

TCP TOOL TIGHTENING FIXTURE

Tool Holder is Changeable

Easy assemble and dis-assemble tool holder from main body while pressing the valve on the right hand side of the unit.



Tool Holder is Adjustable up to 360°

Easily adjusts tool holders for a full 360° (45° increments) by pushing the valve on the top of the tightening fixture.



4pcs of M10x40mm bolt can be fastened from the top of the mounting flange or 4pcs of M12 bolt can be fastened from the bottom of the mounting flange.

Tightening Fixture Main Body



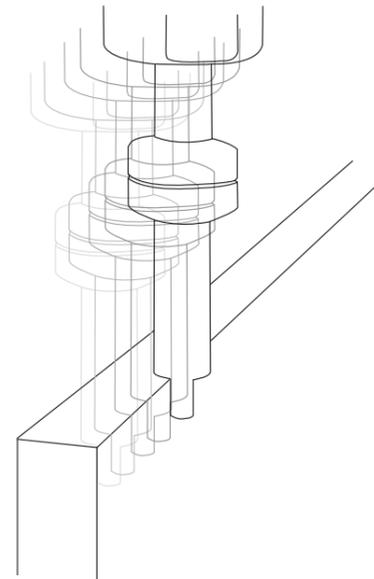
Model No.	kg
TCP-150	6

Tool Holder



Model No.	kg	Model No.	kg
TCP-BT30	2.3	TCP-HSK-A-100	3.8
TCP-BT40	2.8	TCP-HSK-E-25	2.3
TCP-BT50	4.8	TCP-HSK-E-32	2.5
TCP-HSK-A-40	3.3	TCP-HSK-E-40	2.8
TCP-HSK-A-63	2.3	TCP-HSK-E-50	3.0
TCP-HSK-A-80	3.5	TCP-HSK-F-63	3.2

CF MEASURING PROBE



MEASURING PROBE



 CF-0110T	Model : CF-0110T Material : STEEL + Tin Hardness : HV2200 Shank Dia : ϕ 10mm Probe Dia : ϕ 10mm Repeatability : $\pm 2 \mu$
 CF-0110N	Model : CF-0110N Material : STEEL + Cr Hardness : HV2700 Shank Dia : ϕ 10mm Probe Dia : ϕ 10mm Repeatability : $\pm 2 \mu$
 CF-0110C	Model : CF-0110C Material : STEEL + Cr Hardness : HV700 Shank Dia : ϕ 10mm Probe Dia : ϕ 10mm Repeatability : $\pm 2 \mu$
 CF-0104T	Model : CF-0104T Material : STEEL + Tin Hardness : HV2200 Shank Dia : ϕ 10mm Probe Dia : ϕ 10mm / ϕ 4mm Repeatability : $\pm 2 \mu$
 CF-0104N	Model : CF-0104N Material : STEEL + Cr Hardness : HV2700 Shank Dia : ϕ 10mm Probe Dia : ϕ 10mm / ϕ 4mm Repeatability : $\pm 2 \mu$
 CF-0104C	Model : CF-0104C Material : STEEL + Cr Hardness : HV700 Shank Dia : ϕ 10mm Probe Dia : ϕ 10mm / ϕ 4mm Repeatability : $\pm 2 \mu$

OPERATION :

1. Spindle runs about 450~600rpm. Move spindle closed to measuring surface.



2. When measuring probe touches workpiece, it looks in "one part."
3. When the probe and shank are in alignment, probe will slide out of rotating center. Now, the center spindle is located 5mm away from measuring surface.



