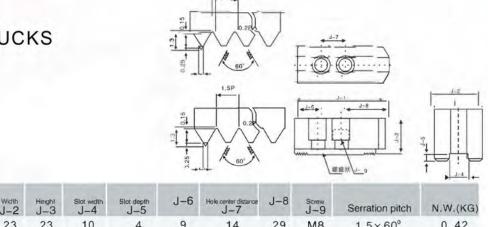


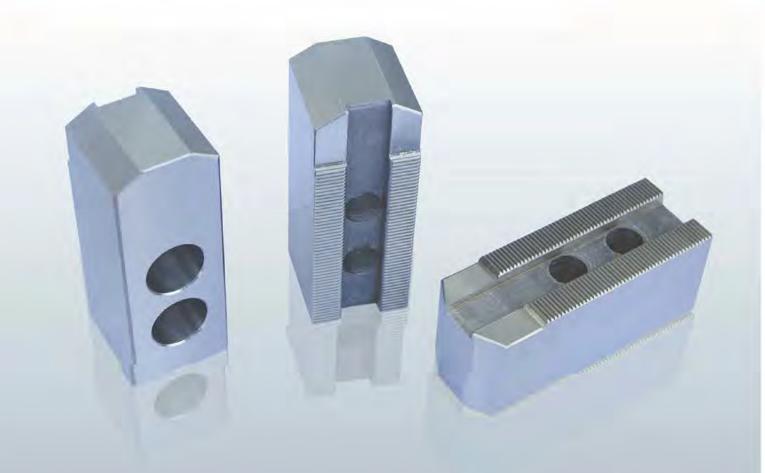


ICE is a high-tech engineering group specializing in tooling and hard material technologies

TOOLING FOR THE FUTURE

#### SOFT JAWS FOR HYDRAULIC CHUCKS





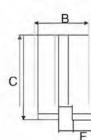
	Specif	ication					, -	. 60		/	銀商X 2-9	1 , 14
SPEC/SIZ	Œ.	Length	Width J-2	Height J-3	Slot width	Slot depth	J-6	Hole center distance J-7	J-8	Screw J-9	Serration pitch	N.W.(KG)
SC-04		53	23	23	10	4	9	14	29	M8	1.5×60°	0.42
SC-05		62	25	30	10	4	10	14	38	M8	$1.5 \times 60^{\circ}$	0. 85
SC-06		73	31	36	12	5	15	20	38	M10	$1.5 \times 60^{\circ}$ $3.0 \times 60^{\circ}$	1.5
SC-08		95	35	38	14	5	24	25	46	M12	$1.5 \times 60^{\circ}$ $3.0 \times 60^{\circ}$	2. 4
SC-10		110	40	42	16	5	30	30	50	M12	$1.5 \times 60^{\circ}$ $3.0 \times 60^{\circ}$	3. 6
SC-12		129	50	50	21	6	39	30	60	M16	1.5 × 60° 3.0 × 60°	6. 1
SC-12		129	50	50	18	6	39	30	60	M14	1.5 × 60° 3.0 × 60°	6.2
SC-15	18"	165	62	62	22	8	37	43	85	M20	1.5 × 60° 3.0 × 60°	12.5
SC-15	18"	165	62	62	25.5(26)	6(9)	37	43	85	M20	1.5 × 60° 3.0 × 60°	12.5
SC-24 21	"	180	65	70	25	9	40	60	80	M20	$3.0 \times 60^{\circ}$	16. 2
SC-32		210	74	90	25	9	40	80	90	M20	$3.0 \times 60^{\circ}$	29.2
SC-40		270	85	110	30	4		76.2		M24		
SC-50		270	85	110	30	4		76.2		M24		
SC-63		270	110	110	30	4		76.2		M24		
SC-79		270	110	110	30	4		76.2		M24		

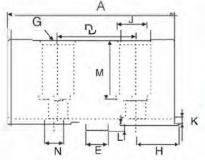
#### SOFT JAWS FOR SCROLL CHUCK









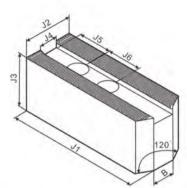


Specification
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SPEC. MODEL	Length A	Width	Height C	D	Slot width	Slot depth	Screw G	Н	J	K	L	М	N	G.W.(KG)
CP-04	52	19	30	24	9.53	7.94	M6x1.0P	14	11	3	2.5	21	7	0.45
CP-05	62	24	35	32	12.68	7.94	M8x1.25P	15	14	3.5	3	24	9	0.9
CP-06	73	26	37	38.1	12.68	7.94	M8x1.25P	17	14	3.5	3	25	9	1.2
CP-07(08)	95	31	48	44.45	12.68	7.94	M10x1.5P	25.3	17	3.8	3	34	11	2.65
CP-09(10)	110	37	48	53.98	19.03	12.7	M12x1.75P	28	19	4.2	3	34	13	3.8
CP-12	125	42	54	63.5	19.03	12.7	M12x1.75P	31	19	4.2	3	38	13	5.3
CP-16	160	50	70	76.2	19.03	12.7	M16x2.0P	42	25	5.5	6	48	17	11.5
CP-20	160	55	80	76.2	19.03	12.7	M20x2.5P	42	32	5.5	6	58	21	15.5
HE-2486	155	59	86	76.2	19.03	12.7	M20		32	5	6	66	21	17.2

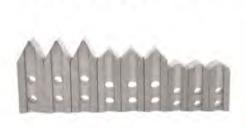


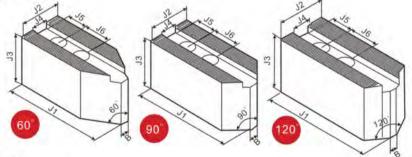




1.5mmx60°	Serration	Pitch:1.5mm	x60°						UNIT:mm
MODEL	WEIGHT	SCREW				Size ( m			
MODEL	kg/set	JUNE	J1	J2	J3	J4	J5	J6	В
SC06H50	2				50				
SC06H60	2.6				60				
SC06H70	3				70				
SC06H80	3.4				80				
SC06H90	3.8				90				
SC06H100	4.2				100				
SC06H110	4.6				110				
SC06H120	5.0		7.0		120				
SC06H130	5.5	M10	73	31	130	12	15	20	14
SC06H140	6.0				140				
SC06H150	6.5				150				
SC06H160	7.0				160				
SC06H170	7.5				170				
SC06H180	8.0				180				
SC06H190	8.5				190				
SC06H200	9.0				200				

#### SC06 POINTED SOFT JAWS



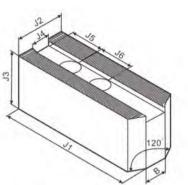


MODEL	WEIGHT	000514				Size ( mr	m )		
MODEL	kg/set	SCREW	J1	J2	J3	J4	J5	J6	В
SC06H36P	1.5				36				
SC06H50P	2				50				
SC06H60P	2.5				60				
SC06H70P	2.9				70				
SC06H80P	3.3				80				
SC06H90P	3.7				90				
SC06H100P	4	M10	73	31	100	12	10	20	3
SC06H110P	4.4				110				
SC06H120P	4.8				120				
SC06H130P	5.3				130				
SC06H140P	5.8				140				
SC06H150P	6.2				150				
SC06H160P	6.6				160				
	60°, 90°,	120°							

Option for pointed soft jaws: 60/90/120 angle degree or other special requirements; Customized spec can be made.

