



品質創造信譽 信譽保證品質

Quality creates reputation; reputation ensures quality.

About SYIC

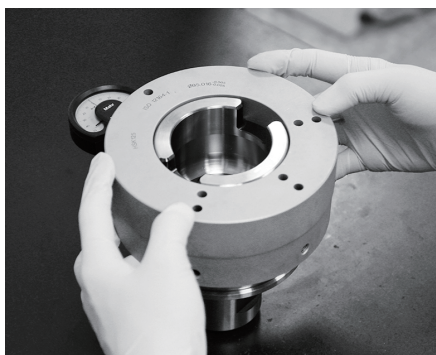
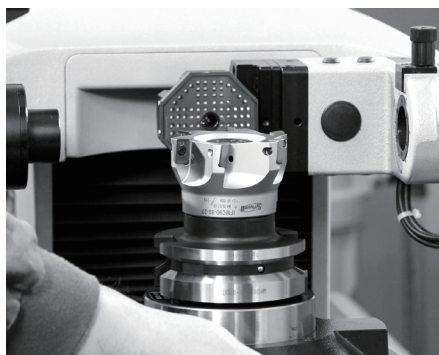
Established in 1979, SYIC is a professional manufacturer of precise tool holders, cutting tools, angel heads, boring series and collets with more than 500 employees. The taper types of tool holders we manufacture include BMT, BT (ISO 7388-2 & MAS 403), CAT (ANSI B5.50), DAT (ISO 7388-1 & DIN 69871-A), HSK (ISO 12164), PSC (ISO 26623), VDI (DIN ISO 10889) and straight shank holders.

SYIC is certified to ISO9001 and ISO14001. With contribution to the design, production and sale of high accuracy and inventive products, SYIC has over 300 pieces of patents worldwide. SYIC keeps investing in high-end equipment and measuring instruments from Japan and Europe to implement excellent quality control and manufacturing capability.

SYIC keeps the core value "Quality creates reputation; reputation ensures quality" to impress our customers, possessing professional technical skills to provide comprehensive solutions for customers, improving customers' machining efficiency, and enhancing the mutual competitiveness with customers. Based on the mission of "Excellent service, supreme quality," SYIC will continue to launch more high precision products to customers.



N



Tool Holders

Your reliable partner!

————— CNC turning, milling and grinding —————

BMT
PSC
HSK
SBT
SCAT
SDAT
**Premium
Quality**

www.syic.com

供需平衡 共榮共存

Maintain the balance of suppliers and customers and grow together.

未來之路 無限寬廣

Create a great future with infinite opportunities.

營運獲利 永續經營

Run a profitable company with sustainable development.

合作到底 共創通贏

Keep everlasting cooperation and together create a win-win situation.

成就彼此 榮耀一切

Support each other and accomplish mutual success.

人力提昇

Capability improvement

思維清晰

Clear thinking

觀念正面

Positive mindset

心態健全

A sound mind

能力卓越

Excellent ability



Innovation is our mission!

SYIC is committed to developing high precision products to optimize the machining process and offering professional technical service. With experienced technical professionals, our products are developed in response to different types of industries. We aim to achieve customers' demands from different industries including machining industry, mold and die industry, aerospace industry, automotive industry, and energy industry. We offer the most professional and technical service, effectively resolve your machining problems to create maximum production efficiency.

ER-AVX

ANTI-ROTATION X SYSTEM



- **Hexagonal Locking Structure**
Effectively prevents rotation and slippage, ensuring stability.
- **Maximum Strength Design**
Enhances overall rigidity and ensures reliable performance.
- **Precision Tolerance Control**
Provides more stable cutting tolerances and extends tool life.
- **Efficient Machining Options**
Optimizes either tool life or cutting parameters for higher productivity.
- **Modular Design**
Saves purchasing costs and improves tool management efficiency.



