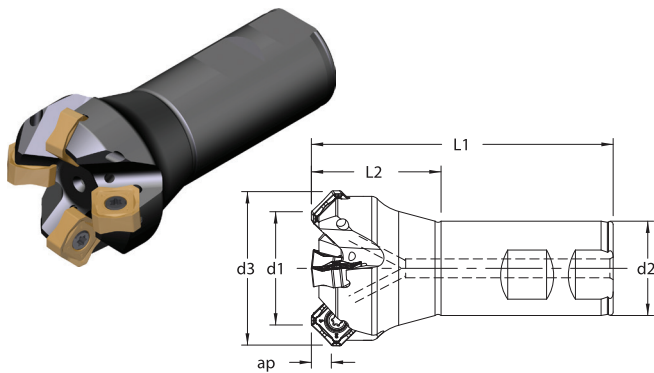
Remember to use COPASLIP® anti-seize compound on all insert screws

SNMX Milling Program

The newly developed SNMX family of milling cutters are designed for rapid metal removal in general face milling applications. Utilizing double sided square inserts with a high positive top rake angle provides users with an economical solution for better productivity.

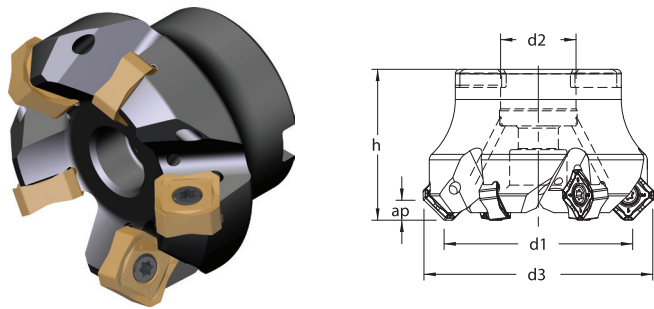
Features:

- Maximum depth of cut capability of 0.250"
- Strong, thick insert for high feed rates
- Excellent surface finish
- Proven grades giving long predictable life
- Economical 8 usable cutting edges
- Smooth cutting action with low cutting forces due to high top rake on insert
- Suitable for Steel, Stainless Steel and Cast Iron



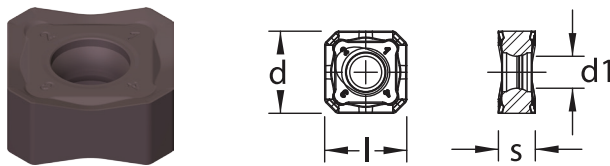
SN End Mills using SNMX Inserts

Designation	d ¹	d ²	d ³	l ¹	l ²	flutes
<i>Insert: SNMX-140600NN</i> Maximum Depth of Cut: .250"						
SN14EM-1250-3.50J3	1.250	1.250	1.78	3.50	1.22	3
SN14EM-1500-4.00J4	1.500	1.250	2.03	4.00	1.72	4



SN Shell Mills using SNMX Inserts

Designation	d ¹	d ²	d ³	h	flutes
<i>Insert: SNMX-140600NN</i> Maximum Depth of Cut: .250"					
SN14SM-2000-1.75F5	2.000	.750	2.53	1.75	5
SN14SM-2500-2.00H6	2.500	1.000	3.03	2.00	6
SN14SM-3000-2.00H7	3.000	1.000	3.53	2.00	7
SN14SM-4000-2.50L8	4.000	1.500	4.53	2.50	8
SN14SM-6000-2.50P10	6.000	2.000	6.53	2.50	10
SN14SM-8000-2.50T12	8.000	2.500	8.53	2.50	12



