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JAS-ANZ

PRODUCT LINES

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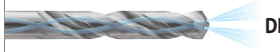
HOLEMAKING TOOLS

Scan to see YG-1 Holemaking Web page

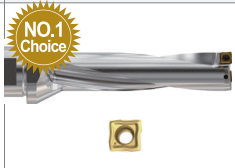
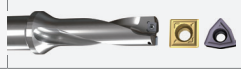
P M K N S H : Excellent
P M K N S H : Good

Cutting tools for making holes in Die & Mold, Machine Tool, Automotive and Electronics industries.
YG-1 produces solid carbide Dream Drills, HSS Drills (Straight Shank Drills & Taper Shank Drills), HSS-PM Multi-1 Drills, Indexable Drills, Spade Drills, etc.

SOLID CARBIDE DRILLS

Work Material P	M	K	N	S	H	Item	OD Size Range	Drilling Depth	Coolant	Features
P		K				 NO.1 Choice **DREAM DRILLS - HIGH FEED**	Metric: Ø5.0mm - Ø20.0mm Inch : Ø13/64 - Ø3/4	3xD 5xD	- With Coolant	• 3-Flute Carbide Drill for **High Feed Machining** • 1.5 to 2 Times Faster Feeding Speed than 2-Flute Drill
P	M	K			H	 NO.1 Choice **DREAM DRILLS - PRO**	Metric: Ø1.0mm - Ø20.0mm Inch : Ø1/8 - Ø3/4	3xD 5xD	- With Coolant - Without Coolant	• **High Cutting Speed Drilling** for Carbon Steels, Alloy Steels, Pre-Hardened Steels (HRc30-50), Cast Iron • Productivity / Extended Tool Life with Point Design
P	M	K			H	 NO.1 Choice **DREAM DRILL X**	Metric: Ø1.0mm - Ø20.0mm Inch : Ø1/16 - Ø3/4	3xD 5xD 8xD	- With Coolant - Without Coolant	• **RCH-Coating Drill for Extended Tool Life** in Carbon Steels, Alloy Steels, and Cast Iron (Nano Layered Multilayer Coated Drill) • Extreme Wear Resistance / High Heat Endurance / Chipping Protection
P	M	K				 NEW **DREAM DRILLS - SOFT MICRO**	Metric: Ø0.3mm - Ø0.9mm	4xD	- Without Coolant	• High-Precision, High-Efficiency Machining for Precision and IT Applications • Advanced Thinning with Excellent Self-Centering and Cutting Performance
P	M	K				 **DREAM DRILLS - SOFT**	Metric: Ø1.0mm - Ø20.0mm	Regular Long	- Without Coolant	• For **Steels, up to Medium Hardness** • Lower Torque / Improved Chip Formation
P	M		N	S		 **DREAM DRILLS - INOX**	Metric: Ø1.0mm - Ø20.0mm Inch : Ø1/16 - Ø3/4	3xD 5xD 8xD	- With Coolant	• For **Stainless Steels** • Lower Torque / Improved Chip Formation
			N			 **DREAM DRILLS - ALU**	Metric: Ø3.0mm - Ø20.0mm Inch : Ø1/8 - Ø3/4	3xD 5xD 8xD	- With Coolant	• For **Aluminum** and **Aluminum Alloys**
P	M	K	N			 NO.1 Choice **DREAM DRILLS - FLAT BOTTOM**	Metric: Ø3.0mm - Ø20.0mm Inch : Ø1/8 - Ø3/4	2xD 3xD 5xD	- With Coolant - Without Coolant	• **180° Point Angle** Drill for Holes on **Various Angled Surfaces**
P		K				 EXPANSION **DREAM DRILLS - MQL Type**	Metric: Ø3.0mm - Ø14.0mm Inch : Ø1/8 - Ø1/2	10xD 12xD 15xD 20xD 25xD 30xD	- With Coolant	• For Drilling **Deep Holes** (10×D - 30×D) • Polished flutes for Enhanced chip evacuation
					H	 **DREAM DRILLS - for HIGH HARDENED STEELS**	Metric: Ø1.0mm - Ø20.0mm Inch : Ø1/8 - Ø3/4	3xD	- Without Coolant	• For **High Hardened Steels** HRc50 to HRc70 • Minimum of Cutting load through Special Thinning
				S		 **DREAM DRILLS - TITANIUM**	Special Item (Metric: Ø3.0mm - Ø20.0mm)	-	- With Coolant	• YG-1 tailored surface treatment after coating for reducing frictions and excellent chip flow • Special wave-shaped cutting edges and thinning improve chip formation and breaking • Optimized wide flute shape for smooth chip evacuation
				S		 **DREAM DRILLS - SUPER ALLOY**	Special Item (Metric: Ø3.0mm - Ø20.0mm)	-	- With Coolant	• Convex cutting edge cam relief type for reducing cutting load Radius gashing type for reducing heat generation • Edge preparation for increased and reliable tool life
P	M	K	N	S		 **GENERAL CARBIDE DRILLS**	Metric: Ø1.0mm - Ø13.0mm Inch : Ø#56(.0465) - Ø1/2	Stub Jobber	- Without Coolant	• For General Purpose
P	M	K	N	S		 **NC-SPOTTING DRILLS**	Metric: Ø3.0mm - Ø20.0mm Inch : Ø1/8 - Ø3/4	-	-	• 90°, 120° and 142° point available • For centering and chamfering
P	M	K				 **CENTER DRILLS**	Metric: Ø1.0mm - Ø6.3mm Inch : Ø3/64 - Ø5/16	-	-	• For making internal centers of work material • Excellent performance under general working conditions