Product Application & Compatibility



Blank



CMAP.CIAP
Indexable End Mill Cutter



PRO-E-M
Collet Chuck



SCA-C
Side Cutter Adapter



SFC
Shrink Fit Chuck

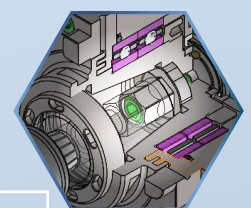


Hex Positioning Tang

OR



Oval-Shaped Tang



Machining Center

Multi-Tasking Machine



- 1.PRO-E UM Excellent Collet Chuck
- 2.ER Tool Holder
- 3.PRO-E Excellent Collet Chuck
- 4.ERUS Ultra Short Tool Holder
- 5.Angle Head Holder for Medium Cutting



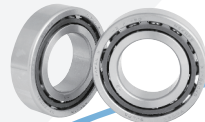
BMT Driven Tool Holder

SAM-HSC ANGLE HEAD HOLDER



- ▶ Max. revolution: 8,000rpm.
- ▶ Max. coolant pressure: 20 Bar.
- ▶ Max. torque: 20N-m.
- ▶ Suggested $A_p \leq 2\text{mm}$.

Ground Gear
JIS B1704 : 1978 : 2



Japanese-made Bearing
Precision: P4

Coolant feed through spindle

Coolant dowel pin



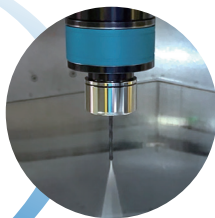
Are you struggling with the challenges of deep hole machining and short tool life?

***“HSC High Revolution & High Coolant Pressure Type”
Angle Head and OHER Oil Hole Collet Chuck***

*are your best solutions for overcoming **deep hole machining** problems!*



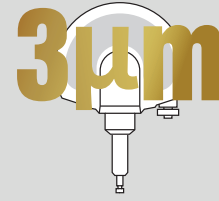
Japanese-made Bearing
Precision: P4



- ▶ Max. revolution: 8,000rpm.
- ▶ Max. coolant pressure: 20 Bar.
- ▶ Center distance (S): 55mm & 65mm.
- ▶ Separated design of the bearing and coolant system helps prevent metal chips and dust from entering the bearing area, extending the use life.



OHER OIL HOLE COLLET CHUCK



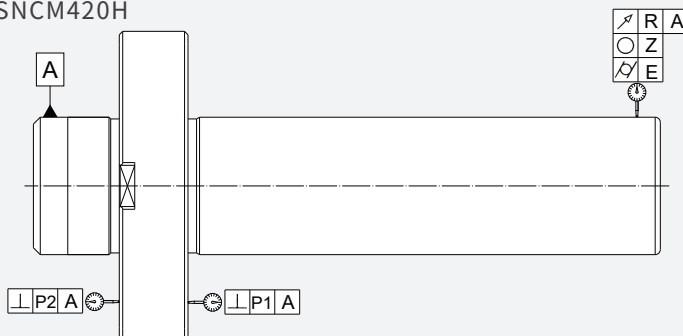
BMT TURRET MASTER BAR

PRECISION TYPE

Regular inspection of machine turret is an extremely important step to realize high precision machining!



