



CLAMPING VISE

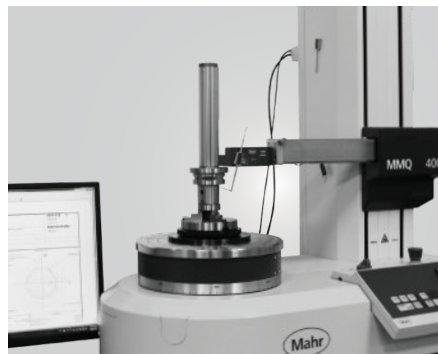
NO.2022-05



www.syic.com



COMPANY INTRODUCTION





品質創造信譽 信譽保證品質

Quality creates reputation; reputation ensures quality.

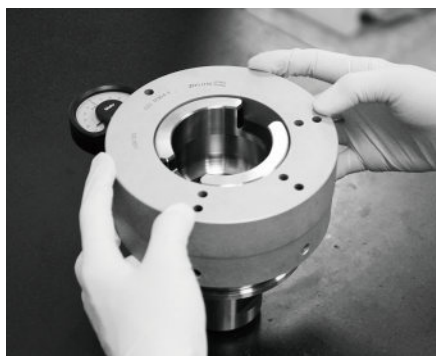
About SYIC

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 BT (MAS403), CAT (ANSI B5.50), DAT (DIN69871-A), HSK (DIN69893), PSC (ISO26623-1), VDI (DIN ISO10889) 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.syc.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

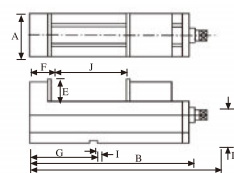
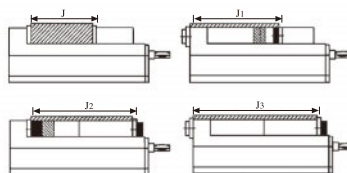
Support each other and accomplish mutual success.

CLAMPING VISE CATEGORY

MC HYDRAULIC & ANGLE LOCK VISE	2
MC COMPACT VISE	2
MC MECHANICAL POWER VISE	3
OPTIONAL JAW PLATES	4~5
MC PRESSURE CONSTANT POWER VISE	6
MINI VISE	7
SCV SELF CENTRING VISE	8
SCV127 SELF CENTRING VISE	9

MC HYDRAULIC & ANGLE LOCK VISE

MC 精密油壓虎鉗

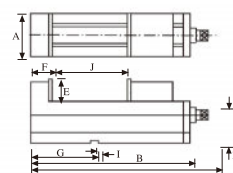
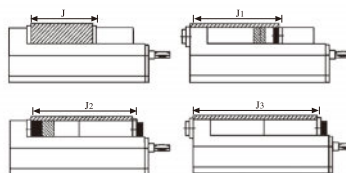


Hydraulic Type

MODEL NO.	TYPE	A	B	C	D	E	F	G	I	JAW OPENING (Max.)				CLAMPING FORCE (kgf)	WEIGHT (KGS)
										J	J1	J2	J3		
408-007-010	BHV - 100V	101	380	480	85	48	80	125	16	135	200	240	330	4000	27
408-007-011	BHV - 130V	131	445	545	95	55	85	150	18	190	250	300	390	5000	40
408-007-012	BHV - 160V	161	535	635	105	58	100	165	18	250	330	370	480	5500	58
408-007-145	BHV - 160VL	161	585	685	105	58	100	165	18	300	380	420	530	5500	62
408-007-013	BHV - 200V	201	610	710	110	63	108	190	18	300	370	430	550	6900	81

MC COMPACT VISE

MC 精密機械式虎鉗



Mechanical type

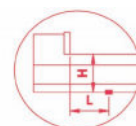
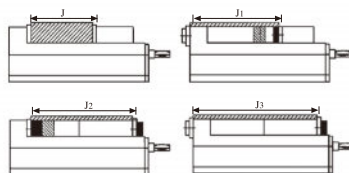
MODEL NO.	TYPE	A	B	C	D	E	F	G	I	JAW OPENING (Max.)				WEIGHT (KGS)
										J	J1	J2	J3	
408-007-023	BV - 100V	101	380	440	85	48	80	125	16	135	200	240	330	26
408-007-024	BV - 130V	131	445	505	95	55	85	150	18	190	250	300	390	39
408-007-026	BV - 160V	161	535	595	105	58	100	165	18	250	330	370	480	59
408-007-027	BV - 160VL	161	585	645	105	58	100	165	18	300	380	420	530	61
408-007-028	BV - 200V	201	610	670	110	63	108	190	18	300	370	430	550	80

