

BESTOF SELECTION HIGH PERFORMANCE PRODUCTS 2023-2024



***/G** YG-1 CO., LTD.

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BEST OF SELECTION HIGH PERFORMANCE PRODUCTS











MILLING



YG DRILL













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TOOLING SYSTEM

 HYDRAULIC CHUCK • SHRINK FIT HOLDER

• TITANOX-POWER

• ALU-POWER HPC

THREADING TOOLS

• DREAM DRILLS - FLAT BOTTOM • DREAM DRILLS - HIGH FEED

• PARTING & GROOVE



Scan this QR code **7GTURN** Grades to see our **Turning Grades** YG3010 First choice for Finishing Steel Hard **Balanced Productivity** YG3015 for Continuous cut Cutting Speed Ρ First choice garde for YG3115 high cutting speed in Steels YG3010 YG3115 Stee YG3015 for General Steel Application First Choice Grade YT100 C Tough 0 YG3030 Interrupted Cutting of Steel P EOS **YT100** First choice for Finishing Steel Stee High wear resistance Grade 0 G211 Hard for Stainless steel Cutting Speed CVD Grade for Interrupted Cutting M **G202**5 YG211 of Stainless steel Stainless Steel First Choice Grade

YG213

YG3020

YG801

YG2025

YG213

YG3030

Feed

Feed

Tough YG214 0 G214 Heavy Interrupted cut for Stainless steel Feed Cutting Speed YG401 E PVD Turning Grade 0 ISO S10-S20 **YG401** for Heat-resistant Super alloy Supe Alloy YG214 Feed Cutting Speed YG1010 First Choice for Cast Iron ISO K05-K15 YG1010 K YG1001 Cast Iron YG3010 ISO K15-K35 YG3010 First choice for Ductile Cast Iron 0 Feed Cutting Speed First Choice Grade for Aluminum **YG100** DLC with DLC Coating YG100 YG10 Meta () Uncoated **YG10** Uncoated Grade for General Aluminum

on Low Cutting Speed of Stainless steel



Chip breakers for heavy Turning NEW UH Medium heavy -UT Heavy roughing

Chip breakers for Cast iron



Cast Iron heavy Roughing (Big K-land)

Heavy Roughing (Flat type)

Medium Roughing

Heavy Interrupted Cut

Roughing and

Cast Iron

INDEXABLE TOOLS

Chip breakers for Stainless steel



Chip breakers for Superalloys



Chip breakers for Non-ferrous Metals

-AL



from Roughing to Finishing





7GMill





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YG602 K20 - K40 S15 - S25 Universal grade for General Milling Application

M20 - M40



YG012 P10-P30 H10-H30 **Optimized Milling Grade for Pre-Hardened &** Hardened steel



YG712 P10-P30 Milling Grade for Medium of Steel Application



YG612 P20-P40 M20-M40 S20-S40 Specialized Multi-Nano Coated Grade with high wear resistance and chipping resistance



Hard Milling grade for Cast Iron

YG613 P30-P50 M30-M40

Milling Grade for Stainless Steel Application



YG50 N05 - N20 Uncoated Milling Grade for Aluminium

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



INDEXABLE TOOLS









GTURN Parting & Groove

		0				URN-GROOVE
ų	YG602	P20 - P Univer • TiAIN P	35 M20 - M40 K20 - K40 sal grade for Parting & C VD Coating for General Applic	S15 - S25 Groove Turn atiion	YG603	M30 - M50 PVD Parting & Grooving Grade for Stainless Steel • First Choice for stainless steel
	YG602G	P20 - P Univer • TiAIN /	M20 - M40 K20 - K40 sal grade for Parting & C TiN PVD Coating with Good w	S15 - S25 Groove Turn ear resistance		
	Parting	-P		₿ {	For Exte For med	rnal Parting off & Grooving lium feed rate
	& Grooving	-N		0 <u>.08</u>	For Exter For low 1	rnal Parting off & Grooving feed rate
		-Y	9000	€ ^{6°}	For Exter For med	rnal Turning & Grooving ium feed rate
	Turning & Grooving	GL		(18,	For Exter Face gro For low f	rnal, Internal turning and grooving oving and Face turning feed rate
		GM		(14°	For Exter Face gro For med	rnal, Internal turning and grooving oving and Face turning lium feed rate
		RG		(15)	 For Exter Face gro Full radii 	rnal, Internal turning and grooving oving and Face turning us Insert for profiling
*	e wiath : 2, 3, 4 h	nm				

