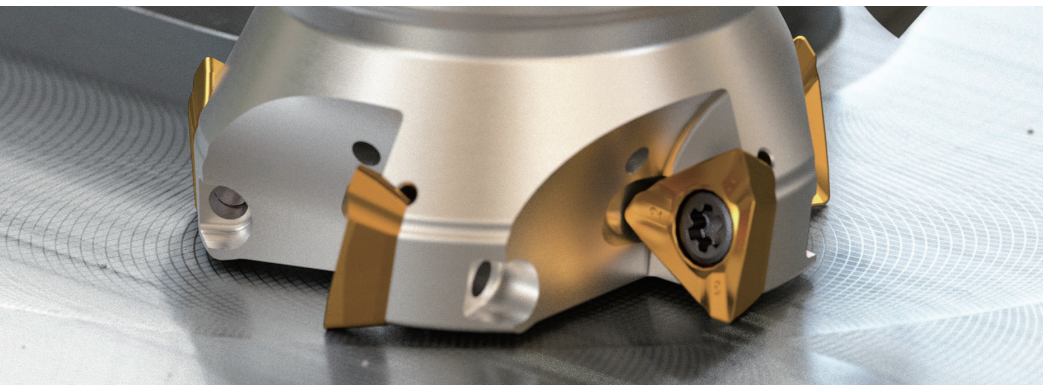
QUICK-SEARCH
YG-1 PRODUCTS!!
www.yg1.solutions

INDEXABLE FOCUS 2024

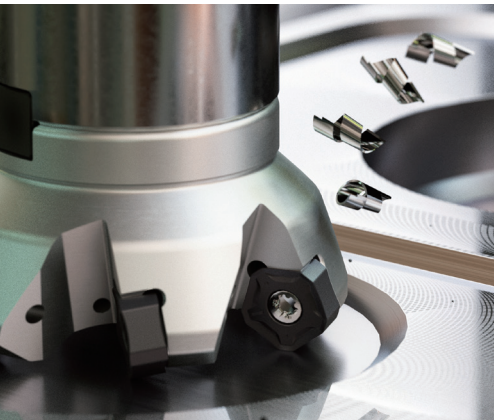
MILLING&DRILLING

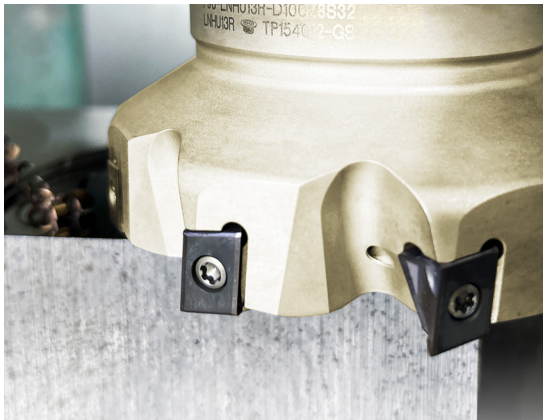














HF4

YG MiLL

High Feed Milling Insert

ENMX

for Narrow to wide and long reach application

Features

- Cutter Diameter range : 16~125mm (.625"~6")
- Double-sided insert with 4 corners
- Wide flank face with reinforced insert shape
- Positive rake angle & Small entering angle



ENMX® General
Carbon Steel
Low Alloy Steel
Alloy Steel



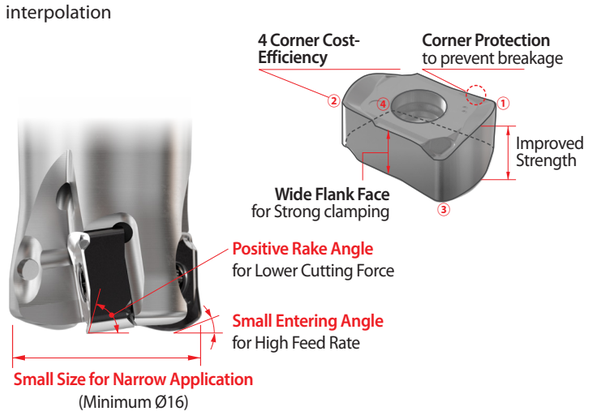
ENMX® -TR
Reinforced Edge
High Alloy Steel
Hardened Steel
Cast Iron



ENMX® -ST
Sharp Geometry
Stainless Steel
Sticky Material
Super Alloy

Key Technology

High feed milling, profiling, face milling, ramping, plunging, helical interpolation





FM10

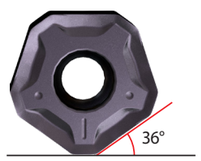
YG MiLL

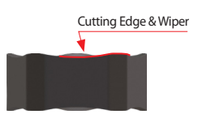
PNMU

10 Cutting Edges Negative Face Milling Insert

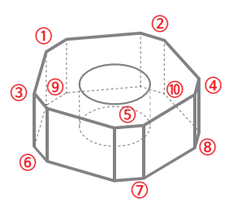
YG-1 has developed an innovative milling product PNMU series.
The PNMU has 10 cutting edges with a 36° entry angle
which can give you higher productivity and stable cutting performance.

Features

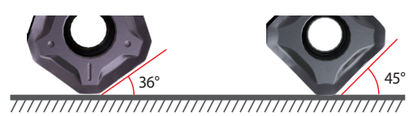




- **Entry Angle 36°**
  - Higher Feed Rate
  - Thinner chip thickness on average
- **Curved Cutting Edge & Wiper**
  - Improved Cutting Force
  - Excellent Surface Finishing
- **10 Cutting edges**
  - Cost-Efficient



Entry Angle Comparison



Entry Angle 36°
- High Feed rate
- Small Depth of Cut
- 10 Corner Insert

Entry Angle 45°
- Low Feed rate
- Big Depth of cut
- 8 Corner Insert



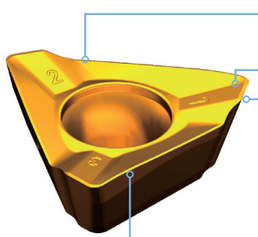
SM3

YG MILL TPKT

True 90 degree Shoulder Milling

- 3 Cutting Edges for Shoulder Milling
- High Positive Helical Cutting edge
- Higher Cost Efficiency than 2 Cutting edges
- Wide selection and Optimal Machining with Various Cutters and Inserts

Features



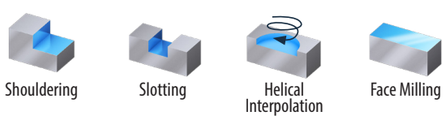
① **High helix cutting edge**
- Smooth cutting and low cutting force

② **High positive rake angle chip breaker**
- Optimized chip curl and minimized burr

③ **Wide wiper edge**
- Excellent surface finish

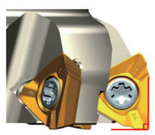
④ **Curved cutting edge**
- Minimized mismatch

Applications



Shouldering | Slotting | Helical Interpolation | Face Milling

Key Technology



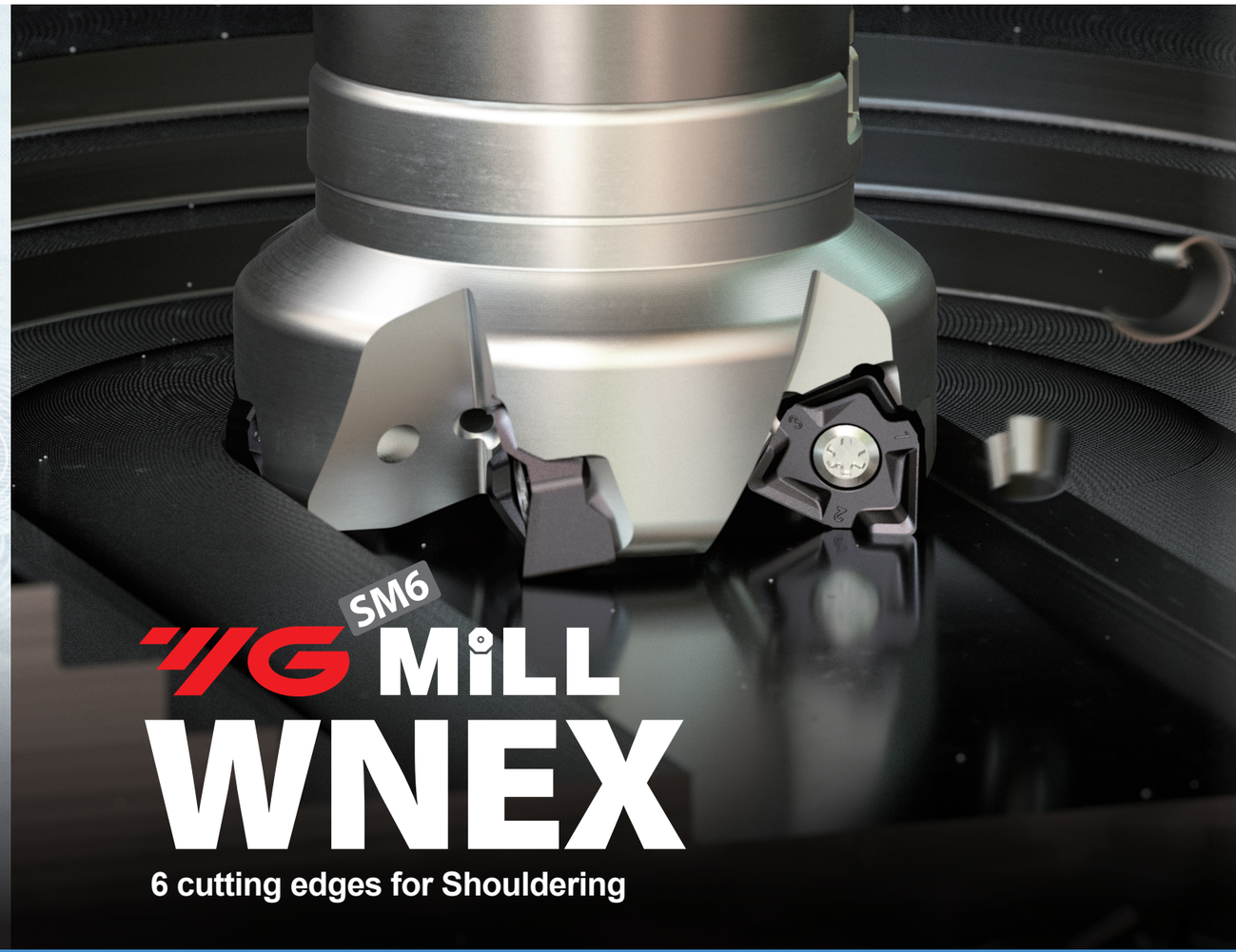
True 90° shoulder milling



Larger core size
- Higher rigidity



Optimal insert placement
- More inserts for high productivity

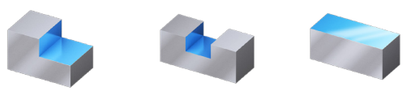


SM6

YG MILL WNEX

6 cutting edges for Shouldering

Applications

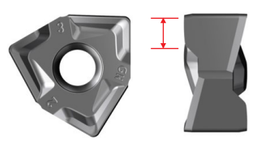


Shouldering | Slotting | Face Milling

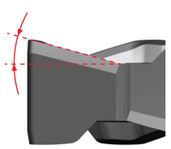
Features

- 6 cutting edges for Shouldering - High Cost-Efficiency
- High Positive Helical Cutting edge
- High Chipping Resistance with Reinforced cutting edge
- Ground Insert – High Precision Tolerance and Excellent Surface finish
- Diameter range : Ø32~ Ø200
- Ap (max) : 7mm

