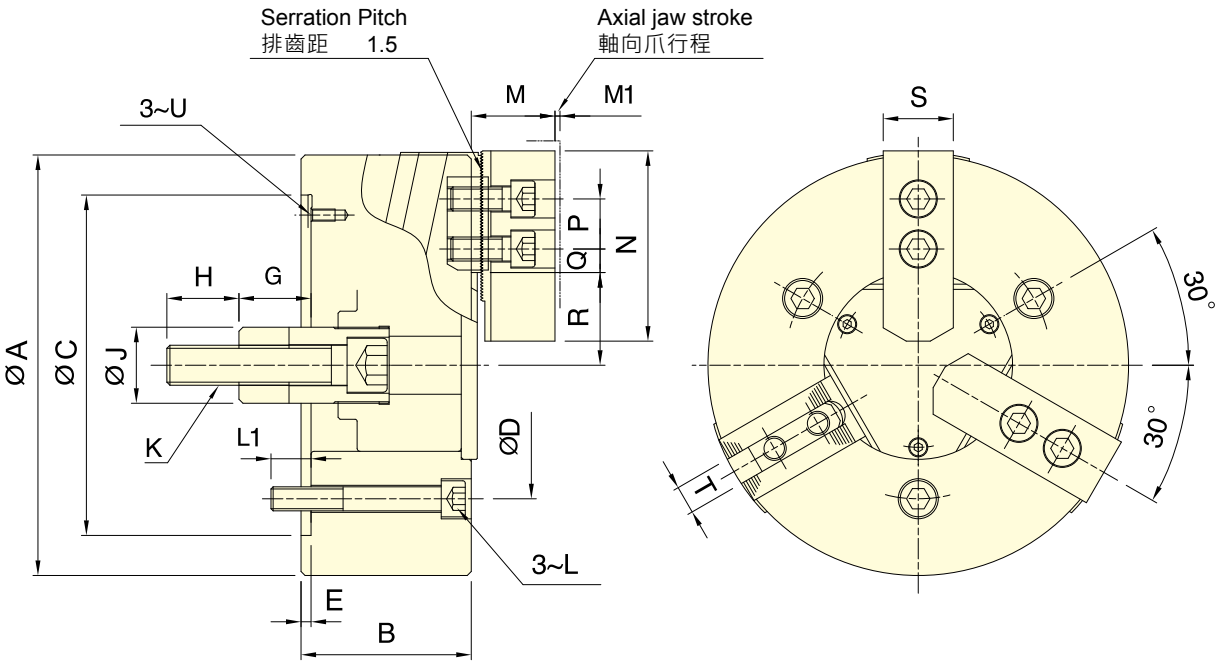
- 中心防塵蓋端面經研磨處理，可做為工件或治具的基準靠模面。
- 內斜式主爪滑道(具有軸向行程的後拉效果)，改善工具夾持上浮情況，並可使用標準生爪。
- The surface of the center through cover is grinding treated, it can be the position base surface of the jig/workpiece.
- The slideway of main jaws is inclined. It improves the clamping force and reduces the upfloat situation of the workpiece.
- Work with standard top jaws.

- 氣密檢知 (選配)。
- 只能用於工件外夾。
- Airtight pressure detect function is optional.
- External gripping only.



技術規格 SPECIFICATIONS

型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg{\cdot}m^2$	kg		MPa (kgf/cm^2)
3N-06	20	8.1 (軸向 0.9)	165	14	18 (1835)	61.5 (6270)	5000	0.05	11.1	RK-100(N)	2.6 (26)
3N-08	23	9.4 (軸向 1.0)	210	17	25 (2540)	85.8 (8750)	4500	0.14	24.5	RK-125(N)	2.2 (22)
3N-10	25	10.2 (軸向 1.1)	254	22	29 (2950)	108 (11000)	4000	0.32	34.5	RK-150(N)	1.8 (18)

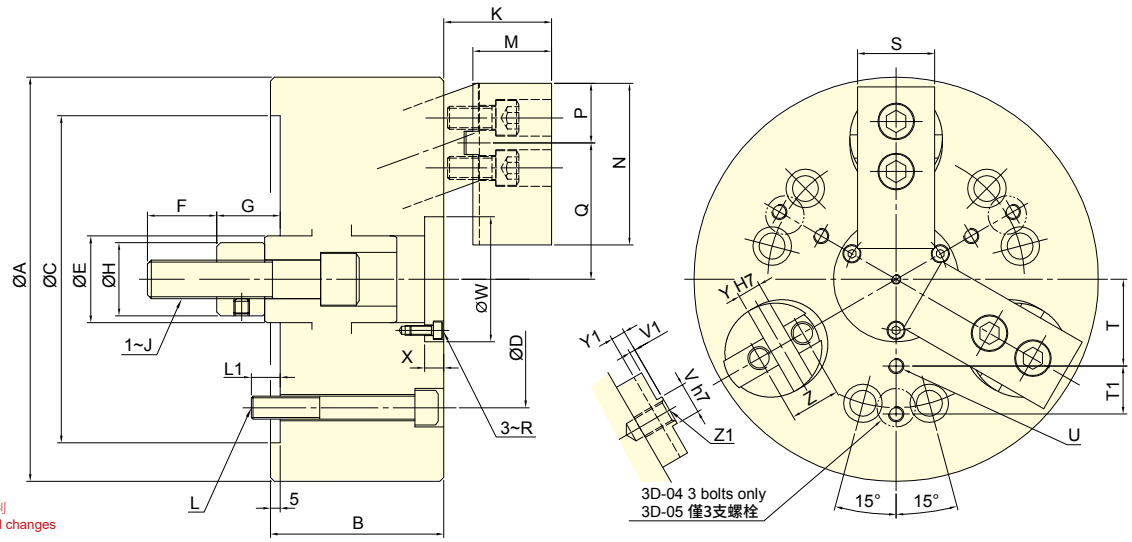
外型尺寸 DIMENSIONS

Model	A	B	C(H6)	D	E	G max.	G min.	H	J	K	L
3N-06	165	72	140	104.8	5	54.5	34.5	36	34	M16x2	M10
3N-08	210	85	170	133.4	5	59	36	36	38	M20x2.5	M12
3N-10	254	89	220	171.4	5	63	38	36	45	M20x2.5	M16

Model	L1	M	M1	N	P	Q max.	Q min.	R max.	R min.	S	T	U
3N-06	16	41	0.9	73	20	15.25	7.75	38.3	34.25	31	12	M6
3N-08	20	42	1.0	95	25	22.25	11.75	46.3	41.6	35	14	M6
3N-10	24	47	1.1	110	30	33.75	11.25	52.1	47	40	16	M8

- 可同時將工件做徑向夾持與軸向後拉，使工件不上浮並緊貼座金基準面。
- 高剛性硬化處理的本體與圓柱後拉機構，並經過軸孔精搪，確保夾持精度與耐用度。
- Radial clamp and axial pull down at the same time, keep the workpiece attaching close to the base surface of the chuck.
- Almost no workpiece uplifting displacement.
- The body and the cylinder pull-down mechanism are heat-treated and fine boring, which guarantee the clamping precision and durableness.

- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.