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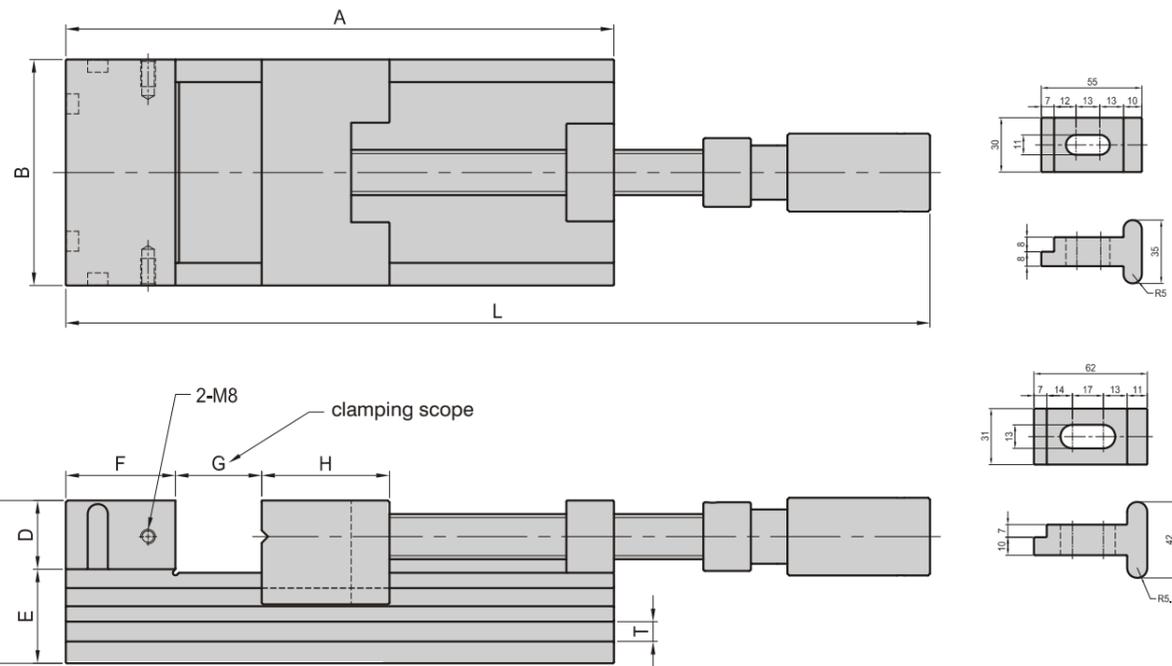
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PGV

PGV PRECISION HYDRAULIC VISE

- Super precision: // $\pm 0.005 / 100\text{mm}$
 $\perp \pm 0.005 / 100\text{mm}$
- Hardness: HRC 58°~60°
- Application: Multifunction tool makers vise, ideally suited for: inspection, grinding or edm work.



