

High Performance Milling Tools

FREE *with the purchase of inserts*

A comprehensive offering of tooling
designed for High Feed, Face Milling
& Square Shoulder Machining

Ty Carb®



PROMO PRICING EXPIRES MAY 31ST, 2019

TYSON TOOL®

TYSON TOOL COMPANY LIMITED
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Available From:

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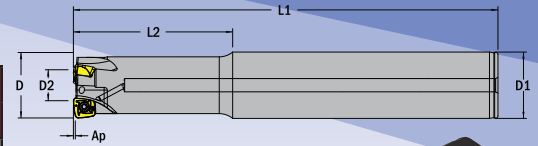
High Feed HF Milling Program

HF10 End Mills

End Mills with Weldon Shanks and
Extended Length End Mills with Cylindrical Shanks

Designation	D	D1	D2	L1	L2	Ap	Flutes	*FREE with Insert Purchase Below
INSERTS: High Feed XDMT-100415 / XDMW-100415 • Square Shoulder SDMT-100408								
HF10EM-1000-5.00H2	1.000	1.000	.375	5.00	2.72	.04	2	30 Inserts
HF10EM-1000-5.00H3	1.000	1.000	.375	5.00	2.72	.04	3	40 Inserts
HF10CY-1000-8.00H2*	1.000	1.000	.375	8.00	3.00	.04	2	40 Inserts
HF10CY-1000-10.00H2*	1.000	1.000	.375	10.00	3.00	.04	2	40 Inserts
HF10EM-1250-6.00J3	1.250	1.250	.620	6.00	3.72	.04	3	40 Inserts
HF10CY-1250-8.00J3*	1.250	1.250	.620	8.00	3.00	.04	3	40 Inserts
HF10CY-1250-10.00J3*	1.250	1.250	.620	10.00	3.00	.04	3	50 Inserts
HF10EM-1500-6.00J3	1.500	1.250	.866	6.00	-	.04	3	40 Inserts
HF10CY-1500-8.00J3*	1.500	1.250	.866	8.00	-	.04	3	50 Inserts
Insert Screw: TX9P-3007 • Flag Wrench: W-37048 • Screw Driver: W-36229								

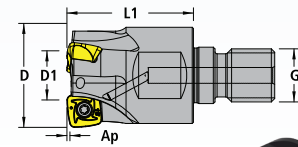
*End mills with Cylindrical shanks



HF10 Thread-On End Mills

Thread-On End Mills with Through Coolant

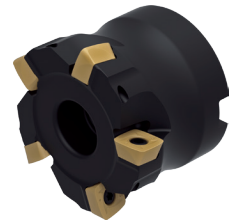
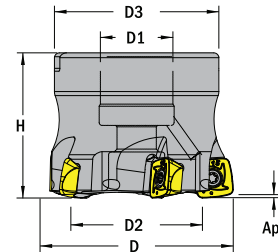
Designation	D	D1	L1	G	Ap	Flutes	*FREE with Insert Purchase Below
INSERTS: High Feed XDMT-100415 / XDMW-100415 • Square Shoulder SDMT-100408							
HF10TS-1000-M12-2	1.000	.375	1.50	M12	.04	2	30 Inserts
HF10TS-1000-M12-3	1.000	.375	1.50	M12	.04	3	40 Inserts
HF10TS-1250-M16-2	1.250	.620	1.50	M16	.04	2	40 Inserts
HF10TS-1250-M16-3	1.250	.620	1.50	M16	.04	3	40 Inserts
HF10TS-1500-M16-3	1.500	.866	1.50	M16	.04	3	40 Inserts
HF10TS-1500-M16-4	1.500	.866	1.50	M16	.04	4	50 Inserts
Insert Screw: TX9P-3007 • Flag Wrench: W-37048 • Screw Driver: W-36229							



HF10 Face Mills

Face Mill Design with Through Coolant up to 4.00" dia.