Key Technology



Wider wiper edge length



High Helix cutting edge



Unique Chip groove

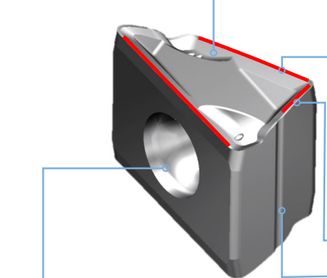


TM4

YG MILL LNKU

4 cutting edges High Productivity Tangential Insert

Key Technology



① **High positive rake face**
- Optimal chip curl & minimized burrs

② **High helix cutting edge**
- Low cutting force and Smooth cutting

Curved cutting edge
- Minimized mismatch

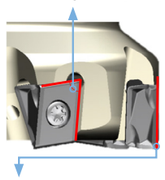
Long length of cutting edge
- Larger depth of cut

③ **Wide wiper flat cutting edge**
- Excellent surface quality

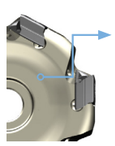
④ **Thicker insert**
- Ultra rigidity

⑤ **Tangential clamping system**
- Rigid clamping and stable machining

Higher clamping stability
with wedge shaped pocket



True 90° shoulder milling



Larger Core Diameter
- Increased rigidity

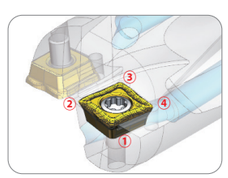


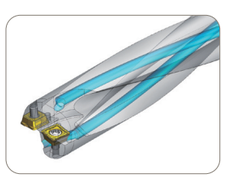
YG X-DRILL SYMX

with highly efficient hole making solution

Features

- Economic square type 4 cutting edge insert
- One kind of insert in outer and inner pocket
- Twisted coolant channel and enlarged chip gullet for better chip evacuation
- Highly durable drill body due to high hardness and optimized material
- New post surface Treatment flute enables to improved chip evacuation in deeper machining

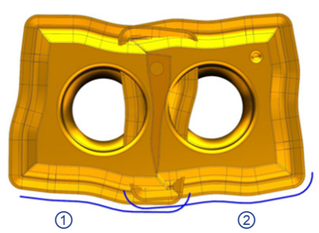






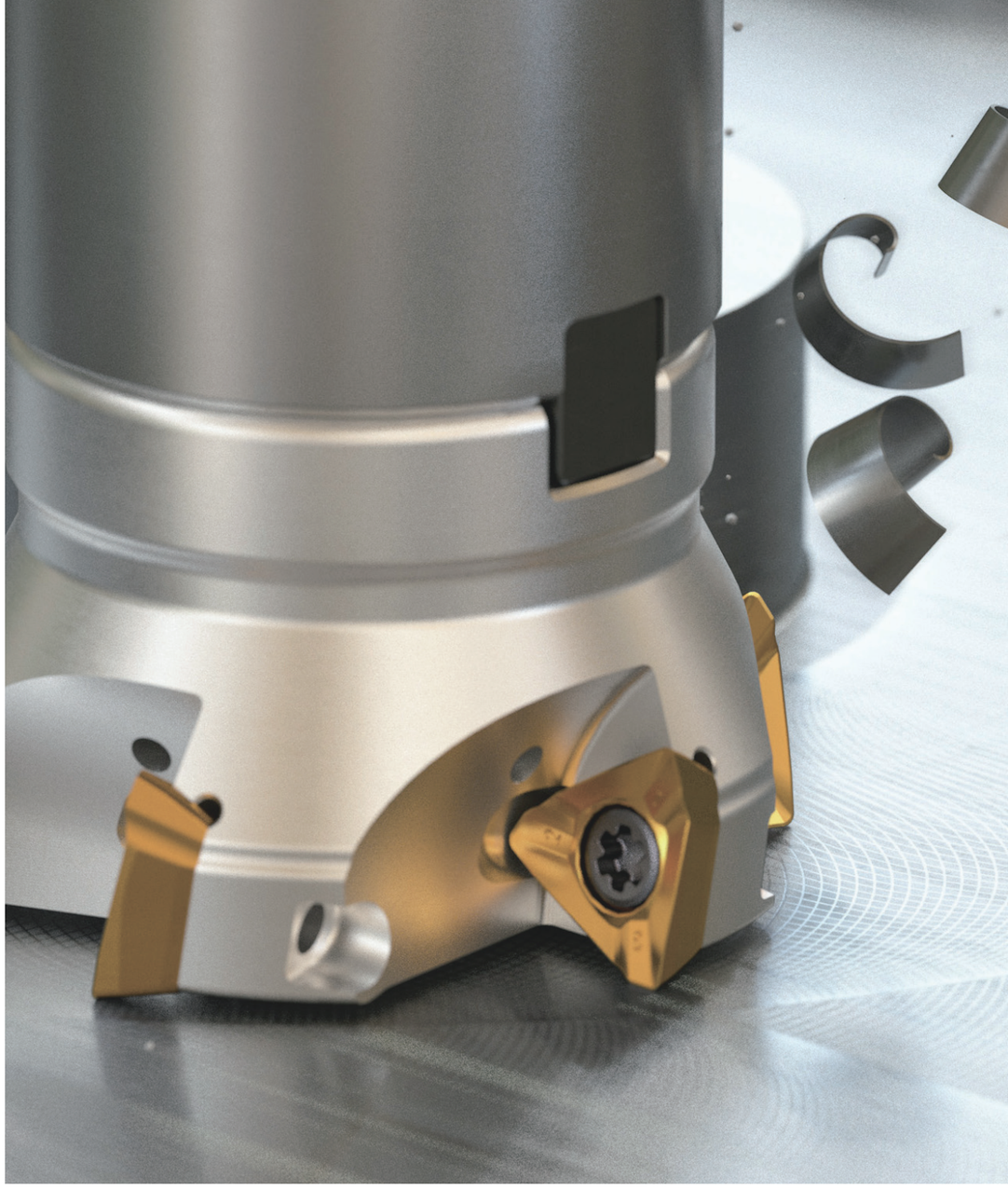
Key Technology

- Unique 1 chip curl per each flute
- True 4 cutting edges are available



INDEX

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		Milling Inserts	**16**
Drilling	**Overview**	Drilling Grades and Chipbreakers	**30**
	Product	Drilling Inserts	**31**
		Drilling Holders	**32**
	Cutting conditions	Recommended cutting conditions	**38**



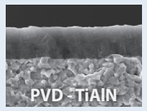
MILLING

Milling Grades and Chipbreakers

Milling Grades

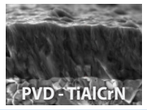
Milling Grades		P Steel					M Stainless steel				K Cast iron				N Non-ferrous				S Super alloys				H Hardened Steel			
		P05	P15	P25	P35	P45	M05	M15	M25	M35	K05	K15	K25	K35	N05	N15	N25	N35	S05	S15	S25	S35	H05	H15	H25	H35
PVD	YG012		012																					012		
	YG712		712																							
	YG713		713																							
	YG612			612					612												612					
	YG613				613				613																	
	YG501										501															
CVD	YG5020										5020															
Uncoated	YG50															50										

YG012
H10 - H30
P10 - P30



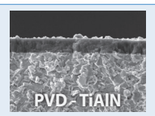
Optimized Milling Grade for Pre-Hardened & Hardened steel
- Applied Extreme Oxidaion PVD layer and Crack-free Substrate
- Excellent Cutting performance for Die & Mold applicaition

YG712
P10 - P30



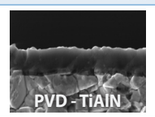
Milling Grade for Medium of Steel Application
- Superior wear resistance and excellent toughness in high speed machining
- Coating layer with high hardness and oxidation resistance

YG713
P15 - P25



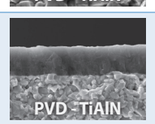
Milling Grade for General Steel Application
- Multi-layer TiAlN structure realizes stronger crater and flank wear resistance
- Fine-grained carbide and balanced substrate

YG612
P20 - P40
M20 - M40
S20 - S40



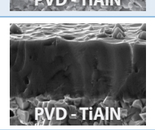
Specialized Multi-Nano Coated Grade with high wear resistance and chipping resistance
- Special Multi-Nano coating prevent crack and providing predictible tool life
- Special universal Grade can acheive stable tool life in any workpiece

YG613
P30 - P50
M30 - M40



Milling Grade for Stainless Steel Application
- New coating layer with lubrication preventing built-up edge on ultra fine grain substrate with high toughness.
- The toughest substrate provides excellent cutting performance in stainless steel

YG501
K05- K25



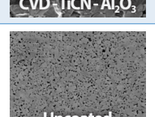
Hard Milling grade for Cast Iron
- Substrate especially designed for high wear resistance
- Excellent wear resistance in cast iron milling application

YG5020
K01-K30



CVD Milling grade for Cast Iron
- CVD coating for Excellent wear resistance
- Improved Toughness for chipping resistance