#### SC08 EXTRA HEIGHT SOFT JAWS

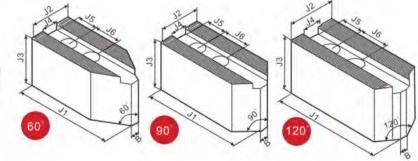




1.5mmx60°	Serration	Pitch:1.5mm	x60°						UNIT:mm
MODEL	WEIGHT	SCREW				Size ( mr	m )		
MODEL	kg/set	SUKLW	J1	J2	J3	J4	J5	J6	В
SC08H50	3.2				50				
SC08H60	3.8				60				
SC08H70	4.4				70				
SC08H80	5.1				80				
SC08H90	5.8				90				
SC08H100	6.4				100				
SC08H110	7.0				110				
SC08H120	7.6				120			0.5	4.0
SC08H130	8.2	M12	95	35	130	14	24	25	16
SC08H140	8.8				140				
SC08H150	9.4				150				
SC08H160	10.1				160				
SC08H170	11.7				170				
SC08H180	11.4				180				
SC08H190	12				190				
SC08H200	12.6				200				

#### SC08 POINTED SOFT JAWS





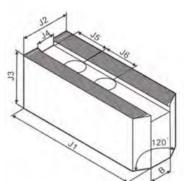
MODEL	WEIGHT	SCREW	Size ( mm )								
MODEL	kg/set	SUKEW	J1	J2	J3	J4	J5	J6	В		
SC08H38P	2.5				38						
SC08H50P	3.2				50						
SC08H60P	3.8				60						
SC08H70P	4.4	M12	95	35	70	14	15	25	3		
SC08H80P	5.1				80						
SC08H90P	5.8				90						
SC08H100P	6.4				100						

60°, 90°, 120°

Option for pointed soft jaws: 60/90/120 angle degree or other special requirements; Customized spec can be made.

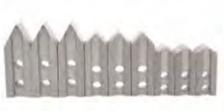
#### SC10 EXTRA HEIGHT SOFT

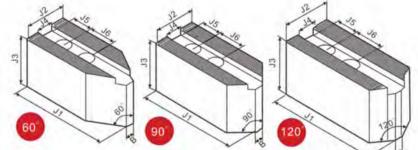




1.5mmx60°	Serration	Pitch:1.5mm	×60°						UNIT:mm
MODEL	WEIGHT	SCREW				Size ( mr	n )		
MODEL	kg/set	SCILLA	J1	J2	J3	J4	J5.	J6	В
SC10H50	4.2				50				
SC10H60	5.3				60				
SC10H70	6.1				70				
SC10H80	7.1				80				
SC10H90	8				90				
SC10H100	8.8				100				
SC10H110	9.5				110				
SC10H120	10.5	10.6	440	46	120	4.0	0.0	44	140
SC10H130	11.1	M12	110	40	130	16	30	30	18
SC10H140	12.2				140				
SC10H150	13.0				150				
SC10H160	14.0				160				
SC10H170	14.8				170				
SC10H180	15.8				180				
SC10H190	16.6				190				
SC10H200	17.5				200				

#### SC10 POINTED SOFT JAWS





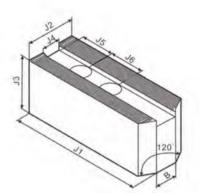
MODEL	WEIGHT	SCREW				Size ( mn	n ]					
MODEL	kg/set	SUKEW	JT	J2	J3	J4	J5	J6	В			
SC10H42P	3.7				42							
SC10H50P	4.2				50							
SC10H60P	5.1				60							
SC10H70P	6.1	M12	110	40	70	16	20	30	3			
SC10H80P	6.9				80							
SC10H90P	7.7				90							
SC10H100P	8.5				100							

Option for pointed soft jaws: 60/90/120 angle degree or other special requirements; Customized spec can be made.

#### SC12 EXTRA HEIGHT SOFT JAWS

#### FOR NON THROUGH CHUCK



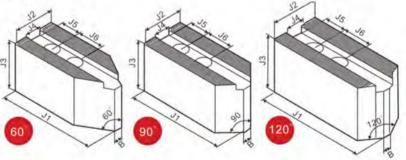


MODEL	WEIGHT	CODEIN				Size ( mr	n l		
MODEL	kg/set	SCREW	J1	J2	J3	J4	J5	J6	В
SC12H60N	7.8				60				
SC12H70N	9.1				70				
SC12H80N	10.5				80				
SC12H90N	11.6	M14	300	50	90	40	20	20	20
SC12H100N	12.9	W14	129	50	100	18	39	30	20
SC12H110N	14.2				110				
SC12H120N	15.6				120				
SC12H130N	17.0				130				

#### SC12 POINTED SOFT JAWS

#### FOR NON THROUGH CHUCK



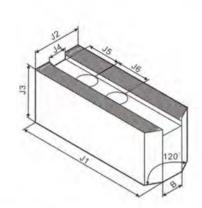


MODEL	WEIGHT	SCREW				Size ( mn	n )					
MODEL	kg/set	SCREW	J1	J2	J3	J4	J5	J6	В			
SC12H50PN	6.3				50							
SC12H60PN	7.5				60							
SC12H70PN	8.8	M14	129	50	70	18	25	30	6			
SC12H80PN	10.1				80							
SC12H90PN	11.5				90							

Option for pointed soft jaws: 60/90/120 angle degree or other special requirements; Customized spec can be made.

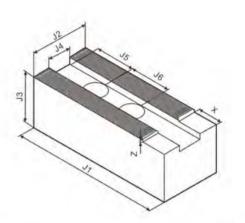






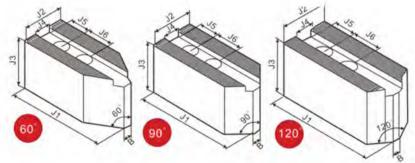
1.5mmx60°	Serration F	Pitch:1.5mm	x60°						UNIT:mm
MODEL	WEIGHT	SCREW				Size ( mr	m )		
MODEL	kg/set	OUNLIN	J1	J2	J3	J4	J5	J6	В
SC12H60	7.5				60				
SC12H70	8.7				70				
SC12H80	10				80				
SC12H90	11.2	1440	129	50	90	21	39	30	23
SC12H100	12.5	M16	129	50	100	21	39	30	23
SC12H110	13.8				110				
SC12H120	15.2				120				
SC12H130	16.5				130				





MODEL	WEIGHT	SCREW	Size ( mm )										
MODEL	kg/set	SCREW	J1	J2	J3	J4	J5	J6	X	Z			
SC15H80	16.1				80								
SC15H90	18.2				90								
SC15H100	20				100								
SC15H110	22.3	M20 165	Man	105	60	110	22	27	12	25	2		
SC15H120	25.0		105	62	120	(22.5)	37	43	25	2			
SC15H130	26.8				130								
SC15H140	28.5				140								
SC15H150	30				150								

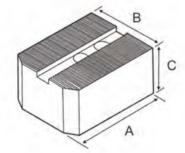




1.5mmx60°	Serration F	itch:1.5mm	x60°						UNIT:mm		
MODEL	WEIGHT	SCREW				Size ( mr	n)				
MODEL	kg/set	SCREW	J1	J2	J3	J4	J5	J6	В		
SC12H50P	6.0				50						
SC12H60P	7.2				60						
SC12H70P	8.4	M16	129	50	70	21	25	30	6		
SC12H80P	9.5				80						
SC12H90P	11.0				90						

 $60^\circ$   $\checkmark$   $90^\circ$   $\checkmark$   $120^\circ$  Option for pointed soft jaws: 60/90/120 angle degree or other special requirements; Customized spec can be made.





1	Model/Spec	Length A	Weight B	Height C	Serration
1	SC0603048	73	48	30	1.5*60°
	SC0603060	73	60	30	1.5*60°
	SC0603080	73	80	30	1.5*60°
	SC0604848	73	48	48	1.5*60°
	SC0604863	73	63	48	1.5*60°
	SC0606060	73	60	60	1.5*60°
	SC0803648	95	48	36	1.5*60°
	SC0803663	95	63	36	1.5*60°
	SC0803680	95	80	36	1.5*60°
	SC0804848	95	48	48	1.5*60°
	SC0804873	95	73	48	1.5*60°
	SC0804890	95	90	48	1.5*60°
	SC0806363	95	63	63	1.5*60°
	SC0807373	95	73	73	1.5*60°
	SC0808383	95	83	83	1.5*60°
	SC1004263	110	63	42	1.5*60°
	SC10042100	110	100	42	1.5*60°
	SC1004873	110	73	48	1.5*60°
	SC1006363	110	63	63	1.5*60°
	SC1007373	110	73	73	1.5*60°
	SC1008383	110	83	83	1.5*60°

#### POM HEAD SOFT JAWS FOR HYDRAULIC CHUCK

The POM/MC head is tight fit with steel parts, can't be changed, it can improve the gripping stability and protect the work piece surface.