技術規格 SPECIFICATIONS

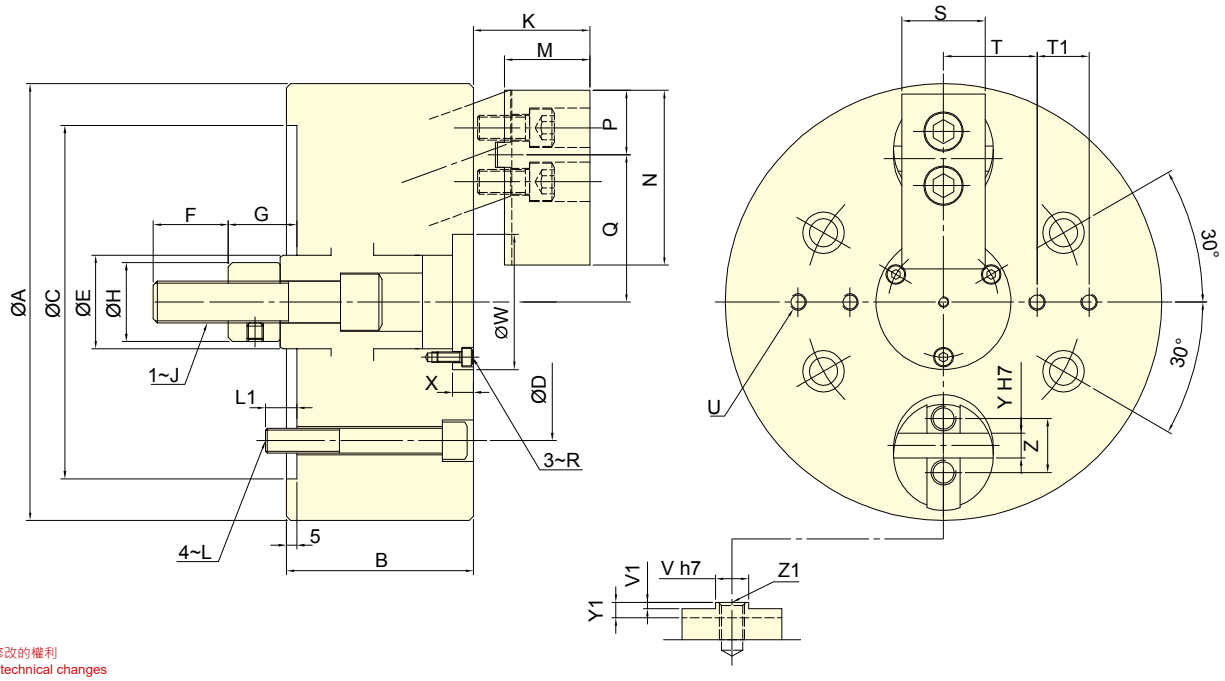
型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg·m^2	kg		MPa (kgf/cm^2)
3D-04	7	5	110	13	6.0(612)	10.5(1070)	3500	0.007	4.5	RK-75	1.6(16.5)
3D-05	7	5	135	21	10.0(1020)	17.0(1730)	3500	0.018	7.9	RK-75	2.7(27.5)
3D-06	10	7.2	165	22	15.0(1530)	25.0(2550)	3500	0.051	15	RK-100	2.1(21.4)
3D-08	10	7.2	210	28	25.0(2550)	45.0(4590)	3000	0.15	26	RK-125	2.2(22.5)
3D-10	15	10.8	254	35	35.0(3569)	60.0(6118)	2500	0.37	46	RK-125	3.1(31.6)
3D-12	15	10.8	304	50	45.0(4590)	75.0(7650)	2000	0.79	70	RK-150	2.8(28.5)
3D-15	20	14.5	381	60	53.9(5500)	90.0(9180)	1500	2.25	132	RK-150	3.4(34.2)

外型尺寸 DIMENSIONS

Model	A	B	C (H6)	D	E	F	G max.	G min.	H	J	K max.	K min.	L	L1	M	N	P
3D-04	110	60	85	70.6	25	20	22	15	25	M10	30	23	3~M10	15	19.5	50	22
3D-05	135	70	110	82.6	30	25	24	17	28	M12	35	28	3~M10	16	24.5	56	23
3D-06	165	85	140	104.8	35	36	37	27	32	M16	45	35	6~M10	16	31	70	27
3D-08	210	90	170	133.4	45	36	38	28	38	M20	56	46	6~M12	15	41	84	31
3D-10	254	110	220	171.4	55	46	47	32	50	M24	65	50	6~M16	24	46	100	38
3D-12	304	125	220	171.4	55	50	49.5	34.5	53	M27	70	55	6~M16	22	51	120	42
3D-15	381	140	300	235	70	55	61	41	55	M30	86	66	6~M20	30	60	165	60

Model	Q max.	Q min.	R	S	T	T1	U	V (h7)	V1	W	X	Y(H7)	Y1	Z	Z1
3D-04	37	34.5	M3	25	22.5	-	3~M6	8	2.5	35	4.5	8	6	-	M10
3D-05	46	43.5	M3	30	27.5	-	3~M6	8	2.5	44	4.5	8	6	-	M12
3D-06	57.7	54.3	M4	35	35	20	6~M6	10	2.5	52	7	10	6.5	-	M14
3D-08	70.8	67.2	M5	40	45	25	6~M8	16	3	65	10	12	7.5	26	M12
3D-10	85	79.6	M6	50	55	30	6~M8	18	3	75	12	15	7.5	32	M14
3D-12	101.9	96.5	M6	60	70	35	6~M10	20	3	90	12	17	7.5	36	M16
3D-15	135.6	128.3	M8	70	95	45	6~M12	24	4	120	13	20	6	40	M16

- 可同時將工件做徑向夾持與軸向後拉，使工件不上浮並緊貼座金基準面。
- 高剛性硬化處理的本體與圓柱後拉機構，並經過軸孔精搪，確保夾持精度與耐用度。
- Radial clamp and axial pull down at the same time, keep the workpiece attaching close to the base surface of the chuck.
- Almost no workpiece uplifting displacement.
- The body and the cylinder pull-down mechanism are heat-treated and fine boring, which guarantee the clamping precision and durableness.
- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.



技術規格 SPECIFICATIONS

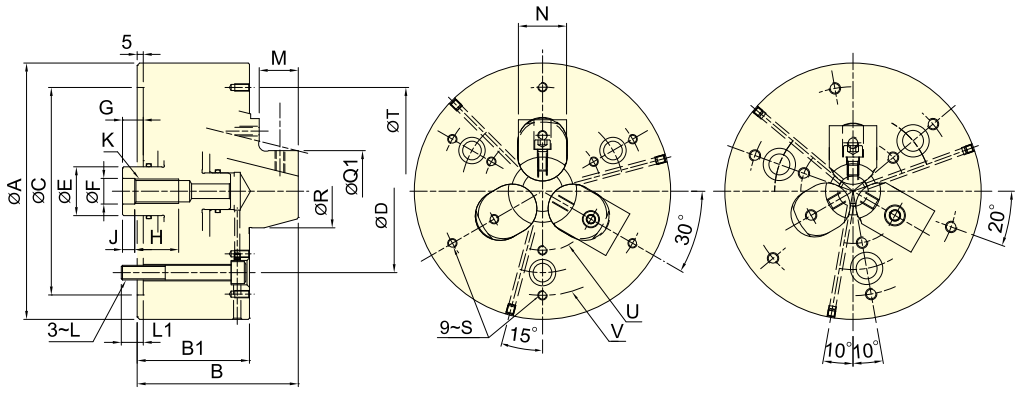
型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg		MPa (kgf/cm²)
2D-05	7	5	135	21	6.6(680)	11.0(1150)	3500	0.018	7.7	RK-75	1.8(18.3)
2D-06	10	7.2	165	22	10.0(1020)	16.7(1700)	3500	0.045	12	RK-100	1.4(14.3)
2D-08	10	7.2	210	28	16.7(1700)	30.0(3060)	3000	0.13	23	RK-125	1.5(15)
2D-10	15	10.8	254	35	23.3(2379)	40.0(4079)	2500	0.34	43	RK-125	2.1(21.1)
2D-12	15	10.8	304	50	30.0(3060)	50.0(5100)	2000	0.73	71	RK-150	1.9(19.0)

外型尺寸 DIMENSIONS

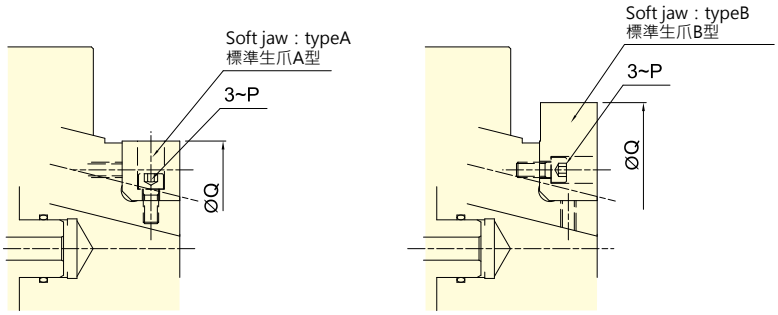
Model	A	B	C (H6)	D	E	F	G max.	G min.	H	J	K max.	K min.	L	L 1	M	N	P
2D-05	135	70	110	82.6	30	25	24	17	28	M12	35	28	M10	16	24.5	56	23
2D-06	165	85	140	104.8	35	36	37	27	32	M16	45	35	M10	16	31	70	27
2D-08	210	90	170	133.4	45	36	38	28	38	M20	56	46	M12	15	41	84	31
2D-10	254	110	220	171.4	55	46	47	32	50	M24	65	50	M16	24	46	100	38
2D-12	304	125	220	171.4	55	50	49.5	34.5	53	M27	70	55	M16	22	51	120	42

Model	Q max.	Q min.	R	S	T	T1	U	V (h7)	V 1	W	X	Y (H7)	Y1	Z	Z1
2D-05	46	43.5	M3	30	27.5	-	2~M6	8	2.5	44	4.5	8	6	-	M12
2D-06	57.7	54.3	M4	35	35	20	4~M6	10	2.5	52	7	10	6.5	-	M14
2D-08	70.8	67.2	M5	40	45	25	4~M8	16	3	65	10	12	7.5	26	M12
2D-10	85	79.6	M6	50	55	30	4~M8	18	3	75	12	15	7.5	32	M14
2D-12	101.9	96.5	M6	60	70	35	4~M10	20	3	90	12	17	7.5	36	M16

- 適用於內徑夾持。
- 可同時將工件做徑向夾持與軸向後拉，使工件不上浮並緊貼座金基準面。
- 高精度安定性，適合最後製程加工。
- Suitable for internal gripping.
- Radial clamp and axial pull down at the same time, keep the workpiece attaching close to the base surface of the chuck.
- Almost no workpiece uplifting displacement.
- With high precision and stability that chuck suitable for end process.
- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.