CARBIDE INSERTS & HOLDERS

P		K				 NO.1 Choice **i-ONE DRILLS GENERAL**	Metric: Ø10.0mm - Ø33.9mm Inch : Ø.3937 - Ø1.3189	3xD 5xD 8xD	- With Coolant	• **High-Performance Exchangeable Drill** for General Steels, Cast Iron • Secure and Quick Clamping System
P	M					 NO.1 Choice NEW **i-ONE DRILLS INOX**	Metric: Ø10.0mm - Ø33.5mm Inch : Ø.3937 - Ø1.3189	3xD 5xD 8xD	- With Coolant	• **High-Performance Exchangeable Drill** for Stainless Steels
P	M	K	N			 **i-DREAM DRILLS**	Metric: Ø12.0mm - Ø31.75mm Inch : Ø.4724 - Ø1.2500	3xD 5xD 7xD	- With Coolant	• **Exchangeable Drill** for General Steels and Stainless Steels • High-Strength Insert Available for Steels and Stainless Steels
P	M	K				 NO.1 Choice **YG X-DRILL SYMX**	Metric: Ø14.0mm - Ø50.0mm Inch : Ø.563 - Ø2	2xD - 5xD	- With Coolant	• Economic square type 4 cutting edge insert • Able to use true 4 cutting edges 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 improve chip evacuation in deeper machining
P	M	K				 **YG DRILL**	2 Series, 38 Inserts for both Metric and Inch	3xD 5xD	- With Coolant	• Handles Multi-Purpose applications and extremely efficient in covering materials as Steels, Stainless Steels and Cast Iron (3 Grade, 2 Chipbreakers, 2 Series)

HOLEMAKING TOOLS

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HSS DRILLS

Work Material P	M	K	N	S	H	Item	OD Size Range	Drilling Depth	Tool Material	Features
P	M	K	N	S		 **MULTI-1 DRILLS**	Metric: Ø1.0mm - Ø13.0mm Inch : Ø#45(.0820) - Ø1/2	Stub Jobber	HSS-PM	• For **Multi-Purpose (Any Material)** • Premium HSS-PM Drill with Excellent Toughness • Maximize self-centering
P	M	K	N			 **HPD STRAIGHT SHANK DRILLS**	Metric: Ø2.0mm - Ø32.0mm Inch : Ø#46(.0810) - Ø21/32	Stub Jobber	HSSCo8 HSS-E	• High Precision HSSCo8, HSS-E Drill for General Steels & Stainless Steels
P	M	K	N	S		 **GOLD-P DRILLS**	Metric: Ø1.0mm - Ø13.0mm Inch : Ø#60(.0400) - Ø3/4	Jobber	HSS HSS-E HSSCo8	• **TiN-Tip** Coated Drill for Enhanced Wear Resistance • Same Performance as Full TiN-Coated Drill
P	M	K	N	S		**SUPER-GP DRILLS**	Metric: Ø1.0mm - Ø13.0mm	Jobber	SUPER HSS	• Super HSS Drill for Steels, Cast Iron, Alloy Steels and Malleable Cast Iron • Super HSS Improves Toughness, Wear Resistance, and Extends Tool Life • Competitive Price
P		K	N			**WORM PATTERN STRAIGHT SHANK DRILLS** (PARABOLIC FLUTE)	Metric: Ø2.0mm - Ø20.0mm Inch : Ø5/64 - Ø1/2	Stub Jobber Long Ex-Long	HSS-E	• Designed for drilling deep holes, and particularly suitable for drilling deep holes without chip pecking cycle
P		K				**WORM PATTERN TAPER SHANK DRILLS** (PARABOLIC FLUTE)	Metric: Ø13.0mm - Ø30.0mm	Long	HSS-E	• Designed for drilling deep holes, and particularly suitable for drilling deep holes without chip pecking cycle
P	M	K	N	S		 **STRAIGHT SHANK DRILLS**	Metric: Ø0.2mm - Ø31.0mm Inch : Ø1/64 - Ø1	Stub Jobber Long Ex-Long	HSS HSS-E HSSCo8	• Straight Shank Drill for General Purpose (Soft & Tough Materials)
P	M	K	N	S		 **MORSE TAPER SHANK DRILLS**	Metric: Ø5.0mm - Ø76.0mm Inch : Ø13/64 - Ø3-1/2	Jobber Long Ex-Long	HSS HSS-E HSSCo8	• Morse Taper Shank Drill for Wide Applications
P	M	K				 **CENTER DRILLS**	Metric: Ø0.5mm - Ø10.0mm Inch : Ø3/64 - Ø7/32	-	HSS HSS-E	• Angle: 60°, 90°, 60°+120° • For Centering • For General Purpose
P	M	K	N			 **NC-SPOTTING DRILLS**	Metric: Ø3.0mm - Ø20.0mm Inch : Ø1/8 - Ø1	-	HSSCo8	• For Centering and Chamfering of Holes
P	M	K	N	S		**AIRCRAFT DRILLS**	Inch: Ø5/64 - Ø1/2	Extension	HSS HSS-E	• For drilling in difficult to reach area, great performance Manufactured to NAS specification