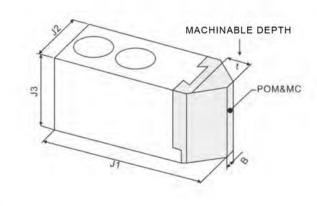


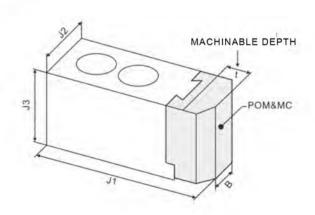
Standard Type

									UNIT:mm
MA	DEL			Size ( mm	1		ANGLE	Ma	aterial
INIO	DEL	J1	J2	J3	В	t	ANGLE	MC/NYLON Ma	POM
6"H50		73	31	50	14	11	120	V	V
6"H50	POINTED	73	31	50	5	11	90	V	V
8"H50		95	35	50	16	16	120	V	V
8"H50	POINTED	95	35	50	5	16	90	V	V
10"H50		110	40	50	18	16	120	V	V
10"H50	POINTED	110	40	50	5	16	90	V	V

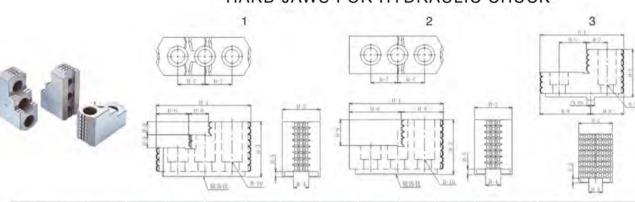
#### (Remarks) :

- 1. It's made for customized order
- 2. The available material is MC nylon (blue) and POM (white)



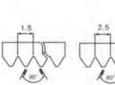


#### HARD JAWS FOR HYDRAULIC CHUCK

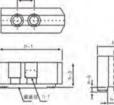


SPEC. MODEL	H-1	H-2	H-3	H-4	H-5	H-6	H-7	H-8	H-9	H-10	Serration Pitch	Gross Weight(kg)	Ref
HJ-05 HJ-06	53 67	23 31	28 36	10 12	4 5	30.5 39	14 20	22.5 28	10 12	M8 M10	1.5×60° 1.5×60°	0.4 0.95	Fig2
HJ-08 HJ-10	86 100	35 40	51 54	14 16	5	31 43	25 30	18 17	12 14	M12 M12	1.5×60° 1.5×60°	1.95 2.85	fig1
HJ-12 HJ-15(18) HJ-15-1	103 149 149	50 62 62	52 86 86	21(18) 22(25.5) 26	5 (5)8 8	69. 5 55 55	30 43 43	43. 5 38 38	20 20 20	M16(M14) M20 M20	1.5×60° 1.5×60° 3.0×60°	3.9 9.45 9.45	fig1
HJ-24(21) HJ-32	159.5 159.5	80 80	90	25 25	9	104. 5 104. 5	50 50	55 55	40 40	M20 M20	3.0×60° 3.0×60°	14.3 14.3	Fig2
HJ-40(50) HJ-63(79)	223 223	85 110	117 117	30 30	7	72.6 72.6	38.1	140 140	83 83	M24 M24	-	-	Fig



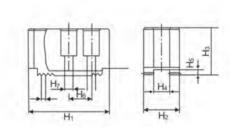




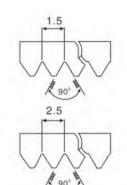


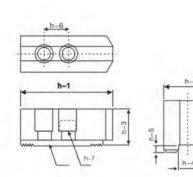


SPEC/SIZE	h-1	h-2	h-3	h-4	h-5	h-6	h-7	Serration pitch
CH-06(160)	62	35	38	11	4.5	20	M8	1.5×90°
CH-08(200)	80	40	45	13	4.5	24	M10	1.5×90°
CH-10(250)	100	45	52	15	4.5	28	M12	1.5×90°
CH-12(320)	115	50	62	18	4.5	32	M14	2.5×90°
CH-15(400)	140	50	75	20	6	45	M16	2.5×90°
CH-20(500)	160	55	85	22	6	50	M18	2.5×90°
CH-24(630)	190	60	100	26	6	55	M21	2.5×90°



	2123	H	H <sub>2</sub>	H <sub>3</sub>	H4	H <sub>5</sub>	Serration pitch	H <sub>6</sub>	H <sub>7</sub>
U	size						Corrainon pilon		
	200	85	40	45	16	4	1/16"x90"	24	2-13
	320	118	50	62	21	4	3/32"x90"	32	2-17
	400	140	50	75	22	5.5	3/32"x90"	45	2-17
	500	160	75	75	26	5.5	3/32"x90"	38	2-22
	630	160	75	75	26	5.5	3/32"x90"	38	2-22
	800	160	75	75	26	5.5	3/32"x90"	38	2-22
	1000	200	85	110	30	9		100	2-26
	1250	200	85	110	30	9		100	2-26

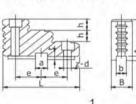


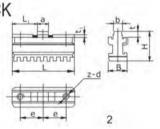


MODELS/DIMENSION	Length	width h-2	Height	Slot width	Slot depth	Hole center distance h-6	Screw	Serration pitch
CH-125	56	25	32	11	3.5	16	M8	1.5×90°
CH-160	70	35	42	13	4	20	M10	1.5×90°
CH-200	82	40	46	16	4	24	M12	1.5×90°
CH-250	95	45	50	17	4	28	M12	1.5×90°
CH-315	118	50	62	21	4	32	M16	2.5×90°
CH-400	148	55	72	22	5	45	M16	2.5×90°

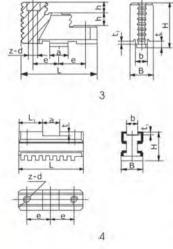
#### HARD JAWS FOR SCROLL CHUCK







Two-Piece Jaws for	Form C	
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Size	L	В	н	h	a	b		е	t t	z-d	
200	88	22	44	12	13	11	. 3	28	7 3	2-9	1
240	108	27	46	12	13	1 13	3	35	7 3	2-11	1
250	108	27	46	12	13	13	3	35	7 3	2-11	1
Size	L	L1	В	н	а	ь	е	t	t <sub>i</sub>	Z-d	
200	76	31.5	22	36	13	11	28	6	2	2-M8	2
240	95	41	27	39	13	13	35	6	2	2-M10	2
250	95	41	27	39	13	13	35	6	2	2-M10	2
Size	L	В	Н	h	a	b	е	t	t,	z-d	8
320	127	36	59.5	17	28	15	44	7.5	2.8	2-13	3
325	127	36	59.5	17	28	15	44	7.5	2.8	2-13	3
380	127	36	59.5	17	28	15	44	7.5	2.8	2-13	3
Size	L	L1	В	Н	a	b	е	t	t,	z-d	8
320	114	43	36	40	28	15	44	8.5	3.5	2-M12	4
325	114	43	36	40	28	15	44	8.5	3.5	2-M12	4
380	114	43	36	40	28	15	44	8.5	3.5	2-M12	4

#### HARD JAWS FOR SCROLL CHUCK

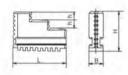




- Hard jaws include one-piece jaws and two piece jaws for formA,D,C.
- All kinds of hard jaws can be provided as the request of customers.

AGE

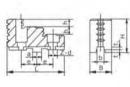
#### One-Piece Jaws



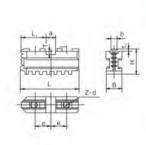
Size	80	100	125	130	160	165	190	200	240	250	315 320 325 380
L	32	42	56	56	70	70	72	85	105	105	130
В	12	15	16	16	18.5	18.5	22	22	27	27	36
Н	33	38	45	45	54	54	57	61	69	69	91
h	6.5	7	9	9	12	12	12	12	12	12	18

 $\ensuremath{\text{@}}$  The chuck with one–piece jaws is provided with each set of internal and external ones.