Optimized Drilling Insert Grade for Various Kinds of Material





YG713 P15 - P25

Drilling Grade for General Steel Application



YG613 P30-P50 M30-M50 Drilling Grade for Stainless Steel Application

SPMX Series

WCMX Series

Popular 3 corner drill insert WCMX 03/04/05/06/08 Diameter Ø 16mm ~ Ø 60mm Economic 4 corner drill insert SPMX 05/06/07/09/11/14 Diameter Ø 13mm ~ Ø 50mm





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
- · Polished flute enables to improved chip
- evacuation in deeper machining

Key Technology

- Only 1 Chip formation per flute
- Full usage of all 4 corners

SYMX Series

Diameter Ø 14mm ~ Ø28mm



75NanoCut







Features

Advantages

 High Repeatability Longer Tool Life



NANOCUT INSERT SERIES

BP - Boring & Profiling



PR-Profiling



F - Face Grooving Internal





TH - Threading















INDEXABLE TOOLS





Scan this QR code to see our Nanocut at work

Solid Miniature Turning for small bore applications

Application

• Turning of Small Bore Components • Internal Turning(Boring), Grooving and Threading

• Minimum Diameter(Boring & Profiling series): Ø 1 mm (.039") Internal Coolant for Longer Tool life and Enhanced Chip Evacuation Secure Connection Design: Pin + Slant Positioning • 9 Geometries for Various Applications

Benefits

- Reduced Machine Down Time
- Lower Machining Cost

YG812 - Micro Grain Carbide Grade

10-P20 M20-M30 Submicron Grade Carbide Substrate Material for high 20-K30 S10-S25 toughness and wear resistance realizes high precision machining

BO - Boring with Chipbreaker



GS - Grooving Square



FE - Face Grooving External



BF - 90°Boring (3)

GR-Grooving Round



CH - Chamfering





DREAM DRILLS - PRO





FASTER CUTTING SPEED (HRc30 to HRc50)

Extremely high hardness and heat resistance due to YG-1 special Z-Coating technology



FEATURES & BENEFITS

- Drilling for Carbon Steels, Alloy Steels (HB225-325), Pre-hardened Steels (HRc30~50), Cast Iron
- Wave shape cutting edge to improve chip formation for low cutting force
- · Helical thinning for low thrust, stable torque and good chip breakage
- Extremely high hardness and heat resistance due to
- YG-1 special Z-Coating technology

RANGE

• Ø 1mm - Ø 20mm (.0393"-.7874")

• Drill Depth: 3xD, 5xD



Higher & Improved cutting conditions due to YG-1 Special Z-Coating Technology (YG-1's Unique Silicon Based Coating: Nano-Laver Coating) • Extremely High Hardness and Heat Resistance

DREAM DRILLS - FLAT BOTTOM

Optimized wide flute design

The unique flute structure provides good surface finish, longer tool life

and requires less cutting force

Stable Torque

Good Chip Breakage





FAST AND STABLE DRILLING

FOR A WIDE VARIETY OF APPLICATIONS X-Coated(2XD), TiAIN Coated(5XD), Micro Grain Flat Bottom Solid Carbide Drills (180° point angle) for Drilling a Variety of Contoured and Sloped Surfaces

Point Angle

180 Degree

2XD

FEATURES & BENEFITS

• 180 degree point angle enables drilling of horizontal and sloped surfaces

Chained Hole

- Excellent chip evacuation by optimized flute shape
- · High strength cutting edge to improve tool life
- Can be used in a variety of drilling applications