SPADE DRILLS

Work Material P	M	K	N	S	H	Item	OD Size Range	Drilling Depth	Tool Material	Features
P	M	K	N	S	H	 **SPADE DRILLS**	CARBIDE Metric: Ø9.5mm - Ø47.63mm Inch : Ø.3740 - Ø1.8750 HSS-PM Metric: Ø9.5mm - Ø114.3mm Inch : Ø.3740 - Ø4.5000	Stub Short Intermediate Standard Extended Long	CARBIDE: K10, K20, P40 HSS: M4, T15, M48	• Spade Drill for **Large-Diameter Hole Machining** • Low initial investment / Various holder sizes

OTHER TOOLS

P	M	K	N							
P	M	K	N			 **REAMERS** (STRAIGHT FLUTE, SPIRAL FLUTE)	HSS / HSS-E Metric: Ø2.0mm - Ø60.0mm Inch : Ø.0135 - Ø.7500 CARBIDE Metric : Ø2.0mm - Ø20.0mm up to Ø12 : Solid Carbide over Ø12 : Carbide Head Brazed Inch : Ø.0280 - Ø.6299	-	CARBIDE HSS HSS-E	• Carbide NC Machine Reamers, HSS Hand Reamers & HSS-E Chucking Reamers
P	M	K	N			 **COUNTERSINKS**	Metric: Ø4.3mm - Ø50.0mm	-	HSS HSSCo8	• For Deburring, Chamfering and Countersinking
P			N			 **COUNTERBORES**	Metric: Ø2.5mm - Ø14.0mm (Pilot Diameter)	-	HSS-E	• For Machining Screw Head Seats

THREADING TOOLS

Scan to see YG-1 Threading Web page

P M K N S H : Excellent
P M K N S H : Good

Taps and Thread Mills for machining precision threads for all industries. Continuous expansion of High-Performance threading tools through rigorous development processes is at the heart of Threading products such as Synchro Tap, Prime Tap, Combo Tap, YG Tap Forming, Thread Mills, YG Tap Chip Breaker and more.

SOLID CARBIDE THREAD MILLS

Work Material	Item	Thread Size Range	Thread Form	Tool Material	Features
P M K N S H	NO.1 Choice EXPANSION **THREAD MILLS**	Metric : M1 - M24 Inch : #1 - 1-1/4 BSP(G) : G1/16 - G1 NPT/NPTF: 1/16 - 2-1/2 NPS : 1/8 - 1-2 Rc(BSPT) : Rc1/8 - Rc1	M, MF, UNC, UNF, BSP(G), NPT, NPS, Rc(BSPT)	CARBIDE	• Carbide Thread Mill for **Large Diameter** and **Precision Thread** • Covering Wide Range of Materials / Produce Full Threads to the Bottom