#### Two-Piece Jaws for FormA,D



ı	Size	160	200	250	315	325	380	400	500	630
	L	67	80	95	108	108 130	130	130	132	132
	В	25	30	36	45	45	45	45	45	54
	Н	41	45	53	61	61 70	70	70	82	82
	h	9	10.5	13.5	17.5	17.5 17	17	17	22	22
	a	12.675	12.675	19.025	19.025	19.025	19.025	19.025	19.025	19.025
	b	7.94	7.94	12.7	12.7	12.7	12.7	12.7	12.7	12.7
	е	19	22.2	27	31.75	31.75 38.1	38.1	38.1	38.1	38.1
	t	3	3	3	3	3 6	6	6	6	6
	t,	4	4	4	4	4	4	4	4	4
	z-d	2-11	2-11	2-13	2-13	2-13 2-18	2-18	2-18	2-22	2-22



Size	160	200	250	315	325	380	400	500	630
L	64	80	98	110	110 114	114	114	152	210
L1	29	34.9	39.7	47.6	47.6 47.5	47.5	47.5	47.4	59
В	20	22	27	36	36	36	36	45	50
H	33	35	38	42	42 46	46	46	55	60
a	12.675	12.675	19.025	19.025	19.025	19.025	19.025	19.025	19.025
b	7.94	7.94	12.7	12.7	12.7	12.7	12.7	12.7	12.7
е	19	22.2	27	31.75	31.75 38.1	38.1	38.1	38.1	38.1
t	4	4.2	4.2	4.2	4.2 7	7	7	7	7
t1	3	3	3	3	3	3	3	3	3
z-d	2-M10	2-M10	2-M12	3-M12	3-M12 3-M16	3-M16	3-M16	4-M20	5-M20

The jaws are composed of top jaws and master jaws. Master jaws for form A size 325,380 and form D without clamping arc.





- All kinds of soft jaws can be provided as the request of customers for K11,K10,K12 series chucks.
   Soft jaws include one-piece soft jaws and two-piece soft jaws(form C,A).

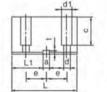
#### One-piece soft jaws





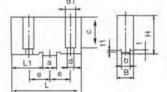
T	Model	RZ1180	RZ11100	RZ11125	RZ11130	RZ11160	RZ11165	RZ11190	RZ11200	RZ11240	RZ11250	RZ11315 RZ11320	RZ11325 RZ11380
	L	32	42	56	56	70	70	72	85	105	105	130	130
1	В	12	15	16	16	18.5	18.5	22	22	27	27	36	36
	н	32	38	45	45	54	54	57	61	69	69	91	91

#### Soft top jaws(Type C)





		_										
Model	L	L1	В	Н	a	b	е	1	11	c	d	d1
RZ11200C	93	46	25	50	13	11	28	7	3	39	9	15
RZ11240C	113	58	27	58	13	13	35	7	3	48	11	17
RZ11250C	113	58	27	58	13	13	35	7	3	48	11	17

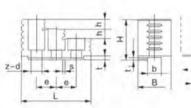


Model	L	L1	В	н	а	b	е	t.	11	C	d	d1
RZ11320C	137	64	36	75	28	15	44	7.5	2.8	60.5	13	20
RZ11325C	137	64	36	75	28	15	44	7.5	2.8	60.5	13	20
RZ11380C	137	64	36	75	28	15	44	7.5	2.8	60.5	13	20



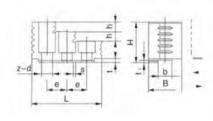
- Form A:Matched with hard top jaws with serrations.
- Form B: Matched with soft top jaws with cross tenon.





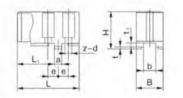
### K52A

Size	L	В	Н	b	е	t	t,	S	h	z-d
160	70	35	42	13	20	4.5	4	1.5×90°	10	3-11
200	82	40	48	16	24	4.5	4	1.5×90°	11	3-13
250	95	45	50	17	28	4.5	4	1.5 × 90°	12	3-13
315	114	50	62	21	32	4.5	4		15	3-17
400	148	55	72	22	45	5.5	5		18	3-17



#### K54A, K55A, K55A-IV

Size	L	В	Н	b	е	t	t,	S	h	z-d
125	56	23	32	11	16	4	3.5	1.5×90°	7.5	3-9
160	68	30	42	13	20	4.5	4	1.5×90°	10	3-11
200	84	36	48	16	24	4.5	4	1.5×90°	11	3-13
250	90	40	50	17	28	4.5	4	1.5×90°	12	3-13
315	112	50	62	21	32	4.5	4		15	3-17

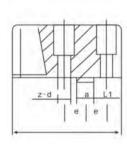


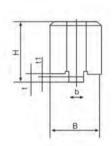
#### K52B, K55B

Size	L	В	Н	а	b	е	t	t,	L,	z-d
160	74	35	45	12	12	12.5	3	4	44	2-11
200	90	40	49	12	15	15	3	4	54.5	2-13
250	115	45	53	15	15	20	3	4	70.5	2-13
315	145	50	65	15	20	24	3	4	95	2-17
400	180	55	75	20	20	30	3	4	120	2-17

#### WEDGE TYPE POWER CHUCK JAWS



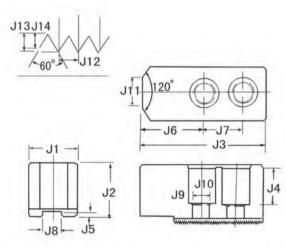




Spec	L	L1	В	н	а	ь	е	t	t1	z-d	Net WT
160	70	18	35	42	11	11	14	5	1.5	2-9	11
200	86	20	40	50	13	13	16	6	2	2-11	20
250	105	25	45	58	15	15	20	7	2.5	2-13	31
320	130	28	50	69	18	18	22.5	8	3	2-15	53
400	160	40	50	80	20	20	30	9	3.5	2-17	83
500	19	56	55	85	22	22	39	9	3.5	2-19	134
630	235	76	60	100	24	24	50	10	4	2-22	-

#### SOFT JAWS FOR JIS STANDARD





Spec	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14	Screw
6	30	34	80	26	3.5	41	25	11	9	14	10	1.5	1.3	0.15	M8
8	36	40	90	27	3.5	45	25	14	13	17	20	1.5	1.3	0.15	M12
10	40	40	110	31	6	50	30	16	13	19	25	1.5	1.3	0.15	M12
12	50	50	130	33	6	60	30	18	15	23	30	1.5	1.3	0.15	M14
15	62	62	150	43	0.5	55	50	22	22	32	-	3.0	2.6	0.5	M20
18	62	62	150	43	8.5	55	50	22	22	32		3.0	2.6	0.5	M20

#### JAWS FOR DIN SERIES CHUCK



Inch serrated hard top jaws "D"
If high concentricity is required jaws have to be ground on the chuck at clamping pressure

ld.No.*	Serration inch	B	H	L	N mm	T	a mm	b mm	Mass kg/jaw
12081306	1/16"x90°	30	34	58	12	8.5	13	16	0.2
12081636	1/16"x90°	34	39	65	14	10	18	16.5	0.3
12082036	1/16"x90°	40	45	82	17	10.5	19	23	0.57
12082626	1/16"x90°	45	56	100	17	15.5	23	30	0.85
12083036	1/16"x90°	45	56	105	21	13.5	26	30	0.95
12084006	1/16"x90°	55	73	120	21	22	30	34	1.70
12085046	3/32"x90°	55	73	145	25.5	32	46	38	2.2
12084546	3/32"x90°	60	75	140	25.5	19	38	38	2.5
12086346	3/32"x90°	70	75	145	25.5	32	46	38	3

Inch serrated soft blank top jaws "D"

Id.No.*	Serration	В	Н	L	N	а	Ь	Mass
1400-00	inch	mm	mm	mm	mm	mm	mm	kg/jaw
12071300	1/16"x90°	30	30	60	12	29	16	0.3
12071680	1/16"x90°	30	35	70	14	38	16.5	0.42
12072130	1/16"x90°	35	40	90	17	47	23	0.85
12072620	1/16"x90°	40	45	110	17	60	30	1.23
12072500	1/16"x90°	45	45	110	21	60	30	1.25
90072500	1/16"x90°	60	60	120	25.5	64	34	2.6
12073000	1/16"x90°	50	50	125	21	73	30	1.85
12074030	1/16"x90°	60	60	140	21	81	34	3.2
12074040	3/32"x90°	60	60	140	25.5	75	38	3.2
12075050	3/32"x90°	60	60	170	25.5	105	38	3.6
12075040	3/32"x90°	75	75	160	25.5	97	38	5.5
12075140	3/32"x90°	60	60	205	25.5	104	38	4.5