Features:

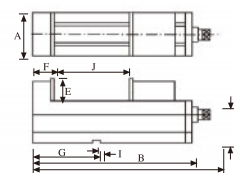
- ▶ One piece casting of vise bed and flexed jaw.
- ▶ Down thrust "Semis-sphere Segment" mechanism-eliminates jaw life and work tilt.
- ▶ Rigid material-vise body of ductile iron FCD60JIS (equal to GGG60) with 60 kgs/mm² or 80,000 psi tensile strength.
- ▶ Vise bed flame with harden treatment up to HRC45 and up takes up wear and maintain for long.

MC MECHANICAL POWER VISE

MC 精密倍力虎鉗



Paralleling

Angle Lock
(prevent lifting)

MC Mechanical Power Vise

MODEL NO.	TYPE	A	B	C	D	E	F	G	I	JAW OPENING (Max.)				CLAMPING FORCE (kgf)	WEIGHT (KGS)
408-007-015	BMV - 100V	101	400	490	85	48	80	125	16	155	200	240	330	3000	27
408-007-016	BMV - 130V	131	465	555	95	55	85	150	18	230	250	300	390	3500	40
408-007-017	BMV - 160V	161	555	645	105	58	100	165	18	300	330	370	480	4000	60
408-007-018	BMV - 160VL	161	615	705	105	58	100	165	18	350	380	420	530	4000	62
408-007-019	BMV - 200V	201	630	720	110	63	108	190	18	340	370	430	550	4500	81

Accuracy testing standard for BHV, BV and BMV vises:

NO	Item	JIS grade 1	Guaranteed		
1	Vise side-lock on bottom slide way square	0.020 100mm	0.010 100mm		
2	Keyways on bottom of vise bed square to clamping surface of jaw plate	0.020 100mm	0.015 100mm		
3	Both jaw plate parallel	0.020 100mm	0.020 100mm		
4	Max opening test block parallel to bottom of vise body	0.050 100mm	0.030 100mm		
5	Top of rectangular test block clamped tightly by jaw parallel to bottom of vise body	0.030 100mm	0.020 100mm		
6	Surface of vise bed parallel to bottom of vise body	0.020	0.015		

Features:

- ▶ One piece casting of vise bed and flexed jaw.
- ▶ Down thrust "Semis-sphere Segment" mechanism-eliminates jaw life and work tilt.
- ▶ Rigid material-vise body of ductile iron FCD60JIS (equal to GGG60) with 60 kgs/mm² or 80,000 psi tensile strength.
- ▶ Vise bed flame with harden treatment up to HRC45 and up takes up wear and maintain for long.

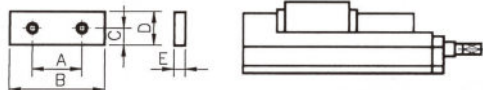


Optional Jaw Plates For BHV, BV, BMV, Vise

MODEL:HJ,LJ,VJ,TJ,SJ

Unit/mm

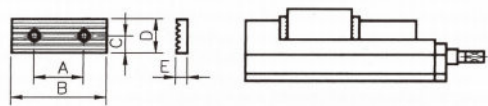
HJ-100, 130, 160, 200 ●



HJ	408-007-A01	408-007-A02	408-007-A03	408-007-A04
	100	130	160	200
A	60	90	90	120
B	100	130	160	200
C	22	25	25	28
D	48	55	58	63
E	15	15	15	18
WEIGHT (KGS)	1.00	1.60	2.10	3.50

Unit/mm

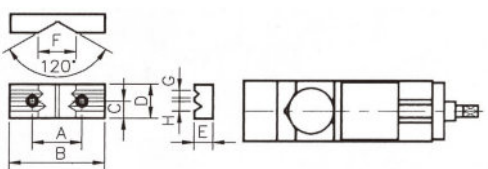
LJ-100, 130, 160, 200 ●



LJ	408-007-A05	408-007-A06	408-007-A07	408-007-A08
	100	130	160	200
A	60	90	90	120
B	100	130	160	200
C	22	25	25	28
D	48	55	58	63
E	15	15	15	18
WEIGHT (KGS)	1.00	1.60	2.10	3.50