3E-06、08、10　　3E-05



技術規格 SPECIFICATIONS

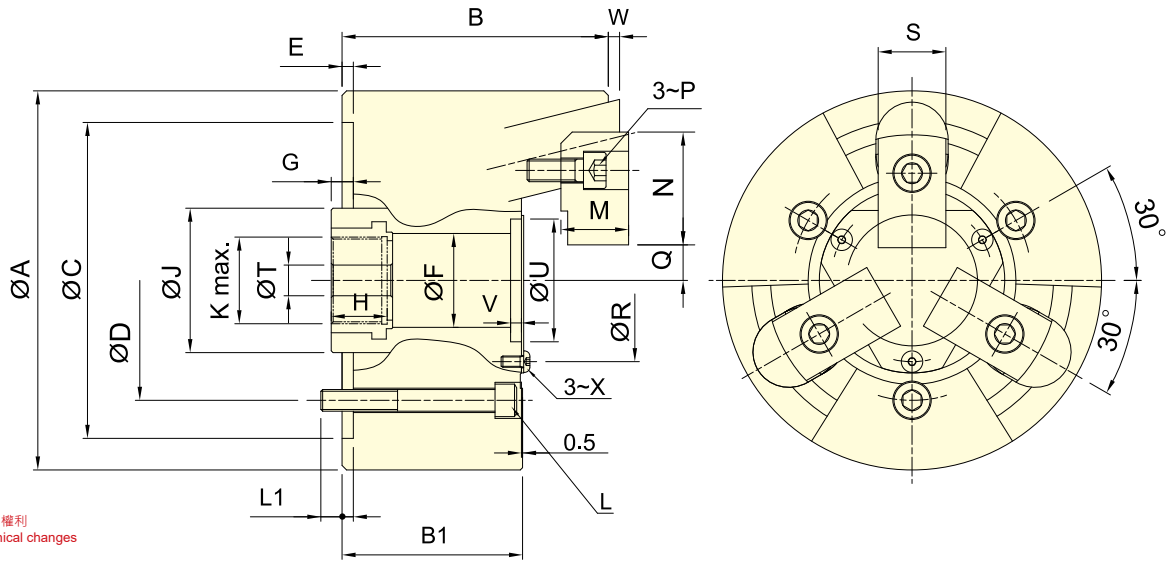
型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大Max.	最小Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg·m^2$	kg		MPa (kgf/cm^2)
3E-05	6	3	83	29	13.0(1325)	42.0(4280)	7000	0.018	7.5	RK-100	1.8(18.5)
3E-06	10	5	110	44	18.0(1835)	58.0(5910)	6000	0.042	13.6	RK-100	2.5(25.6)
3E-08	10	5	150	50	25.0(2530)	80.0(8150)	5000	0.14	26.5	RK-125	2.2(22.5)
3E-10	10	5	190	60	35.0(3570)	100.0(10200)	3600	0.31	39.5	RK-150	2.8(28.5)

外型尺寸 DIMENSIONS

Model	A	B	B1	C (H6)	D	E	F (H8)	G max.	G min.	H	J	K	L	L1
3E-05	135	98	72	110	82.6	25	18	18	12	25	8	M16	M10	15
3E-06	165	112	80	140	104.8	35	18	22	12	30	8	M16	M10	16
3E-08	210	135	90	170	133.4	40	21	22	12	36	10	M20	M12	18
3E-10	254	152	102	220	171.4	50	25	25	15	48	10	M24	M16	23

Model	M	N	P	type A		type B		Q1		R	S	T	U (p.c.d)	V (p.c.d)
				Q max.	Q min.	Q max.	Q min.	max.	min.					
3E-05	20	25	M6	68	50	83	67	50	29	25	M6x12	110	55	110
3E-06	23	31	M6	90	70	110	89	70	44	40	M6x12	130	76	134
3E-08	30	35	M8	110	90	150	108	90	50	49	M6x12	170	100	170
3E-10	35	40	M10	127	110	190	125	110	60	59	M8x16	210	120	210

- 銷柱後拉型三爪中空夾頭。
- 高夾持力及高精度。
- 特別適合使用於需要重切削的場合。
- Pin-Arbor Draw Down type 3-jaw thru-hole power chuck.
- High radial gripping force and high accuracy.
- Suitable for heavy machining.



技術規格 SPECIFICATIONS

型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg・m^2	kg		MPa (kgf/cm^2)
3U-203	4	2	42	14	5.8(590)	16.7(1700)	10000	0.001	1.8	RK-75(N)	1.6(16)
3U-204	6	3	60	10	10.0(1020)	28.4(2900)	8000	0.005	3.9	RK-75(N)	2.7(27)
3U-205	6	3	84	15	13.9(1420)	39.7(4050)	8000	0.012	6.8	RK-100(N)	2.0(20)
3U-206	10	5	105	24	17.9(1830)	57.8(5900)	7000	0.055	14.7	RK-100(N)	2.6(26)
3U-208	12	6	132	25	25.0(2550)	80.0(8150)	6000	0.14	25.5	RK-125(N)	2.2(22)
3U-210	10	5	163	34	31.0(3160)	100.0(10100)	4500	0.36	43.5	RK-125(N)	3.1(31)
3U-212	10	5	210	81	35.0(3570)	100.0(10100)	3600	0.68	63.0	RK-125(N)	3.1(31)

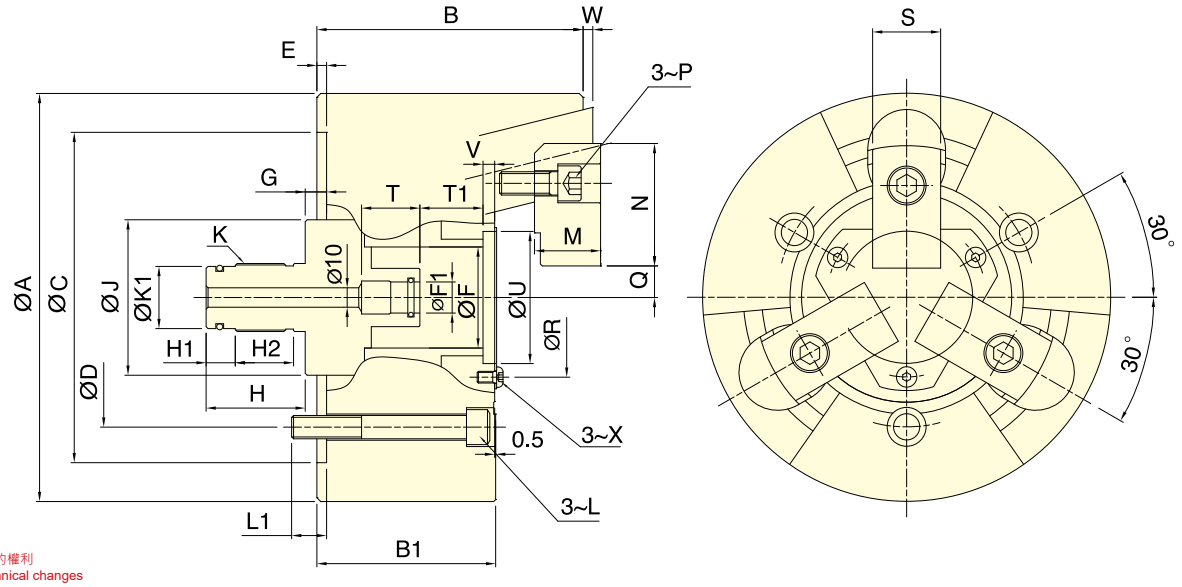
外型尺寸 DIMENSIONS

Model	A	B	B1	C(H6)	D	E	F	G max.	G min.	H	J	K	L	L1
3U-203	85	54.5	42	70	54	3.5	25	18	14	22	38	M20x1.5	3~M8	11
3U-204	110	72.5	55	85	70.6	4	30	16	10	24.5	42	M24x1.5	3~M10	12
3U-205	135	84.5	63	110	82.6	4	35	16	10	26	50	M28x1.5	3~M10	15
3U-206	168	118	80	140	104.8	5	45	20	10	31	60	M38x1.5	3~M10	16.5
3U-208	210	137	92	170	133.4	5	52	23	11	31	80	M48x2	3~M12	18
3U-210	254	152	102	220	171.4	5	75	25	15	37	105	M68x2	3~M16	23
3U-212	304	157	102	220	171.4	5	100	25	15	37	135	M92x2	3~M16	26