Metric serrated hard top jaws "M"
If high concentricity is required jaws have to be ground on the chuck at clamping pressure

Id.No.*	Serration	B	H	L	N mm	T	a mm	b mm	Mass kg/jaw
12081307	1.5x60°	30	34	58	12	8.5	13	16	0.2
12081627	1.5x60°	34	39	67	12	10	14	20	0.31
12082127	1.5x60°	40	45	86	14	10.5	19	25	0.60
12082627	1.5x60°	45	56	100	16	15.5	23	30	0.85
12083037	1.5x60°	45	56	105	21	13.5	26	30	0.95
12084007	1.5x60°	55	73	120	21	22	30	34	1.70
12084047	1.5x60°	55	73	145	25.5	32	46	38	2.2
12084527	1.5x60°	60	75	140	22	19	38	38	2.5
	12081307 12081627 12082127 12082627 12083037 12084007 12084047	12081307 1.5x60° 12081627 1.5x60° 12082127 1.5x60° 12082627 1.5x60° 12083037 1.5x60° 12084007 1.5x60° 12084047 1.5x60°	12081307 1.5x60° 30 12081627 1.5x60° 34 12082127 1.5x60° 40 12082627 1.5x60° 45 12083037 1.5x60° 45 12084007 1.5x60° 55 12084047 1.5x60° 55	12081307 1.5x60° 30 34 12081627 1.5x60° 34 39 12082127 1.5x60° 40 45 12082627 1.5x60° 45 56 12083037 1.5x60° 45 56 12084007 1.5x60° 55 73 12084047 1.5x60° 55 73	12081307 1.5x60° 30 34 58 12081627 1.5x60° 34 39 67 12082127 1.5x60° 40 45 86 12082627 1.5x60° 45 56 100 12083037 1.5x60° 45 56 105 12084007 1.5x60° 55 73 120 12084047 1.5x60° 55 73 145	12081307 1.5x60° 30 34 58 12 12081627 1.5x60° 34 39 67 12 12082127 1.5x60° 40 45 86 14 12082627 1.5x60° 45 56 100 16 12083037 1.5x60° 45 56 105 21 12084007 1.5x60° 55 73 120 21 12084047 1.5x60° 55 73 145 25.5	12081307 1.5x60° 30 34 58 12 8.5 12081627 1.5x60° 34 39 67 12 10 12082127 1.5x60° 40 45 86 14 10.5 12082627 1.5x60° 45 56 100 16 15.5 12083037 1.5x60° 45 56 105 21 13.5 12084007 1.5x60° 55 73 120 21 22 12084047 1.5x60° 55 73 145 25.5 32	10.No.         mm         mm <th< td=""><td>10.No.         mm         <th< td=""></th<></td></th<>	10.No.         mm         mm <th< td=""></th<>

Metric serrated soft blank jaws "M"

ld.No.*	Serration inch	B	H	L	N mm	a mm	b mm	Mass kg/jaw
12071301	1.5x60°	30	30	60	12	29	16	0.3
12071621	1.5x60°	30	35	70	12	34	20	0.42
12072121	1.5x60°	35	40	90	14	47	25	0.85
12072621	1.5x60°	45	45	110	16	60	30	1.3
12073001	1.5x60°	50	50	125	21	73	30	1.85
12074021	1.5x60°	60	60	140	22	75	38	3.2
12074031	1.5x60°	60	60	140	21	81	34	3.2
12074041	1.5x60°	60	60	140	25.5	75	38	3.2

Tongue & groove soft blank top jaws "C"
American standard tongue & groove

ld.No.*	B	H	L	N mm	D	E	mm	Mass kg/jaw
12041660	30	35	80	7.94	30	38.1	12.68	0.58
12042060	40	40	100	7.94	35	44.4	12.68	0.92
2042560	50	50	120	12.70	42	54	19.03	1.25
2043060	50	50	140	12.70	50	63.5	19.03	2.15
2044050	60	60	165	12.70	60	76.2	19.03	3.6
2045050	75	75	165	12.70	60	76.2	19.03	5.5

2

#### T-NUTS FOR DIN SERIES CHUCK

### Tongue & groove soft blank top jaws "C" DIN standard tongue & groove

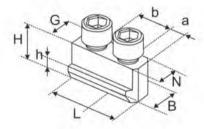
ld.No.*	B mm	H mm	L	N mm	D mm	E	mm	Mass kg/jaw
90040800	30	30	38	8	8	14	8	0.18
90041000	30	30	48	8	8	20	8	0.23
90041300	35	35	57	14	27	27	16	0.40
90041600	40	40	75	18	34	34	18	0.72



_	1				
	7		-		
	6	-	-	X	
Z	1	/	7	- 1	V
-	-	K	В		

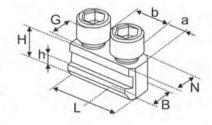
ld.No.*	B	H	L mm	N mm	G mm	H
12063000	29	25	24	21	M16	11
12064020	35	34.5	30	22*	M20	15
12065020	35	34	30	25.5	M20	15
12065082	36	34	30	25.5*	M20	15
12065002	40	40	32	25.5*	M20	15.5

\*22 mm guide in the top jaw and 25.5 mm guide in the master jaw \*\*25.5 mm guide in the top jaw and 28mm guide in the master jaw



#### **Double T-nut NSTE**

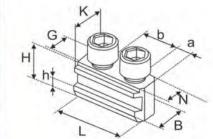
ld.No.*	B	H	L mm	N mm	G mm	a mm	b mm	h mm
12061300	17	15	30	12	M8	7	16	6.5
73064030	31	33	60	21	M16	13	34	14.5
12064520	31	33	70	22	M20	16	38	14.5



#### **Double T-nut NSTE**

Type 3

Id.No.*	B mm	H	L	N	G mm	a mm	b mm	h
12061200	15	15	32	12	M8	6.5	16	6.5
73061650	17	18.5	32	14	M10	8	16.5	6.5
73062150	19	20.5	43	17	M12	10	23	7.5
18062632	19	20.5	50	17	M12	10	30	7.5
73063050	25	26.5	56	21	M16	13	30	10
73065030	31	33	70	25.5	M20	16	38	14.5

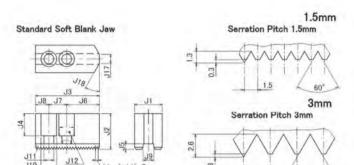


#### **Double T-nut NSTE-M**

Type 4

No. Id.No.*	B	H	L	N	K	G mm	a mm	b mm	h
73061602	17	18.5	36	12	14	M10	8	20	6.5
13062101	19	20.5	45	14	17	M12	10	25	7.5
18062633	19	20.5	50	16	17	M12	10	30	7.5
73062501	25	26.5	56	16	21	M12	13	30	10

#### SOFT JAW FOR JIS STANDARD



- Standard soft blank jaws are made of carbon steel,

- (SAE 1045 OR ISO C50 is equivalent to JIS S48C)

  When ordering jaws, specify chuck model number

  When ordering jaw nuts if needed.