RANGE

- Ø 3mm Ø 20mm (.1181"-.7874")
- Drill Depth: 2XD, 5XD



Inclined Entry

Curved Surface



Blind Hole for Threading



No Chamfer



(2xD Single Margin 5XD Hole straightness and roundness provides good alignments

DREAM DRILLS - HIGH FEED



FEATURES & BENEFITS

- For Carbon Steels, Alloy Steels (-HRc35), Cast Iron
- Increases productivity due to 1.5 to 2 times faster feeding speed than 2 flute drills
- · Multi-layered coating delivers outstanding productivity and reliability

Productivity (Carbon Steel)







Cylindrical shank with a parallel flat according to ISO9766 Plain shank and Whistle notch shank are available on request **Body Clearance** for elimination undesirable contact with work piece Nickel-plated Steel holder for corrosion resistance and wear resistance **Optimized flute shape** for better chip evacuation Torx Plus Screw. for clamping insert

Thin Plate

HOLEMAKING TOOLS





Scan this QR code Dream Drills High Feed



3-Flute 1,592 mm/min.

B-Flute 1.600 mm/min.









Scan this OR code o see our i-One Drills at work

COST EFFICIENT HIGH PERFORMANCE **EXCHANGEABLE DRILLING TOOLS**

H- Coated Carbide Inserts and Premium Steel Holders



Ground bright finished shank for more precise clamping

Multi-layered "H"-coated Micro Grain Carbide Insert



Optimized point geometry of i-One Drills ensures centering ability and smoother cutting

FEATURES & BENEFITS

- For Carbon Steels, Alloy Steels and Cast Iron
- Secure and quick clamping system
- High performance with cost efficiency
- Multi-layered coating delivers outstanding productivity and reliability

RANGE

- Ø 10mm Ø 33.73mm (.3937"-1.3281")
- Holder Length: 3xD, 5xD, 8xD



TAP

"PRIME



HSS-PM, PREMIUM **SPIRAL FLUTE & SPIRAL POINT TAPS** New Prime X-Coated Tap for CNC Machining on Various Ductile Materials

Special grinding process provides an unique geometry on spiral flute and spiral point taps to help control chip evacuation, preventing nest formation and enhance flute space.

FEATURES & BENEFITS



RANGE

	М	M2 - M30
Cinimal Eluita	MF	M4 - M30
Spiral Flute	UNC	#4 - 1-1/2"
	UNF	#4 - 1-1/2"
	М	M2 - M24
Cuival Daint	MF	M4 - M24
Spiral Point	UNC	#2 - 1"
	UNF	#2 - 1"



YG-1's X-Coating YG-1's High Performance Coating for

high heat and wear resistance

Premium Cutting Edge Strength

- More controlled structure with high wear resistance
- Consistent performance and process stability with chipping resistance
- High bend strength for the tool life

Synchro TAP





FEATURES & BENEFITS

- High productivity by high-speed machining
- · Shorten thread length and higher thread reliefs
- Close tolerance concentricity eliminating oversized threads

RANGE

Cusinal Elute	M/MF	M3 - M20
Spiral Flute	UNC/UNF	#4 - 3/4"
Cnival Daint	M/MF	M3 - M20
Spiral Point	UNC/UNF	#4 - 3/4"
Chuck what Eluste	M/MF	M3 - M20
Straight Flute	UNC/UNF	#4 - 3/4"
Cold Forming	M/MF	M3 - M20
Cold Forming	UNC/UNF	#4 - 3/4"

SYNCHRO TAP with Internal Coolant

- For extreme spindle speeds
- Axial and Radial coolant for reduced heat
- and longer tool life at higher spindle speeds Better chip flow for improved thread finish



GENERAL USE FOR VARIOUS MATERIALS Bright, Steam Tempered, TiAIN, TiN-Coated HSS-E Taps for Multi-Purpose

Combo Tap's geometry provides enough flute space resulting in smooth chip evacuation and therefore a continuous production process. Guarantee a high level of process reliability even under unfavorable conditions.