Material : SNCM420H



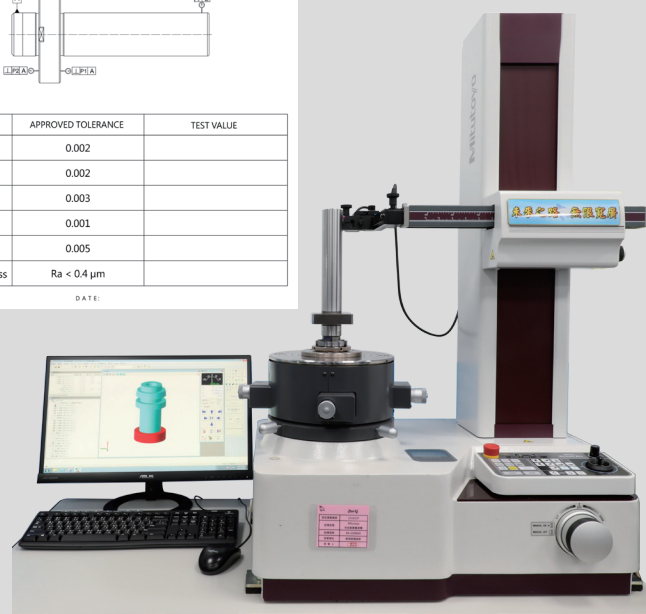
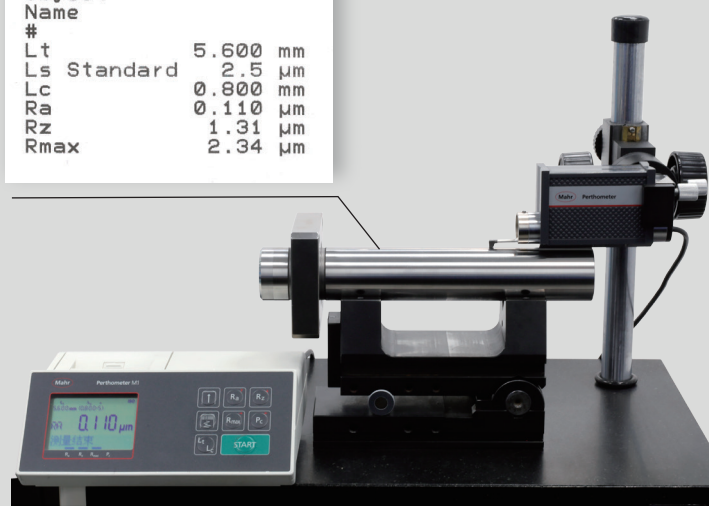
ROUNDNESS	1μm
SURFACE ROUGHNESS	Ra < 0.15μm
RUNOUT ACCURACY	3μm
CYLINDRICITY	5μm

100% GUARANTEED PRECISION:

Every BMT turret master bar is inspected with high precision instrument and delivered with an inspection report. 100% quality guaranteed !

Perthometer M1	
Object Name	
#	
Lt	5.600 mm
Ls Standard	2.5 μm
Lc	0.800 mm
Ra	0.110 μm
Rz	1.31 μm
Rmax	2.34 μm

SYIC Inspection Report		
COMMODITY : TYPE :		
Unit : mm		
ITEM EXAMINED	APPROVED TOLERANCE	TEST VALUE
P1	0.002	
P2	0.002	
R	0.003	
Z	0.001	
E	0.005	
Surface roughness	Ra < 0.4 μm	
Operator :		DATE :





What are the benefits of using BMT Turret Master Bar?

- 1 Optimal for checking machine turret accuracy.
- 2 Checking turret accuracy maximizes machining performance and increases productivity.
- 3 Ensures the machining precision and prolongs the tool life.
- 4 Helps detect potential problems of turret/equipment and saves downtime and costly repair cost.

Machining Performance ↑

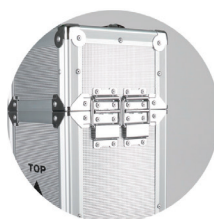
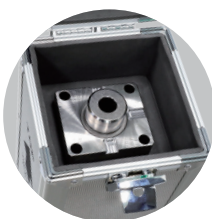
Tool Life ↑

Machining Productivity

Recommendation of storage:

It's recommended to store in stock vertically to prevent deformation.

Every BMT turret master bar is delivered with an aluminum box for vertical storage.



ER COLLET SERIES



ER Collet



ER-E High Precision Collet
(W/sealed, coolant types)



ERS Metallic Collet
(W/sealed, coolant types)



ER-ES Steel Sealed Collet



ER-TC Rigid Tap Collet
(W/sealed, coolant types)



ER-TIO Multi-Coolant Rigid Tap Collet



ER Floating Tap Collet

Coolant Collet Introduction



FID Coolant Groove Type:

- ▶ The coolant fluid outlet is through the internal grooves of the collet and goes parallel with the tool thus there is no tool effective length limit.
- ▶ Precision cooling, eliminates workpiece thermal distortion, and reduces pre-measurement waiting time.



FOD Coolant Hole Type:

- ▶ The coolant fluid outlet is directed through three coolant holes pointing towards the center of the tool, suitable for tools with 2.7DL~3.5DL.
- ▶ Precision cooling, eliminates workpiece thermal distortion, and reduces pre-measurement waiting time.