Unit/mm

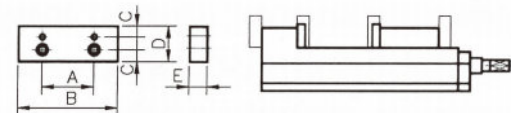
VJ-100, 130, 160, 200 ●



VJ	408-007-A09	408-007-A10	408-007-A11	408-007-A12
	100	130	160	200
A	60	90	90	120
B	100	130	160	200
C	22	25	25	28
D	48	55	58	63
E	30	32	32	40
WEIGHT (KGS)	0.90	1.40	1.80	3.80

Unit/mm

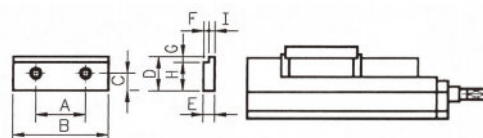
TJ-100,130,160,200 ●



TJ	408-007-A13	408-007-A14	408-007-A15	408-007-A16
	100	130	160	200
A	60	90	90	120
B	100	130	160	200
C	22	25	25	28
D	64	69	74	88
E	21	24	24	31
WEIGHT (KGS)	1.90	4.00	5.00	8.60

Unit/mm

SJ-100,130,160,200 ●

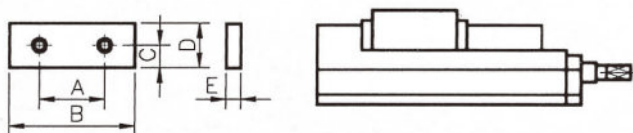


SJ	408-007-A17	408-007-A18	408-007-A19	408-007-A20
	100	130	160	200
A	60	90	90	120
B	100	130	160	200
C	22	25	25	28
D	48	55	58	63
E	15	15	15	18
F	5	5	5	5
J	5	5	5	5
H	43	50	53	58
I	10	10	10	13
WEIGHT (KGS)	1.00	1.60	2.10	3.50

Optional Jaw Plates For BHV, BV, BMV, Vise

MODEL:FJ

FJ-1001, 1301, 1601, 2001
 FJ-1002, 1302, 1602, 2002
 FJ-1003, 1303, 1603, 2003
 FJ-1004, 1304, 1604, 2004
 FJ-1005, 1305, 1605, 2005



Unit/mm

FJ	408-007-A21	408-007-A22	408-007-A23	408-007-A24	408-007-A25	408-007-A26	408-007-A27	408-007-A28	408-007-A29	408-007-A30
	1001	1002	1003	1004	1005	1301	1302	1303	1304	1305
A	60	60	60	60	60	90	90	90	90	90
B	100	100	100	100	130	130	130	130	130	130
C	22	22	22	22	22	25	25	25	25	25
D	48	63	73	48	63	55	73	103	63	73
E	15	21	23	48	48	15	23	30	48	48
F	M10	M10	M10	M10	M10	M10	M10	M10	M10	M10
FJ	408-007-A31	408-007-A32	408-007-A33	408-007-A34	408-007-A35	408-007-A36	408-007-A37	408-007-A38	408-007-329	408-007-A40
	1601	1602	1603	1604	1605	2001	2002	2003	2004	2005
A	90	90	90	90	90	120	120	120	120	120
B	160	160	160	160	160	200	200	200	200	200
C	25	25	25	25	25	28	28	28	28	28
D	58	73	103	63	73	63	103	123	63	102
E	15	23	30	48	48	18	30	37	63	63
F	M10	M10	M10	M10	M10	M12	M12	M12	M12	M12

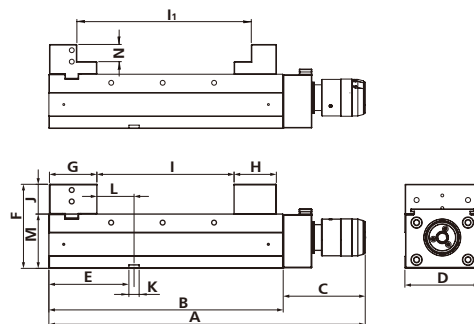


MC PRESSURE CONSTANT POWER VISE

定壓式精密倍力虎鉗



EPVS



MODEL NO.	TYPE	A	B	C	D	E	F	G	H	I	I1	J	K	L	M	N	WEIGHT (KGS)
408-007-141	EPV - 130VS	564	410	144	131	149	147	83	74	235	300	52	18	65	95	30	42
408-007-140	EPV - 160VS	601	477	124	161	152	160	86	86	300	370	55	18	65	105	30	60
408-007-142	EPV - 160VLS	805	681	124	161	152	160	86	86	500	570	55	18	65	105	30	81.5
408-007-143	EPV - 200VS	676	552	124	201	194	170	100	97	350	426	60	18	93	110	30	84
408-007-144	EPV - 200VLS	830	706	124	201	194	170	100	97	500	576	60	18	93	110	30	100