FEATURES & BENEFITS

- For Steels, Stainless steels, Cast iron and Non-ferrous materials
- Prevent over & under feeding by its optimized flank geometry
- · Constant threading quality preventing oversized threading

RANGE

Spira Spira		М	M2 - M52				
	Cinizal Eluto	MF	M4 - M52				
	Spiral Flute	UNC	#4 - 1-1/2"				
		UNF	#4 - 1-1/2"				
		М	M2 - M52				
	Spiral Daint	MF	M4 - M52				
	Spiral Politi	UNC	#4 - 1-1/2"				
		UNF	#4 - 1-1/2"				











THREADING TOOLS





Scan this QR code to see our Synchro Tap

3 TIMES FASTER THAN CONVENTIONAL TAPS

TiCN, TiN-Coated HSS-PM Taps for High-Speed Synchronous Tapping







Spiral Flute Taps



Spiral Point Taps





PREMIUM X¹-EH

2 Flute

Ball Nose

Exceptionally Highly Accurate Micro Tooling New C-coated Nano Grain Solid Carbide End Mills

2 Flute

Ball Nose

with Neck

2 Flute

Ball Nose

Taper Neck

2 Flute

Corner Radius

with Neck

2 Flute

Square with Neck

FEATURES & BENEFITS

- >800 different variants allow Length-to-Diameter and Stick-out optimization of Fine-Finishing applications without compromises
- Total High Accuracy setup including not only ball accuracy but shank, neck and conical transition accuracy

New C-Coating

- Next Performance Level within ISO H machining
- Excellent Wear and Heat resistance beyond typical Si-based coatings

RANGE



- Ø 0.2mm Ø 3mm Corner Radius
- Ball Nose Ø 0.1mm - Ø 20mm





Ball Nose Gash Transition

Reinforced Back Relief

Strengthened cutting edge design

for improved chip flow.

Optimized transition from end mill center to flute

for greater stability while not interfering with chip flow.





Raw Mat Newly developed fine-grain nanostructure substrate for improved thermal shock stability and higher hardness.

Special High Technology Coating

Excellent wear and heat resistance with improved thermal shock stability. The nanolayer structure prevents the propagation of microcracks and coating elasticity promotes increased tool life.

Corner Geometries YG-1's High performance corner geometries,



including corner radius, for longer tool life in high-hardness machining. Edge Preparation

Optimal edge preparation applied to prevent chipping and achieve excellent surface finishes with longer tool life in high speed machining.

er Radius

Plus



FEATURES & BENEFITS

- · High volume cutting with excellent surface finish (heavy cutting)
- · Excellent on Stainless Steels, Mild Steels and Cast Iron
- · Unique flute and corner design for chip formation and longer tool life
- · Optimized coating for wear reduction and heat resistance
- · Great performance with trochoidal machining







Address all your slotting, shoulder milling and ramping applications with the necked 4 flute corner radii series. The extensive 5 fluter offering with corner chamfer and radii is optimized for side milling and trimming

FEATURES & BENEFITS

- · For Titanium, Stainless Steels and also excellent for Steels
- · For high-speed machining and heavy cutting
- Dual stepped-core on 4 flute, 5 flute with multiple helix

4 Flute Double Core End Mills With Corner Radius

▶ 2 STEP CORE



Large Chip Pocket Excellent Chip Evacuation. Minimizes Chips from Clogging Good Performance for Slotting Applications SECTION X-X' Excellent chip

Thick Core

SECTION Y-Y

Higher rigidity

Hiaher Riaidity Better Stability Preventing Tool bending Good Performance for Shouldering Applications

MILLING TOOLS





Scan this QR code to see our **V7Plus Chip Splitters**

A1≠A2

Unequa

Index

Y-Coated Solid Carbide End Mills for Heavy Cutting RANGE Square Ø 3mm - Ø 25mm (1/8 - 1") Corner Radius Ø 3mm - Ø 25mm (1/8 - 1") Ball Nose Ø 3mm - Ø 25mm (1/8 - 1") High Performance