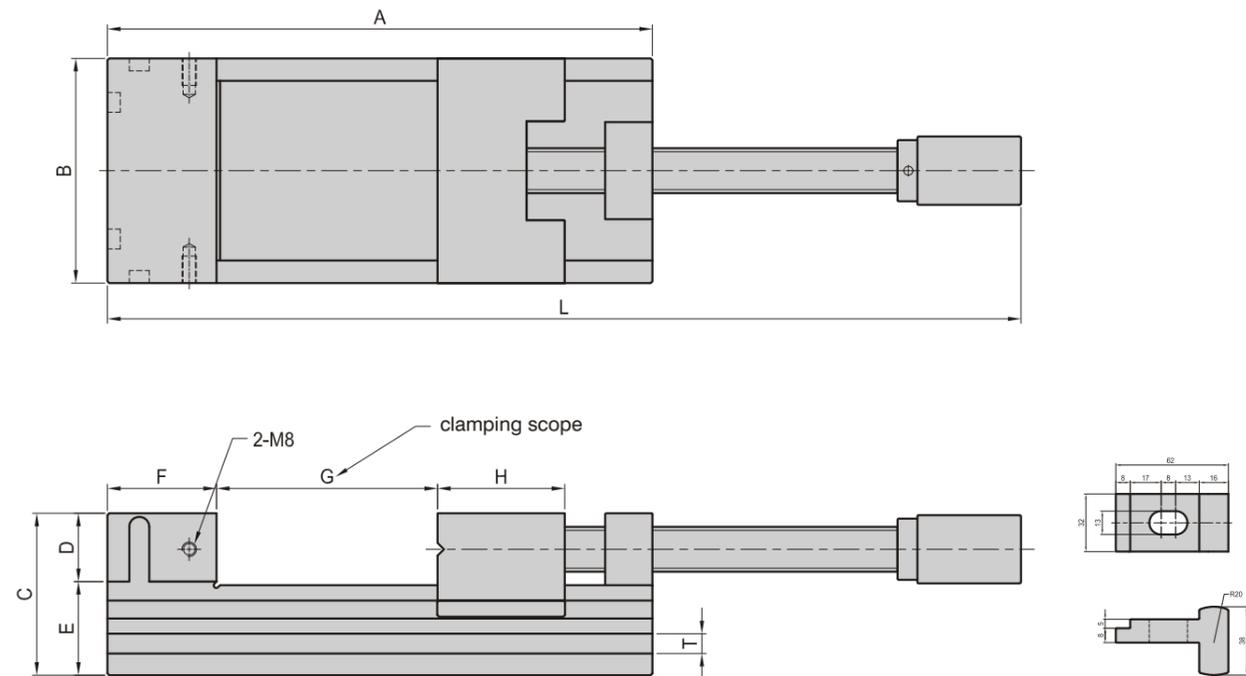
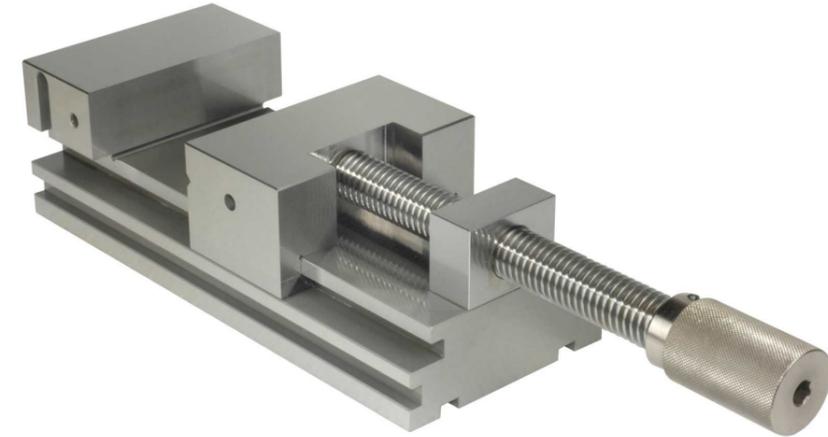
Model No.	A	B	C	D	E	F	G	H	L		T	Material	kg
									MIN	MAX			
PGV-100	220	100	80	38	42	40	0~100	50	344	455	9 x 7	SNCM21 SKS3	10.0
PGV-100N													
PGV-125	300	125	90	38	52	60	0~165	70	420	590	11 x 7	SNCM21 SKS3	19.5
PGV-125N													



PGV

TOOL MAKER VISE

- Super precision: // $\pm 0.005 / 100\text{mm}$
 $\perp \pm 0.005 / 100\text{mm}$
- Hardness: HRC 58°~60°
- Material: SKS3
- Application: Multifunction tool makers vise, ideally suited for: inspection, grinding or edm work.



Model No.	A	B	C	D	E	F	G	H	L		T	kg
									MIN	MAX		
PGV-125M	300	125	90	38	52	60	0~165	70	382	546	11 x 7	19