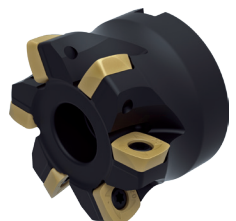
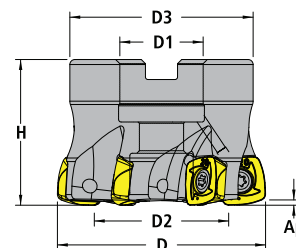
Designation	D	D1	D2	D3	H	Ap	Flutes	*FREE with Insert Purchase Below
INSERTS: High Feed XDMT-100415 / XDMW-100415 • Square Shoulder SDMT-100408								
HF10SM-2000-1.50F5	2.000	.750	1.365	1.70	1.50	.04	5	50 Inserts
HF10SM-2000-1.50F7	2.000	.750	1.365	1.70	1.50	.04	7	70 Inserts
Insert Screw: TX9P-3007 • Flag Wrench: W-36548 • Screw Driver: W-36229								



HF14 Face Mills

Face Mill Design with Through Coolant up to 4.00" dia.

Designation	D	D1	D2	D3	H	Ap	Flutes	*FREE with Insert Purchase Below
INSERTS: High Feed XDMT-140520 / XDMW-140520 • Square Shoulder SDMT-140512								
HF14SM-2000-1.50F4	2.000	.750	1.122	1.70	1.50	.08	4	40 Inserts
HF14SM-2000-1.50F5	2.000	.750	1.122	1.70	1.50	.08	5	50 Inserts
HF14SM-2500-1.75H6	2.500	1.000	1.619	2.20	1.75	.08	6	60 Inserts
HF14SM-3000-2.00H5	3.000	1.000	2.118	2.75	2.00	.08	5	50 Inserts
HF14SM-3000-2.00J5	3.000	1.250	2.118	2.75	2.00	.08	5	50 Inserts
HF14SM-3000-2.00H7	3.000	1.000	2.118	2.75	2.00	.08	7	70 Inserts
HF14SM-3000-2.00J7	3.000	1.250	2.118	2.75	2.00	.08	7	70 Inserts
HF14SM-4000-2.00J8	4.000	1.250	3.116	2.75	2.00	.08	8	80 Inserts
HF14SM-4000-2.00L8	4.000	1.500	3.116	3.80	2.00	.08	8	80 Inserts
HF14SM-6000-2.00L10	6.000	1.500	5.116	3.80	2.00	.08	10	120 Inserts
HF14SM-8000-2.50T12	8.000	2.500	7.114	5.50	2.50	.08	12	200 Inserts
Insert Screw: TX20-1250 • Flag Wrench: W-36535 • Screw Driver: W-45531								



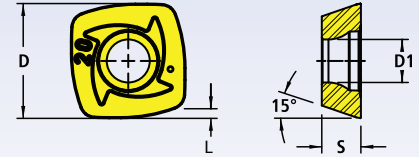
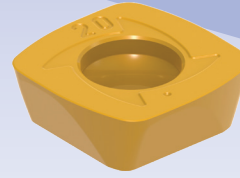
*Free Cutter only valid with inserts shown on facing page

High Feed HF Milling Program

High Feed XDMT / XDMW Inserts

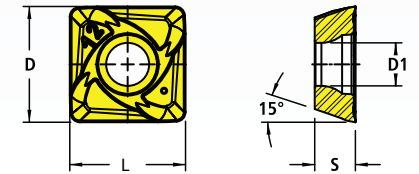
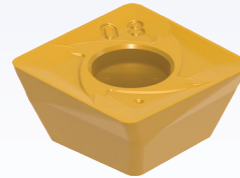
Designation	D	S	D1	L	Rt	NP20MC	NP25MP	NP30MC	NP35MP	NM40MP	NK15MC	NK20MP
XDMT-100415ER-MH	.402	.187	.138	.040	.089							
XDMT-100415SR-PH												
XDMW-100415SR-KH												
XDMW-100415SR-PH												
XDMT-140520ER-MH	.579	.197	.217	.080	.136							
XDMT-140520SR-PH												
XDMW-140520SR-KH												
XDMW-140520SR-PH												