YG50
N05 – N20



Uncoated Milling Grade for Aluminium
- Submicron carbide substrate for high wear resistance
- Preventing built up edge with shining surface

YGMiLL

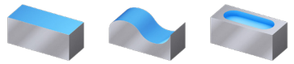
Milling Grades and Chipbreakers

Milling Chipbreakers

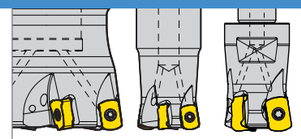
–AL		• For Aluminum • Very Sharp Geometry
–ST		• For Stainless Steel, Super Alloy • Sharp Geometry
-GN (General Type)		• First Choice for General Application
–TR		• For Hardened Steels • Reinforced Geometry
...W / ...N		• For Hardened Material and Cast Irons

Milling Cutters Overview

High Feed Milling



Negative 4 Corner



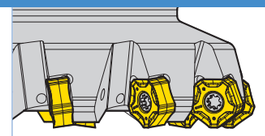


Cutter	ENMX 0604	ENMX 0905
APMX	0.9	1 / 1.5
DCX	Ø16~18	Ø20~50 / Ø25~125
page	14	15

Face Milling



Negative 10 Corner



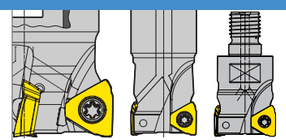


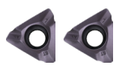
Cutter	PNMU 1206
APMX	4
DC	Ø50~125
page	20

Shoulder Milling



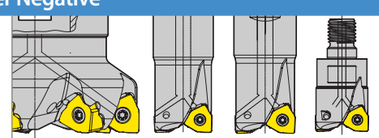
3 Corner Positive





Cutter	TPKT 0703	TPKT 1104	TPKT 1605
APMX	4.5	7.0	11.0
DC	Ø12~40	Ø20~63	Ø32~200
page	22	23	24

6 Corner Negative





Cutter	WNEX 0806
APMX	7
DCX	Ø32~125
page	26

4 Corner Positive





Cutter	LNHU / LNKU 1306
APMX	11
DC	Ø40~160
page	18

Modular Shank

Modular Shank for Modular Head



Cutter	M08 ~ M16
page	28

Milling Inserts Overview

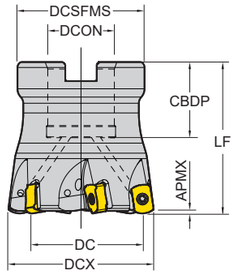
Recommended Cutting Conditions : p.38

E 4 Corner	 Negative	ENMX	ENMX 0604 ENMX 0905	p. 16
L 4 Coner	 Negative	LNHU / LNKU	LNHU / LNKU 1306	p. 19
P 10 Corner	 Negative	PNMU	PNMU 1206	p. 21
T Triangle	 Positive 3 Corner	TPCT	TPCT 0703 TPCT 1104 TPCT 1605	p.25
	 Positive 3 Corner	TPKT	TPKT 0703 TPKT 1104 TPKT 1605	
W Trigon	 Negative 6 Corner	WNEX	WNEX 0806	p. 27

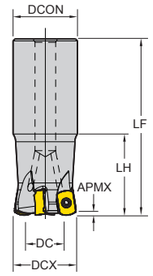
Cutters for ENMX

Entering Angle : 10°
4 Corner Negative

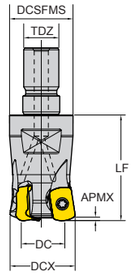
<S> Shellmill



<C> Cylindrical



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

○: p. 16

Unit : mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	Type	DCON /TDZ	LH	CBDP	DCSFMS	
ENMX 0604	0.9	EHF - ENMX06 - D16Z2C16 - L100	0644	9.0	16	2	100	Cylindrical	16	30	-	-	●
		EHF - ENMX06 - D16Z2C16 - L150	0645	9.0	16	2	150		16	50	-	-	●
		EHF - ENMX06 - D17Z2C16 - L100	0674	10.0	17	2	100		16	20	-	-	●
		EHF - ENMX06 - D17Z2C16 - L150	0473	10.0	17	2	150		16	20	-	-	●
	1	EHF - ENMX06 - D20Z3C20 - L130	0463	12.6	20	3	130		20	50	-	-	●
		EHF - ENMX06 - D20Z3C20 - L160	0646	12.6	20	3	160		20	80	-	-	●
		EHF - ENMX06 - D21Z3C20 - L150	0475	13.6	21	3	150		20	20	-	-	●
		EHF - ENMX06 - D21Z3C20 - L200	0476	13.6	21	3	200		20	20	-	-	●
		EHF - ENMX06 - D25Z4C25 - L140	0647	17.6	25	4	140		25	60	-	-	●
		EHF - ENMX06 - D25Z4C25 - L180	0464	17.6	25	4	180		25	80	-	-	●
		EHF - ENMX06 - D25Z4C25 - L250	0648	17.6	25	4	250		25	120	-	-	●
		EHF - ENMX06 - D26Z4C25 - L150	0479	18.6	26	4	150		25	30	-	-	●
		EHF - ENMX06 - D26Z4C25 - L200	0480	18.6	26	4	200		25	30	-	-	●
		EHF - ENMX06 - D32Z5C32 - L150	0649	24.6	32	5	150		32	70	-	-	●
		EHF - ENMX06 - D32Z5C32 - L200	0465	24.6	32	5	200		32	100	-	-	●
	0.9	MHF - ENMX06 - D16Z2M08	0691	9.0	16	2	23	Modular	M08	-	-	13	●
		MHF - ENMX06 - D18Z2M08	0730	11.0	18	2	23		M08	-	-	13	●
	1	MHF - ENMX06 - D20Z3M10	0692	12.6	20	3	30	Modular	M10	-	-	18	●
		MHF - ENMX06 - D25Z4M12	0693	17.6	25	4	35		M12	-	-	21	●
		MHF - ENMX06 - D32Z5M16	0694	24.6	32	5	42		M16	-	-	29	●
		MHF - ENMX06 - D35Z5M16	0695	27.6	35	5	42		M16	-	-	29	●
		MHF - ENMX06 - D40Z6M16	0732	32.6	40	6	42		M16	-	-	29	●
		MHF - ENMX06 - D42Z6M16	0696	34.6	42	6	42		M16	-	-	29	●
	1	FHF - ENMX06 - D40Z6S16	0482	32.6	40	6	40	Shellmill	16	-	18	37	●
		FHF - ENMX06 - D50Z6S22	0471	42.6	50	6	50		22	-	25	42	●

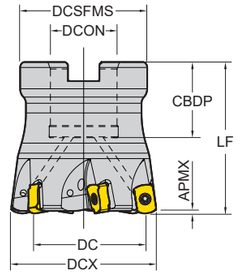
* Clamping Torque (Nm) 1.2Nm

ENMX06	Screw	Wrench	Handle	BIT
Description	TP082507-GS	TPWBTP08	DH-H4	DB-TP08
EDP	18000206	18000218	18000189	18000190

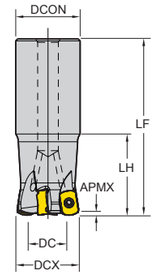
Cutters for ENMX

Entering Angle : 10°
4 Corner Negative

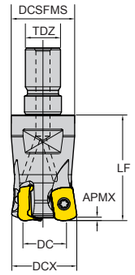
<S> Shellmill



<C> Cylindrical



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

○: p. 16

Unit : mm

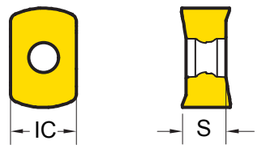
Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	Type	DCON /TDZ	LH	CBDP	DCSFMS	
ENMX 0905	1.5	EHF - ENMX09 - D25Z2C25 - L150	0745	15	25	2	150	Cylindrical	25	70	-	-	●
		EHF - ENMX09 - D26Z2C25 - L200	0746	16	26	2	200		25	30	-	-	●
		EHF - ENMX09 - D26Z3C25 - L200	0747	16	26	3	200		25	30	-	-	●
		EHF - ENMX09 - D32Z3C32 - L160	0748	22	32	3	160		32	70	-	-	●
		EHF - ENMX09 - D33Z3C32 - L200	0749	23	33	3	200		32	30	-	-	●
		EHF - ENMX09 - D33Z4C32 - L200	0750	23	33	4	200		32	40	-	-	●
		EHF - ENMX09 - D40Z5C32 - L180	0751	30	40	5	180		32	40	-	-	●
		FHF - ENMX09 - D50Z3S22	0820	40	50	3	50	Shellmill	22	-	20	42	●
		FHF - ENMX09 - D50Z4S22	0821	40	50	4	50		22	-	20	42	●
		FHF - ENMX09 - D50Z5S22	0752	40	50	5	50		22	-	20	42	●
		FHF - ENMX09 - D63Z4S22	0822	53	63	4	50		22	-	20	48	●
		FHF - ENMX09 - D63Z5S22	0823	53	63	5	50		22	-	20	48	●
		FHF - ENMX09 - D63Z6S22	0753	53	63	6	50		22	-	20	48	●
		FHF - ENMX09 - D63Z7S22	0754	53	63	7	50		22	-	20	48	●
		FHF - ENMX09 - D80Z8S27	0755	70	80	8	50		27	-	23	56	●
		FHF - ENMX09 - D100Z10S32	0824	90	100	10	63		32	-	26	78	●
		FHF - ENMX09 - D125Z12S40	0825	115	125	12	63		40	-	28	89	●

* Clamping Torque (Nm) 2.0Nm

ENMX09	Screw	Wrench	Handle	BIT
Description	TP103509-GS	TPWBTP10	DH-H4	DB-TP10
EDP	18000266	18000280	18000189	18000271

ENMX - High Feed Negative (4 Corners)

Series	IC	S
ENMX 0604	6.3	4.21
ENMX 0905	9.0	5.40



EDP 1200..