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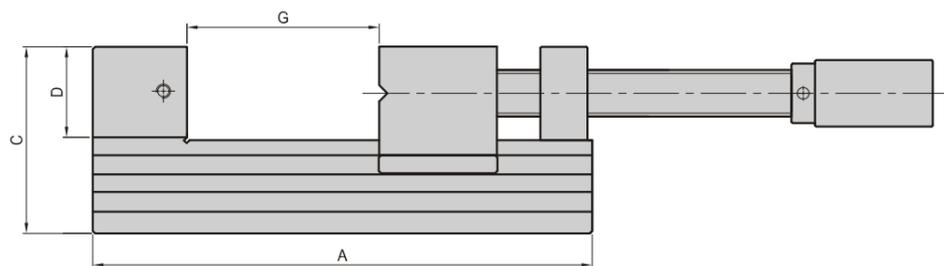
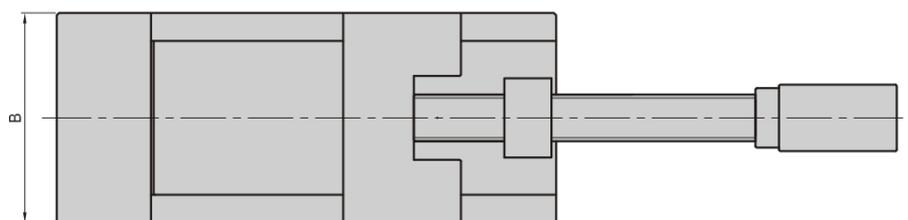
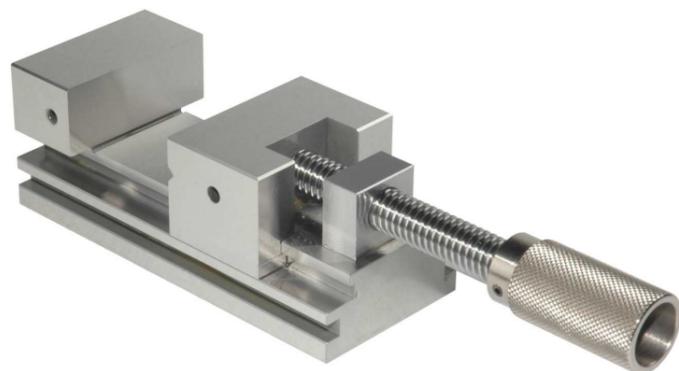
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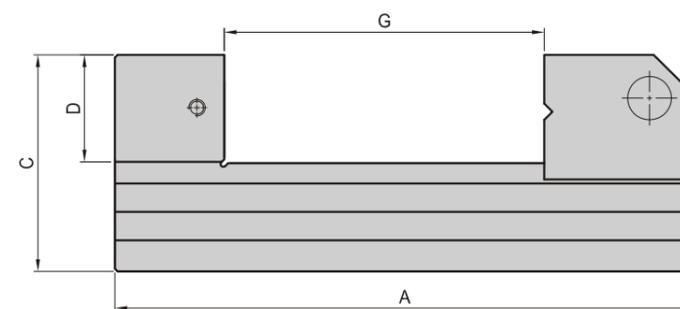
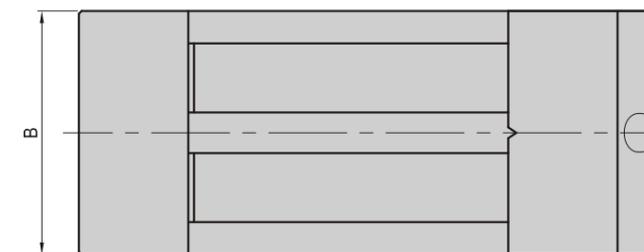
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- Super precision: // $\pm 0.003 / 100\text{mm}$
 $\perp \pm 0.005 / 100\text{mm}$
- Hardness: HRC 58°~60°
- Material: SKS3



Model No.	A	B	C	D	G	kg
GVS-AS60	95	60	50	24	0~30	1.7
GVS-AS70	165	70	62	29	0~80	4.5
GVS-AS90	212	90	80	39	0~120	8.5

- Super precision: // $\pm 0.003 / 100\text{mm}$
 $\perp \pm 0.005 / 100\text{mm}$
- Hardness: HRC 58°~60°
- Material: SKS3



Model No.	A	B	C	D	G	kg
GVS-SV70	160	70	62	29.0	0~80	3.3
GVS-SV90	212	90	80	39.5	0~117	8.3