TIO Multi-Coolant Type:

- ▶ Two cutting fluid supply methods are provided simultaneously, ensuring precise spraying of the fluid to the cutting point.
- ▶ Increase the cutting fluid flow rate to provide more effective cooling.
- ▶ Precision cooling, eliminates workpiece thermal distortion, and reduces pre-measurement waiting time.

Recommended Tool Holder



PRO-E Excellent Collet Chuck

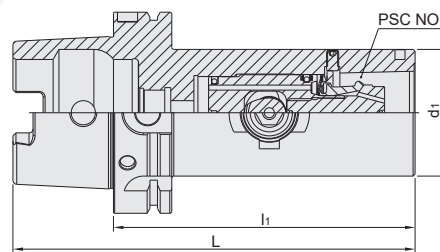
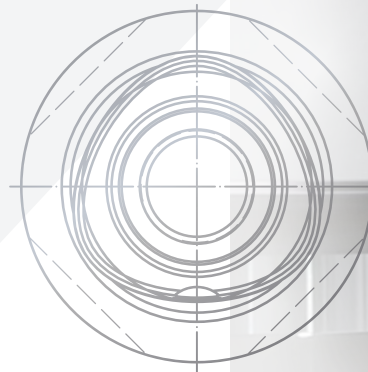
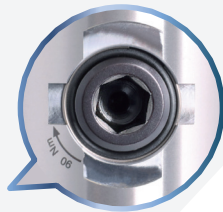


PRO-E Excellent Collet Chuck UM Type



PRO-E Excellent Collet Chuck M Type

HANDLE QUICK CHANGE ADAPTER



FOR PSC EXTERNAL TURNING TOOLS



★ These types can be used with PSC turning tools for turning when the machine spindle is equipped with a positioning system or a clutch tooth mechanism.

SHANK	MODEL NO.	TYPE	NO.	L	l ₁	d ₁	TORQUE		WEIGHT (KGS)
							Nm	ft.lbs	
★ DaulDRIVE+	5027-016-143-150	SBT50 x PSC63 - 150HQC	PSC63	251.8	150	63	90	67	5.67
	5027-016-143-200	SBT50 x PSC63 - 200HQC	PSC63	301.8	200	63	90	67	6.75
★ DaulDRIVE+	5067-016-143-150	SDAT50 x PSC63 - 150HQC	PSC63	251.75	150	63	90	67	5.15
	5067-016-143-200	SDAT50 x PSC63 - 200HQC	PSC63	301.75	200	63	90	67	6.20
★ ISO 12164-1	5075-016-143-150	HSK100A x PSC63 - 150HQC	PSC63	200	150	63	90	67	4.40
	5075-016-143-200	HSK100A x PSC63 - 200HQC	PSC63	250	200	63	90	67	5.45
ISO 12164-3	575T-016-143-150	HSK-T100 x PSC63 - 150HQC	PSC63	200	150	63	90	67	4.40
	575T-016-143-200	HSK-T100 x PSC63 - 200HQC	PSC63	250	200	63	90	67	5.45

Product Information

- ▶ The HQC adapter is designed with jaw-clamping mechanism, which is different from a screw-tightening design. It only requires a 1/2 turn using a hex wrench to quickly hold and release the tool.
- ▶ Used for machines using non-rotation tools.
- ▶ It can significantly reduce tool change and clamping time when used on a vertical lathe without ATC functionality.
- ▶ PSC interface allows tool measurement offline. It saves the downtime and increases production efficiency.
- ▶ It's center coolant available with coolant pressure durability up to 20 bar.

