



QUICK-SEARCH
YG-1 PRODUCTS!!
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HF4 **YG MILL**

New HIGH FEED 4 Corner Milling Series

ENMX **MINI HIGH FEED**

for Narrow and Long Reach Application



ENMX is Reliable

- Thick and Reinforced insert
- Wide Flank for strong clamping

ENMX is Economical

- Double-sided insert



High feed Milling

P Steel and **K** Cast Iron



Tool & Cutter
Specialists in Cutting Tools Since 1969

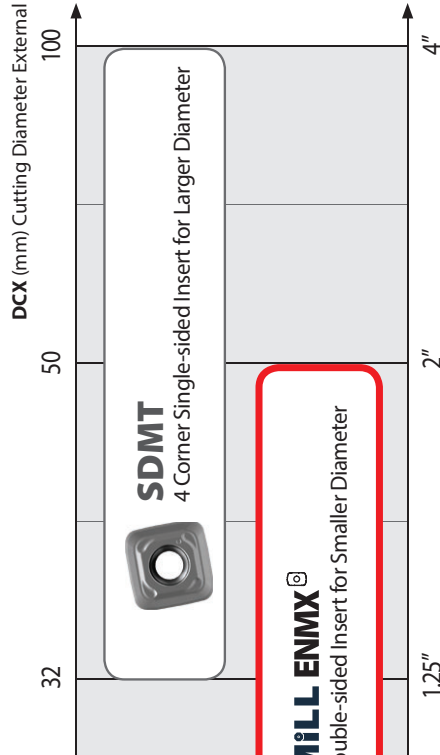
LONDON
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F 519-681-8688
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NIAGARA
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F 905-684-2286
1-800-567-0617

WOODSTOCK
T 519-421-9730
F 519-421-9285
1-800-565-2603

www.toolandcutter.com

ing Series for Small Size



Refer to page. 3 for Cutter List - Inch)

Application

- High Feed Milling, Profiling, Face Milling, Ramping, Plunging, Helical Interpolation

Features

- Diameter Range : 16~50mm (.750"-2.0")
- Double-sided Insert with 4 Corners
- Wide Flank Face with Reinforced Insert Shape
- Positive Rake Angle & Low Entering Angle
- 2 Insert Geometries

Rake Angle
or Cutting Force

Entering Angle
Feed Rate



ENMX General
Carbon Steel
Low Alloy Steel



ENMX-TR
Reinforced Edge
High Alloy Steel
Hardened Steel
Cast Iron

Advantages

- Narrow application Available (Minimum Ø16)
- High Versatile Machining
- High Cost-Efficiency
- Rigid Clamping on Insert Seat
- Prevent Breakage on Machining
- High Feed Rate Available with Low Cutting Force