Features:

- ▶ Rigid material-vise body of ductile iron FCD60JIS (equal to GGG60) with 60 kgs/mm² or 80,000 psi tensile strength.
- ▶ The slide ways are heat treated to HRC45 and that can provide the high accuracy and long service life.
- ▶ Fixed Height, EPV vises can be used 2 or more together.
- ▶ EPV vise is suitable for CNC Vertical & Horizontal Machine Center.
- ▶ Exchangeable jaws: quick & easy replacement.
- ▶ 4-Step Pressure Constant device.



MINI VISE

MV - A 迷你虎鉗

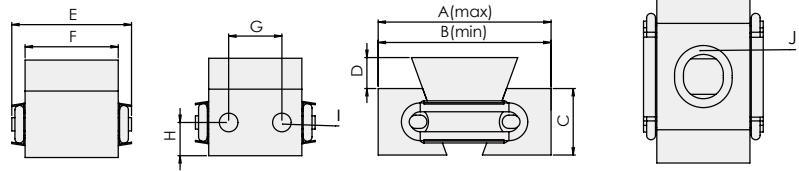
Fig.1



Fig.2

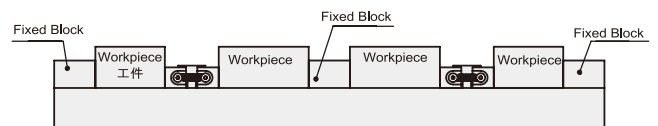
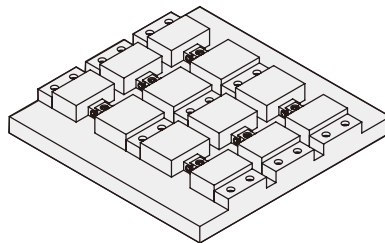
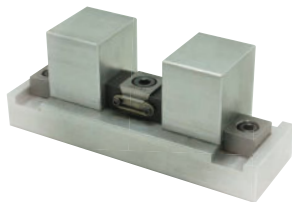


Fig.3



MODEL NO.	TYPE	A	B	C	D	E	F	G	H	I	J	Fig.	WEIGHT (KGS)
408-007-104	MV-A1	39	43	15	1.5	32	21	12	7.5	M5	M8	3	0.11
408-007-105	MV-A2	45	51	22	3	40	30	18	11	M5	M12	3	0.25
408-007-148	MV-A0C	24.5	26.5	11	1.5	21.5	15	-	-	-	M5	2	0.04
408-007-152	MV-A1C	39	43	15	1.5	32	21	-	-	-	M8	2	0.11
408-007-153	MV-A2C	45	51	22	3	40	30	-	-	-	M12	2	0.25
408-007-149	MV-A0F	24.5	26.5	11	1.5	21.5	15	-	-	-	M5	1	0.04
408-007-150	MV-A1F	39	43	15	1.5	32	21	-	-	-	M8	1	0.11
408-007-151	MV-A2F	45	51	22	3	40	30	-	-	-	M12	1	0.25

Illustration for example:



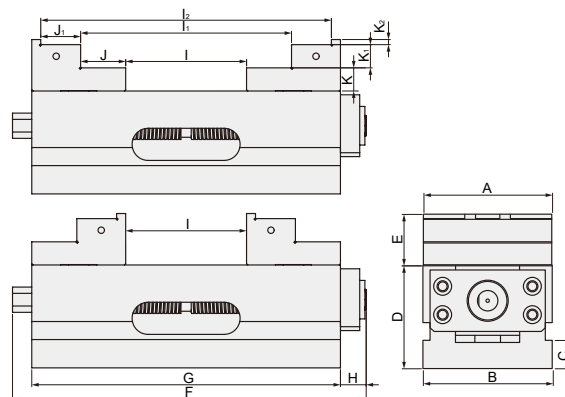
Features:

- ▶ Mini-Vise reduces the time of changing jigs and helps reduce the production cost.
- ▶ Mini-Vise is applicable for various machine work tables.
- ▶ When using Mini-Vise, please pay attention to the accuracy of fixed block, which would affect the accuracy of machining workpiece.