MEMO



MEMO



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CAT

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DAT

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SCAT DualDRIVE+

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▶ DAT P.C-23	▶ SDAT P.F-21			▶ DAT P.C-24	▶ SDAT P.F-23
▶ HSK-A P.G-32	▶ PSC P.H-63			▶ HSK-A P.G-35~37	▶ PSC P.H-65~67
				▶ NT.MT P.M-8	
SLN SIDE LOCK END MILL HOLDER [JIS TYPE]		SLN SIDE LOCK END MILL HOLDER [FID TYPE]		SLN SIDE LOCK END MILL HOLDER [JIS-FID TYPE]	
					
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▶ HSK-A P.G-38				▶ SBT P.D-46~47	
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		▶ CAT P.B-22	▶ SCAT P.E-21		
		▶ PSC P.H-68	▶ NT P.M-9		

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▶ BT	P.A-42~43	▶ SBT	P.D-50~52	▶ BT	P.A-44
▶ DAT	P.C-25~26	▶ SDAT	P.F-24	▶ SBT	P.D-53
▶ HSK-A	P.G-43~45	▶ PSC	P.H-69	▶ BT	P.A-45
▶ NT.MT	P.M-9				

FACE MILL ARBOR / FMC TYPE		SMA FACE MILL ARBOR		CSR COMBI SHELL END MILL ARBOR	
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▶ DAT	P.C-27	▶ SDAT	P.F-25	▶ SBT	P.D-57
▶ HSK-A	P.G-46	▶ PSC	P.H-70	▶ BT	P.A-49
				▶ HSK-A	P.G-53
				▶ DAT	P.C-30
				▶ NT.MT	P.M-10

SCA-C SIDE CUTTER ADAPTER ADAPTER COOLANT TYPE		SCA SIDE CUTTER ADAPTER		SPH DRILL CHUCK ADAPTER	
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▶ PSC	P.H-76~77	▶ SBT	P.D-64~65	▶ BT	P.A-52
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				▶ SBT	P.D-60
				▶ SCAT	P.E-23
				▶ SDAT	P.F-27
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▶ SCAT	P.E-24	▶ SDAT	P.F-28	▶ DAT	P.C-34
▶ HSK-A	P.G-50	▶ PSC	P.H-75		

OHER OIL HOLE COLLET CHUCK		SOM SCREWED END MILL HOLDER		MTA MORSE TAPER ADAPTER	
					
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		▶ SBT	P.D-66~67	▶ NT.MT	P.M-12

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		▶ CAT	P.B-32	▶ SCAT	P.E-25	▶ CAT	P.B-33	▶ HSK-E	P.G-67
		▶ DAT	P.C-38	▶ SDAT	P.F-29	▶ DAT	P.C-39	▶ HSK-F	P.G-72
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								▶ PSC	P.H-26	▶ VDI	P.J-10

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▶ DAT	P.Q-21~25	▶ SDAT	P.Q-41~44	▶ HSK-F	P.Q-74
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				▶ HSK-A	P.Q-57~58
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SQUARE CUTTER BORING BAR TYPE : 45°		SQUARE CUTTER BORING BAR TYPE : 90°		SAH ANGLE HEAD HOLDER	
					
▶ BT	P.R-54	▶ BT	P.R-55	▶ BT	P.S - 2

SAM ANGLE HEAD HOLDER			SAC ANGLE HEAD HOLDER			SAR ANGLE HEAD HOLDER					
											
▶ BT	P.S - 3、5 7、10、12	▶ SBT	P.S - 4、6 8~9、11、13	▶ BT	P.S-14、17 19、21	▶ SBT	P.S - 15、16 19、20、22	▶ BT	P.S-23~27	▶ SBT	P.S-23~27
▶ CAT	P.S - 3、5 7、10、12	▶ SCAT	P.S - 4、6 8、11、13	▶ CAT	P.S-14、17 19、21	▶ SCAT	P.S-15、18 20、22	▶ CAT	P.S-23~27	▶ SCAT	P.S-23~27
▶ DAT	P.S - 3、5 7、10、12	▶ SDAT	P.S - 4、6 8、11、13	▶ DAT	P.S-14、17 19、21	▶ SDAT	P.S-15、18 20、22	▶ DAT	P.S-23~27	▶ SDAT	P.S-23~27
▶ HSK	P.S - 3、5 7、10、12			▶ HSK	P.S-14、17 19、21						