●: Stock item ○: Order made item

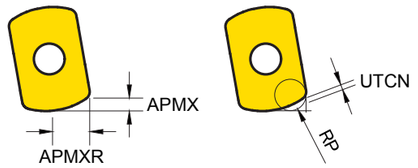
ENMX		Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 / P20 YG012	P15 YG712	P25 YG713	P30 / M30 / S30 YG612	P40 / M40 / S40 YG613	K10 YG5020	K15 YG501
ENMX General		ENMX 0604		0.3 ~ 2.0		● 0734			● 0822	● 0606		
		ENMX 0905		0.3 ~ 2.5		● 0736			● 0824	● 0703		
- ST Stainless Steel		ENMX 0604 - ST		0.1 ~ 0.8					● 0973	● 0625		
		ENMX 0905 - ST		0.2 ~ 1.2					● 0974	● 0706		
- TR Hardened Steel		ENMX 0604 - TR		0.3 ~ 2.5		● 0733	● 0504	○ 0636	● 0823			
		ENMX 0905 - TR		0.3 ~ 3.0		● 0735			● 0825			



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ENMX - High Feed Negative (4 Corners) Technical Information

ENMX 0604



Unit : mm

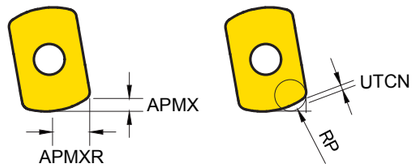
DCX Cutting Diameter Maximum	APMXR Radial AP Max	RP Programmed Corner R	UTCN Uncut Thickness	Overcut
16	3.5	R2.0	0.31	0.00
16~	3.7	R2.5	0.18	0.18
		R3.0	0.07	0.36



DCX External Cutter Diameter	APMX Maximum Depth of Cut	APMXR Maximum Radial Depth of Cut	RMPX Maximum Ramping Angle(°)	RP Programmed Corner Radius	UTCN Uncut Thickness	Diameter Minimum Cutting Diameter	Diameter Maximum Cutting Diameter	Pitch Helical Interpolation Pitch	Ae Enlarge Width
16	0.9	3.5	2.4°	2.0	0.3	22	32	0.9	12.5
17	0.9	3.5	1.9°	2.0	0.3	24	34	0.9	13.5
20	1	3.7	1.8°	2.0	0.31	29	40	1	16.3
21	1	3.7	1.8°	2.0	0.31	31	42	1	17.3
25	1	3.7	1.2°	2.0	0.31	39	50	1	21.3
26	1	3.7	1.2°	2.0	0.31	41	52	1	22.3
32	1	3.7	0.8°	2.0	0.31	53	64	1	28.3
33	1	3.7	0.8°	2.0	0.31	55	66	1	29.3
40	1	3.7	0.6°	2.0	0.31	69	80	1	36.3
50	1	3.7	0.5°	2.0	0.31	89	98	1	46.3
63	1	3.7	0.4°	2.0	0.31	115	126	1	59.3

ENMX 0905

Unit : mm



APMXR Radial AP Max	RP Programmed Corner R	UTCN Uncut Thickness	Overcut
4.7	R2.5	0.56	0
	R3.0	0.40	0.10
	R3.5	0.24	0.25
	R4.0	0.10	0.41
	R4.5	0	0.49

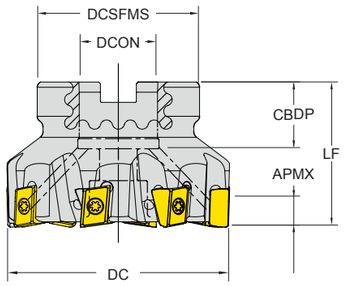


DCX External Cutter Diameter	APMX Maximum Depth of Cut	APMXR Maximum Radial Depth of Cut	RMPX Maximum Ramping Angle(°)	RP Programmed Corner Radius	UTCN Uncut Thickness	Diameter Minimum Cutting Diameter	Diameter Maximum Cutting Diameter	Pitch Helical Interpolation Pitch	Ae Enlarge Width
25	1.5	5	3.8°	2.5	0.56	42	50	1.5	20
26	1.5	5	3.4°	2.5	0.56	44	52	1.5	21
32	1.5	5	2.3°	2.5	0.56	56	64	1.5	27
33	1.5	5	2.2°	2.5	0.56	58	66	1.5	28
40	1.5	5	1.6°	2.5	0.56	72	80	1.5	35
50	1.5	5	1.1°	2.5	0.56	92	100	1.5	45
63	1.5	5	0.8°	2.5	0.56	118	126	1.5	57
80	1.5	5	0.6°	2.5	0.56	152	160	1.5	74

Cutters for LNHU, LNKU

Entry Angle : 90°
4 Corner Negative

<S> Shell Mill



ZEFP : Effective Number of Cutting Edges
CBDP : Connection Bore Depth

: p. 19

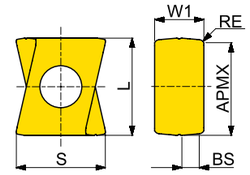
Unit: mm

Series	APMX	Designation	EDP 1700..	DCX	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	
LNHU LNKU 1306	11	F90 - LNHU13R - D40Z4S16	0787	40	4	40	Shellmill	16	-	18	37	●
		F90 - LNHU13R - D40Z5S16	0884	40	5	40		16	-	18	37	●
		F90 - LNHU13R - D50Z5S22	0793	50	5	40		22	-	20	45	●
		F90 - LNHU13R - D50Z6S22	0794	50	6	40		22	-	20	45	●
		F90 - LNHU13R - D63Z6S22	0795	63	6	40		22	-	20	48	●
		F90 - LNHU13R - D63Z8S22	0796	63	8	40		22	-	20	48	●
		F90 - LNHU13R - D80Z10S27	0885	80	10	50		27	-	23	60	●
		F90 - LNHU13R - D80Z5S27	0910	80	5	50		27	-	23	60	●
		F90 - LNHU13R - D80Z7S27	0797	80	7	50		27	-	23	60	●
		F90 - LNHU13R - D80Z8S27	0798	80	8	50		27	-	23	60	●
		F90 - LNHU13R - D100Z13S32	0846	100	13	50		32	-	26	67	●
		F90 - LNHU13R - D100Z6S32	0911	100	6	50		32	-	26	67	●
		F90 - LNHU13R - D100Z8S32	0845	100	8	50		32	-	26	67	●
		F90 - LNHU13R - D100Z9S32	0886	100	9	50		32	-	26	67	●
		F90 - LNHU13R - D125Z11S40	0887	125	11	63		40	-	29	89	●
		F90 - LNHU13R - D125Z16S40	0888	125	16	63		40	-	29	89	●
		F90 - LNHU13R - D160Z13S40	0889	160	13	63		40	-	29	89	●
		F90 - LNHU13R - D160Z18S40	0890	160	18	63		40		29	89	●

* * Clamping Torque (Nm) 3.0Nm

LNKU13	Screw	Wrench	Handle	BIT
Description	TP150412 - GS	TPWBTP15	DH - H6	DB - TP15
EDP	18000225	18000217	18000210	18000208

LNHU, LNKU - Tangential Milling Negative (4 Corners)



Series	W1	L
LN*U 1306	6.7	13.2

EDP 1200..
●: Stock item ○: Order made item

LNHU LNKU		Designation	RE (in)	Fz (in/tooth)	BS (in)	H20 P20 YG012	P15 YG712	P25 YG713	P30 M30 S30 YG612	P40 M40 S40 YG613	K10 YG5020	K15 YG501
LNHU General		LNHU130608R	0.8	0.05~0.30	2.09				● 0723	● 0724	● 0725	
LNKU General		LNKU130608R	0.8	0.05~0.30	2.09				● 0740	● 0741	● 0742	
		LNKU130612R	1.2	0.05~0.3	1.73				● 0764	● 0765	● 0766	

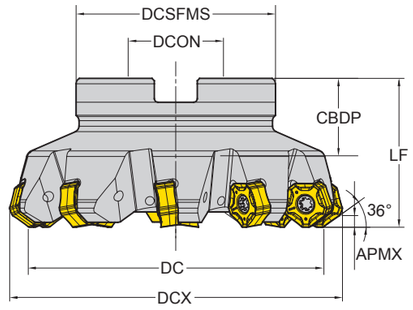


Scan this QR code to see our YG TM4 Mill at work.

Cutters for PNMU

Entering Angle : 36°
10 Corner Negative

<S> Shellmill



CICT : Number of Inserts
CBDP : Connection Bore Depth

○: p. 21

Unit:mm

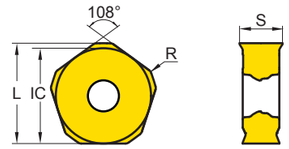
Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
PNMU 1206	4.0	F36 - PNMU12 - D50Z4S22	0774	50	63.6	4	40	Shellmill	22	20	42	-	-	●
		F36 - PNMU12 - D50Z5S22	0785	50	63.6	5	40		22	20	42	-	-	●
		F36 - PNMU12 - D63Z5S22	0775	63	76.6	5	40		22	20	48	-	-	●
		F36 - PNMU12 - D63Z6S22	0483	63	76.6	6	40		22	20	48	-	-	●
		F36 - PNMU12 - D80Z8S27	0466	80	93.6	8	50		27	23	58	-	-	●
		F36 - PNMU12 - D100Z10S32	0467	100	113.6	10	50		32	26	67	-	-	●
		F36 - PNMU12 - D125Z10S40	0786	125	138.6	10	63		40	29	89	-	-	●

* Clamping Torque (Nm) 3.0Nm

PNMU12	Screw	Wrench	Handle	BIT
Description	TP154008	TPWBTP15	DH-H4	DB-TP15
EDP	18000006	18000217	18000189	18000208

PNMU - Face Milling Negative (10 Corners)

Series	KRINS	IC	S
PNMU 1206	36	14.0	5.84



EDP 1200..
●: Stock item ○: Order made item

PNMU	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 M30 S30 YG612	P40 M40 S40 YG613	K10 YG5020	K15 YG501G
PNMU General	PNMU 1206ZNN	0.8	0.05 ~ 0.50	2.10	● 0753	● 0596	○ 0645	● 0826	● 0671	● 0534	● 538
- ST Stainless Steel Super Alloy	PNMU 1206 - ST	0.8	0.05 ~ 0.30	2.10				● 0761	● 0760		

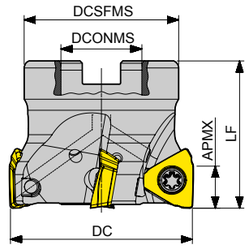


Scan this QR code to see our **YG FM10 Mill** at work.