SNMX Inserts

Designation	l	d	s	d ¹	r	TP30MC	TP35MP		
SNMX-140600NN	.551	.551	.250	.216	-	●	●		

Spare Parts			
Insert: SNMX-1406..	TX15-1245	W-37032	W-45526

Remember to use COPASLIP® anti-seize compound on all insert screws

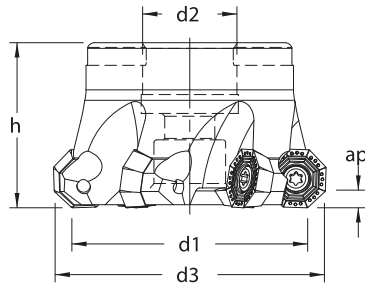
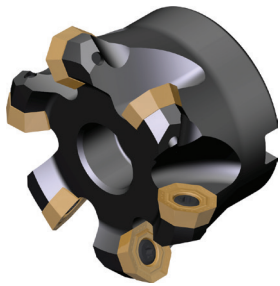
ODHT / ODMW Milling Program



The ODHT / ODMW family of milling cutters is an economical solution for general face milling. The single sided inserts with 8 cutting edges and positive geometry provide a cost effective way to optimize feed rates even on lower horse power machines.

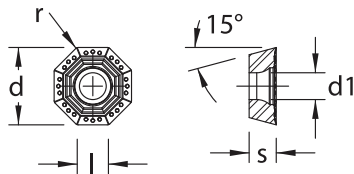
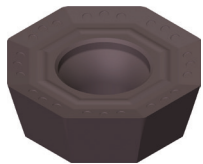
Features:

- Positive inserts draw less spindle load
- Economical 8 cutting edges
- 4mm depth of cut capability
- Excellent surface finishes
- Suitable for all materials
- Proven grades giving long predictable tool life



OD Shell Mills using ODHT / ODMW Inserts

Designation	d ¹	d ²	h	flutes
<i>Insert: OD..-060508..</i>				
Maximum Depth of Cut: .150"				
OD06SM-2000-1.75F4	2.000	.750	1.75	4
OD06SM-2500-2.00H5	2.500	1.000	2.00	5
OD06SM-3000-2.00H6	3.000	1.000	2.00	6
OD06SM-4000-2.00J7	4.000	1.250	2.00	7



OD.. Inserts

Designation	l	d	s	d ¹	r	TP30MC	TP35MP	RK15MC	TK15MC
ODHT-060508ZZ	.250	.625	.219	.216	1/32	●	●		
ODMW-060508SN	.250	.625	.219	.216	1/32	●	●	●	●

Spare Parts			
Insert: ODHT-060508ZZ ODMW-060508SN	TX20-1250	W-37036	W-45531

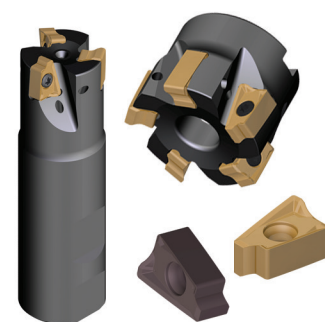
Remember to use COPASLIP® anti-seize compound on all insert screws

Cutting Data for LNMX & SNMX Milling Program



Cutting Data for LNMX Milling Program			SFPM				
P	Work Material	Milling Feed	TP30MC	TP35MP			
	Steel, Unalloyed low carbon	.004 - .010	600 - 1050	450 - 950	-	-	
	Steel, Low to Medium Alloy	.004 - .010	475 - 900	360 - 700	-	-	
	Steel Alloy and Tool Steels	.004 - .008	360 - 850	260 - 650	-	-	
	High Tensile Steels	.004 - .008	325 - 770	225 - 590	-	-	
M	Austenitic (304, 304L, 316, 316L)	.004 - .010	390 - 850	295 - 655	-	-	
	Duplex (323, 329, F55, 2205)	.004 - .010	310 - 680	225 - 520	-	-	
	Super Austenitic (310 mod)	.004 - .008	245 - 520	180 - 390	-	-	
	Stainless, PH Series (17-4, 630)	.005 - .008	210 - 455	145 - 325	-	-	
K	Grey Cast Iron	Ferrit/pearl	-	-	-	-	
		pearlitic	-	-	-	-	
	Nodular Cast Iron	ferritic	.004 - .010	-	470 - 680	-	-
		pearlitic	.004 - .010	-	400 - 580	-	-
	Malleable Cast Iron	ferritic	-	-	-	-	-
		pearlitic	-	-	-	-	-