Rt= Theoretical Radius for Programming



Square Shoulder SDMT Inserts

Designation	D	S	D1	L	Rad	NP20MC	NP25MP	NP30MC	NP35MP	NM40MP	NK15MC	NK20MP
SDMT-100408ER-M	.409	.191	.138	.409	.031							
SDMT-100408SR-K												
SDMT-100408SR-P												
SDMT-140512ER-M	.583	.205	.217	.583	.047							
SDMT-140512SR-K												
SDMT-140512SR-P												



NP20MC (HC-P20) An alternative harder new generation CVD coated grade to NP25MP when higher abrasion resistance is required. Suitable for all steels at higher cutting speeds in stable conditions.

NP25MP (HC-P25/M25) A PVD multi-purpose grade suitable for all steels and stainless steel at high cutting speeds with or without coolant in stable conditions.

NP30MC (HC-P30) A universal grade with a tough carbide substrate and new generation CVD coating making an excellent choice for dry machining on a range of steels at moderate cutting speeds.

NP35MP (HC-P35/M35) A tough PVD coated grade for all steels and stainless steels. Most suitable for dry machining under difficult conditions at low to moderate cutting speeds.

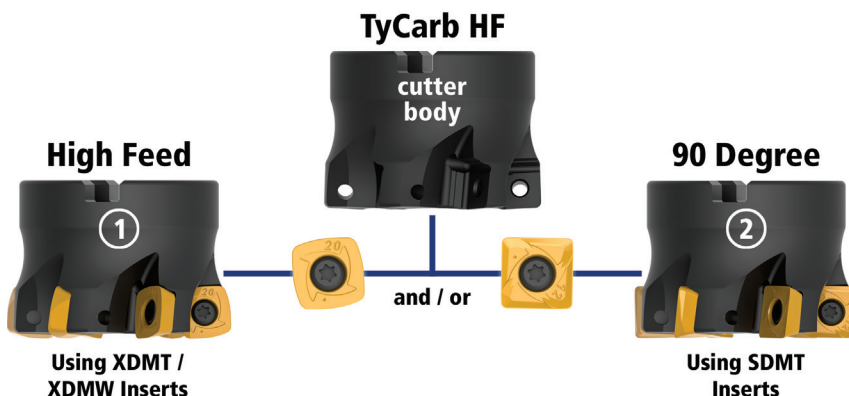
NM40MP (HC-M40) An extremely tough carbide substrate with smooth PVD coating. Suitable for austenitic and duplex stainless steels, at low to moderate cutting speeds. Suitable for use with coolant.

NK15MC (HC-K15) A hard new generation CVD coated grade for dry machining in all cast irons including grey, nodular and compacted graphite cast iron.

NK20MP (HC-K20/P10) A tough carbide substrate with a thick PVD coating makes this grade most suitable for machining of cast materials, but also hardened steel up to 54 Rc.

Two Unique Tools

Engineered into One Cutter Body Design:



High Feed Milling Program

- All TyCarb HF tools can easily be converted from High Feed to 90 Degree Square Shoulder
- Simply switch insert styles from XDMT / XDMW to SDMT
- Less cost and inventory to manage

Full High Feed brochure available online at www.tysontool.com

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.

**90° Square Shoulder!
4 Cutting Edges per Insert!**

Features:

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

LN11 End Mills

End Mill Design with Through Coolant

Designation	Dia.	Shank	O.A.L.	Reach	Flutes	*FREE with Insert Purchase Below
D.O.C. = .300"	INSERT: LNMX-110608					
LN11EM-0750-3.50F2	.750	.750	3.50	1.47	2	30 Inserts
LN11EM-1000-4.00H3	1.000	1.000	4.00	1.72	3	40 Inserts
LN11EM-1250-4.00J4	1.250	1.250	4.00	1.72	4	50 Inserts
LN11EM-1500-4.00J5	1.500	1.250	4.00	1.72	5	50 Inserts
Insert Screw: TX8-672 • Flag Wrench: W-37022 • Screw Driver: W-45511						

*Free Cutter only valid with inserts shown below



LN11 & LN17 Face Mills

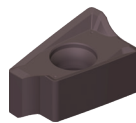
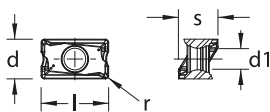
Face Mill Design with Through Coolant up to 4.00" dia.