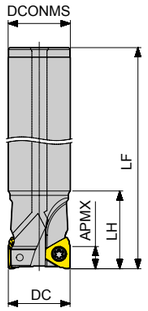
Cutters for TPKT

Entering Angle : 90˚
3 Corner Positive

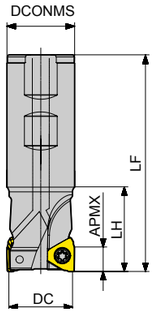
<S> Shellmill



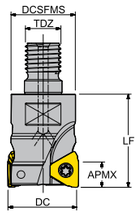
<C> Cylindrical



<W> Weldon



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

○: p. 25

Unit : mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON /TDZ	LH	CBDP	DCSFMS	
TPKT 0703	4.5	E90 - TP07 - D12Z1C12 - L80	1136	12	1	80	Cylindrical	12	20	-	-	●
		E90 - TP07 - D14Z1C12 - L80	1137	14	1	80		12	20	-	-	●
		E90 - TP07 - D16Z2C16 - L110	1138	16	2	110		16	25	-	-	●
		E90 - TP07 - D16Z2C16 - L150	1139	16	2	150		16	25	-	-	●
		E90 - TP07 - D16Z3C16 - L150	1140	16	3	150		16	25	-	-	●
		E90 - TP07 - D17Z2C16 - L150	1192	17	2	150		16	25	-	-	●
		E90 - TP07 - D17Z2C16 - L200	1193	17	2	200		16	25	-	-	●
		E90 - TP07 - D17Z3C16 - L150	1141	17	3	150		16	25	-	-	●
		E90 - TP07 - D18Z3C16 - L150	1142	18	3	150		16	25	-	-	●
		E90 - TP07 - D20Z3C20 - L160	1143	20	3	160		20	25	-	-	●
		E90 - TP07 - D21Z3C20 - L160	1194	21	3	160		20	25	-	-	●
		E90 - TP07 - D25Z5C25 - L115	1146	25	5	115		25	25	-	-	●
		E90 - TP07 - D42Z8C32 - L130	1161	42	8	130		32	30	-	-	●
		E90 - TP07 - D25Z4W20 - L115	1144	25	4	115	Weldon	20	25	-	-	●
		E90 - TP07 - D25Z5W25 - L115	1145	25	5	115		25	25	-	-	●
		E90 - TP07 - D32Z6W25 - L130	1147	32	6	130		25	30	-	-	●
		E90 - TP07 - D40Z8W32 - L130	1148	40	8	130		32	30	-	-	●
		F90 - TP07 - D32Z6S16	1149	32	6	32	Shellmill	16	-	18	30	●
		F90 - TP07 - D35Z7S16	1150	35	7	35		16	-	18	30	●
		F90 - TP07 - D40Z7S16	1151	40	7	40		16	-	18	38	●
		F90 - TP07 - D40Z8S16	1152	40	8	40		16	-	18	38	●
		F90 - TP07 - D40Z8S22	1153	40	8	40		22	-	20	38	●
		F90 - TP07 - D50Z9S22	1162	50	9	40		22	-	20	45	●
		F90 - TP07 - D52Z9S22	1163	52	9	40		22	-	20	45	●
		M90 - TP07 - D16Z2M08	1154	16	2	40	Modular	M08	23	-	13	●
		M90 - TP07 - D20Z3M10	1155	20	3	55		M10	35	-	18	●
		M90 - TP07 - D22Z4M10	1156	22	4	55		M10	35	-	18	●
		M90 - TP07 - D25Z5M12	1157	25	5	57		M12	35	-	21	●
		M90 - TP07 - D32Z6M16	1158	32	6	68		M16	43	-	29	●
		M90 - TP07 - D40Z7M16	1159	40	7	68		M16	43	-	29	●
		M90 - TP07 - D42Z8M16	1160	42	8	68		M16	43	-	29	●

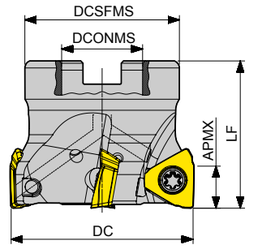
* * Clamping Torque (Nm) 0.6Nm

TPKT07	Screw	Wrench	Handle	BIT
Description	TP062004-GS	TPWBTP06	DH-H4	DB-TP06
EDP	**18000252**	**18000277**	18000189	18000274

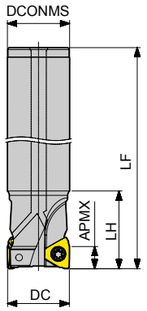
Cutters for TPKT

Entering Angle : 90˚
3 Corner Positive

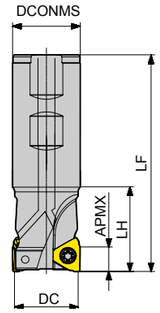
<S> Shellmill



<C> Cylindrical



<W> Weldon



CICT : Number of Inserts
CBDP : Connection Bore Depth

○: p. 25

Unit : mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON /TDZ	LH	CBDP	DCSFMS	
TPKT 1104	7.0	E90 - TP11 - D20Z2C20 - L170	1037	20	2	170	Cylindrical	20	40	-	-	●
		E90 - TP11 - D21Z2C20 - L150	1038	21	2	150		20	40	-	-	●
		E90 - TP11 - D21Z2C20 - L200	1039	21	2	200		20	40	-	-	●
		E90 - TP11 - D25Z3C25 - L200	1026	25	3	200		25	60	-	-	●
		E90 - TP11 - D26Z2C25 - L200	1041	26	2	200		25	40	-	-	●
		E90 - TP11 - D26Z2C25 - L250	1042	26	2	200		25	40	-	-	●
		E90 - TP11 - D26Z3C25 - L150	1043	26	3	150		25	40	-	-	●
		E90 - TP11 - D26Z3C25 - L200	1044	26	3	200		25	40	-	-	●
		E90 - TP11 - D32Z3C32 - L230	1045	32	3	230		32	60	-	-	●
		E90 - TP11 - D33Z3C32 - L200	1047	33	3	200		32	40	-	-	●
		E90 - TP11 - D40Z4C32 - L200	1048	40	4	200		32	60	-	-	●
		E90 - TP11 - D20Z2W20 - L90	0995	20	2	90	Weldon	20	40	-	-	●
		E90 - TP11 - D25Z3W25 - L100	1040	25	3	100		25	40	-	-	●
		E90 - TP11 - D32Z4W32 - L110	1046	32	4	110		32	40	-	-	●
		E90 - TP11 - D40Z5W32 - L115	1049	40	5	115		32	40	-	-	●
		F90 - TP11 - D40Z5S16	1050	40	5	40	Shellmill	16	-	20	38	●
		F90 - TP11 - D50Z6S22	1051	50	6	40		22	-	20	42	●
		F90 - TP11 - D63Z7S22	1052	63	7	40		22	-	20	48	●
		F90 - TP11 - D63Z8S22	1053	63	8	40		22	-	20	48	●

* Clamping Torque (Nm) 1.2Nm

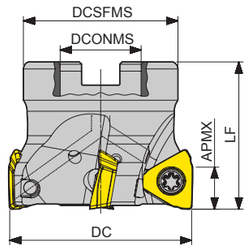
TPKT1104 (D20, D21)	Screw	Wrench	Handle	BIT
Description	TP082562-GS	TPWBTP08	DH-H4	DB-TP08
EDP	**18000265**	**18000218**	18000189	18000190

TPKT1104 (over D25)	Screw	Wrench	Handle	BIT
Description	TP082506-GS	TPWBTP08	DH-H4	DB-TP08
EDP	**18000259**	**18000218**	18000189	18000190

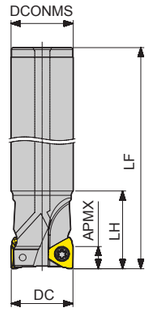
Cutters for TPKT

Entering Angle : 90°
3 Corner Positive

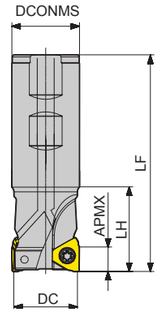
<S> Shellmill



<C> Cylindrical



<W> Weldon



CICT : Number of Inserts
CBDP : Connection Bore Depth

○: p. 25

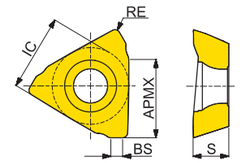
Unit : mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON /TDZ	LH	CBDP	DCSFMS	
TPKT 1605	11.0	E90 - TP16 - D32Z2C32 - L150	0941	32	2	150	Cylindrical	32	40	-	-	●
		E90 - TP16 - D32Z2C32 - L250	0942	32	2	250		32	80	-	-	●
		E90 - TP16 - D33Z2C32 - L200	0929	33	2	200		32	40	-	-	●
		E90 - TP16 - D33Z2C32 - L250	1010	33	2	250		32	40	-	-	●
		E90 - TP16 - D40Z4C32 - L200	0945	40	4	200		32	40	-	-	●
		E90 - TP16 - D40Z3W32 - L110	0944	40	3	110	Weldon	32	40	-	-	●
		F90 - TP16 - D50Z4S22	0931	50	4	40	Shellmill	22	-	29	42	●
		F90 - TP16 - D63Z5S22	0932	63	5	40		22	-	29	48	●
		F90 - TP16 - D63Z6S22	0947	63	6	40		22	-	29	48	●
		F90 - TP16 - D80Z6S27	0948	80	6	50		27	-	39	56	●
		F90 - TP16 - D80Z7S27	0949	80	7	50		27	-	39	56	●
		F90 - TP16 - D100Z8S32	0950	100	8	50		32	-	39	67	●
		F90 - TP16 - D125Z10S40	0951	125	10	63		40	-	52	89	●
		F90 - TP16 - D125Z12S40	0952	125	12	63		40	-	52	89	●
		F90 - TP16 - D160Z11S40	0953	160	11	63		40	-	52	110	X
		F90 - TP16 - D200Z11S60	0955	200	11	63		60	-	52	160	X

* Clamping Torque (Nm) 0.6Nm

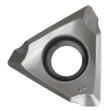
TPKT1605	Screw	Wrench	Handle	BIT
Description	TP062004-GS	TPWBTP06	DH-H4	DB-TP06
EDP	18000252	18000277	18000189	18000274