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OK-VISE

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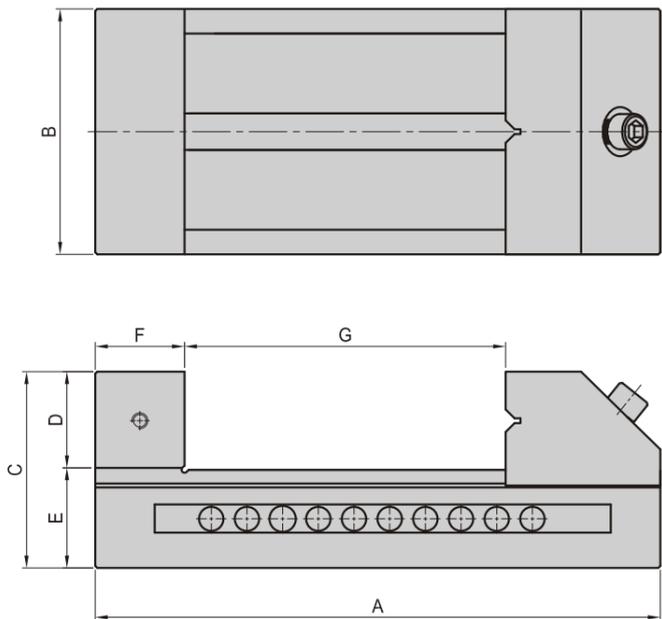
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GVS

TOOL MAKER VISE (LARGE)

- Super precision: // $\pm 0.003 / 100\text{mm}$
 $\perp \pm 0.005 / 100\text{mm}$
- Hardness: HRC 58°~60°
- Material: SKS3



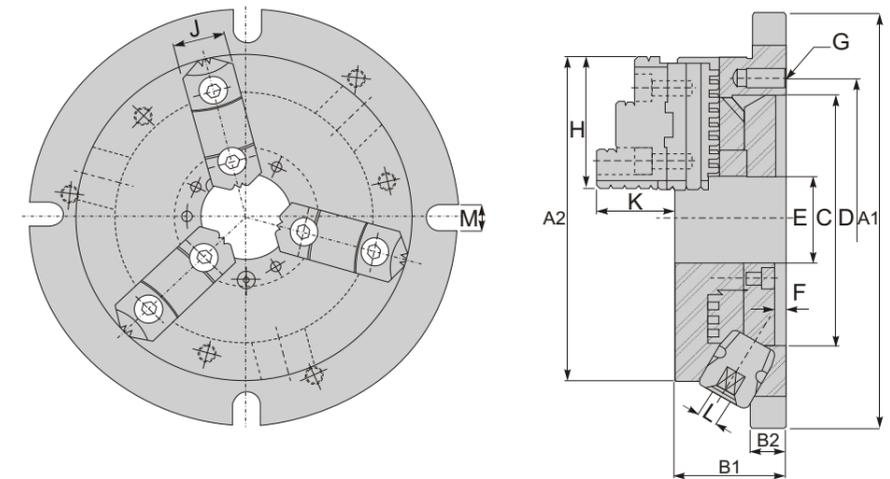
Model No.	A	B	C	D	E	F	G	kg
GVS-VS50	285	125	100	49	51	45	0~160	18



NBK

ROUND SUPER THIN CHUCK

- The angle between "HANDLE" and "BASE OF CHUCK" is 30 degree, therefore, it is much more convenient for "HANDLE" rotation.
- This "POWER SUPER THIN" design of chuck may increase the "allowable length" of machining operation.
- The flanged design makes it easy to load.
- "POWERFUL TYPE" design can be used with hard or soft jaws.