Model	M	N	P	Q max.	Q min.	R	S	T	U(H6)	V	W max.	W min.	X
3U-203	12	26	M5	7.5	6.5	38	15	10	32	3.5	2	-2	M3
3U-204	17	40	M6	10.75	9.25	46	20	10	38	4	3	-3	M4
3U-205	20	41.5	M8	13.25	11.75	55	24	10	45	5	3	-3	M5
3U-206	30	50	M10	15.75	13.25	72	30	17	58	6	5	-5	M5
3U-208	34	63	M12	16.25	13.25	82	35	17	68	6	5	-7	M6
3U-210	39	74	M14	20.75	18.25	107	40	17	93	6	5	-5	M8
3U-212	44	74	M14	44.25	41.75	130	40	17	114	6	5	-5	M10

3U-K 後拉固鎖式動力夾頭
PULL LOCK POWER CHUCK

- 銷柱後拉型三爪中實夾頭。
- 高夾持力及高精度。
- 特別適合使用於需要重切削的場合。
- 可配合氣密檢知，進行軸向位置確認，適合長度尺寸精度的要求。
- Pin-Arbor Draw Down type 3-jaw non-thru-hole power chuck.
- High radial gripping force and high accuracy.
- Suitable for heavy machining.
- Can work with the airtight detection device to perform axial position confirm, suitable for the precision of large length size process.



技術規格 SPECIFICATIONS

型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg·m^2	kg		MPa (kgf/cm^2)
3U-205K	6	3	84	15	13.9(1420)	39.7(4050)	8000	0.018	6.8	RL-100, RL-A100N	2.0(20)
3U-206K	10	5	105	24	17.9(1830)	57.8(5900)	7000	0.055	14.9	RL-100, RL-A100N	2.5(25)
3U-208K	12	6	132	25	25.0(2550)	80.0(8150)	6000	0.14	25.8	RL-125, RL-A125N	2.2(22)
3U-210K	10	5	163	34	31.0(3160)	100(10100)	4500	0.36	44.0	RL-125, RL-A125N	3.1(31)
3U-212K	10	5	210	81	35.0(3570)	100(10100)	3600	0.68	63.8	RL-125, RL-A125N	3.1(31)

外型尺寸 DIMENSIONS

Model	A	B	B1	C(H6)	D	E	F	F1(H8)	G max.	G min.	H	H1	H2	J	K	K1	L
3U-205K	135	84.5	63	110	82.6	4	35	14	16	10	42	12	-	50	M25x1.5	22	M10
3U-206K	168	118	80	140	104.8	5	45	14	20	10	48	12	30	60	M28x1.5	24	M10
3U-208K	210	137	92	170	133.4	5	52	16	23	11	51	15	30	80	M35x1.5	30	M12
3U-210K	254	152	102	220	171.4	5	75	16	25	15	51	15	30	105	M38x1.5	34	M16
3U-212K	304	157	102	220	171.4	5	100	16	25	15	51	15	30	135	M45x1.5	40	M16

Model	L1	M	N	P	Q max.	Q min.	R	S	T	T1	U(H6)	V	W max.	W min.	X
3U-205K	15	20	41.5	M8	13.25	11.75	55	24	25	15.5	45	5	3	-3	M5
3U-206K	16.5	30	50	M10	15.75	13.25	72	30	30	26.5	58	6	5	-5	M5
3U-208K	18	34	63	M12	16.25	13.25	82	35	30	32.5	68	6	5	-7	M6
3U-210K	23	39	74	M14	20.75	18.25	107	40	30	36.5	93	6	5	-5	M8
3U-212K	26	44	74	M14	44.25	41.75	130	40	30	36.5	114	6	5	-5	M10

3W/3W-C 擺動型後拉三爪夾頭
SWING TYPE 3-JAW POWER CHUCK

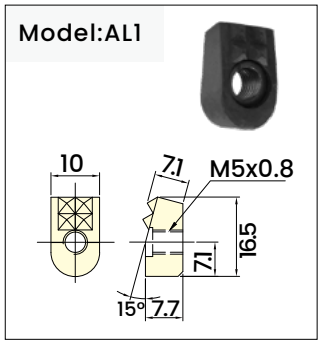
台灣精品 2020
TAIWAN EXCELLENCE

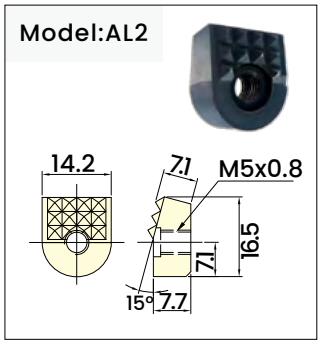
- 三爪擺動夾持工件。(自動求心型 3W)
- 適合鑄件及鍛件等原材料進行加工。
- 特別適合使用於需要重切削的場合。
- 防塵及防切削液密封圈，使保養工作更加便利。
- 擺動機構零件均以合金鋼加以熱處理硬化及研磨，以提升產品使用壽命。
- 三爪擺動夾持工件。(定心補償型 3W-C)
- 工件偏心補償量2mm，中心頂針定位。

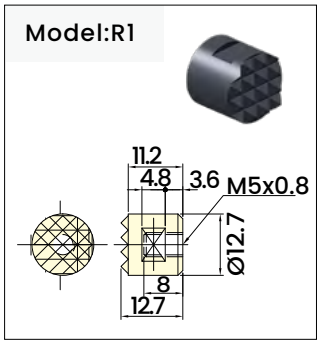
- Swing and grasp the workpiece to three jaw. (3W is automatically positioned to the center type.)
- Suitable for such materials as the casting and forging to process.
- Suitable for heavy machining.
- Seal proof for dust and cutting fluid, it is more convenient when maintenance.
- Swing parts are to heat treatment hardened and ground for steel, in order to improve products service life.
- Swing and grasp the workpiece to three jaw.(3W-C is center compensation type .)
- The workpieces compensation of eccentric is 2 mm, fixed position for the center thimble.

- 可搭配鎢鋼爪，根據工件條件選擇鎢鋼爪型式。(選購品)
- 依不同加工需求，外徑夾持可旋轉為內徑夾持。
- Carbide gripper is optional.
  * The type of the carbide gripper is selected according to the work-piece conditions.
- According to different processing requirements, O.D. Gripping and I.D. Gripping can be interchanged.