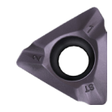
TPCT, TPKT - Shoulder Milling Positive (3 Corner ISO)



Series	KRINS	IC	S
TP** 0703	90	5.51	2.62
TP** 1104	90	7.54	4.28
TP** 1605	90	11.66	5.38

EDP 1200..
●: Stock item ○: Order made item

TPCT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 M30 S30 YG612	P40 M40 S40 YG613	K10 YG5020	N15 YG50
-AL Aluminium 	TPCT 070302R - AL	0.2	0.05~0.22	1.35							● 1008
	TPCT 070304R - AL	0.4	0.05~0.22	1.15							● 1009
	TPCT 070308R - AL	0.8	0.05~0.22	0.75							● 1011
	TPCT 110404R - AL	0.4	0.05~0.25	1.5							● 0894
	TPCT 110408R - AL	0.8	0.05~0.25	1.1							● 0895
	TPCT 160504R - AL	0.4	0.05~0.5	2.4							● 0896
	TPCT 160508R - AL	0.8	0.05~0.5	1.9							● 0897

TPKT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 M30 S30 YG612	P40 M40 S40 YG613	K10 YG5020	K15 YG501
TPKT General 	TPKT 070302R - GN	0.2	0.05~0.2	1.00	● 0987	● 0989		● 0986	● 0988		
	TPKT 070304R - GN	0.4	0.05~0.2	0.90	● 0991	● 0993		● 0990	● 0992	● 0994	● 0995
	TPKT 070308R - GN	0.8	0.05~0.2	0.50	● 0997	● 0999		● 0996	● 0998	● 1000	● 1001
	TPKT 110404R - GN	0.4	0.05~0.24	1.60	● 0802	● 0807		● 0801		● 0808	
	TPKT 110408R - GN	0.8	0.05~0.24	1.15	● 0804	● 0811		● 0803		● 0812	
	TPKT 110416R - GN	1.6	0.05~0.24	0.60	● 0806	● 0815		● 0805		● 0816	
	TPKT 160504R - GN	0.4	0.05~0.29	2.15	● 0888	● 0889		● 0887		● 0890	
	TPKT 160508R - GN	0.8	0.05~0.29	1.79	● 0781	● 0779		● 0718		● 0780	
	TPKT 160516R - GN	1.6	0.05~0.29	1.20	● 0785	● 0786		● 0784		● 0787	
	TPKT 160524R - GN	2.4	0.05~0.29	0.70	● 0789	● 0790		● 0788		● 0791	
-ST Stainless Steel Super Alloy 	TPKT 070302R - ST	0.2	0.05~0.13	1.00				● 1002	● 1003		
	TPKT 070304R - ST	0.4	0.05~0.13	0.90				● 1004	● 1005		
	TPKT 070308R - ST	0.8	0.05~0.13	0.50				● 1006	● 1007		
	TPKT 110404R - ST	0.4	0.05~0.15	1.60				● 0809	● 0810		
	TPKT 110408R - ST	0.8	0.05~0.15	1.15				● 0813	● 0814		
	TPKT 160504R - ST	0.4	0.05~0.15	2.15				● 0891	● 0892		
	TPKT 160508R - ST	0.8	0.05~0.15	1.79				● 0758	● 0759		

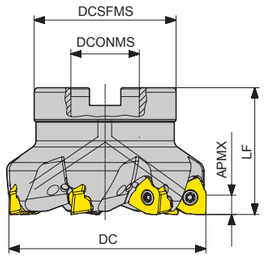


Scan this QR code to see our **YG SM3 Mill** at work.

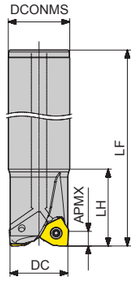
Cutters for WNEX

Entering Angle : 90°
6 Corner Negative

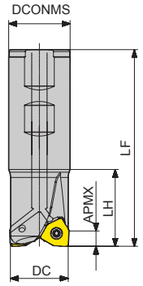
<S> Shellmill



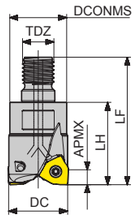
<C> Cylindrical



<W> Weldon



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

○: p. 27

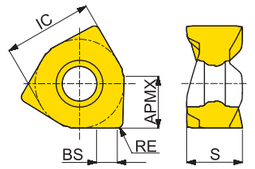
Unit : mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON /TDZ	LH	CBDP	DCSFMS	
WNEX 0806	7.0	E90 - WN08 - D32Z2W32 - L120	0969	32	2	120	Weldon	32	40	-	-	●
		E90 - WN08 - D40Z3W32 - L120	0972	40	3	120		32	40	-	-	●
		E90 - WN08 - D40Z4W32 - L120	0973	40	4	120		32	40	-	-	●
		E90 - WN08 - D50Z4W32 - L120	0974	50	4	120		32	40	-	-	●
		E90 - WN08 - D50Z5W32 - L120	0990	50	5	120		32	40	-	-	●
		E90 - WN08 - D32Z2C32 - L120	0991	32	2	120	Cylindrical	32	40	-	-	●
		E90 - WN08 - D32Z2C32 - L200	0872	32	2	200		32	60	-	-	●
		E90 - WN08 - D33Z2C32 - L200	0873	33	2	200		32	40	-	-	●
		E90 - WN08 - D40Z3C32 - L120	0994	40	3	120		32	40	-	-	●
		E90 - WN08 - D40Z3C32 - L200	0874	40	3	200		32	40	-	-	●
		E90 - WN08 - D40Z4C32 - L120	0996	40	4	120		32	40	-	-	●
		E90 - WN08 - D50Z4C32 - L120	0997	50	4	120		32	40	-	-	●
		E90 - WN08 - D50Z5C32 - L120	0998	50	5	120		32	40	-	-	●
		F90 - WN08 - D50Z4S22	0875	50	4	40	Shellmill	22	-	20	44	●
		F90 - WN08 - D50Z5S22	0976	50	5	40		22	-	20	44	●
		F90 - WN08 - D63Z5S22	0876	63	5	40		22	-	20	48	●
		F90 - WN08 - D63Z6S22	0977	63	6	40		22	-	20	48	●
		F90 - WN08 - D80Z4S27	0999	80	4	50		27	-	20	56	●
		F90 - WN08 - D80Z6S25.4	1000	80	6	50		25.4	-	26.64	56	●
		F90 - WN08 - D80Z7S27	0878	80	7	50		27	-	23	56	●
		F90 - WN08 - D80Z7S25.4	0877	80	7	50		25.4	-	26.64	56	●
		F90 - WN08 - D80Z9S27	0978	80	9	50		27	-	23	56	●
		F90 - WN08 - D100Z8S31.75 - WOC	1002	100	8	50		31.75	-	32	67	X
		F90 - WN08 - D100Z9S32	0979	100	9	50		32	-	26	67	●
		F90 - WN08 - D100Z11S32	0980	100	11	50		32	-	26	67	●
		F90 - WN08 - D125Z10S38.1 - WOC	1003	125	10	63		38.1	-	38	85	X
		F90 - WN08 - D125Z11S40	0981	125	11	63		40	-	29	85	●
		F90 - WN08 - D125Z14S40	0982	125	14	63		40	-	29	85	●
		M90 - WN08 - D32Z2M16	1004	32	2	65	Modular	M16	42	-	29	●
		M90 - WN08 - D40Z3M16	1005	40	3	65		M16	42	-	29	●
		M90 - WN08 - D40Z4M16	0984	40	4	65		M16	42	-	29	●

* Clamping Torque (Nm) 3.0Nm

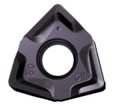
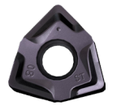
WNEX0806	Screw	Wrench	Handle	BIT
Description	TP154011-GS	TPWBTP15	DH-H4	DB-TP15
EDP	18000251	18000217	18000189	18000208

WNEX - Shoulder Milling Negative (6 Corners)

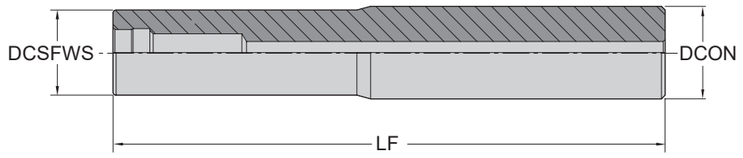


Series	IC	S
WNE* 0806	12.9	6.25

EDP 1200..
●: Stock item ○: Order made item

WNEX		Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20	P15	P25	P30 M30 S30	P40 M40 S40	K10	K15
						YG012	YG712	YG713	YG612	YG613	YG5020	YG501
WNEX General		WNEX 080604R - GN	0.4	0.05 ~ 0.26	3.2	● 0856	● 0857		● 0855		● 0858	
		WNEX 080608R - GN	0.8	0.05 ~ 0.26	2.8	● 0859	● 0792		● 0854	● 0793	● 0794	● 0795
		WNEX 080612R - GN	1.2	0.05 ~ 0.26	2.4	● 0877	● 0878		● 0885		● 0879	
		WNEX 080616R - GN	1.6	0.05 ~ 0.26	2.0	● 0861	● 0862		● 0860		● 0863	
		WNEX 080620R - GN	2.0	0.05 ~ 0.26	1.6	● 0882	● 0883		● 0886		● 0884	
-ST Stainless Steel Super Alloy		WNEX 080604R - ST	0.4	0.05 ~ 0.19	3.6				● 0864	● 0865		
		WNEX 080608R - ST	0.8	0.05 ~ 0.19	3.3				● 0866	● 0867		
		WNEX 080612R - ST	1.2	0.05 ~ 0.19	2.8				● 0875	● 0876		
		WNEX 080616R - ST	1.6	0.05 ~ 0.19	2.4				● 0868	● 0869		
		WNEX 080620R - ST	2.0	0.05 ~ 0.19	2.0				● 0880	● 0881		

Modular Shanks



Unit : mm

Series	Designation	EDP 1700..	DCSFWS	LF	TYPE	DCON	
M08	EM - M08 - D13C16 - L100	0634	13	100	Cylindrical	16	●
	EM - M08 - D15C16 - L130	0635	15	130		16	●
M10	EM - M10 - D18C20 - L130	0636	18	130	Cylindrical	20	●
M12	EM - M12 - D23C25 - L150	0637	23	150	Cylindrical	25	●
	EM - M12 - D23C25 - L200	0638	23	200		25	●
	EM - M12 - D23C25 - L250	0639	23	250		25	●
M16	EM - M16 - D30C32 - L150	0640	30	150	Cylindrical	32	●
	EM - M16 - D30C32 - L200	0641	30	200		32	●
	EM - M16 - D30C32 - L250	0642	30	250		32	●
	EM - M16 - D30C32 - L300	0643	30	300		32	●