Designation	Dia.	Bore	Height	Flutes	*FREE with Insert Purchase Below
D.O.C. = .300"	INSERT: LNMX-110608				
LN11SM-2000-1.50F5	2.000	.750	1.50	5	50 Inserts
LN11SM-2500-1.75H7	2.500	1.000	1.75	7	70 Inserts
LN11SM-3000-1.75H9	3.000	1.000	1.75	9	90 Inserts
Insert Screw: TX8-672 • Flag Wrench: W-37022 • Screw Driver: W-45511					
D.O.C. = .450"	INSERT: LNMX-171008				
LN17SM-2000-1.50F5	2.000	.750	1.50	5	50 Inserts
LN17SM-2500-1.75H6	2.500	1.000	1.75	6	60 Inserts
LN17SM-3000-2.00H7	3.000	1.000	2.00	7	70 Inserts
LN17SM-4000-2.00J8	4.000	1.250	2.00	8	80 Inserts
LN17SM-5000-2.00L9	5.000	1.500	2.00	9	100 Inserts
LN17SM-6000-2.50P10	6.000	2.000	2.50	10	120 Inserts
Insert Screw: TX15-1245 • Flag Wrench: W-37032 • Screw Driver: W-45526					

*Free Cutter only valid with inserts shown below



LNMX Inserts



Designation	l	d	s	d1	r	TP30MC	TP35MP
LNMX-110608	.433	.276	.250	.138	1/32	●	●
LNMX-171008	.669	.394	.394	.216	1/32	●	●

TyCarb Milling Grades

TP30MC: P25-P40

The very tough carbide substrate guarantees this universal steel milling grade's high machining security for a wide range of steel material. A modern MT-CVD multilayer Al₂O₃ – coating ensures successful dry machining.

TP35MP: P20-P40, M20-M40

Very tough Nanotop PVD AlTiN gradient coating carbide grade especially for milling tool steels. Ideal for dry milling at low to medium cutting speeds for roughing.

TS90 Milling Program

The TS90 Square Shoulder Milling Cutters are an ideal tool for 90° slot and shoulder milling. They are available in diameters from 1½" to 6", using ½" I.C. inserts.

The cutter bodies are manufactured with premium hardened steel for rigidity. The TS90s use indexable inserts with four effective cutting edges, which are securely clamped with Torx® screws.

The TS90 cutter delivers optimum milling performance with outstanding chip evacuation. The cutters operate smoothly with low power requirements. These cutters are ideal for slot milling, edge trimming, square shoulder milling and face milling, in materials ranging from low alloy steels to stainless and high alloy steels, as well as grey, ductile and nodular cast iron.

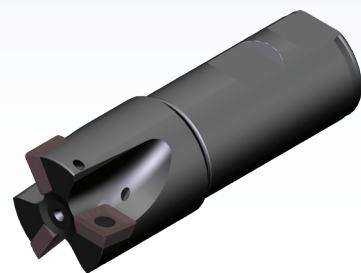
Positive geometries and strengthened cutting edges guarantee trouble-free machining of a wide range of materials. These inserts have 4 usable cutting edges.

TS90 End Mills

End Mill Design with Through Coolant

Designation	Dia.	Shank	O.A.L.	Reach	Flutes	*FREE with Insert Purchase Below
D.O.C. = .400"	INSERT: SDMT-1204 PDR-TM					
TS90E-1.5SD4	1.500	1.250	4.00	1.72	3	40 Inserts
TS90E-2SD4	2.000	1.250	4.00	1.72	4	40 Inserts
Insert Screw: TX15-388 • Flag Wrench: W-37032 • Screw Driver: W-45526						

*Free Cutter only valid with inserts shown below.