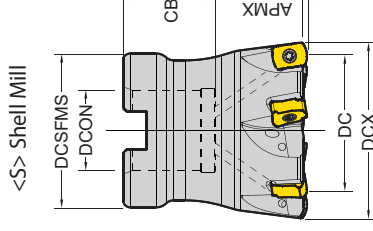
Benefits

Expand machining capability with High Versatility & Small Diameter for Ability

Improved
Strength

Product List - Milling Cutter

Milling - Cutter - High Feed Milling



Cutter List - Metric

APMX	Designation	EDP 1700..	DC	DCX	ZERP	LF
0.9	EHF-ENMX06-D16Z2C16-L100	0644	9.0	16	2	100
	EHF-ENMX06-D16Z2C16-L150	0645	9.0	16	2	150
	EHF-ENMX06-D17Z2C16-L100	0674	10.0	17	2	100
	EHF-ENMX06-D17Z2C16-L150	0473	10.0	17	2	150
1	EHF-ENMX06-D20Z3C20-L130	0463	12.6	20	3	130
	EHF-ENMX06-D20Z3C20-L160	0646	12.6	20	3	160
	EHF-ENMX06-D21Z3C20-L150	0475	13.6	21	3	150
	EHF-ENMX06-D21Z3C20-L200	0476	13.6	21	3	200
	EHF-ENMX06-D25Z4C25-L140	0647	17.6	25	4	140
	EHF-ENMX06-D25Z4C25-L180	0464	17.6	25	4	180
	EHF-ENMX06-D25Z4C25-L250	0648	17.6	25	4	250
	EHF-ENMX06-D26Z4C25-L150	0479	18.6	26	4	150
	EHF-ENMX06-D26Z4C25-L200	0480	18.6	26	4	200
	EHF-ENMX06-D32Z5C32-L150	0649	24.6	32	5	150
EHF-ENMX06-D32Z5C32-L200	0465	24.6	32	5	200	
0.9	MHF-ENMX06-D16Z2M08	0691	9.0	16	2	23
	MHF-ENMX06-D18Z2M08	0730	11.0	18	2	23
1	MHF-ENMX06-D20Z3M10	0692	12.6	20	3	30
	MHF-ENMX06-D25Z4M12	0693	17.6	25	4	35
	MHF-ENMX06-D32Z5M16	0694	24.6	32	5	42
	MHF-ENMX06-D35Z5M16	0695	27.6	35	5	42
1	MHF-ENMX06-D40Z6M16	0732	32.6	40	6	42
	MHF-ENMX06-D42Z6M16	0696	34.6	42	6	42
1	FHF-ENMX06-D40Z6S16	0482	32.6	40	6	40
	FHF-ENMX06-D50Z6S22	0471	42.6	50	6	50

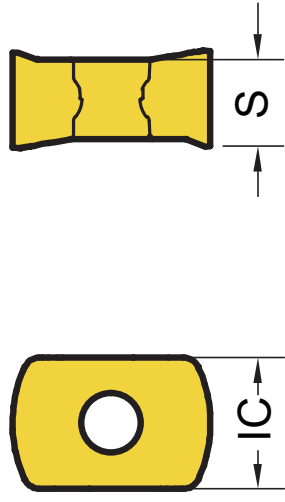
Cutter List - Inch

APMX	Designation	EDP 1700..	DC	DCX	ZERP	LF
.04	EHF-ENMX06-D075Z3W075-L500I	669	.46	.75	3	5
	EHF-ENMX06-D100Z4W100-L550I	670	.71	1	4	5.5
	EHF-ENMX06-D125Z5W125-L600I	671	.96	1.25	5	6

g Insert

Technical information

Corners



Type	Designation	EDP (YG602)
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ENMX 0604

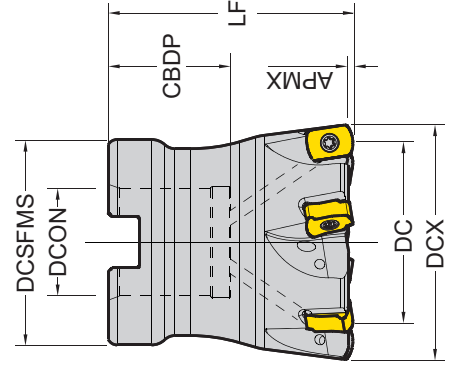
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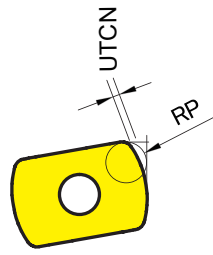
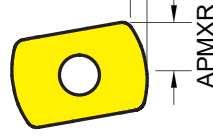
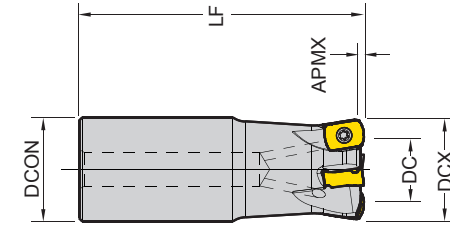
ENMX 0604 - TR