Mounting Bolt

DCON	Description	EDP
Φ16	YHBM08-L20	18000224
Φ16 HF	YHBM08-L25	18000238
Φ22	YHBM10-L25	18000239
Φ22 HF	YHBM10-L30	18000240
Φ25.4 (Metric O.D)	YHBM12-L30	18000241
Φ27	YHBM12-L30	18000241
Φ31.75 (Metric O.D)	YMBM16-L42	18000242
Φ32	YMBM16-L42	18000242
Φ32 HF	YMBM16-L50	18000258
Φ38.1 (Metric O.D)	YMBM20-L54	18000243
Φ40	YMBM20-L54	18000243
Φ0.5" (Φ12.7)	YHBU250-L25.4	18000244
Φ0.75" (Φ19.05)	YHBU375-L25.4	18000245
Φ0.75" (Φ19.05) HF	YHBU375-L31.75	18000246
Φ1.0" (Φ25.4)	YHBU500-L38.1	18000247
Φ1.25" (Φ31.75)	YMBU625-L52	18000248
Φ1.5" (Φ38.1)	YMBU750-L60	18000249
Φ2.0" (Φ50.8)	YMBU1000-L70	18000250



DRILLING

Drilling Overview

Recommended Cutting Conditions : p.38

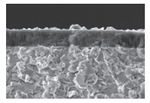
Drilling Grades

Drilling Grades		P Steel					M Stainless steel					K Cast iron				
		P05	P15	P25	P35	P45	M05	M15	M25	M35	M45	K05	K15	K25	K35	K45
PVD	YG713		713					713					713			
	YG602			602					602					602		
	YG613				613					613						

YG713

P15 - P30 M15 - M30 K15 - K30 H20 - H30

PVD - TiAlN



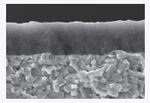
Drilling Grade for General Steel Application

- Multi-layer TiAlN structure realizes stronger crater and flank wear resistance
- Fine-grained carbide and balanced substrate

YG602

P20 - P35 M20 - M40 K20 - K40 S15 - S25

PVD - TiAlN



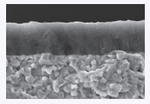
Universal grade for General Drilling Application

- Ultra Dense PVD Coating with optimal thermal resistance & strength
- Sub-Micron substrate designed for demanding application

YG613

P30 - P50 M30 - M50

PVD - TiAlN



Drilling Grade for Stainless Steel Application

- New coating layer with lubrication preventing built-up edge on ultra fine grain substrate with high toughness.
- The toughest substrate provides excellent cutting performance in stainless steel

Universal Drilling Inserts

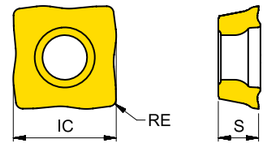
	**4 Corner**	SYMX Series	**SYMX**	05, 06, 07, 08

Drilling Chipbreakers

P	M	K			
P	M	K	**General Inserts (No Description)**		• First Choice for General Application

Drilling - Inserts

X-Drill Inserts (SYMX)



Series	IC	S
SYMX 0502	4.97	2.35
SYMX 0602	5.99	2.35
SYMX 07T2	7.01	2.80
SYMX 0803	8.30	3.20

EDP 3200..

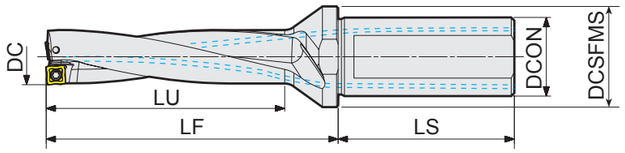
SYMX		Designation	RE (mm)	Fn (mm/rev.)	P25 M25 K30 YG602	P20 M20 K20 YG713	P40 M40 YG613
SYMX General		SYMX 050204	0.4	0.06 ~ 0.12		● 0097	● 0098
		SYMX 060204	0.4	0.06 ~ 0.12		● 0093	● 0095
		SYMX 07T206	0.6	0.06 ~ 0.12		● 0099	● 0100
		SYMX 080306	0.6	0.08 ~ 0.20		● 0101	● 0102

● : Stock item ○ : Order made item



Scan this QR code to see our **X-Drill** at work.

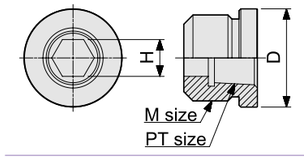
X-Drill Holder (SYMX05) (DC 14~16)



: p.31 Unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SYMX 050204	14	28	YGSY2 - 140S20 - 05	1019	46	96.0	20	25	50
		42	YGSY3 - 140S20 - 05	1031	60	110.0			
		56	YGSY4 - 140S20 - 05	1043	74	124.0			
		70	YGSY5 - 140S20 - 05	1055	88	138 .0			
	14.5	29	YGSY2-145S20-05	1134	49	99.0			
		43.5	YGSY3-145S20-05	1149	64	114.0			
		58	YGSY4-145S20-05	1164	79	129.0			
		72.5	YGSY5-145S20-05	1179	94	144			
	15	30	YGSY2 - 150S20 - 05	1020	49	99.0			
		45	YGSY3 - 150S20 - 05	1032	64	114.0			
		60	YGSY4 - 150S20 - 05	1044	79	129.0			
		75	YGSY5 - 150S20 - 05	1056	94	144.0			
	15.5	31	YGSY2-155S20-05	1135	52	102.0			
		46.5	YGSY3-155S20-05	1150	68	118.0			
		62	YGSY4-155S20-05	1165	84	134.0			
		77.5	YGSY5-155S20-05	1180	100	150			
	16	32	YGSY2 - 160S25 - 05	1021	52	102.0			
		48	YGSY3 - 160S20 - 05	1033	68	118.0			
		64	YGSY4 - 160S20 - 05	1045	84	134.0			
		80	YGSY5 - 160S20 - 05	1057	100	150.0			
	16.5	33	YGSY2-165S20-05	1136	54	104			
		49.5	YGSY3-165S20-05	1151	71	121			
		66	YGSY4-165S20-05	1166	88	138			
		82.5	YGSY5-165S20-05	1181	105	155			

PLUG (DCON20)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M12-1/8	38000001	20	14	M12x1.0	PT 1/8	6

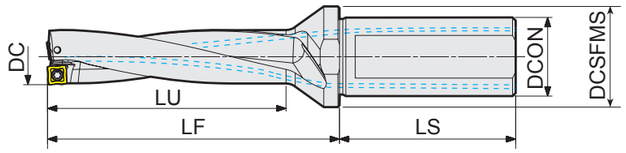
* Plug for turning lathe should be ordered separately.

* Clamping Torque (Nm) 0.6Nm

SYMX05	Screw	Wrench
Description	TP062004-GS	TPWFTP06
EDP	18000252	18000262

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

X-Drill Holder (SYMX06) (DC 17~20)

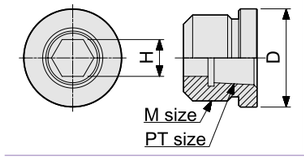


: p.31 Unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SYMX 060204	17	34	YGSY2 - 170S25 - 06	0851	54	110.0	25	32	56
		51	YGSY3 - 170S25 - 06	0855	71	127.0			
		68	YGSY4 - 170S25 - 06	0859	88	144.0			
		85	YGSY5 - 170S25 - 06	0863	105	161.0			
	17.5	35	YGSY2-175S25-06	1137	57	113.0			
		52.5	YGSY3-175S25-06	1152	75	131.0			
		70	YGSY4-175S25-06	1167	93	149.0			
		87.5	YGSY5-175S25-06	1182	111	167.0			
	18	36	YGSY2 - 180S25 - 06	0852	57	113.0			
		54	YGSY3 - 180S25 - 06	0856	75	131.0			
		72	YGSY4 - 180S25 - 06	0860	93	149.0			
		90	YGSY5 - 180S25 - 06	0864	111	167.0			
	18.5	37	YGSY2-185S25-06	1138	59	115.0			
		55.5	YGSY3-185S25-06	1153	78	134.0			
		74	YGSY4-185S25-06	1168	97	153.0			
		92.5	YGSY5-185S25-06	1183	116	172.0			

▶ NEXT PAGE

PLUG (DCON25)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M14-1/8	38000002	25	16	M14x1.0	PT 1/8	6

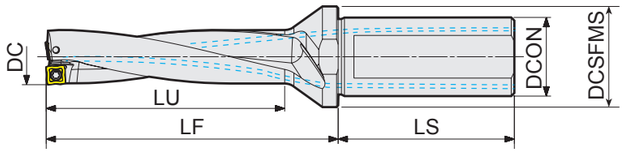
* Plug for turning lathe should be ordered separately.

* Clamping Torque (Nm) 0.7Nm

SYMX06	Screw	Wrench
Description	TP072205-GS	TPWFTP07
EDP	18000253	18000001

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

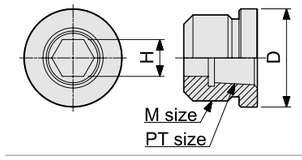
X-Drill Holder (SYMX06) (DC 17~20)



: p.31 Unit: mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SYMX 060204	19	38	YGSY2 - 190S25 - 06	0853	59	115.0	25	32	56
		57	YGSY3 - 190S25 - 06	0857	78	134.0			
		76	YGSY4 - 190S25 - 06	0861	97	153.0			
		95	YGSY5 - 190S25 - 06	0865	116	172.0			
	19.5	39	YGSY2-195S25-06	1139	63	119.0			
		58.5	YGSY3-195S25-06	1154	83	139.0			
		78	YGSY4-195S25-06	1169	103	159.0			
		97.5	YGSY5-195S25-06	1184	123	179.0			
	20	40	YGSY2 - 200S25 - 06	0854	63	119.0			
		60	YGSY3 - 200S25 - 06	0858	83	139.0			
		80	YGSY4 - 200S25 - 06	0862	103	159.0			
		100	YGSY5 - 200S25 - 06	0866	123	179.0			
	20.5	41	YGSY2-205S25-06	1140	65	121			
		61.5	YGSY3-205S25-06	1155	86	142			
		82	YGSY4-205S25-06	1170	107	163			
		102.5	YGSY5-205S25-06	1185	128	184			

PLUG (DCON25)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M14-1/8	38000002	25	16	M14x1.0	PT 1/8	6

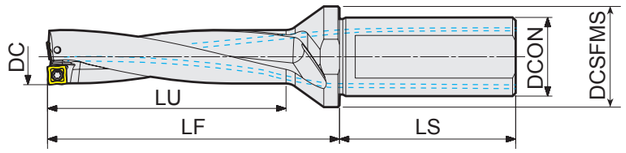
* Plug for turning lathe should be ordered separately.