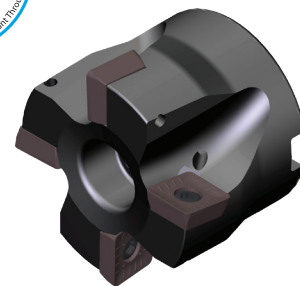


TS90 Face Mills

Face Mill Design with Through Coolant up to 4.00" dia.

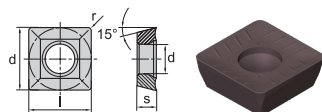
Designation	Dia.	Bore	Height	Flutes	LBS	*FREE with Insert Purchase Below
D.O.C. = .400"	INSERT: SDMT-1204 PDR-TM					
TS90-2SD4	2.000	.750	1.50	4	.50	40 Inserts
TS90-2SD4F	2.000	.750	1.50	5	.50	50 Inserts
TS90-2.5SD4	2.500	1.000	1.75	5	1.00	50 Inserts
TS90-2.5SD4F	2.500	1.000	1.75	6	1.35	60 Inserts
TS90-3SD4	3.000	1.000	2.00	6	2.00	60 Inserts
TS90-4SD4	4.000	1.500	2.00	8	2.70	80 Inserts
TS90-5SD4F	5.000	1.500	2.00	9	5.25	120 Inserts
TS90-6SD4	6.000	2.000	2.50	10	8.15	140 Inserts
Insert Screw: TX15-388 • Flag Wrench: W-37032 • Screw Driver: W-45526						

*Free Cutter only valid with inserts shown below.



90° Square Shoulder • 4 Cutting Edges per Insert!

SDMT-1204 PDR-TM is a multi purpose format designed for materials including low to high alloy steels, tool steels, as well as stainless.



TS90 Inserts

Designation	l	s	r	I.C.	d ¹	RP35MP	RP40MP
SDMT-1204 PDR-TM	.500	3/16	3/64	1/2	.173	●	●

TyCarb Milling Grades

RP35MP: P20-P35, M20-M40

A tough grade with TiAlN supernitride PVD coating used in roughing of steel and stainless when good wear resistance is required.

RP40MP: P30-P40, M30-M40, S30-S40

A very tough strong grade with TiAlN supernitride coating. Used in roughing applications in steel but also machining 300 series stainless steel and difficult to cut aerospace alloys.