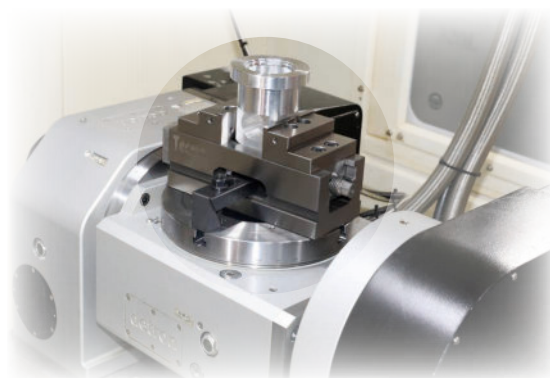
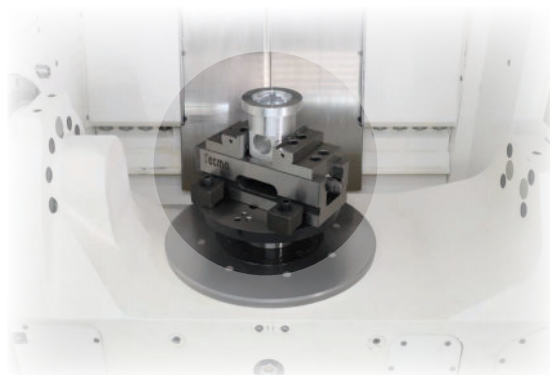


SCV SELF CENTRING VISE

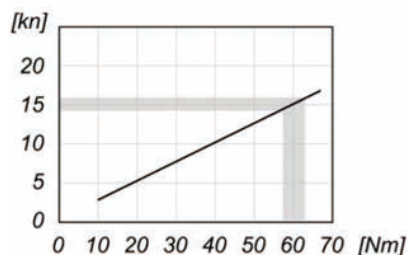
SCV 同動求心虎鉗



MODEL NO.	TYPE	A	B	C	D	E	F	G	H	L	I ₁	I ₂	J	J ₁	K	K ₁	K ₂	WEIGHT (KGS)
408-007-112	SCV - 60	59	60	18	60	25	143	120	13	0 - 50	38 - 85	-	17.5	-	12.5	12.5	-	4
408-007-109	SCV - 100	100	101	22	80	40	275	240	20	0 - 90	70 - 160	134 - 222	35	31	18	18	4	17
408-007-111	SCV - 160	160	161	22	105	55	440	370	70	0 - 200	86 - 285	-	42.5	-	27.5	27.5	-	47

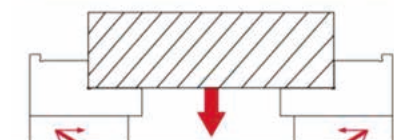


夾持曲線圖
(CLAMPING CURVE)



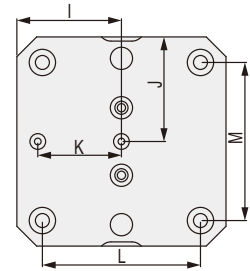
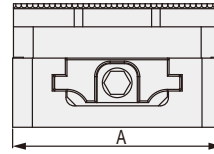
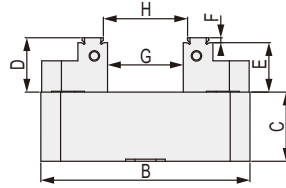
Features:

- ▶ Applicable for 4-axis and 5-axis machines, horizontal and vertical CNC machines.
- ▶ The center repeated positional precision is $\pm 0.01\text{mm}$ (Please use a torque wrench).
- ▶ The body of vise is made of cast iron FCD60 (GGG 60). By high-frequency heat treatment above HRC45, the slideway has high wear resistance and long use life.
- ▶ The jaw is made by steel, the hardness is higher than HRC55 with heat treatment. Both sides of jaw can be used, excellent exchangeability and diversity.
- ▶ Due to the special design, self centring precision vise generates downward pressure to avoid the workpiece from bending upward during the process of clamping or machining. High clamping force.