回儲約回

- machining, improving chip removal from both the component and the machine
 - YG-1 Tailor-made Coatino

Scan this OR code

TitaNox Power

o see our

Corner Geometries

including Chamfer





Multiple

Helix Design

Scan this OR code to see our **TitaNox Power** HPC at wor

HIGH-SPEED MACHINING for EXOTIC MATERIALS Y-Coated Solid Carbide End Mills for Titanium and

other Exotic Materials

RANGE

Unequal Index

Ø 6mm - Ø 25mm (1/8 - 1-1/4") Square • Corner Radius Ø 6mm - Ø 25mm (1/8 - 1-1/4") Ø 6mm - Ø 25mm Roughing TitaNox Power HPG NEW NEW 5 FLUTE DESIGN for HEAVY CUTTING • New design enhances chip space in heavy cuts, while still maintaining rigidity in peel milling Full eccentric relief for edge strength Unequal index design for Chatter-Free cutting RANGE Ø 6mm - Ø 25mm (1/4 - 1") Square Corner Radius Ø 6mm - Ø 25mm (1/4 - 1") XX

YG-1's High Performance Core Design







THE FIRST CHOICE for PRE-HARDENED STEELS (-HRc55) Y-Coated Solid Carbide End Mills

RANGE

Square

Ball Nose

Corner Radius

X-Speed Rougher

for Die & Mold Industries

FEATURES & BENEFITS

- Large product line with various sizes & shapes
- Edge preparation preventing chipping, achieving excellent finish, and longer tool life in high-speed cutting
- Unequal index & multiple helix exclusively designed to reduce vibration and also to achieve excellent chip evacuation

Unequal Index & Multiple Helix Available on Optimal Edge 4 Flute Multiple Helix End Mills Preparation Ultra Micro grain -Vano Grain Carbide 2 Flute





Scan this QR code

4&5 Flute

Corner Radius

Roughing

Scan this QR code

to see our

X5070

t work

o see ou

4G Mills at work

Ø 0.1mm - Ø 25mm (.004 - 1")

Ø 0.2mm - Ø 20mm (.008 - 3/4")

Ø 0.1mm - Ø 25mm (.004 - 3/4")

Ø 6mm - Ø 20mm (1/4 - 1")

X5070



FEATURES & BENEFITS

- Made from premium grade carbide material for oil mist / high-speed machining
- YG-1's customized coating, along with negative rake angles
- Excellent finished surface



RANGE

- Square Ø 0.1mm - Ø 25mm (.004 - 1") Ø 0.5mm - Ø 20mm (1/16 - 1")
- Corner Radius Ball Nose
 - Ø 0.1mm Ø 25mm (1/32 1/4")



ALU-POWER HPC



FEATURES & BENEFITS

- Designed for Aluminum Alloys used in Aerospace industries
- Special geometries applied to control weight balance for quality performance on higher RPM making an excellent surface finish through stable machining
- High corner protection made from special shape and rake angle inside the radius
- Excellent performance with high feed, high RPM, high chip removal(heavy cutting)

ALU-POWER HPC CHIPBREAKER



1-Xmill



FEATURES & BENEFITS

- Re-generation(holder) service
- For General Purpose, Pre-Hardened Steels, High-Hardened Steels, Stainless Steels and Graphite
- Ball Nose, Corner Radius, Full Radius and also high feed types available
- · Holders available in both Carbide & Steel
- · Long tool life with high wear resistance
- Increased precision by tightening the tolerance and grinding the internal Screw hole of holders and Inserts

RANGE

For General Purpose

(XMB110A, XMR110A)



For Pre-Hardened Steel For High-Hardened Steels (XMB120C, XMR120C) (XMB260T, XMR260T)

MILLING TOOLS





to see our Alu-Power HPC at work

HIGH PERFORMANCE END MILLS FOR ALUMINUM

HIGH FEED, HIGH RPM and HIGH CHIP REMOVAL

DLC-Coated & Non-Coated Solid Carbide End Mills for Aluminum Alloy, Non-Ferrous & Non-Metallic Materials