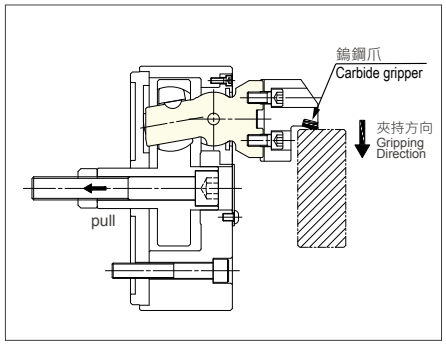
鎢鋼爪型式 Type of the Carbide gripper



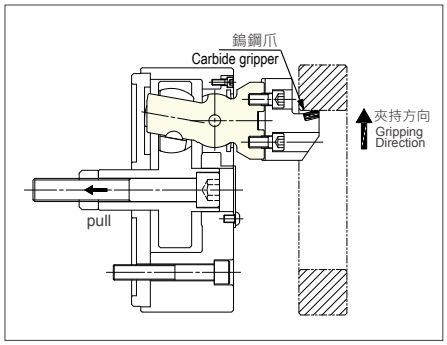




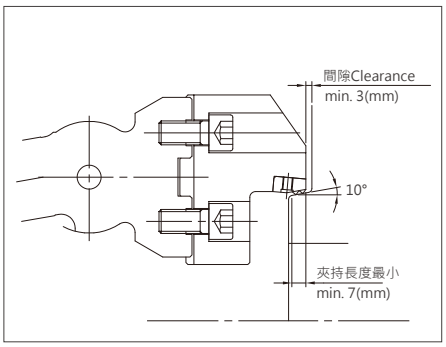
外徑夾持 O.D. Gripping



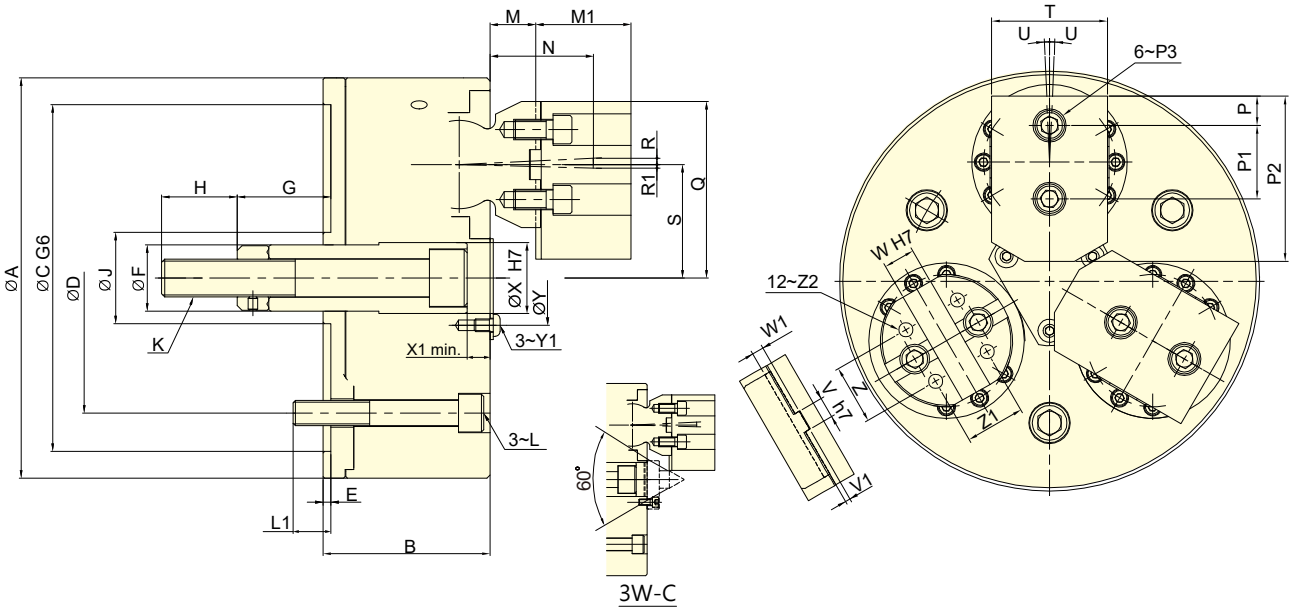
內徑夾持 I.D. Gripping



最小夾持範圍 Min. Gripping range



3W/3W-C 擺動型後拉三爪夾頭
SWING TYPE 3-JAW POWER CHUCK



技術規格 SPECIFICATIONS

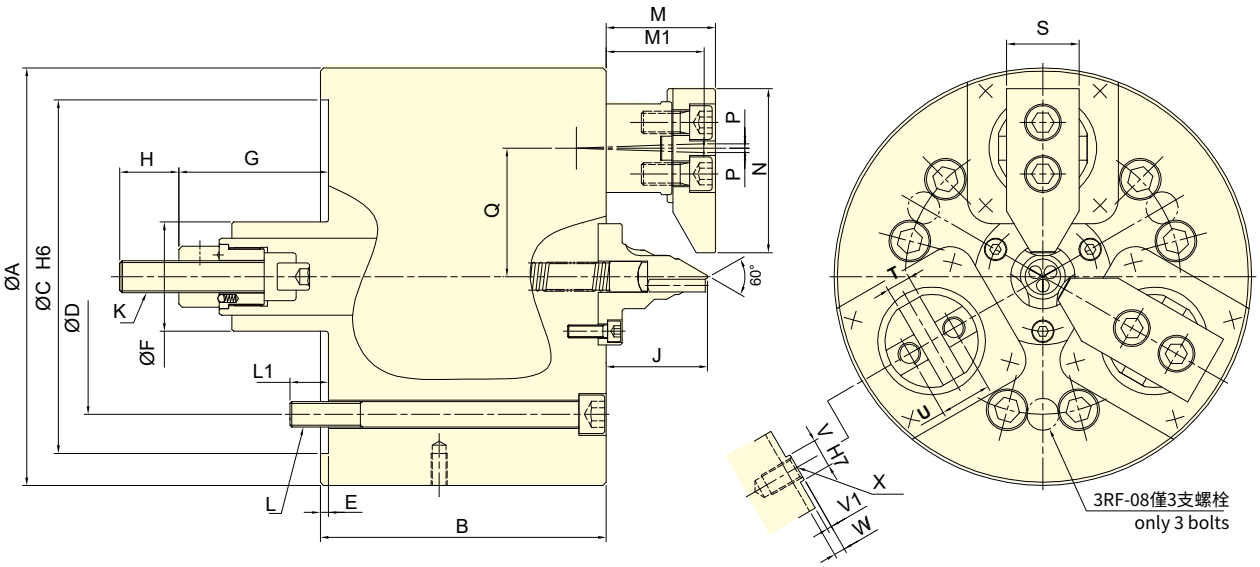
型號	楔心行程	爪行程(直徑)	夾持外徑 Chucking O.D.	夾持內徑 Chucking I.D.	容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	補償量
Model	Plunger stroke	Jaw stroke (Dia.)	最小~最大 Min.~Max.	最小~最大 Min.~Max.	Max. D.B. pull	Max. clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Compensation
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg·m^2$	kg		mm
3W-08	14.4	9.8	16~150	76~203	25(2550)	85.0(8670)	3700	0.12	23	RK-100(N)	-
3W-C08	14.4	9.8	16~150	76~203	25(2550)	85.0(8670)	3700	0.12	23	RK-100(N)	2
3W-10	17.5	12.5	50~205	85~235	35.3(3600)	105.9(10800)	2500	0.37	48.6	RK-125(N)	-
3W-C10	17.5	12.5	50~205	85~235	35.3(3600)	105.9(10800)	2500	0.37	48.6	RK-125(N)	2
3W-12	17.5	12.5	63~240	127~305	35.3(3600)	105.9(10800)	2400	0.73	65	RK-125(N)	-
3W-C12	17.5	12.5	63~240	127~305	35.3(3600)	105.9(10800)	2400	0.73	65	RK-125(N)	2
3W-15	22.5	15.9	76~317	165~381	56(5600)	168.2(16800)	2000	1.81	97	RK-150(N)	-
3W-C15	22.5	15.9	76~317	165~381	56(5600)	168.2(16800)	2000	1.81	97	RK-150(N)	3

外型尺寸 DIMENSIONS

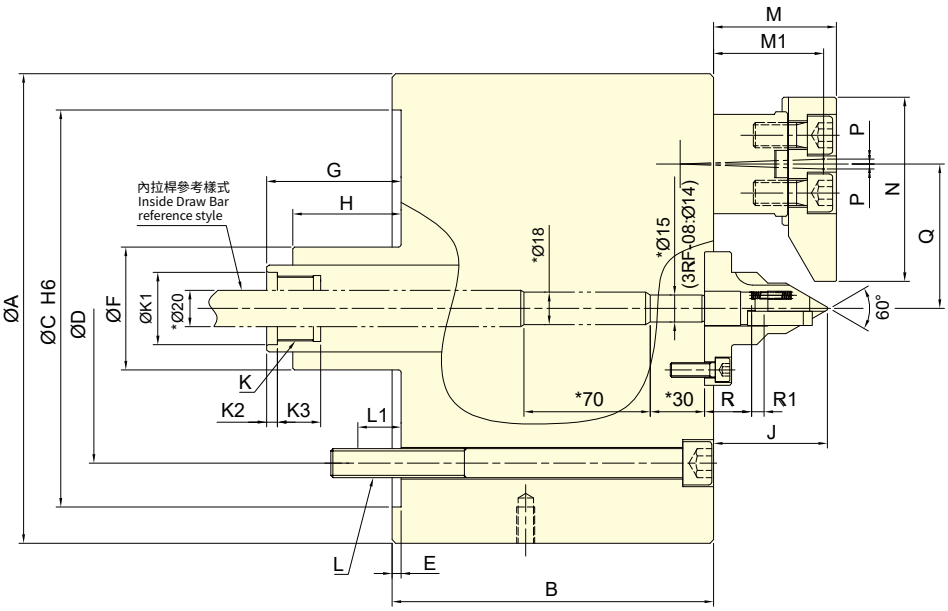
Model	A	B	C(G6)	D	E	F	G max.	G min.	H	J	K	L	L1	M	M1	N	P	P1	P2
3W-08	210	89	170	133.4	5	34	51.9	37.5	40	50	M18x2.5	M12	19	19.3	56.5	52.7	16	38	80
3W-C08	210	89	170	133.4	5	34	51.9	37.5	40	50	M18x2.5	M12	19	19.3	56.5	52.7	16	38	80
3W-10	254	106	220	171.4	5	42	67.5	50	48	58	M24x3	M16	24	29	60.5	65.6	17.8	44.4	100
3W-C10	254	106	220	171.4	5	42	67.5	50	48	58	M24x3	M16	24	29	60.5	65.6	17.8	44.4	100
3W-12	304	106	220	171.4	5	42	67.5	50	48	58	M24x3	M16	24	29	60.5	65.6	17.8	44.4	100
3W-C12	304	106	220	171.4	5	42	67.5	50	48	58	M24x3	M16	24	29	60.5	65.6	17.8	44.4	100
3W-15	381	120	300	235	5	55	62.5	40	46	80	M27x3	M20	30	32.4	72	74.3	19	63.5	140
3W-C15	381	120	300	235	5	55	62.5	40	46	80	M27x3	M20	30	32.4	72	74.3	19	63.5	140