HSS TAPS

Work Material	Item	Thread Size Range	Thread Form	Tool Material	Features
P M K N	NO.1 Choice **SYNCHRO TAP**	Metric : M3 - M20 Inch : #4 - 3/4	M, MF	HSS-PM	• HSS-PM Tap for **High Speed Tapping** on Rigid CNC Machine • High productivity / 3 Times Faster than Conventional Tap
P M K N	NO.1 Choice EXPANSION **PRIME TAP**	Metric : M2 - M30 Inch : #4 - 1-1/2 BSP(G) : G1/16 - G1	M, MF, UNC, UNF, BSP(G)	HSS-PM	• **High-Performance HSS-PM Tap for Multi-Purpose** • Prevent Over & Under Feeding / Extended Tool Life
P M K N	NO.1 Choice **COMBO TAP**	Metric : M2 - M52 Inch : #2 - 1-1/2	M, MF, UNC, UNF	HSS-PM HSS-E	• **HSS-PM & HSS-E TAPS for Multi-Purpose** • Prevent Over & Under Feeding • Bright Finish, Steam Oxide, TiN, TiCN Coated
P M K N	NO.1 Choice NEW COATING **COMBO AOS TAP**	Metric : M2 - M24 Inch : #2 - 1	M, MF, UNC, UNF	HSS-E	• HiPIMS FSH-Coating: High-Hardness, High-Toughness, and an Extremely Smooth Surface • For Steels, Stainless Steels, Cast Iron and Non-Ferrous Materials
P M S	**YG TAP STEEL**	Metric : M2 - M30 Inch : #2 - 2-1/2	M, MF, UNC, UNF	HSS-PM HSS-E	• For Carbon Steels and Alloy Steels
P	**YG TAP CHIP BREAKER**	Metric : M4 - M20	M, MF	HSS-PM HSS-E	• TiN Coated Tap with **Chip Breaker for Steel Materials** • Avoiding bird nesting / Solution for long chips
P M N S	NEW SIZES **YG TAP INOX**	Metric : M2 - M30 Inch : #2 - 2	M, MF, UNC, UNF	HSS-PM HSS-E	• For Stainless Steels
K N H	EXPANSION **YG TAP CAST IRON**	Metric : M3 - M24 Inch : #10 - 3/4 BSW : W1/8 - W1 BSP(G) : G1/16 - G1/2	M, MF, UNC, UNF, BSW, BSP(G)	CARBIDE HSS-PM HSS-E	• For Cast Iron, Cast Aluminum
P M N H	EXPANSION **YG TAP HARDENED**	Metric : M2 - M30 Inch : #2 - 3/4	M, MF, UNC, UNF	CARBIDE HSS-PM HSS-E	• For Hardened Steels
P S H	**YG TAP Ti Ni**	Metric : M2 - M30 Inch : #2 - 3/4	M, UNC, UNF	HSS-PM	• For Heat Resistant Super Alloys and Titanium Alloys
P N	**YG TAP ALU**	Metric : M2 - M30 Inch : #4 - 1 BSW : W1/8 - W1/2	M, MF, UNC, UNF, BSW	CARBIDE HSS-E	• For long-chipping Aluminum and Aluminum Alloys
P M N	EXPANSION **YG TAP FORMING**	Metric : M2 - M20 Inch : #0 - 3/4	M, MF, UNC	CARBIDE HSS-PM HSS HSS-E	• Tapping by Forming Soft Materials
P M K N	**YG TAP GENERAL**	Metric : M1.6 - M36 Inch : #0 - 1 BSW : W1/8 - W1-1/8	M, MF, UNC, UNF, BSW	HSS HSS-E	• For General Purpose
P M N	**HAND TAP**	Metric : M2 - M52 Inch : #0 - 1-1/2 BSW : W3/32 - W2	M, MF, UNC, UNF, BSW	HSS	• For Hand Tapping • ISO Hand Tap Available
P M K N	**PIPE TAP**	G1/16 – G1-1/2 NPT1/8 - NPT1 NPTF1/16 - NPTF2 NPS1/8 - NPS1 NPSF1/8 - NPSF1 PT1/16 - PT2 PF1/8 - PF2 PS1/8 - PS2 Rc1/16 - Rc1	BSP(G), NPT, NPTF, NPS, NPSF, PT, PF, PS, Rc(BSPT)	HSS HSS-E	• Tapping Whitworth Pipe Threads
P N	**SCREW THREAD INSERT TAP**	Metric : M2 - M20 Inch : #2 - 1/2	UNC, UNF EG-M, EG-UNC, EG-UNF	HSS HSS-E	• Tapping STI Threads of Soft Materials
P K N	**NUT TAPS**	Metric : M4 - M20	M	HSS-E	• For Nut Tapping Machines

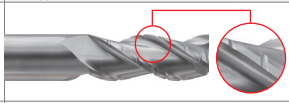
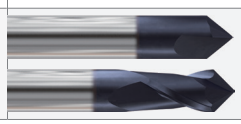
MILLING TOOLS

Scan to see YG-1 Milling Web page

P	M	K	N	S	H	
P	M	K	N	S	H	: Excellent
P	M	K	N	S	H	: Good

Cutting tools for machining Die & Mold, typically in high precision used for Automotive, Electronics, Aerospace and Medical industries.
Representative products are Solid Carbide X1-EH End Mills, 4G MILLS, X-POWER PRO, EV MILLS, TitaNox-Power, ALU-Power HPC, Only One End Mills, etc.