Scan this OR code i-Xmill at work

HIGH PRECISION CUTTING WITH COST EFFICIENCY

Coated Exchangeable Carbide Inserts with both Carbide & Steel Holders for Various Materials







Scan this QR code to see our i-SMART at work

-SMART

EXCELLENT FLEXIBILITY by USING COPY MILLING COUPLING

Modular Type, Y-Coated Exchangeable Carbide Milling Heads for machining Pre-Hardened Steels

FEATURES & BENEFITS

- Avoids expensive investments by using existing Copy Milling adaptor technology
- Proven performance transferred to cost effective modular system
- Optimal solution for large size
- or long reach Die & Mold applications

RANGE

- Square
- Corner Radius
- Ball Nose
- Ø 10mm Ø 32mm (3/8 1-1/4") Ø 10mm - Ø 32mm (3/8 - 1-1/4")

Ø 10mm - Ø 32mm (3/8 - 1-1/4")



COPY MILL ARBOR

COMPOSITE MATERIALS







HIGH PERFORMANCE MACHINING TOOL FOR COMPOSITE MATERIAL

Specifically designed & optimized for high efficiency milling & drilling.

Diamond Coated Chip Breaker Routers

- The unique flute structure provides good surface finish, longer tool life and requires less cutting force Reduce delamination and uncut fibers
- Roughing and finishing processes
- Multiple flute
- Diamond coating with excellent abrasion resistance
- Fine nick type



Solid Carbide Drills

A combination of perfect carbide choice with innovative design and adapted CVD coating make YG-1 CFRP drills a good choice for Composite drilling

Diamond Coated Compression Routers

- The unique flute structure provides good surface finish, longer tool life and requires less cutting force
- Reduce delamination and fibers pullout
- Roughing and finishing processes

″/G

1

Diamond coating with excellent abrasion resistance



Slottina









to See More Tools for COMPOSITE METERIALS

77G TOOLING SYSTEM

HYDRAULIC CHUCK - Power E Hydro



Strong Torgue Power

Hydraulic Chuck	Tool Shank	Applicable	Minimum Clamping Depth (mm)		Min. Torque Power (Nm)	
I.D(mm)	0.D(mm)	RPM	Slim	Power E Hydro	Slim	Power E Hydro
6	6	40,000	27		16	
8	8	40,000	27		23	
10	10	40,000	32		45	
12	12	40,000	27	41	90	110
14	14	40,000	37		110	
16	16	40,000	42		185	
18	18	40,000	42		240	
20	20	40,000	42	48	330	520
25	25	25,000	48		400	
32	32	25,000	55	57	650	900

Tool holder I.D tolerance : H6









Scan this QR code to see our Power E-Hydro

- Superb T.I.R. Accuracy & Repeatability ≤ 0.003 mm (Direct Clamping)
- Clamping Force
- ID 12mm : 110 Nm
- ID 20mm : 520 Nm • ID 32mm : 900 Nm
- Basic G2.5 25,000 RPM Balanced
- Various Size of Reduction Sleeve Ø 3mm - Ø 25mm
- Advantage
- Covering up to milling(roughing & finishing)
- No slippage or pull out of tool
- Rigid body design to withstand side thrust
- Avoid tool bending during machining.



Maintaining strong and stable torgue power







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.





HEAD OFFICE

13-40, Songdogwahak-ro 16beon-gil, Yeonsu-gu, Incheon 21984, South Korea Phone: +82-32-526-0909 https://www.yg1.kr E-mail: yg1@yg1.kr

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NES		THAILAND		
ORE		UNITED ARAB EMIRATES		
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* For the more information on sales network, please contact the head office as below;



HEAD OFFICE

13-40, Songdogwahak-ro 16beon-gil, Yeonsu-gu, Incheon 21984, South Korea Notice YG-1 Global head office is relocated from December 2020 to a new address as above;

Phone: +82-32-526-0909 https://www.yg1.kr E-mail: yg1@yg1.kr

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