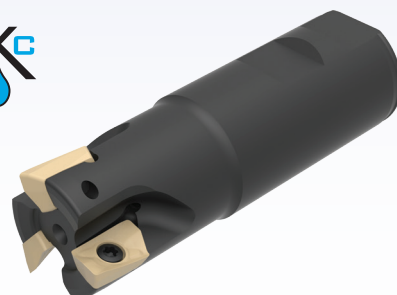
AD Milling Program

AD11 & AD16 End Mills

End Mill Design with Through Coolant

Designation	Dia.	Shank	O.A.L	Reach	Flutes	*FREE with Insert Purchase Below	
D.O.C. = .350"	INSERT: ADMT-11T3__ or ADET-11T3__						
AD11EM-0625-3.00E2	.625	.625	3.00	1.09	2	30 Inserts	
AD11CY-0625-6.00E2			6.00	2.00		30 Inserts	
AD11EM-0750-3.50F2	.750	.750	3.50	1.47	2	30 Inserts	
AD11EM-0750-3.50F3					3	40 Inserts	
AD11CY-0750-8.00F2				8.00	2.00	2	40 Inserts
AD11EM-1000-3.50F3				.750	3.50	1.47	3
AD11EM-1000-4.00H2	1.00	1.00	4.00	1.72	2	40 Inserts	
AD11EM-1000-4.00H3					3	40 Inserts	
AD11EM-1000-4.00H4					4	50 Inserts	
AD11CY-1000-8.00H3						8.00	2.25
AD11EM-1250-4.00J4	1.25	1.250	4.00	1.72	4	50 Inserts	
AD11EM-1250-4.00J5					5	60 Inserts	
AD11CY-1250-8.00J3				8.00	2.25	3	50 Inserts
AD11EM-1500-4.00J5	1.50	1.250	4.00	1.72	5	60 Inserts	
Insert Screw: TX8P-2505 • Flag Wrench: W-37046 • Screw Driver: W-36228							
D.O.C. = .500"	INSERT: ADMT-1606__ or ADET-1606__						
AD16EM-1000-4.00H2	1.00	1.000	4.00	1.72	2	30 Inserts	
AD16CY-1000-8.00H2			8.00	2.25	2	40 Inserts	
AD16EM-1250-4.00J3	1.25	1.250	4.00	1.72	3	40 Inserts	
AD16CY-1250-8.00J3			8.00	2.25	3	40 Inserts	
AD16EM-1500-4.00J4	1.50	1.250	4.00	1.72	4	50 Inserts	
AD16CY-1500-8.00J3			8.00	2.25	3	50 Inserts	
Insert Screw: TX15P-4008 • Flag Wrench: W-36552 • Screw Driver: W-36238							

The TyCarb AD series of tools offer high performance capabilities for profiling, ramping, slotting, face milling, as well as helical interpolation. Combined with our insert selection of 3 geometries and 5 grades these tools offer excellent results in steel, stainless, aluminum, cast iron, as well as exotic materials such as Titanium and Inconel.

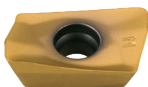
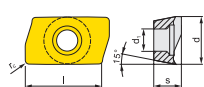


AD11 & AD16 Face Mills

Face Mill Design with Through Coolant up to 4.00" dia.

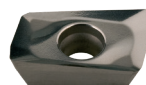
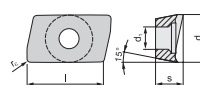
Designation	Dia.	Bore	Height	Flutes	*FREE with Insert Purchase Below
D.O.C. = .350"	INSERT: ADMT-11T3__ or ADET-11T3__				
AD11SM-2000-1.50F5	2.00	.750	1.50	5	60 Inserts
AD11SM-2000-1.50F7				7	70 Inserts
AD11SM-2500-1.75H7	2.50	1.000	1.75	7	70 Inserts
AD11SM-3000-2.00H9	3.00		2.00	9	90 Inserts
Insert Screw: TX8P-2505 • Flag Wrench: W-37046 • Screw Driver: W-36228					
D.O.C. = .500"	INSERT: ADMT-1606__ or ADET-1606__				
AD16SM-2000-1.50F3	2.00	.750	1.50	3	40 Inserts
AD16SM-2000-1.50F4				4	50 Inserts
AD16SM-2000-1.50F5				5	50 Inserts
AD16SM-2500-1.75H6	2.50	1.000	1.75	6	60 Inserts
AD16SM-3000-2.00H7	3.00		2.00	7	70 Inserts
AD16SM-4000-2.00L8	4.00	1.500	2.00	8	80 Inserts
AD16SM-5000-2.00L9	5.00			9	100 Inserts
AD16SM-6000-2.00L10	6.00			10	120 Inserts
Insert Screw: TX15P-4011 • Flag Wrench: W-37052 • Screw Driver: W-36238					

ADMT



Designation	l	d	s	d1	r	P25MC	P30MP	P40MP	M40MC	TK10M
ADMT-11T304-TRM	.433	.257	.156	.114	.016	●	●	●	●	●
ADMT-11T308-TRM					.032	●	●	●	●	●
ADMT-11T316-TRM					.063	●	●	●	●	●
ADMT-11T330-TRM					.118	●	●	●	●	●
ADMT-11T308-TRR	.433	.257	.156	.114	.032	●	●	●	●	●
ADMT-160608-TRM	.630	.392	.246	.177	.032	●	●	●	●	●
ADMT-160616-TRM					.063	●	●	●	●	●
ADMT-160632-TRM					.126	●	●	●	●	●
ADMT-160608-TRR					.032	●	●	●	●	●

ADET



Designation	l	d	s	d1	r	P25MC	P30MP	P40MP	M40MC	TK10M
ADET-11T304-AL	.433	.257	.156	.114	.016	●	●	●	●	●
ADET-11T308-AL					.032	●	●	●	●	●
ADET-11T316-AL					.063	●	●	●	●	●
ADET-160608-AL					.032	●	●	●	●	●

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.