12000459

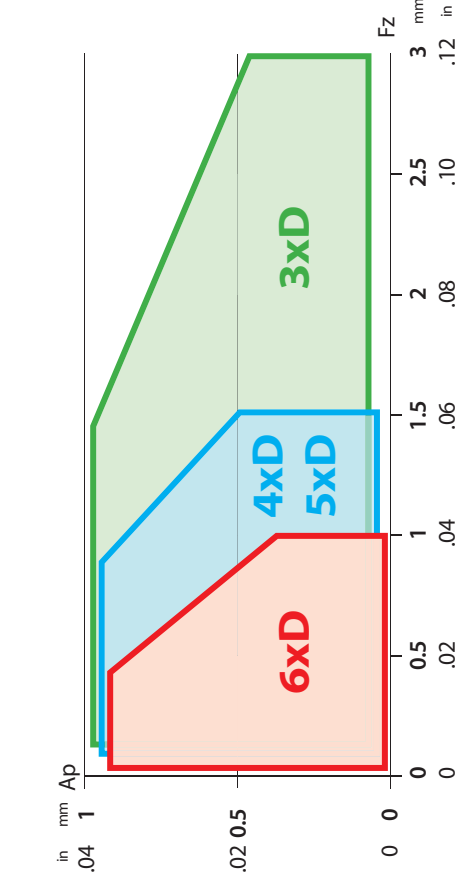
<S> Shell Mill



<C> Cylindrical



Programmed Corner Radius	RP
	2 (.079)
	2.5 (.098)
	3 (.118)



YG602		YG602	
Max	Min	Max	Min
380	460	1250	820
300	390	980	720

ISO	VDI	Sub Group	Cutting Speed		Vc (m/min.)		Vc (ft/min.)	
			Min	Max	Min	Max	Min	Max
K	15~16	Grey Cast Iron	120	250	390	820		
			130	220	430	720		
K	17~18	Nodular Cast Iron	130	220	430	720		
			130	220	430	720		



DCX	APMX	APMXR	RMPX	RP	UTCN	Dian
16 mm (.625 in)	0.9 (.035)	3.5 (.137)	3.6°	R2.0 (R.079)	0.3 (.011)	21 ()
20 mm (.75 in)	1 (.039)	3.7 (.145)	3.3°	R2.0 (R.079)	0.31 (.012)	29 ()
25 mm (1.00 in)	1 (.039)	3.7 (.145)	2.2°	R2.0 (R.079)	0.31 (.012)	39 ()
32 mm (1.25 in)	1 (.039)	3.7 (.145)	1.5°	R2.0 (R.079)	0.31 (.012)	53 (2 (.012)
40 mm (1.50 in)	1 (.039)	3.7 (.145)	1.1°	R2.0 (R.079)	0.31 (.012)	69 (2 (.012)

010

Competitor A

High Feed
General
P Grade
16 mm
2
90 m/min (295.27 ft/min)
0.42 mm/tooth (.016 in/tooth)
0.2 mm (.007 in)

12 pcs

↑166%
Tool Life

32 pcs

W/G
ENMX



12 pcs
Competitor A
High Feed

P Tool Steel 1.6565

JIS SNCM447 DIN 40NiCrMo6 AISI 4340



Competitor C

Designation	ENMX 0604	High Feed
Chipbreaker	TR	General
Grade	YG602	P Grade
Cutter Dia	25 mm	20 mm
ZFFP (Effective number of edge)	4	4
Vc (Cutting Speed)	150 m/min (492.13 ft/min)	
Fz (Feed per tooth)	0.39 mm/tooth (.015 in/tooth)	
Ap (Depth of Cut)	0.5 mm (.019 in)	
Tool Life	20 pcs <small>+100% Tool Life</small>	10 pcs

045

Competitor B

High Feed
General
P Grade
20 mm
3
157 m/min (515.09 ft/min)
0.8 mm/tooth (.031 in/tooth)

1 pc

↑200%
Tool Life

3 pcs

W/G
ENMX



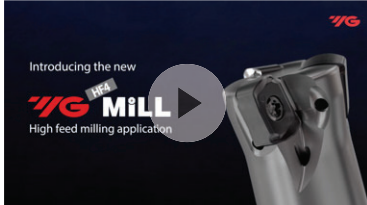
P Alloy Steel 1.6565

JIS SNCM447 DIN 40NiCrMo6 AISI 4340



Competitor D

Designation	ENMX 0604	High Feed
Chipbreaker	GN	General
Grade	YG602	P Grade
Cutter Dia	20 mm	20 mm
ZFFP (Effective number of edge)	3	3
Vc (Cutting Speed)	180 m/min (590.55 ft/min)	
Fz (Feed per tooth)	0.66 mm/tooth (.025 in/tooth)	
Ap		



Scan this QR code to see our YG HF4 Mill ENMX tools at work.

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