Model	P3	Q	R	R1	S	T	U	V (h7)	V1	W (H7)	W1	X(H7)	X1	Y	Y1	Z	Z1	Z2
3W-08	M12	95	2.69	2.24	60	57	2	7.94	3	12.68	7	34	3.5	46	M6	32	32	M10
3W-C08	M12	95	2.69	2.24	60	57	2	7.94	3	12.68	7	34	3.5	46	M6	32	32	M10
3W-10	M12	112	4.03	2.26	72	70	2.5	12.7	3	19.03	7	45	5	60	M8	36	36	M10
3W-C10	M12	112	4.03	2.26	72	70	2.5	12.7	3	19.03	7	45	5	60	M8	36	36	M10
3W-12	M12	132.5	4.03	2.26	92.5	70	2.5	12.7	3	19.03	7	45	5	60	M8	36	36	M10
3W-C12	M12	132.5	4.03	2.26	92.5	70	2.5	12.7	3	19.03	7	45	5	60	M8	36	36	M10
3W-15	M12	172	5.14	2.83	121	80	2	12.7	3	19.03	7	56	3	90	M8	36	36	M10
3W-C15	M12	172	5.14	2.83	121	80	2	12.7	3	19.03	7	56	3	90	M8	36	36	M10

- 工件偏心補償量1mm，中心頂針定位，三爪擺動夾持工件。
- 可以在不反轉工件的情況下進行二次加工，因此大幅減少準備時間。
- 通過補償主爪夾緊進行粗、精加工。 內部密封，使維護成本低。
- 搭配雙桿型迴轉缸(3RF-D)。
- 驅動銷推力大小可由迴轉缸壓力控制(3RF-D)。
- The workpiece compensation of eccentric is 1mm, fixed position for the center, swing and grasp the workpiece to three jaw.
- Second machining can be performed without reversing the workpiece, thus significantly reducing setup time.
- With compensating jaws clamping, the Rough and precision machining can be carried out.
- With sealed design, the maintenance costs can be reduced.
- Can be paired with double-rod rotary cylinder (3RF-D type).
- The driver pin thrust can be controlled by the pressure of the rotary cylinder (3RF-D type).



3RF



3RF-D

註.標示[*]之寸法為內拉桿製作之尺寸，請勿任意更動。
Note: The dimensions marked [*] are the dimensions of the inside Draw Bar ,
Please don't change it.

技術規格 SPECIFICATIONS

型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	補償量
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Compensation
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg{\cdot}m^2$	kg		mm
3RF-08	43.5	9.4	70	18	39.2 (4000)	39.2 (4000)	4000	0.15	39.4	RS-1250	1
3RF-08D	43.5	9.4	70	18	39.2 (4000)	39.2 (4000)	4000	0.15	38.6	RDL-160S	1
3RF-10	50	11	85	25	44.1(4500)	67.4(6873)	3500	0.56	68.3	RS-1550	1
3RF-10D	50	11	85	25	44.1(4500)	67.4(6873)	3500	0.56	67.5	RDL-160S	1
3RF-12	52	11.2	110	25	78.4(8000)	99(10000)	2500	0.56	109	RS-2060	1
3RF-12D	52	11.2	110	25	78.4(8000)	99(10000)	2500	0.56	107.7	RDL-160S	1

外型尺寸 DIMENSIONS

Model	A	B	C (H6)	D	E	F	G max.	G min.	H	J	K	K1 (H7)	K2	K3	L	L1
3RF-08	210	155	170	133.4	5	68	123	79.5	37	58	M20x2.5	-	-	-	3~M12	18
3RF-08D	210	155	170	133.4	5	68	98	54.5	50	58	M36x1.5	40.5	6	24	3~M12	18
3RF-10	260	178	220	171.4	5	68	143	93	37	63	M20x2.5	-	-	-	6~M16	24
3RF-10D	260	178	220	171.4	5	68	116.5	66.5	60	63	M36x1.5	40.5	6	24	6~M16	26
3RF-12	315	190	220	171.4	5	76	167	115	46	70	M24x3	-	-	-	6~M16	24
3RF-12D	315	190	220	171.4	5	76	135	83	75	70	M40x1.5	44.5	6	28	6~M16	24

Model	M max.	M min.	M1	N	P	Q	R	R1 max.	R1 min.	S	T(H7)	U	V	V1	W	X
3RF-08	62	31	58	78	2.35	62	-	-	-	40	12	26	16	3	7	M12
3RF-08D	62	31	58	78	2.35	62	25.5	7	0	40	12	26	16	3	7	M12
3RF-10	68	35.5	61	102	2.75	80	-	-	-	45	15	32	18	3	7	M14
3RF-10D	68	35.5	61	102	2.75	80	28	7	0	45	15	32	18	3	7	M14
3RF-12	76	43	63	125	2.8	100	-	-	-	50	17	36	20	3	7	M16
3RF-12D	76	43	63	125	2.8	100	28	7	0	50	17	36	20	3	7	M16

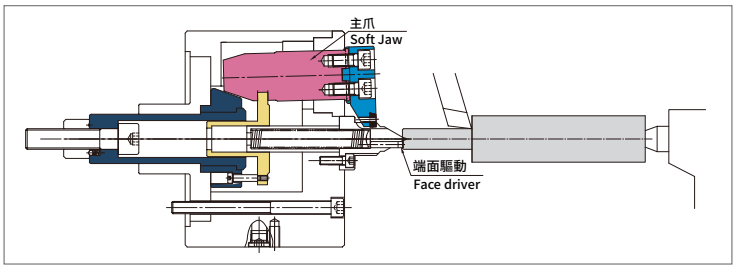
應用說明 Application Notes

1.加工夾持直徑

補償主爪縮回，工件在中心頂針與尾座頂針間支撐，並透過端面驅動來操作。

1.Clamping diameter machining

The compensating jaws are retracted. The workpiece is clamped between chuck center and tailstock center. Additionally, it is driven by the face driver.

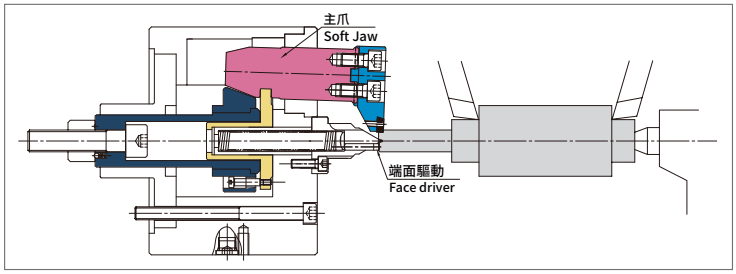


2.粗加工

通過補償主爪夾緊進行粗加工。

2.Rough machining

With compensating jaws clamping, the rough machining can be carried out.