- Maximum depth of cut capability of .250"
- Economical 8 usable cutting edges
- Strong, thick insert for high feed rates
- Smooth cutting action with low cutting forces due to high top rake on insert
- Excellent surface finish
- Suitable for Steel, Stainless Steel, and Cast Iron
- Proven grades giving long predictable life



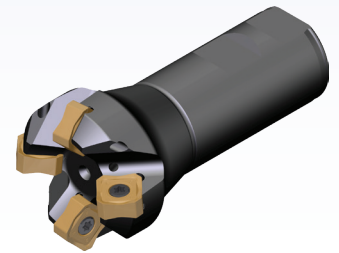
SN14 End Mills

End Mill Design with Through Coolant

Designation	Dia.	Shank	O.D. Dia.	O.A.L.	Flutes	*FREE with Insert Purchase Below
D.O.C. = .250"	INSERT: SNMX-140600NN					
SN14EM-1250-3.50J3	1.250	1.250	1.78	3.50	3	40 Inserts
SN14EM-1500-4.00J4	1.500	1.250	2.03	4.00	4	50 Inserts

Insert Screw: TX15-2415 • Flag Wrench: W-37032 • Screw Driver: W-45526

*Free Cutter only valid with inserts shown below.



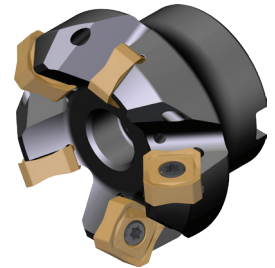
SN14 Face Mills

Face Mill Design with Through Coolant up to 4.00" dia.

Designation	Dia.	Bore	O.D. Dia.	Height	Flutes	*FREE with Insert Purchase Below
D.O.C. = .250"	INSERT: SNMX-140600NN					
SN14SM-2000-1.75F5	2.000	0.750	2.53	1.75	5	60 Inserts
SN14SM-2500-2.00H6	2.500	1.000	3.03	2.00	6	70 Inserts
SN14SM-3000-2.00H7	3.000	1.000	3.53	2.00	7	80 Inserts
SN14SM-4000-2.50L8	4.000	1.500	4.53	2.50	8	100 Inserts
SN14SM-6000-2.50P10	6.000	2.000	6.53	2.50	10	120 Inserts
SN14SM-8000-2.50T12	8.000	2.500	8.53	2.50	12	200 Inserts

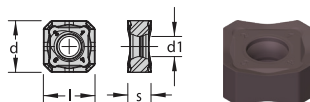
Insert Screw: TX15-2415 • Flag Wrench: W-37032 • Screw Driver: W-45526

*Free Cutter only valid with inserts shown below.



8 Economical Cutting Edges! • .250" Maximum Depth of Cut!

SNMX Inserts



Designation	l	d	s	d1	r	TP30MC	TP35MP
SNMX-140600NN	.551	.551	.250	.216	-	●	●

TyCarb Milling Grades

TP30MC: P25-P40

The very tough carbide substrate guarantees this universal steel milling grade's high machining security for a wide range of steel material. A modern MT-CVD multilayer Al₂O₃ – coating ensures successful dry machining.

TP35MP: P20-P40, M20-M40

Very tough Nanotop PVD AlTiN gradient coating carbide grade especially for milling tool steels. Ideal for dry milling at low to medium cutting speeds for roughing.

HexMill 45 HN Milling Program

The NEW TyCarb HexMill 45 offers exceptional Metal Removal Rates (MRR) at very competitive cost per corner. Ideal for light to medium roughing at Depth of Cut to .120".