SOLID CARBIDE END MILLS

Work Material						Item	OD Size Range	Tool Material	Features
P	M	K	N	S	H				
P					H	 NO.1 Choice Tight Tolerance Fine-Finishing NEW SIZES **X1-EH**	Metric: Ø0.1mm - Ø25.0mm Inch : Ø1/32 - Ø1	CARBIDE	• Highly Accurate Fine-**Finishing** End Mill for **High Hardened Steels (HRc50-70)** • **Tight Tolerance** / Long Tool Life (Extended Tool Life) / Wide Range Portfolio • Complete offering of 2, 3, 4, 6 and 8-Flute tools • Modified 2-Flute variants optimized for HRc40-60 range
P					H	 **X5070**	Metric: Ø0.1mm - Ø25.0mm Inch : Ø1/32 - Ø1	CARBIDE	• Finishing and Semi-Finishing End Mill for **High Hardened Steels (HRc45-60)** • Dry & High-Speed Cutting
P	M	K			H	 NO.1 Choice **4G MILLS**	Metric: Ø0.1mm - Ø25.0mm Inch : Ø.004 - Ø1	CARBIDE	• For **Pre-Hardened Steels (HRc40-55)** • Full Range Offering / Dry & Wet Cutting
P	M	K	N			 **X-SPEED ROUGHER (4G MILLS)**	Metric: Ø6.0mm - Ø20.0mm Inch : Ø1/4 - Ø1	CARBIDE	• **4G MILLS Roughing Version** for Pre-Hardened Steels up to HRc40
P	M	K			H	 **X-POWER PRO**	Metric: Ø0.4mm - Ø25.0mm Inch : Ø1/32 - Ø1	CARBIDE	• For **Pre-Hardened Steels up to HRc30-50** • Selected Portfolio (Tailored Selection) / Market-Proven Performance
P	M	K		S		 NO.1 Choice **V7 PLUS**	Metric: Ø3.0mm - Ø25.0mm Inch : Ø1/8 - Ø1	CARBIDE	• **Heavy Cutting** for Steels, Cast Iron and Stainless Steels, **Optimized for up to HRc35**
P	M	K		S		 NO.1 Choice **V7 PLUS with Chip Splitter**	Metric: Ø6mm - Ø25.0mm Inch : Ø3/8 - Ø1	CARBIDE	• V7 PLUS with Chip Splitter for **Enhanced Chip Removal Performance**
P	M	K		S		 NO.1 Choice NEW **EV MILLS**	Metric: Ø0.1mm - Ø25.0mm Inch : Ø1/16 - Ø3/4	CARBIDE	• **Economical Solid Carbide End Mill** • Optimized Versatility for Various Materials
P	M	K	N			 **YGBasiX**	Metric: Ø1.0mm - Ø25.0mm Inch : Ø1/64 - Ø1-1/4	CARBIDE	• For the Americas Market Only • X-Coated Solid Carbide End Mill • Multi-helix and unequal index for chatter-free machining
P	M		N			 NEW **YG MINIATURE**	Metric: Ø0.5mm - Ø3.0mm Inch : Ø1/32 - Ø1/8	CARBIDE	• Sharp Cutting Edges for Clean, Burr-free Finishes • Engineered for Maximum Precision on Intricate Workpieces
P	M	K				 **K-2**	Metric: Ø0.4mm - Ø25.0mm	CARBIDE	• For **General Purpose** Machining End Mill • Competitive Price
P	M	K		S		 **K-2 Multiple Helix**	Metric: Ø3.0mm - Ø20.0mm	CARBIDE	• **Multiple Helix** Designed for Optimal Chip Formation and Chip Evacuation • Unique Geometry applied to Reduce Vibration
P	M	K		S		 NO.1 Choice **TitaNox-Power**	Metric: Ø6.0mm - Ø25.0mm Inch : Ø1/8 - Ø1-1/4	CARBIDE	• High Speed Machining for Titanium, Nickel-Based Alloys and Stainless Steel
P	M	K		S		 NO.1 Choice EXPANSION **TitaNox-Power HPC**	Metric: Ø6.0mm - Ø25.0mm Inch : Ø1/8 - Ø1	CARBIDE	• Machining Titanium, Nickel-Based Alloys and Stainless Steel • 5-Flute for **Heavy Cutting** • 7-Flute for Finishing and Dynamic Milling • High-feed Optimized Double-Radius Bottom Edge
			N			 NO.1 Choice **ALU-POWER**	Metric: Ø1.0mm - Ø25.0mm Inch : Ø1/16 - Ø2	CARBIDE	• For Aluminum Alloys and Other Non-Ferrous Materials • HSS-PM Products are Available in the Americas Region
			N			 NO.1 Choice **ALU-POWER HPC**	Metric: Ø3.0mm - Ø25.0mm Inch : Ø1/8 - Ø1	CARBIDE	• High-Performance Machining in Difficult Aluminums
			N			 **ALU-POWER HPC with Chip Breaker**	Metric: Ø6.0mm - Ø20.0mm Inch : Ø1/8 - Ø1	CARBIDE	• Alu-Power HPC with Chip Breaker for **Enhanced Chip Removal Performance**
P	M			S		 **JET-POWER**	Metric: Ø1.0mm - Ø25.0mm Inch : Ø1/8 - Ø1-1/2	CARBIDE	• For Exotic Materials Like Stainless Steels, Nickel Alloys and Titanium • HSS-PM Products are Available in the Americas Region
			N			 NO.1 Choice **D-POWER GRAPHITE**	Metric: Ø0.2mm - Ø12.0mm Inch : Ø1/64 - Ø1/2	CARBIDE	• Diamond Coated End Mill for Graphite
			N			 **CRX S**	Metric: Ø0.5mm - Ø12.0mm	CARBIDE	• DLC Coated Carbide End Mill for Copper
P	M	K		S		 **YG5X END MILLS**	Special Item	CARBIDE	• Designed for **5-Axis CNC machines** • Optimized to gain a larger cutting surface to machine an extensive width compared to conventional ball nose End mills
P	M	K	N	S		 **CHAMFERING TOOLS**	Metric: SD Ø3.0mm - Ø20.0mm Metric: OD Ø3.0mm - Ø20.0mm	CARBIDE	• 2, 3, 4-Flute Chamfering Tool Versatility with 60°, 90°, and 120° Versions