LNMX



Cutting Data for SNMX Milling Program			SFPM				
P	Work Material	Milling Feed	TP30MC	TP35MP			
	Steel, Unalloyed low carbon	.004 - .018	600 - 1050	450 - 950	-	-	
	Steel, Low to Medium Alloy	.004 - .018	475 - 900	360 - 700	-	-	
	Steel Alloy and Tool Steels	.004 - .018	360 - 850	260 - 650	-	-	
	High Tensile Steels	.004 - .018	325 - 770	225 - 590	-	-	
M	Austenitic (304, 304L, 316, 316L)	.004 - .010	390 - 850	295 - 655	-	-	
	Duplex (323, 329, F55, 2205)	.004 - .010	310 - 680	225 - 520	-	-	
	Super Austenitic (310 mod)	.004 - .010	245 - 520	180 - 390	-	-	
	Stainless, PH Series (17-4, 630)	.005 - .012	210 - 455	145 - 325	-	-	
K	Grey Cast Iron	Ferrit/pearl	-	-	-	-	
		pearlitic	-	-	-	-	
	Nodular Cast Iron	ferritic	.004 - .012	-	450 - 650	-	-
		pearlitic	.004 - .010	-	380 - 560	-	-
	Malleable Cast Iron	ferritic	-	-	-	-	-
		pearlitic	-	-	-	-	-

SNMX

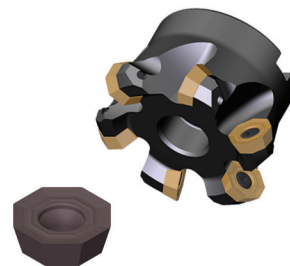


Cutting Data for ODHT / ODMW Milling Program

TVcarbfocus

P	Cutting Data for OD.. Milling Program		SFPM				
	Work Material	Milling Feed	TP30MC	TP35MP	RK15MC	TK15MC	
P	Steel, Unalloyed low carbon	.004 - .012	600 - 1050	450 - 950	-	-	
	Steel, Low to Medium Alloy	.004 - .012	475 - 900	360 - 700	-	-	
	Steel Alloy and Tool Steels	.004 - .012	360 - 850	260 - 650	-	-	
	High Tensile Steels	.004 - .010	325 - 770	225 - 590	-	-	
M	Austenitic (304, 304L, 316, 316L)	.004 - .010	390 - 850	295 - 655	-	-	
	Duplex (323, 329, F55, 2205)	.004 - .010	310 - 680	225 - 520	-	-	
	Super Austenitic (310 mod)	.004 - .010	245 - 520	180 - 390	-	-	
	Stainless, PH Series (17-4, 630)	.005 - .012	210 - 455	145 - 325	-	-	
K	Grey Cast Iron	Ferrit/pearl	.004 - .012	-	-	700 - 1200	560 - 950
		pearlitic	.004 - .012	-	-	590 - 980	460 - 720
	Nodular Cast Iron	ferritic	.004 - .012	-	-	560 - 950	490 - 790
		pearlitic	.004 - .010	-	-	360 - 850	260 - 590
	Malleable Cast Iron	ferritic	.004 - .012	-	-	330 - 980	390 - 790
		pearlitic	.004 - .010	-	-	360 - 790	300 - 620
S	High Temp	G 200 HB	.004 - .011	-	110 - 160	-	-
	Alloy FE	AG 280 HB	.004 - .011	-	80 - 130	-	-
	High Temp	G 250 HB	.004 - .010	-	30 - 80	-	-
	Alloy	AG 350 HB	.004 - .010	-	20 - 70	-	-
	Ni / Co	GO 320 HB	.004 - .010	-	50 - 110	-	-
	Titanium Alloys		.004 - .011	-	100 - 230	-	-
	TIAL6V4	AG	.004 - .011	-	80 - 200	-	-

ODHT / ODMW



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