SPEC./MODEL	A1	A2	B1	B2	C	D	E	F	G	H	J	K	L	M	kg	External	Internal
NBK-6	220	170	58	18	130	147	45	6	3-M10	68	26	40	10	13	11.0	$\phi 8 - \phi 160$	$\phi 48 - \phi 150$
NBK-8	270	210	65	20	155	172	60	6	3-M10	82	28	45	11	13	19.5	$\phi 11 - \phi 200$	$\phi 62 - \phi 190$
NBK-10	315	255	73	20	190	210	80	6	3-M12	93	32	52	12	16	29.5	$\phi 12 - \phi 250$	$\phi 72 - \phi 240$
NBK-12	370	305	80	22	250	285	105	6	3-M12	117	40	59	14	18	42.5	$\phi 15 - \phi 300$	$\phi 86 - \phi 290$

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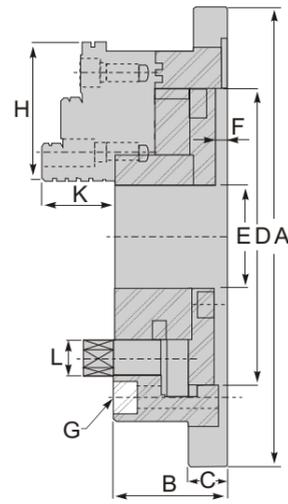
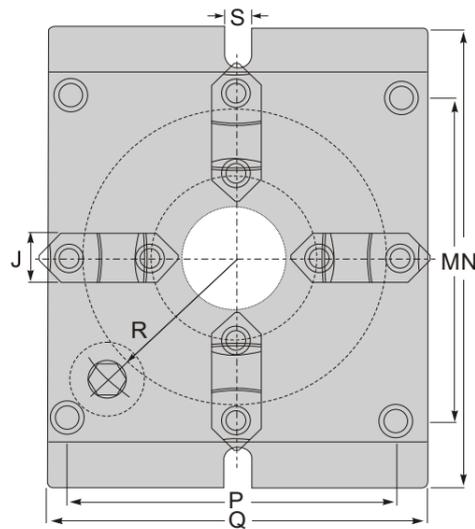
JER-GENS

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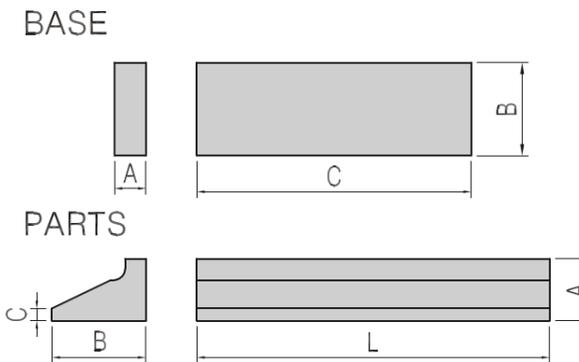
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- End-surface Clamping design
- Super thin design
- Convex design
- Unified height for reference point
- Alignment key on bottom of chuck.
- Soft-jaws are available
- MCA square chucks



- Material: S45C(JIS) / CK45(DIN)
- Hardness: HRC 45°.
- Accuracy: A ± 0.01
B ± 0.01
C ± 0.5



Model No.	BASE SIZE			PARTS SIZE				kg (1)
	A	B	C	A	B	C	L	
GP102-05	5	16	100	-	-	-	-	1 SET/11.6
GP102-06	6	18	100	-	-	-	-	
GP102-08	8	24	100	-	-	-	-	
GP102-10	10	30	100	-	-	-	-	
GP102-12	12	36	150	-	-	-	-	
GP102-14	14	48	150	-	-	-	-	
GP102-18	18	60	150	-	-	-	-	
GP102-22	22	62	150	-	-	-	-	
GP102-24				15	31	2.5	200	

SPEC./MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	Max. Dia Gripped by		kg	
																		external	internal		
MCA-6	215	57	18	130	40	5	4-M10	68	26	39	14	144	165	144	165	66	18		φ 4-φ 128	φ 55-φ 128	13.7
MCA-8	250	65	20	160	55	5	4-M12	82	28	43	17	174	200	174	200	83	18		φ 5-φ 162	φ 62-φ 162	21.5
MCA-10	310	72	22	200	70	6	4-M14	93	32	50	21	218	250	218	250	103	18		φ 6-φ 200	φ 72-φ 200	35.6
MCA-12	380	85	25	260	100	7	4-M16	117	40	56	23	274	310	274	310	135	22		φ 10-φ 265	φ 90-φ 265	61.7

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