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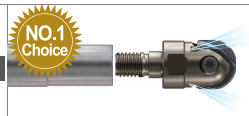
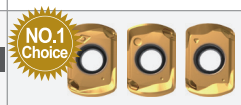
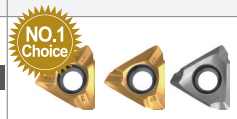
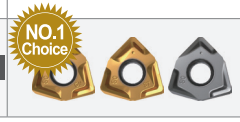
CBN END MILLS

Work Material (P M K N S H)	Item	OD Size Range	Tool Material	Features
H	 **CBN END MILLS** (CUBIC BORON NITRIDE)	Metric: Ø0.4mm - Ø3.0mm	CBN	• **CBN (Cubic Boron Nitride) Machining** High Hardened Steels up to HRc70 Mirror Finish

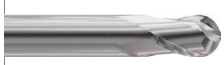
PCD END MILLS

Work Material (P M K N S H)	Item	OD Size Range	Tool Material	Features
N	 **PCD END MILLS** (POLY CRYSTALLINE DIAMOND)	Special Item Metric: Ø0.98mm - Ø40.0mm	PCD	• High productivity due to excellent wear resistance

CARBIDE INSERT & HOLDER

Work Material (P M K N S H)	Item	OD Size Range	Tool Material	Features
P M K N H	 **i-Xmill**	Metric: Ø8.0mm - Ø33.0mm Inch : Ø5/16 - Ø1-1/4	CARBIDE	• Various application types of inserts are available : for Steels, Pre-Hardened Steels, High Hardened Steels up to HRc65, Stainless Steels and Graphite • Special geometry and coating for excellent performance • Modular type of i-Xmill tooling for highest flexibility using market common coupling
P M K H	 **i-SMART Modular Type**	Metric: Ø10.0mm - Ø32.0mm Inch : Ø3/8 - Ø1-1/4	CARBIDE	• Combining High-Performance 4G MILLS Geometries with well proven market standard Copy Milling screw-in coupling avoiding additional investments • Carbide and Steel holders available
P M K N S H	 **YG MILL**	25 Series, 188 Inserts for both Metric and Inch	CARBIDE	• Inserts: Multi-Purpose application and extremely efficient in covering materials (12 Grades, 5 Chipbreakers, 25 Series) • Cutters: Innovative surface treatment that improves wear resistance and reduces corrosion
P M K S H	 **YG HF4 Mill ENMX** (High Feed)	Metric: Ø8.0mm - Ø125.0mm Inch : Ø.375 - Ø6.00	CARBIDE	• High Feed application with Small cutter diameter • Double-sided (4 Corners) • Thick and Reinforced Design
P M K S H	 **YG TM4 Mill LNKU** (Tangential)	Metric: Ø40.0mm - Ø160.0mm Inch : Ø2 - Ø10	CARBIDE	• 4 cutting edges High Productivity Tangential Insert • Double-sided (4 Corners)
P K H	 **YG FM10 Mill PNMU** (Face Milling)	Metric: Ø50.0mm - Ø125.0mm Inch : Ø2 - Ø10	CARBIDE	• 36° Entry angle face milling insert with 10 corners • Double-sided (10 Corners) • Wiper for excellent surface roughness
P M K N S H	 **YG SM3 Mill TPKT** (Shoulder Milling)	Metric: Ø12.0mm - Ø200.0mm Inch : Ø.5 - Ø6	CARBIDE	• High helix cutting edge for smooth cutting and low cutting force • High positive rake angle chip breaker for optimized chip curl and minimized burr • Wide wiper edge for excellent surface Finish • Curved cutting edge for minimized mismatch
P M K N S H	 **YG SM6 Mill WNEX** (Shoulder Milling)	Metric: Ø20.0mm - Ø125.0mm Inch : Ø.75 - Ø5	CARBIDE	• 6 cutting edges for Shouldering - High Cost-Efficiency • Double-sided (6 Corners) • Ground Insert – High Precision Tolerance and Excellent Surface Finish

HSS END MILLS

Work Material (P M K N S H)	Item	OD Size Range	Tool Material	Features
P M K N H	 **ONLY ONE PM60**	Metric: Ø1.0mm - Ø25.0mm Inch : Ø1/8 - Ø1-1/4	PM60	• **Premium PM60 End Mill for Unstable Condition** • High Wear Resistance / High Toughness
P M K N	 **TANK-POWER**	Metric: Ø1.0mm - Ø25.0mm Inch : Ø1/8 - Ø1-1/4	HSS-PM	• HSS-PM End Mill with High Toughness for General Purpose, Roughing & Finishing
P N	 **GENERAL HSS** (HSSCo8 & HSS-E)	Metric: Ø1.0mm - Ø50.0mm Inch : Ø1/32 - Ø2	HSS HSS-E HSSCo8	• For General Purpose
S	 **SINE-POWER**	Inch : Ø3/4 - Ø2	HSSCo8	• High-Performance HSS Rougher for Titanium and Titanium Alloys
P N	 **HSS MILLING CUTTERS**	Metric: Ø8.0mm - Ø200.0mm	HSS-E HSSCo8	• HSS Milling Cutters for General Application Dovetail, Woodruff keyseat, T-slot, Side and Face Milling, Shell End Mill, Corner Rounding