* Clamping Torque (Nm) 0.7Nm

SYMX06	Screw	Wrench
Description	TP072205-GS	TPWFTP07
EDP	18000253	18000001

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

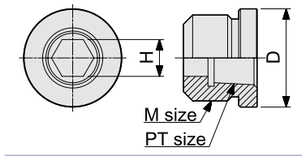
X-Drill Holder (SYMX07) (DC 21~23)



: p.31 Unit: mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SYMX 07T206	21	42	YGSY2 - 210S25 - 07	1022	65	121.0	25	32	56
		63	YGSY3 - 210S25 - 07	1034	86	142.0			
		84	YGSY4 - 210S25 - 07	1046	107	163.0			
		105	YGSY5 - 210S25 - 07	1058	128	184.0			
	21.5	43	YGSY2-215S25-07	1141	67	123.0			
		64.5	YGSY3-215S25-07	1156	89	145.0			
		86	YGSY4-215S25-07	1171	111	167.0			
		107.5	YGSY5-215S25-07	1186	133	189.0			
	22	44	YGSY2 - 220S25 - 07	1023	67	123.0			
		66	YGSY3 - 220S25 - 07	1035	89	145.0			
		88	YGSY4 - 220S25 - 07	1047	111	167.0			
		110	YGSY5 - 220S25 - 07	1059	133	189.0			
	22.5	45	YGSY2-225S25-07	1142	68	124.0			
		67.5	YGSY3-225S25-07	1157	91	147.0			
		90	YGSY4-225S25-07	1172	114	170.0			
		112.5	YGSY5-225S25-07	1187	137	193.0			
	23	46	YGSY2 - 230S25 - 07	1024	68	124.0			
		69	YGSY3 - 230S25 - 07	1036	91	147.0			
		92	YGSY4 - 230S25 - 07	1048	114	170.0			
		115	YGSY5 - 230S25 - 07	1060	137	193.0			
	23.5	47	YGSY2-235S25-07	1143	70	126			
		70.5	YGSY3-235S25-07	1158	94	150			
		94	YGSY4-235S25-07	1173	118	174			
		117.5	YGSY5-235S25-07	1188	142	198			

PLUG (DCON25)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M14-1/8	38000002	25	16	M14x1.0	PT 1/8	6

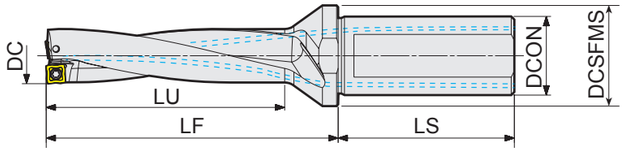
* Plug for turning lathe should be ordered separately.

* Clamping Torque (Nm) 0.7Nm

SYMX07	Screw	Wrench
Description	TP072205-GS	TPWFTP07
EDP	18000253	18000001

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

X-Drill Holder (SYMX08) (DC 24~28)

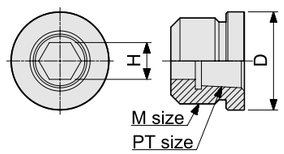


: p.31 Unit: mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SYMX 080306	24	48	YGSY2 - 240S32 - 08	1025	70	130.0	32	40	60
		72	YGSY3 - 240S32 - 08	1037	94	154.0			
		96	YGSY4 - 240S32 - 08	1049	118	178.0			
		120	YGSY5 - 240S32 - 08	1061	142	202.0			
	24.5	49	YGSY2-245S32-08	1144	72	132.0			
		73.5	YGSY3-245S32-08	1159	97	157.0			
		98	YGSY4-245S32-08	1174	122	182.0			
		122.5	YGSY5-245S32-08	1189	147	207.0			
	25	50	YGSY2 - 250S32 - 08	1026	72	132.0			
		75	YGSY3 - 250S32 - 08	1038	97	157.0			
		100	YGSY4 - 250S32 - 08	1050	122	182.0			
		125	YGSY5 - 250S32 - 08	1062	147	207.0			
	25.5	55	YGSY2-255S32-08	1145	73	133.0			
		76.5	YGSY3-255S32-08	1160	99	159.0			
		102	YGSY4-255S32-08	1175	125	185.0			
		127.5	YGSY5-255S32-08	1190	151	211.0			

▶ NEXT PAGE

PLUG (DCON32)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M22-1/4	38000003	32	24	M22x1.25	PT 1/4	10

* Plug for turning lathe should be ordered separately.

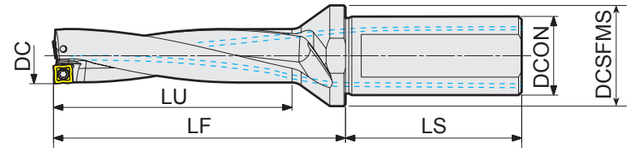
* Clamping Torque (Nm) 1.2Nm

SYMX08	Screw	Wrench
Description	TP072506-GS	TPWFTP07
EDP	18000261	18000001

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

Drilling - Drill Holder

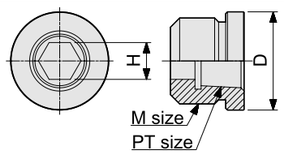
X-Drill Holder (SYMX08) (DC 24~28)



: p.31 Unit: mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SYMX 080306	26.5	53	YGSY2-265S32-08	1146	77	137.0	32	40	60
		79.5	YGSY3-265S32-08	1161	104	164.0			
		106	YGSY4-265S32-08	1176	131	191.0			
		132.5	YGSY5-265S32-08	1191	158	218.0			
	27	54	YGSY2 - 270S32 - 08	1028	77	137.0			
		81	YGSY3 - 270S32 - 08	1040	104	164.0			
		108	YGSY4 - 270S32 - 08	1052	131	191.0			
		135	YGSY5 - 270S32 - 08	1064	158	218.0			
	27.5	55	YGSY2-275S32-08	1147	79	139.0			
		82.5	YGSY3-275S32-08	1162	107	167.0			
		110	YGSY4-275S32-08	1177	135	195.0			
		137.5	YGSY5-275S32-08	1192	163	223.0			
	28	56	YGSY2 - 280S32 - 08	1029	79	139.0			
		84	YGSY3 - 280S32 - 08	1041	107	167.0			
		112	YGSY4 - 280S32 - 08	1053	135	195.0			
		140	YGSY5 - 280S32 - 08	1065	163	223.0			
	28.5	57	YGSY2-285S32-08	1148	81	141			
		85.5	YGSY3-285S32-08	1163	110	170			
		114	YGSY4-285S32-08	1178	139	199			
		142.5	YGSY5-285S32-08	1193	168	228			

PLUG (DCON32)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M22-1/4	38000003	32	24	M22x1.25	PT 1/4	10

* Plug for turning lathe should be ordered separately.

* Clamping Torque (Nm) 1.2Nm

SYMX08	Screw	Wrench
Description	TP072506-GS	TPWFTP07
EDP	18000261	18000001

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

Technical Information

Recommended cutting conditions

Milling

Cutting Speed																						
ISO	VDI	Sub Group	YG012		YG712		YG713		YG622		YG612		YG602		YG613		YG501(G)		YG5020		YG50	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	180	280	170	300	200	300	140	400	180	280	180	270	100	210	-	-	-	-	-	-
	6~9	Low-Alloyed Steel	150	250	180	250	170	270	120	320	150	250	150	240	70	180	-	-	-	-	-	-
	10~11	High-Alloyed Steel	80	150	100	140	85	145	70	170	70	140	70	130	40	90	-	-	-	-	-	-
M	12~13	Ferritic & Martensitic			-	-	-	-	-	-	120	200	120	180	70	180	-	-	-	-	-	-
	14	Austenitic Stainless Steel			-	-	-	-	-	-	130	250	30	230	70	200	-	-	-	-	-	-
K	15~16	Grey Cast Iron			-	-	-	-	120	270			120	250	-	-	160	300	200	350	-	-
	17~18	Nodular Cast Iron			-	-	-	-	130	240			120	220	-	-	130	210	150	300	-	-
N	21~30	Non-Ferrous Metals (Al)			-	-	-	-	-	-			-	-	-	-	-	-	-	-	300	800
S	31~37	Superalloys & Titanium			-	-	-	-	-	-	25	45	5	45	-	-	-	-	-	-	-	-
H	38~41	Hard Materials	70	120	-	-	-	-	40	100					-	-			-	-	-	-

Drilling

Cutting Speed			Vc (m/min.)					
ISO	VDI	Sub Group	YG602		YG713		YG613	
			Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	180	380	200	300	100	210
	6~9	Low-Alloyed Steel	120	300	170	270	70	180
	10~11	High-Alloyed Steel	70	150	85	145	40	90
M	12~13	Ferritic & Martensitic	120	200	-	-	70	180
	14	Austenitic Stainless Steel	130	250	-	-	70	200
K	15~16	Grey Cast Iron	120	250	-	-	-	-
	17~18	Nodular Cast Iron	130	220	-	-	-	-
H	38~41	Hard Materials	-	-	-	-	-	-

HIGH QUALITY PRODUCTS and ON TIME DELIVERY for WORLD-WIDE CUSTOMERS

Since 1982, YG-1 has been committed to quality, innovation and the unique customer experience.
Our performance and experience have granted YG-1 the global impression of one of the leading manufacturers of high quality cutting tool solutions. This global footprint expands over 75 countries, with international logistic centers, pledging to our customers to give the best service available today - and tomorrow.

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