SAU ANGLE HEAD HOLDER		SHG ANGLE HEAD HOLDER		SAD ANGLE HEAD HOLDER	
					
▶ BT	P.S-28	▶ BT	P.S-29	▶ SBT	P.S-29
▶ CAT	P.S-28			▶ SBT	P.S-30~31
				▶ HSK	P.S-30~31

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SAG ANGLE HEAD HOLDER		SAG-D ANGLE HEAD HOLDER		AWC JIG TOOL HOLDER	
					
▶ BT	PS-32、35	▶ SBT	PS-33、36	▶ BT	PS-37、39
		▶ SBT	PS-38、40	▶ PSC	P.T-2~3
▶ HSK	PS-34			▶ HSK	P.T-2~3
HYDRAULIC TYPE WORKPIECE QUICK CHANGE SYSTEM		MANUAL TYPE WORKPIECE QUICK CHANGE SYSTEM		FLANGE	
					
▶ PSC	P.U-2	▶ PSC	P.U-3	▶ PSC	P.V-3
				▶ FLG	P.V-4~5
FMH-SDG FACE MILL ARBOR		SPROX-SDG COLLET CHUCK		PMB DAMPING FINISH BORING HEAD	
					
▶ RBT	P.W-2~3	▶ HSK	P.W-4~5	▶ RBT	P.W-7
		▶ RBT	P.W-8	▶ HSK	P.W-8
▶ PSC	P.W-6	▶ PSC	P.W-9	▶ PSC	P.W-10

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SRBH-LA DAMPING TWIN-BIT ROUGH BORING HEAD



► **SRBH-LA** P.W-12

SCBH DAMPING FINISH BORING HEAD



► **SCBH** P.W-13

SLBK DAMPING EXTENSION SPACER



► **SLBK** P.W-14

SLBK DAMPING BORING HEAD SHANK



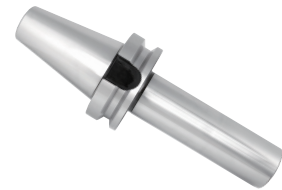
► **BT** P.W-15

SPINDLE TEST BAR



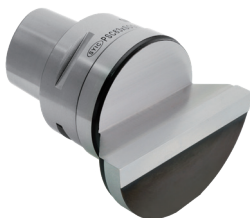
► **BT** P.X-3 ► **HSK-A** P.X-3
 ► **CAT** P.X-3 ► **ISO** P.X-3
 ► **DAT** P.X-3 ► **ER** P.X-4
 ► **MTB** P.X-3

SPINDLE MASTER BAR



► **SBT** P.X-5 ► **PSC** P.X-6
 ► **SCAT** P.X-5 ► **HSK-A** P.X-6
 ► **SDAT** P.X-5 ► **HSK-E** P.X-7
 ► **VDI** P.X-8 ► **HSK-F** P.X-7
 ► **BMT** P.X-9

SOG ORIGIN GAUGE



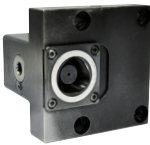
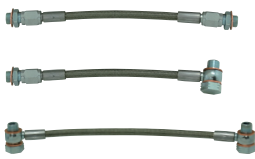
► **PSC** P.X-11 ► **HSK-T** P.X-11
 ► **SBT** P.X-12 ► **SCAT** P.X-12
 ► **SDAT** P.X-12

ATC ALIGNMENT TOOL SET



► **SBT** P.X-13 ► **HSK** P.X-15
 ► **SCAT** P.X-14 ► **PSC** P.X-16
 ► **SDAT** P.X-14

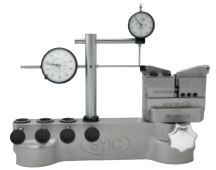
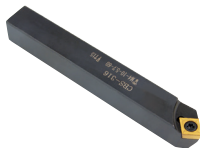
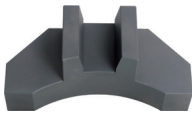
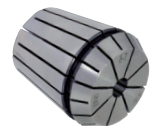
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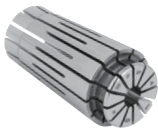
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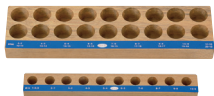
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EBL COLLET CHUCK FULL SET



► [BT.CAT.DAT](#)

P.Y-12