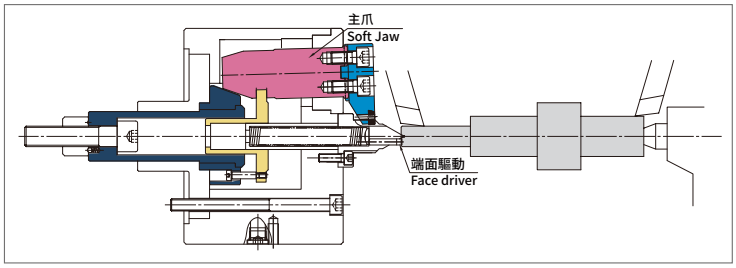


3.精加工

補償主爪縮回，工件在中心頂針與尾座頂針間支撐，並透過端面驅動完成加工，可加工所有的部位，並可達到同心度的要求。

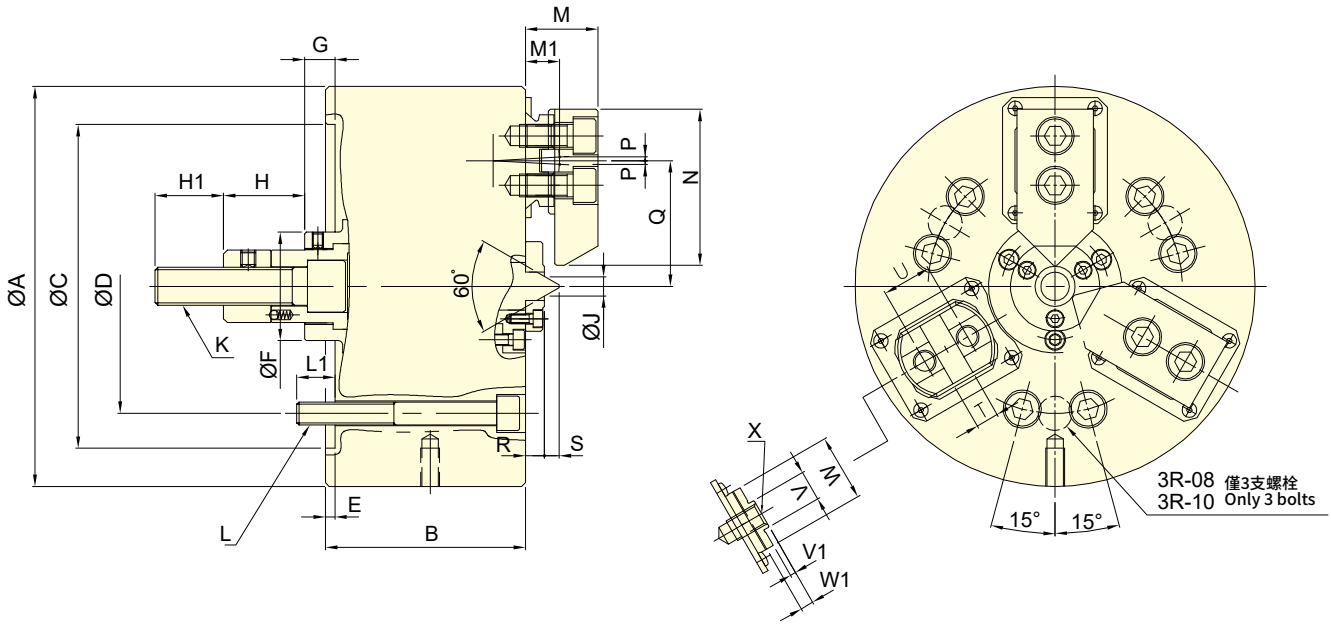
3.Finish machining

Additionally, it is driven by the face driver. The entire workpiece can be machined with precise concentricity.



擺動補償型三爪夾頭
SWING COMPENSATING TYPE 3-JAW POWER CHUCK

- 工件偏心補償量2mm，中心頂針定位，三爪擺動夾持工件。
- 特殊防水密封圈，防塵及防切削液，使保養工作更加便利。
- 擺動機構零件均以合金鋼加以熱處理硬化及研磨，以提升產品使用壽命。
- The workpieces compensation of eccentric is 2 mm, fixed position for the center thimble, swing and grasp the workpiece to three jaw.
- Special seal proof for dust and cutting fluid, it is more convenient when maintenance.
- Swing parts are to heat treatment hardened and ground for steel, in order to improve products service life.



保留規格修改的權利
Subject to technical changes

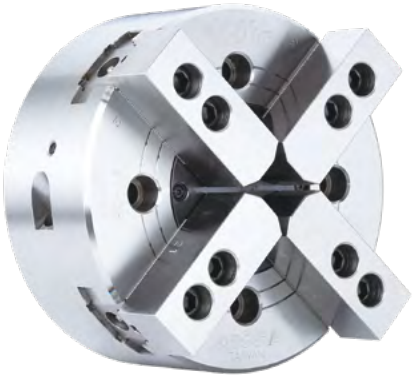
技術規格 SPECIFICATIONS

型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	補償量
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Compensation
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg		mm
3R-08	20	8	65	18	19.6(2000)	53.0(5404)	2800	0.15	27	RK-100N	2
3R-10	25	10	90	22	29.4(3000)	67.7(6901)	2500	0.38	45	RK-125N	2
3R-12	25	10.2	110	22	39.4(4000)	88.4(9010)	2000	0.75	72	RK-150N	2

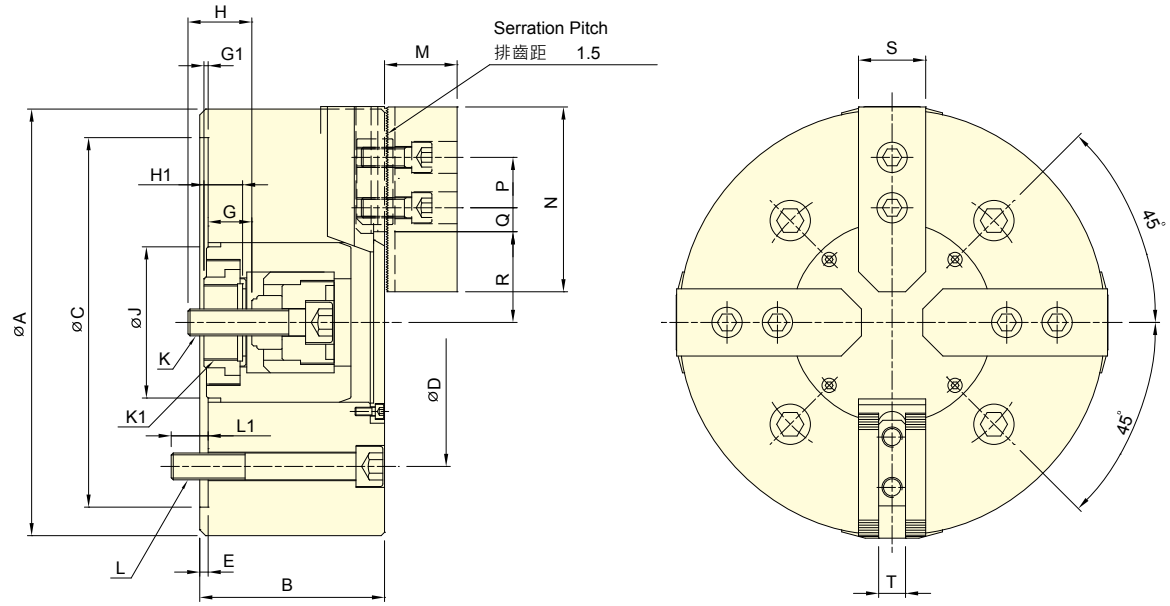
外型尺寸 DIMENSIONS

Model	A	B	C (H6)	D	E	F	G max.	G min.	H	H1	J	K	L	L1
3R-08	210	105	170	133.4	5	57	26	6	42.5	36	10.4	M20x2.5	3~M12	20
3R-10	254	115	220	171.4	5.5	64	36.5	11.5	25	39	15	M20x2.5	3~M16	22.5
3R-12	304	130	220	171.4	5	70	25	0	33	45.5	15	M24x3	3~M16	22

Model	M	M1	N	P	Q max.	Q min.	R	S	T (H7)	U	V	V1	W	W1	X
3R-08	38	18	82	2	68	64	10	7.7	12	26	16	3	35	7	M12
3R-10	40	19	102	2.6	82	78	10	11.3	15	32	18	3	40	7	M14
3R-12	51	24	125	2.5	102.5	97.5	10	11.3	17	36	20	3	50	7	M16



- 曲柄型雙副兩爪各自動作之特殊夾頭。
- 特別適用方形材或其他非規則形狀的工件。
- CRANK type with two pairs of 2 jaws self center independent of each other.
- The 4T series is suitable for square bar and other nonuniform shaped workpieces.