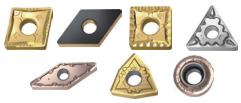
TURNING & OTHERS

Scan to see YG-1 YGTURN Web page

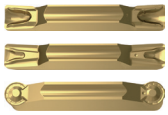
P M K N S H : Excellent
P M K N S H : Good

Cutting tools for various metal working. YG-1 offers special products such as Counter Bores, Reamers, etc. Customers can easily find unique products to meet full satisfaction.

CARBIDE TURNING INSERT & HOLDER

Work Material	Item	Tool Material	Product Range	Application	Features
P M K N S	 EXPANSION YG TURN	Insert : Carbide Holder: Steel / Carbide	21 Grades 31 Chipbreakers with Turning Holders	General ISO Turn	• Inserts: Optimized grade & geometry with extremely efficient in covering materials including Steels, Stainless Steels, Cast Iron and Super Alloys
H	 PCBN INSERT	Insert : Carbide, PCBN Holder: Steel / Carbide	4 Grades Turning Holders	Hardened Steel	• PCBN Turning Grades for Hardened Steel

CARBIDE INSERT PARTING & GROOVING TOOLS

P M K N S	 YG PARTING & GROOVE TURN	Insert : Carbide Holder: Steel	3 Grades Parting & Grooving Holders	Grooving Turn Groove Parting Off	• Inserts: Optimized grade & geometry with extremely efficient in covering materials including Steels, Stainless Steels and Cast Iron

SOLID MINIATURE TURNING FOR SMALL BORE

P M K S	 SOLID MINIATURE TURNING FOR SMALL BORE	Insert : Carbide Holder: Steel	1 Grade 10 Series with Holders	Turning of Small Bore Components	• Minimum Diameter (Boring & Profiling series): Ø1.0mm • 10 Geometries for Various Applications

SPECIAL TOOLS

- STEP DRILLS (HSS & CARBIDE, MULTI-DIAMETER DRILLS)
- HSS SUB-LAND (STEP) DRILLS
- PILOTED CORE DRILL
- CARBIDE BURNISHING DRILLS
- HSS DRILL TAPS
- ACME THREAD TAPS & TRAPEZOIDAL THREAD TAPS
- CARBIDE STEP REAMERS
- BROACHES
- BRAZING TOOLS
- GRINDING WHEEL