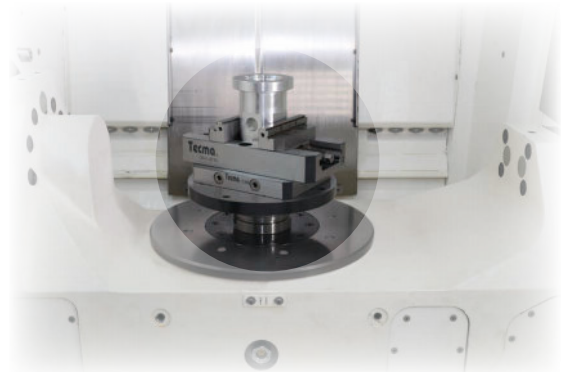


SCV127 SELF CENTRING VISE

SCV127 同動求心虎鉗



MODEL NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	L	M	WEIGHT (KGS)
408-007-150	SCV764	76	102	35	21	18.5	2.5	45	49	51	38	30	52	52	3.5
408-007-146	SCV1275	127	127	42	33	30	2.5	47	52	63.5	63.5	50.8	96	96	6.5
408-007-110	SCV1276	127	153	42	33	30	2.5	73	78	76.5	63.5	50.8	96	96	7.0
408-007-147	SCV1278	127	210	42	33	30	2.5	130	135	105.5	63.5	50.8	96	96	8.5
408-007-151	SCV12710	127	255	42	33	30	2.5	175	180	127.5	63.5	50.8	96	96	10.5
408-007-152	SCV15010	150	255	57	37	34	2.5	143	148	127.5	75	100	96	96	17.0



Features:

- ▶ Applicable for 4 axis and 5 axis machines, horizontal and vertical CNC machines.
- ▶ The center repeated positional precision is $\pm 0.01\text{mm}$ (Please use a torque wrench).
- ▶ The body of vise is made of alloy steel. By high-frequency heat treatment above HRC45, the slideway has high wear resistance and long use life.
- ▶ The jaw is made by steel, the hardness is higher than HRC55° with heat treatment. Both sides of jaw can be used, excellent exchangeability and diversity.



MEMO

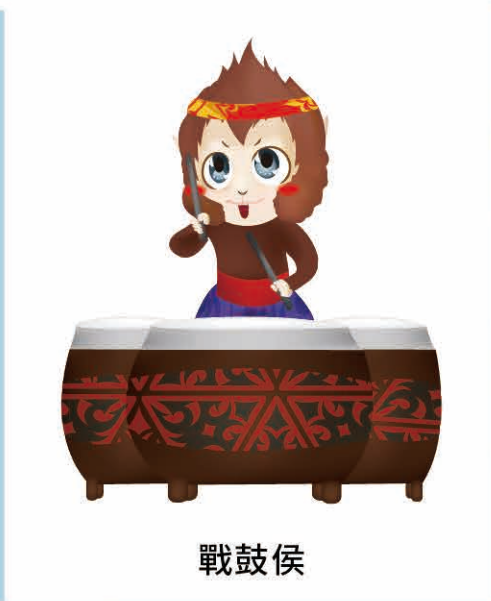


MEMO





智能侯



戰鼓侯



學識侯



俠客侯



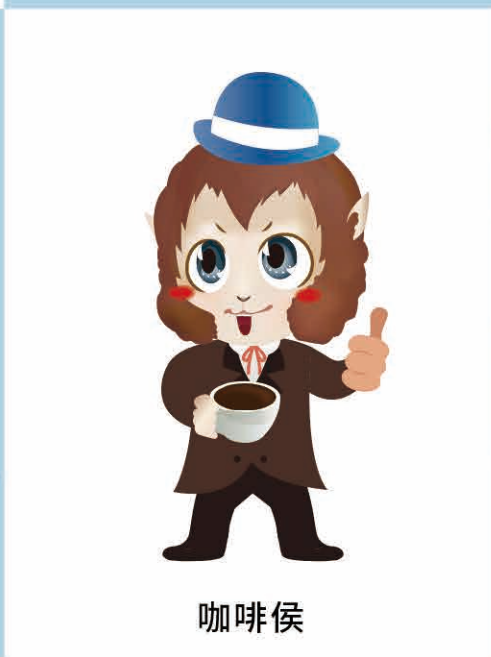
勝侯王



登山侯



慢跑侯



咖啡侯



鐵馬侯



www.syic.com



SHIN-YAIN INDUSTRIAL CO., LTD.
No.198, Jingpu Rd., Qingshui Dist., Taichung City 436, Taiwan
Tel: +886-4-26237575 | Fax: +886-4-26237676 | E-mail: sales@syic.com