- Double sided insert with 12 Cutting edges
- Improved cycle times
- Exceptionally smooth cutting action
- Premium carbide milling grades
- 3 cutting geometries for light, medium & heavy applications
- Excellent tool life in all applications
- All tools with through coolant
- Milling cutters manufactured in Canada



HN33 End Mills

End Mill Design with Through Coolant

Designation	Dia.	Shank	O.A.L.	Reach	Flutes	*FREE with Insert Purchase Below
Insert: HNGX-33.5-ANSN						
HN33EM-1000-3.50F3	1.000	.750	3.50	1.47	3	40 Inserts
HN33EM-1000-4.00H3	1.000	1.000	4.00	1.72	3	40 Inserts
HN33EM-1250-4.00J3	1.250	1.250	4.00	1.72	3	40 Inserts
HN33EM-1500-4.00J4	1.500	1.250	4.00	1.72	4	50 Inserts
Insert Screw: TX9P-3007 • Flag Wrench: W-36548 S/D: W-36229 • T-Handle: W-36461						

To arrive at the Outside Diameter (O.D.) of the above cutters please add .289" to the "D1" value listed.

*Free Cutter only valid with inserts shown below.



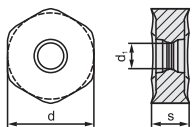
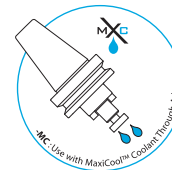
HN33 Face Mills

Face Mill Design with Through Coolant

Designation	Dia.	Bore	Height	Flutes	*FREE with Insert Purchase Below
Insert: HNGX-33.5-ANSN					
HN33SM-2000-1.50F5	2.000	.750	1.50	5	60 Inserts
HN33SM-2500-1.75H7	2.500	1.00	1.75	7	70 Inserts
HN33SM-3000-2.00H8	3.000	1.00	2.00	8	80 Inserts
HN33SM-4000-2.00L9	4.000	1.50	2.00	9	100 Inserts
Insert Screw: TX9P-3007 • Flag Wrench: W-36548 S/D: W-36229 • T-Handle: W-36461					

To arrive at the Outside Diameter (O.D.) of the above cutters please add .289" to the "D1" value listed.

*Free Cutter only valid with inserts shown below.



HNGX Inserts

Designation	d	s	d1	Ap Max	P25MC	P30MP	P40MP	M40MC
HNGX-33.5-ANSN-TF	.413	.207	.146	.120		●		●
HNGX-33.5-ANSN-TM	.413	.207	.146	.120	●	●	●	●
HNGX-33.5-ANSN-TR	.413	.207	.146	.120	●	●	●	

TyCarb Milling Grades

P25MC is a Universal CVD coated grade and is the first choice for general steel milling applications. It provides the user with a unique combination of wear resistance, toughness and reliability. P25MC comprises a fine-grained substrate with a thin MT-CVD coating including a unique Al₂O₃ layer. Suitable for machining material group P and conditionally also groups M & S.

P30MP excels in medium to heavy roughing of steel in the P family of materials. This grade is a sub micron substrate with a PVD applied thin Nano-Structure coating containing a high content of Al. P30MP is a highly versatile grade combining good abrasion resistance, toughness and reliability. Suitable for materials in the P, M & K groups.

P40MP is our toughest grade designed for applications with severe shock and/or heavy interruptions. The substrate is a sub-micron carbide with a high cobalt content. The coating is a Nano structure thin coating with a high Al content and applied by the PVD process. Suitable for machining material groups P, M, S & K. Can be used with or without coolant.

M40MC is our first choice grade for Stainless Steel milling applications. M40MC is a MT-CVD coated grade suitable for low cutting speeds and unstable conditions such as vibrations and/or interrupted cuts. The MT-CVD coating is comprised of a TiCN layer as well as a unique outer Al₂O₃ layer. Suitable for machining in the M, S and conditionally also P material groups. Can be used with or without coolant.