  Specify the following information if special jaws are necessary

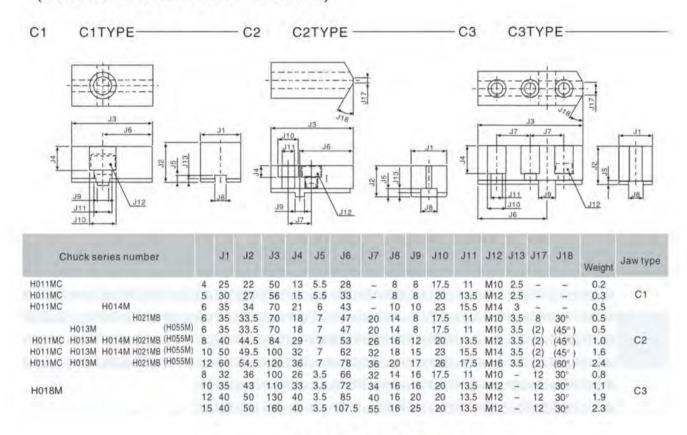
Shape of work piece	Size of work piece
Machining condition	Gripping position

Chuck s number	eries	Serration Pitch	J1	J2	J3	J4	J5	J6	J7	J8	19	J10	J11	J12	J16	J17	J18	WEIGHT
	4	1.5	25	25	54	14	5	30	14	10	10	13.5	9	M8	-	8	30°	0.2
	5	1.5	25	25	58.5	14	5	31.5	19	8	10	14	9	M8	-	-	-	0.2
	6	3.0	31	40	72	25	6	37	20	15	12	17.5	11	M10	-	-	-	0.6
	6S	1.5	31	40	70.5	26	5	35.5	20	15	12	17.5	11	M10	-	1-1	-	0.6
но1МА	8	3.0	34	40	90	22	6	45	25	20	14	20	13.5	M12	-	-	-	0.8
AIVITOR	88	1.5	34	40	90	23	5	45	25	20	14	20	13.5	M12	-	-	-	0.8
	10	3.0	40	40	111	22	6	51	30	30	16	20	13.5	M12	-	-	-	1.2
	108	1.5	40	40	111	23	5	51	30	30	16	20	13.5	M12	-	-	-	1.2
	12	3.0	50	50	129	32	6	60	30	39	18	23	15.5	M14	-	-	-	2.2
	125	1.5	50	50	129	33	5	60	30	39	18	23	15.5	M14	-	-	-	2.2
	15	3.0	65	70	156	50	8	72	50	34	26	32	22	M20	-	-	-	4.7
H01MA6	A5-J	1.5	31	40	70.5	26	5	35.5	20	15	12	17.5	11	M10	-	-	-	0.6
14.111.14	6	1.5	30	30	70.5	20	5	36	20	14.5	12	17.5	11	M10	-	-	-	0.4
100011	8	1.5	35	40	90	26	5	45	25	20	16	20	13.5	M12	-	-	-	0.7
H022M	10	1.5	40	50	105	35	5	51	30	24	18	23	15.5	M14	_	-	-	1.3
	12	3	50	60	126	42	6	60	40	26	21	26	17.5	M16	-	-	-	2.4
	4	1.5	25	25	47.5	16	4	22	16	9.5	11	14	9	M8	-	4	30°	0.2
100744	5	1.5	25	25	47.5	16	4	22	16	9.5	11	14	9	M8	-	4	30°	0.2
H027M	6	1.5	35	35	66	22	5	31.5	20	14.5	12	17.5	11	M10	-	-	-	0.6
H037M	8	1.5	40	40	85.5	26	5	40.5	25	20	16	20	13.5	M12	-	-	-	1.0
	10	1.5	45	45	108	30	5	54	30	24	18	23	15.5	M14	-	-	-	1.5
	12	1.5	50	60	111	42	5	51	35	25	21	26	17.5	M16	-	-	-	2.2
	15	3	60	66	138	47	8	66	42	30	26	32	22	M20	-	-	-	3.9
H032M	6	1.5	28	30	60	21	4	30	16	14	11	14	9	M8	-	-	-	0.4
2010	6	1.5	26	28	66	16	5	34	20	12	12	17.5	11	M10	54	5	30°	0.3
	8	1.5	35	38	95	23	5	46	25	24	14	20	13.5	M12	75	12	30°	0.8
H3KT	10	1.5	40	42	110	27	5	50	30	30	16	20	13.5	M12	90	15	15°	1.2
	12	1.5	50	50	111	33	5	60	30	21	21	26	17.5	M16	-	-	-	1.8

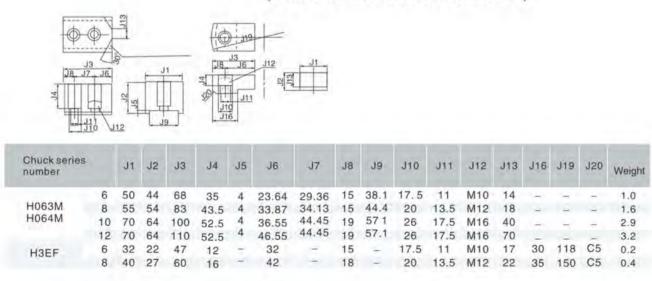
#### COMPATIBILITY OF SOFT BLANK JAW

Chuck series r	number		Cor	mpatible chuck serie	es number	
	4	H022M5	H024M5	H012D4		
HOANA	6				H010D6	
H01MA	8				H010D8	
	15	H01MA18	H01MA21	H01MA24		
	6	H023M8	H024M6		H024D6	H05M6
Lionati	8	H023M10	H024M8		H024D8	H05M8
H022M	10	H023M12	H024M10			H05M10
	12	H023M15	H024M12			
	6	H032M8	H027M6	H012D6	H024D6	H034M6
tria diam't	8	H032M10	H027M8	H012D8	H024D8	H034M8
H037M	10	H032M12	H027M10	H012D10		H034M10
	12		H027M12			H034M12
H027M	15		H037M15		H047M15	H034M15

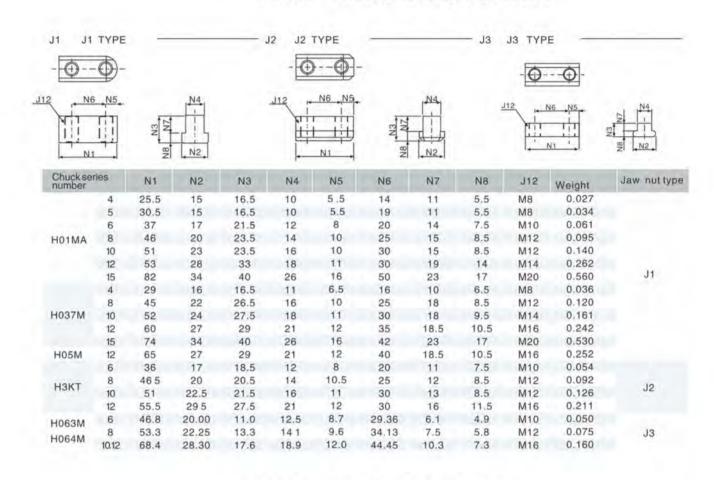
### SOFT JAWS FOR JIS STANDARD (TONGUE AND GROOVE TYPE)



#### H063M/H064M/H3EF SOFT JAWS FOR JIS STANDARD (TYPE H063M/H064M.H3EF)



#### T-NUT FOR JIS CHUCK SERIES



#### COMPATIBILITY OF T-NUT

	4	H022M5		H024M5							H012D4
H01MA	6	H022M6	H023M8	H024M6	H027M6	H034M6	H047M6	H037M6	H05M6	H032M8	H012D4
	15	H01MA18	H01MA21	H01MA24	11001.00		116.0.116				107.00.0
	4				H027M4	H027M5		H037M5		H032M6	
	8	H022M8	H023M10	H024M8	H027M8	H034M8	H047M8		H05M8	H032M10	H012D8
H037M	10	H022M10	H023M12	H024M10	H027M10	H034M10	H047M10		H05M10	H032M12	H012D10
	12				H027M12	H034M12	H047M12				
	15				H027M15	H034M15	H047M15				
H05M	12	H022M12	H023M15	H024M12							
							La	A			

#### SOFT JAWS FOR JIS SERIES S1 TYPE

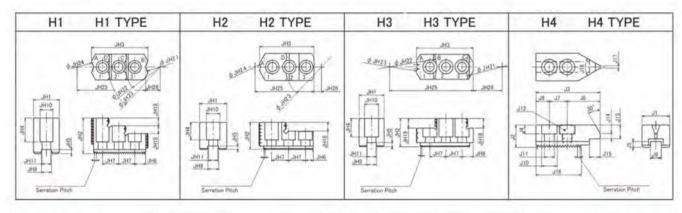
Chuck series	nunber	Jaw number	Serration Pitch	J1	J2	73	J4.	J5	J6	J7	J8	J9	J10	J11	J12	Weight
	6	401-062-0-000	3	40	55	87	40	6	51	20	16	12	17.5	11	M10	1.4
H01MA	8	401-062-1-000	3	40	60	102	42	6	57	25	20	14	20	13.5	M12	1.6
HOTIMA	10	401-062-2-000	3	50	70	123	52	6	63	30	30	16	20	13.5	M12	3
	12	401-062-3-000	3	62	80	144	63	6	75	30	39	18	23	15.5	M14	5