CUSTOMIZED TOOLS for INDUSTRY SOLUTIONS

COMPOSITE MATERIALS TOOLS



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AIRCRAFT TOOLS



E-MOBILITY & AUTOMOTIVE TOOLS



※ ISO WORK MATERIAL GUIDE

P	M	K	N	S	H
STEELS	STAINLESS STEELS	CAST IRON	NON-FERROUS	TITANIUM INCONEL NICKEL	HIGH HARDENED STEEL

TOOLING SYSTEM

Scan to see YG-1 Tooling System Web page



POWER E HYDRO | SHRINK FIT HOLDER | SYNCHRO TAPPING CHUCK

TOOL HOLDERS

Item		Shank Standard	Clamping Range	Application	Features
HYDRAULIC CHUCKS	POWER E HYDRO	DIN 69871 (SK) / DIN 69893 (HSK)	Metric: Ø12.0mm, Ø16.0mm, Ø20.0mm, Ø32.0mm Inch : Ø1/2, Ø3/4, Ø1, Ø1-1/4	Milling (High volume, Finishing) / Drilling / Reaming / Tapping for Electronics, Die & Mold, Automotive and Aerospace products	Rigid body design Simple & Fast tool change Torque up to 900 Nm with dia. 32mm Flexible clamping range with reduction sleeves Coolant channel resealable type available
	SLIM (STANDARD, LONG) Die & Mold TOOL LENGTH PRE-SETTING TYPE		Metric: Ø6.0mm - Ø32.0mm Inch : Ø1/4 - Ø1-1/4	Fine Finishing for Electronics, Die & Mold, Automotive and Aerospace products	Suitable for higher precision machining Easy to clamp tool Vibration damping
	ULTRA SHORT		Metric: Ø20.0mm, Ø32.0mm Inch : Ø3/4, Ø1-1/4		
	GRINDING		Metric: Ø6.0mm - Ø32.0mm	For grinding machine	
SHRINK FIT HOLDER	STANDARD		Metric: Ø3.0mm - Ø25.0mm Inch : Ø1/8 - Ø1-1/4	Fine Finishing for Electronics, Die & Mold, Automotive and Aerospace products	Strong clamping power To use carbide tool Need heating & cooling equipment
	REINFORCED		Metric: Ø6.0mm - Ø20.0mm Inch : Ø1/4 - Ø3/4		Rigid body design
	CURVED		Metric: Ø4.0mm - Ø12.0mm Inch : Ø1/8 - Ø1/2		Steep & deep area machining Rigidity in neck of flange
	EXTRA SLIM		Metric: Ø3.0mm - Ø12.0mm		Steep & deep area machining
ER COLLET CHUCK	STANDARD		Metric: Ø0.5mm - Ø34.0mm Inch : Ø.019 - Ø1.180	Finishing for Machinery, Electronics and Automotive products	To cover wide range of machining To use various size of tool by use of collet
END MILL HOLDER & SIDE LOCK ARBORS	STANDARD		Metric: Ø6.0mm - Ø50.0mm Inch : Ø1/8 - Ø2	Roughing, Finishing for Machinery, Die & Mold and Automotive products	Suitable Roughing, Finishing Need to select proper tool by tool shank type
	SHORT TYPE		Metric: Ø16.0mm, Ø20.0mm, Ø25.0mm, Ø32.0mm Inch : Ø1/2, Ø5/8, Ø3/4, Ø1.0, Ø1.25		
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR		DIN 2080 (ISO)	Metric: Ø16.0mm, Ø22.0mm, Ø27.0mm Ø32.0mm, Ø40.0mm Inch : Ø1/2, Ø3/4, Ø1, Ø1.25, Ø1.5, Ø2	Heavy Cutting, Roughing, Finishing for Die & Mold and side cutting	To use with milling cutter
MILLING CHUCK	POWER MILLING, HIGH SPEED MILLING	DIN228 (MT)	Metric: Ø20.0mm, Ø25.0mm, Ø32.0mm, Ø42.0mm Inch : Ø3/4, Ø1.0, Ø1.25	Heavy Cutting, Roughing, Finishing for Machinery, Die & Mold and Automotive products	To cover wide range of machining To use various size of tool with the collet
MORSE TAPER ARBOR		JIS B6339 (BT)	MT 1/2/3/4	Holemaking for Machinery, Die & Mold and Automotive products	Two kinds of type, MTA and MTB
SK SLIM CHUCK		ASME B5.50 (CAT)	Metric: Ø2.0mm - Ø25.0mm Inch : Ø.036 - Ø1	Finishing for Machinery, Electronics and Automotive products	Better accuracy & Clamping force
SYNCHRO TAPPING CHUCK	ER COLLET TYPE	BT/CAT Dual Contact	Metric: M3 - M33 Inch : #0-80 UNF - 1-12 UNF	Tapping for Electronics, Machinery, Automotive and Aerospace products	High precision tapping by minimizing synchronous error with axial compensation ER collet type
	QUICK CHANGE TYPE		Metric: M3 - M25 Inch : #0-80 UNF - 1-12 UNF		High precision tapping by minimizing synchronous error with axial compensation Tap adaptor type
QUICK CHANGE TAPPING CHUCK	ONE STEP TAPPING		M3 - M36	Tapping for Electronics, Machinery, Automotive and Aerospace For the chucking of inserts for threading taps	Shorter Gauge Line Compression plus tap removal at one step Better accuracy than conventional chuck Tap adaptor type
TAPPING CHUCK	ER COLLET TYPE		Metric: M3 - M20 Inch : #0-80 UNF - 1-12 UNF	Tapping for Electronics, Machinery, Automotive and Aerospace products	To use the same collet for an ER collet chuck with tension and compression functions
	QUICK CHANGE TYPE		Metric: M3 - M38 Inch : #0-80 UNF - 1-3/8 12 UNF		To use the same tap adaptor for a tap chuck with tension and compression functions
FACE MILL ARBOR			Metric: Ø16.0 - Ø32.0mm Inch : Ø1 - Ø2	Roughing, Finishing for machinery products	To use with face milling cutter
NC DRILL CHUCK	HEX. KEY TYPE		Metric: Ø0.3mm - Ø13.0mm Inch : Ø.012 - Ø.512	Drilling for Machinery and Electronics products	HEX. Key drill chuck Clamping / unclamping by HEX. Wrench
	KEYLESS TYPE		Metric: Ø0.3mm - Ø13.0mm Inch : Ø.012 - Ø.512		KEYLESS NPU drill chuck Clamping / unclamping by spanner
BORING SYSTEM			Metric: Ø20.0mm - Ø154.0mm	Boring for Automotive, Aerospace and Ship-building products	Modular construction To use ISO standard insert
COPY MILL ARBOR			M5 - M16	Assemble screw-in milling cutters with thread Roughing, Finishing	Simple & Fast tool change High-Performance with cost efficiency
INDEXABLE DRILL HOLDER			Metric: Ø20.0mm, Ø25.0mm, Ø32.0mm, Ø40.0mm	For carbon steels, Alloy Steels and Cast Iron	Able to use with YG-1 i-ONE DRILLS Secure and quick clamping High-Performance with cost efficiency

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