# AGE 21

# PAGE 20

### SOFT JAWS SERIES

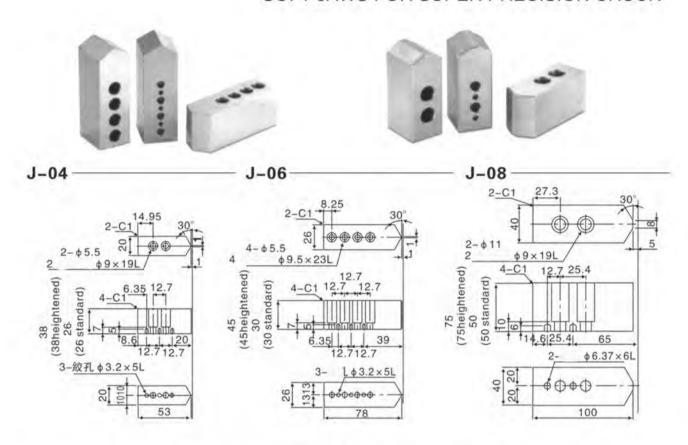
#### HARD JAWS FOR JIS STANDARD



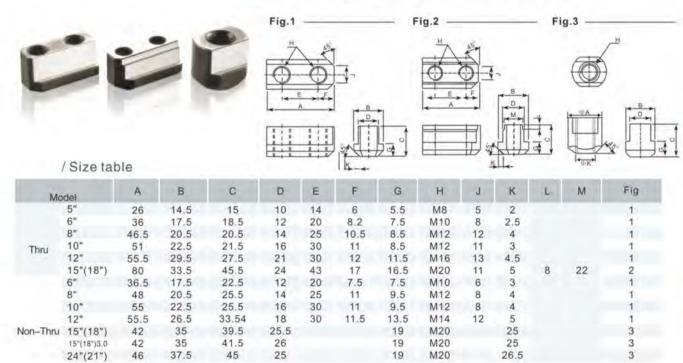
Chucks		serration Pitch	JHI	JH2	ЈНЗ	JH4	JH5	JH6	JH7	J H9	JH10	JH11	JH18	JH19	J H21	J H22	J H23	J H24	J H25	J H26	weight	Jaw type
	6	3	35	46	85.2	31	6	13.5	20	12	17.5	11	10	10	44	104	128	56	106	25	0.6	
	8	3	40	55	87.8	37	6	17	25	14	20	13.5	12	12	42	108	160	48	106.5	22.5	0.7	H1
HO1MA	10	3	40	56	98.7	39	6	15	30	16	20	13.5	13	13	86	145	208	53	120	45	1.0	
	12	3	50	62	104.4	45	6	16	30	18	23	16	15	15	140	200	260	70	134.5	71.5	1.5	
	15	3	65	75	153.3	55	8	20	50	26	32	22	30	_	_	-	300	150	225	68	3.3	
	5	1.5	28	30	54.3	20	5	12	14	11	14	9	8	-	-	-	75	20	63	12	0.3	
H037M	6	1.5	35	35	64.3	22	5	10	20	12	17.5	11	11	_	_	_	86	12	69.5	9.5	0.4	H2
H027M	8	1.5	40	40	80.1	26	5	11.5	25	16	20	13.5	13	_		_	106	16	87	11	0.8	
	10	1.5	45	45	95.3	30	5	15	30	18	23	16	15	_	_	_	138	24	106	16	1.2	
	12	1.5	50	50	109.7	37	5	15.5	35	21	26	18	20	-	-	-	166	32	124.5	17.5	1.8	
	15	3	60	60	132.5	41	8	18	42	26	32	22	20	12	90	116	205	65	164	32	3.0	
LINKT	6	1.5	31	35	70.8	23	5	14	20	12	17.5	11	12	12	71	136	68	-	104	36	0.3	НЗ
НЗКТ	8	1.5	35	51	87	36	5	19	25	14	20	13.5	12	13	100	186	169	87	127	38	0.6	H1
	10	1.5	40	54	101.3	39	5	10.5	30	16	20	13.5	13	-	_	-	220	82	136.5	54.5	1.0	411
	12	1.5	50	52	106.64	35	5	20.25	30	21	26	17.5	17				210	84	145.25	47.75	1.3	H2
Chucks		serration Pitch	J1	J2	J3	J4	J5	J6	J7	J8	19	J10	J11	J12	J13	J14	J 15	J 16	J 17	J18	weight	Jaw type
	6	1.5	31	23.5	73	10	5	38	20	15	12	17.5	11	M10	15.5	6	13	46.5	1.5	60°	0.4	
	8	1.5	35	26	89.5	12	5	44.5	25	20	16	20	13.5	M12	18	7	14.5	57	1.5	60°	0.5	H4
H05M	10	1.5	40	29	103.5	14	5	48.5	30	25	18	23	15.5	M14	21	7	16	67.5	1.5	60°	0.7	114
	12	1.5	45	32	122	16	5	52	40	30	21	26	17.5	M16	22	7	16.5	85.5	1.5	60°	0.9	

Bolt n	number						1	-2											2-3					
Chuck series number			A				В		C			D			A			В			С		D	
	6	49	2	66	25	~	41	85	-	101	109	2	125	19	4	23	60	~	75	120	~ 136	144	~	160
	8	75	2	109	18	~	50	83	-	117	135	I	169	23	~	57	69	~	103	136	~ 169	188	1	22
H01MA	10	82	2	136	27	~	81	85	~	140	148	~	203	24	~	76	86	4	139	145	~ 199	208	-	26
	12	83	~	166	34	~	119	94	**	179	154	1	239	24	~	107	94	-	178	154	~ 238	214	-	29
	15	116	1	200					-		198	-	284	32		100		-	-			300	-	38
	4	23	~	40			-		-		61	2	67	11	~	15		-	-		_	75	-	93
	5	28	~	63					_		63	~	89	10	~	36		_	-		_	80	4	11
	6	54	~	82					_		87	3	114	13	~	40		-	-		-	128	-	15
H037M	8	54	-	103					_		102	~	151	10	~	55		_	_			152	-	20
H027M	10	84	-	132			_		-		140	~	187	26	-	72		-	1		_	199	~	24
	12	94	~	160			-		-		173	2	239	26	~	92		_	-			241		30
	15	119	~	204					-		200	~	284	36	~	121		-	-			282	-	36
	6	48	1	78	96	~	126	32	~	60		-	_	12	~	36	60	-	84	71	- 101		_	_
	8	75	*	109	9	~	43	74	7	109	107	~	142	24	~	58	60	~	94	125	~ 159	158	~	19
нзкт	10	74	-	119	34	-	79	121	~	165	155	~	199	14	~	59	94	~	139	180	- 224	214	-	25
	12	101	~	166					-		166	~	233	42	-	108		-	-			226	-	29

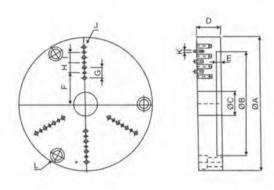
#### SOFT JAWS FOR SUPER PRECISION CHUCK



#### SUITABLE FOR POWER CHUCKS



### FR FORMING RINGS (FOR SOFT JAWS OF SUPER PRECISION CHUCKS)

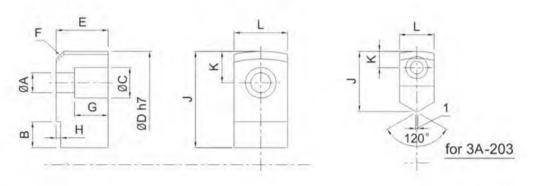






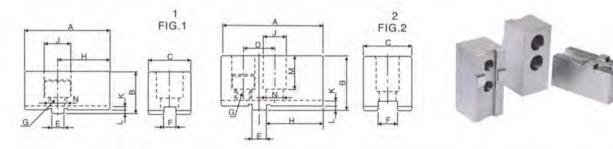
S	ize tab	le											UNIT:mm
MODEL /SPEG.	A	В	С	D	E	F	G	Н	E.	J	к	L	(Kg) Weight
FR-04	112	80	22	30	6	21	12.7	12.7	12.7	6-M5X0.8P	9-Ø3.175	3-M8X1.25P	1.9
FR-06	167	130	30	30	6	40	12.7	12.7	12.7	12-M5X0.8P	9-Ø3.175	3-M10X1.5P	4.3
FR-08	203	160	54	35	6	66	25.4	25.4		6-M10X1.5P	6-Ø6.35	3-M10X1.5P	7.2

#### STANDARD SOFT JAW FOR 3A CHUCK



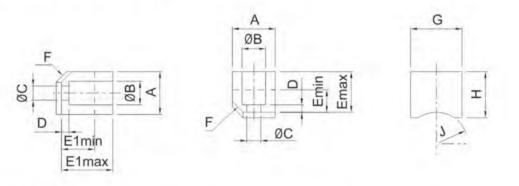
5	ubject to technical c	hanges										
	Model/Dim.	A	В	С	D	E	F	G	н	J	К	L
	3A-203	5.5	11	9.5	66	12	C3	7	3	26	7	15
	3A-204	6.6	11	11	84	17	C4	11	3	32	9.5	20
	3A-205	9	13.5	14	108	20	C4	12	3	41.5	13	24
	3A-206	11	15	17	129	30	C5	20	3	50	17	30
	3A-208	13	15	20	156	34	C5	22	3	63	20.5	35
	3A-210	15	20	22	187	39	C5	24	4	74	23	40
	3A-212	15	18	22	234	44	C5	29	4	72	23	40

#### SOFR JAWS FOR PULL BACK POWER CHUCKS



Siz	e tab	le				_									UNIT:
MODEL /SPEC.	А	В	С	D	E	F	G	н	J	K	L	М	N	Reference	e Drawing
S-04	52	19.5	25	-	8	8	M10x1.5P	30	17.5	2.5	2.5	13	11	圖.1	fig.1
S-05	56	27	30	-	8	8	M10x1.5P	33	20	2.5	2.5	15	11	圖.2	fig.2
S-06	70	34	35	-	10	10	M14X2P	43	23	3.0	3.0	21	15.5	圖.2	fig.2
S-08	84	44.5	40	26	12	16	M12X1.75P	53	20	3.5	3.5	29	13.5	圖.2	fig.2
S-10	100	49.5	50	32	15	18	M14X2P	62	23	3.5	3.5	32	15.5	圖.1	fig.1
S-12	120	54.5	60	36	17	20	M16X2P	78	26	3.5	3.5	36	17.5	圖.1	fig.1
S-15	165	60	70	40	20	24	M17x2P	105	26	5	5	40	18		100

#### STANDARD SOFT JAW FOR 3E CHUCK



Model/Dim.	Α	В	С	D	Emax.	Emin.	E1max.	E1min.	F	G	H	J
3E-05	20	11	6.6	3.5	34	25	41.5	33.5		24	21.5	14.7
3E-06	23	11	6.6	4	44	35	54	43.5	C5	30	28.5	22.7
3E-08	32	14	9	6	54	45	70.5	57.5		35	37	33.25

5

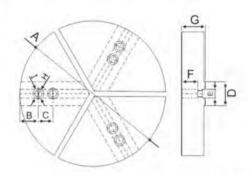
2 ш Ö 4

## SOFT JAWS SERIES

#### HIGHER FULL GRIP PIE JAWS







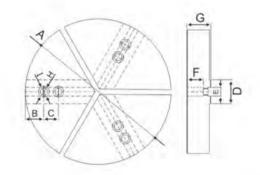
1.5mmx60° Serration Pitch:1.5mmx60°

'UNIT:mm

MODEL SPEC (mm)	Α	В	С	D	E	F	G	н	Î
PJ-05H	130	10	14	25	10	28/38/48	40/50/60	13.5	9
PJ-06H	160	15	20	31	12	25/35/45	40/50/60	17	11
PJ-08H	200	24	25	35	14	34/44/54	50/60/70	19	13
PJ-10H	240	25	30	42	16	44/54/64	60/70/80	19	13
PJ-12H	290	35	30	50	21/18	40/50/60	60/70/80	25/23	17/15
PJ-15H	370	37	43	62	22/25.5	46/56/66	70/80/90	32	21

#### STANDARD FULL GRIP PIE JAWS





Model/Spec (mm)	А	В	С	D	E	F	G	н	1	GW
PJ-05	130	10	14	25	10	18	30	13.5	9	3.6
PJ-06	160	15	20	31	12	21	36	17	11	4.9
PJ-08	200	24	25	35	14	22	38	19	13	10.6
PJ-10	240	25	30	42	16	26	42	19	13	13.6
PJ-12	290	35	30	50	21/18	30	50	25/23	17/15	23.8
PJ-15	370	37	43	62	22/25.5	38	62	32	21	45.8

Customized spec can be made.

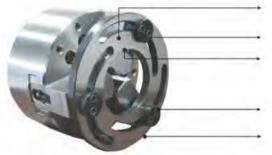
FEATURE To Suit for CNC lathe

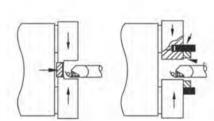
For adjusting the high accuracy of chuck during machining process. The operation process as following:

- 1. Set the jaws to correct position. 2. Adjust the jaw boring ring to fit the bolt holes.
- 3. Lock the chuck to clamp the jaw boring ring. 4. Machining the required size.

  5. Unlock the chuck. 6. If these steps are operated correctly, the clamping accuracy. JAW BORING RING FOR SOFT JAWS will be very precise.

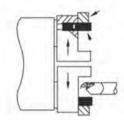


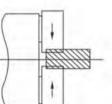


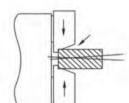


32" 40"

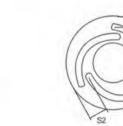
63" 79"

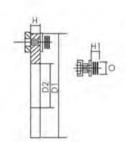












OIZE Tab	10							
MODELS	н	D1	D2	S1	S2	G	н	0
5"	12	140	60	12	28	10	9	13.5
6"	12	168	80	12	32	10	9	16.5
8"	12	218	115	17	36	10	9	18.5
10"	12	258	150	15	40	10	9	18.5
12" Thru-hole	15	316	188	21	50	10	9	24.5
12" Non-Thru	15	316	188	21	50	10	9	21.5
15"	20	380	230	23	52	12	16	31
21"								
24"								

It's made for customized order

#### JAW BORING FIXTURE FOR SOFT JAWS

#### FEATURE

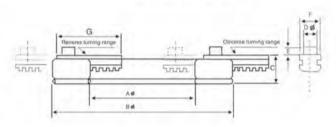
To Suit for CNC lathe

This type jaw boring fixture with a continuous fine adjusting ring can provide accurate position, to reduce the abrasion of soft jaws. Soft jaws can be made to requirements size by this fixture easily. Only several simple process, soft jaws can be bored precisely. With anticlockwise lock, the machining field can be easily expended.





reverse turning range obverse turning range



#### SPECIFICATIONS

UNIT: mm

Spec/Model	A	В	С	D	E	F	G	Jaw Stroke (Dia)	Max Gripping (Kgf)	Max RPM	Weight (Kg)	Matching Chuck
TL-100	100	170	26	13	7	19	61	7.4	1500	800	2.7	5"/6"/8"
TL-125	125	200	26	16.3	8	19	61	7.4	1500	700	3.5	6"/8"/10"
TL-160	160	248	31	18.3	8	24	80	8.5	1750	600	5.6	8"/10"/12"

#### FORMING PLATE FOR SOFT JAWS





It is applicable to make the mould by EDM processing or machining and milling processing.

5" 6" 8" 10" 12"

The available spec of this forming plate are 5" 6" 8" 10" 12" size.

The available forming plate type are 2- jaw or 3-jaw or 4-jaw type.

#### Jaw boring ring for outside diameter

This Jaw boring ring is for machining the exteranl circle of the jaws, in order to expand the workpiece precisely

#### SPECIFICATION

Model	Range	For Chuck
OR-6	Ф 140-Ф 170	6"
OR-8	Φ170-Φ215	8"
OR-10	Φ215-Φ270	10"

OR-12 OR-15



Applications







For OR-12 or OR-15 and other spec is available for customized order.