保留規格修改的權利
Subject to technical changes

技術規格 SPECIFICATIONS

型號	楔心行程	爪行程 (直徑)	夾持範圍 Chucking Range		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg·m^2$	kg		MPa (kgf/cm^2)
4T-08	17	13.6	210	24	16.0(1630)	54.3(5540)	3000	0.15	23.2	RD-120(N)	1.7(17)
4T-10	20	16	254	50	21.6(2200)	79.4(8100)	2100	0.35	44.3	RD-125(N)	2.2(22)
4T-12	20	16	304	50	21.6(2200)	79.4(8100)	1500	0.66	57.6	RD-125(N)	2.2(22)
4T-15	25	19.6	381	60	27.2(2780)	105.3(10750)	1200	2.25	118.3	RD-125(N)	2.7(27)

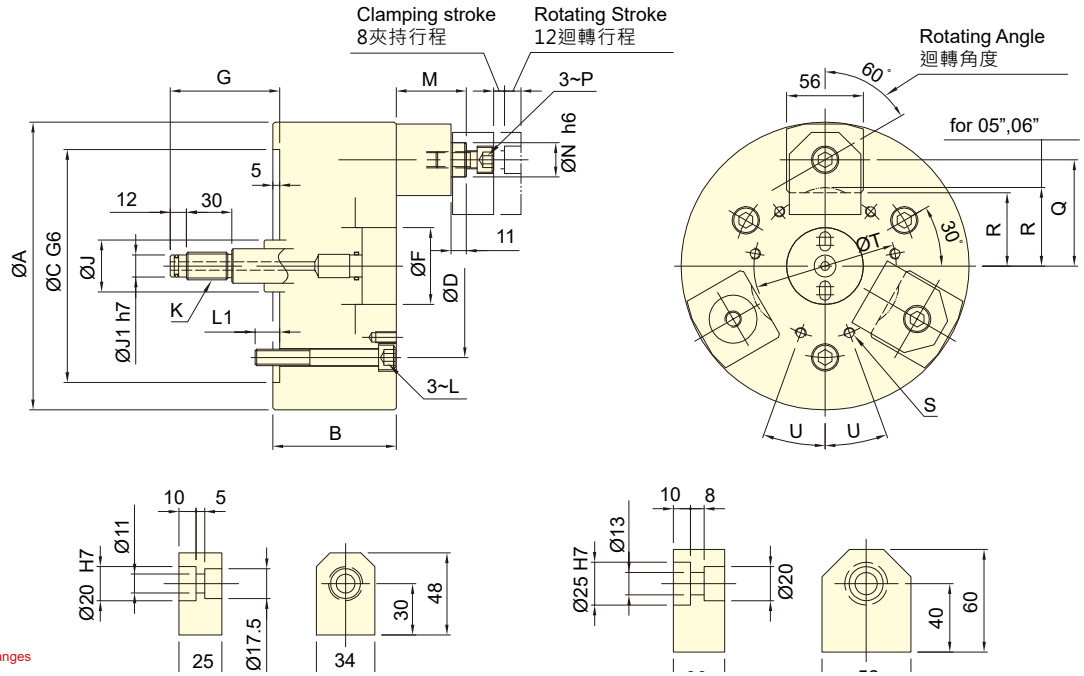
外型尺寸 DIMENSIONS

Model	A	B	C(H6)	D	E	G max.	G min.	G1 max.	G1 min.	H	H1	J	K
4T-08	210	91	170	133.4	5	32	15	2.5	-14.5	29	20	61	M14x2
4T-10	254	110	220	171.4	5	36.5	16.5	10	-10	36	23	90	M16x2
4T-12	304	110	220	171.4	5	36.5	16.5	10	-10	36	23	90	M16x2
4T-15	381	135	300	235	6	44.5	19.5	5	-20	45	28	110	M20x2.5

Model	K1	L	L1	M	N	P	Q max.	Q min.	R max.	R min.	S	T
4T-08	M34x1.5	4~M2	20	38	95	25	25.25	13.25	46.1	39.3	35	14
4T-10	M45x1.5	4~M16	25	43	110	30	32.25	12.75	59	51	40	16
4T-12	M45x1.5	4~M16	25	43	110	30	54.75	15.75	59	51	40	16
4T-15	M55x2	4~M20	30	51	130	30	66.5	12.5	78.9	69.1	50	21

- 採工件端面夾持，防止工件夾持變形，適合薄壁工件加工。
- 夾持補償機構，可夾持不規則端面之工件。
- Gripping at the end face and preventing deformation of workpiece.
- Suitable for thin wall workpiece processing.
- The gripping compensating mechanism can grasp the irregular surface workpieces well.

- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.



技術規格 SPECIFICATIONS

型號	迴轉行程	夾持行程	爪補償量	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Rotating stroke	Claming stroke	Jaw's compensation	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg		MPa (kgf/cm²)
3J-05	12	8	2	53	25	7.5(765)	6.0(612)	4000	0.02	11.0	RK-100 OR RK-100(N)	1.0(10)
3J-06	12	8	2	79	55	9.0(918)	7.5(765)	4000	0.04	12.0	RK-100 OR RK-100(N)	1.2(12)
3J-08	12	8	2	106	75	18.0(1835)	16.5(1680)	3500	0.13	23.0	RK-100 OR RK-100(N)	2.5(25)
3J-10	12	8	2.5	150	119	18.0(1835)	16.5(1680)	3500	0.30	33.0	RK-100 OR RK-100(N)	2.5(25)
3J-12	12	8	2.5	200	169	18.0(1835)	16.5(1680)	3000	0.56	44.0	RK-100 OR RK-100(N)	2.5(25)

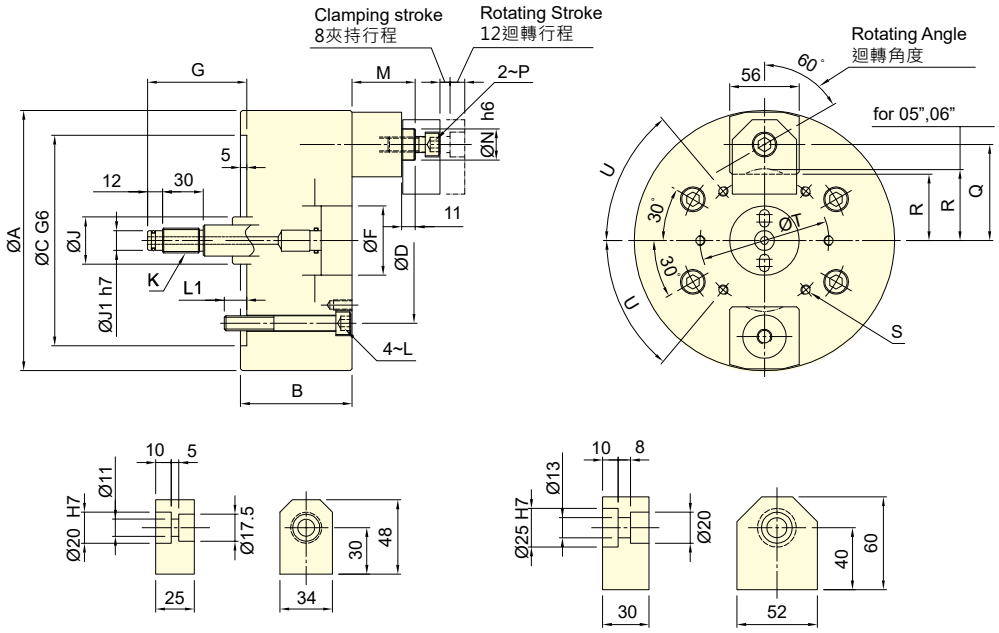
外型尺寸 DIMENSIONS

Model	A	B	C	D	F	G max.	G min.	J	J1	K
3J-05	135	86	110	82.6	40	75	55	25	9	M12x1.75
3J-06	165	86	140	104.8	45	75	55	28	12	M16x2
3J-08	210	90	170	133.4	56	80	60	38	16	M20x2.5
3J-10	254	95	220	171.4	56	75	55	38	16	M20x2.5
3J-12	304	95	220	171.4	56	75	55	38	16	M20x2.5

Model	L	L1	M max.	M min.	N	P	Q	R	S	T	U
3J-05	M10	15	56	36	20	M10	42.5	27	3~M6	50	-
3J-06	M10	15	56	36	20	M10	57.5	40	3~M8	64	-
3J-08	M12	18	71	51	25	M12	77.5	53.5	6~M8	104	20°
3J-10	M16	24	71	51	25	M12	99.5	75.5	6~M8	140	20°
3J-12	M16	24	71	51	25	M12	124.5	100.5	6~M8	190	20°

- 採工件端面夾持，防止工件夾持變形，適合薄壁工件加工。
- 夾持補償機構，可夾持不規則端面之工件。
- Gripping at the end face and preventing deformation of workpiece.
- Suitable for thin wall workpiece processing.
- The gripping compensating mechanism can grasp the irregular surface workpieces well.

- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.



技術規格 SPECIFICATIONS

型號	迴轉行程	夾持行程	爪補償量	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Rotating stroke	Claming stroke	Jaw's compensation	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg·m^2$	kg		MPa (kgf/cm^2)
2J-05	12	8	2	53	25	5.0(510)	4.0(408)	4000	0.015	9.0	RK-100 OR RK-100(N)	0.7(7)
2J-06	12	8	2	79	55	6.0(612)	5.0(510)	4000	0.035	9.8	RK-100 OR RK-100(N)	0.8(8)
2J-08	12	8	2	106	75	12.0(1224)	11.0(1122)	3500	0.12	20.3	RK-100 OR RK-100(N)	1.7(17)
2J-10	12	8	2.5	150	119	12.0(1224)	11.0(1122)	3500	0.28	30.7	RK-100 OR RK-100(N)	1.7(17)
2J-12	12	8	2.5	200	169	12.0(1224)	11.0(1122)	3000	0.52	41.2	RK-100 OR RK-100(N)	1.7(17)

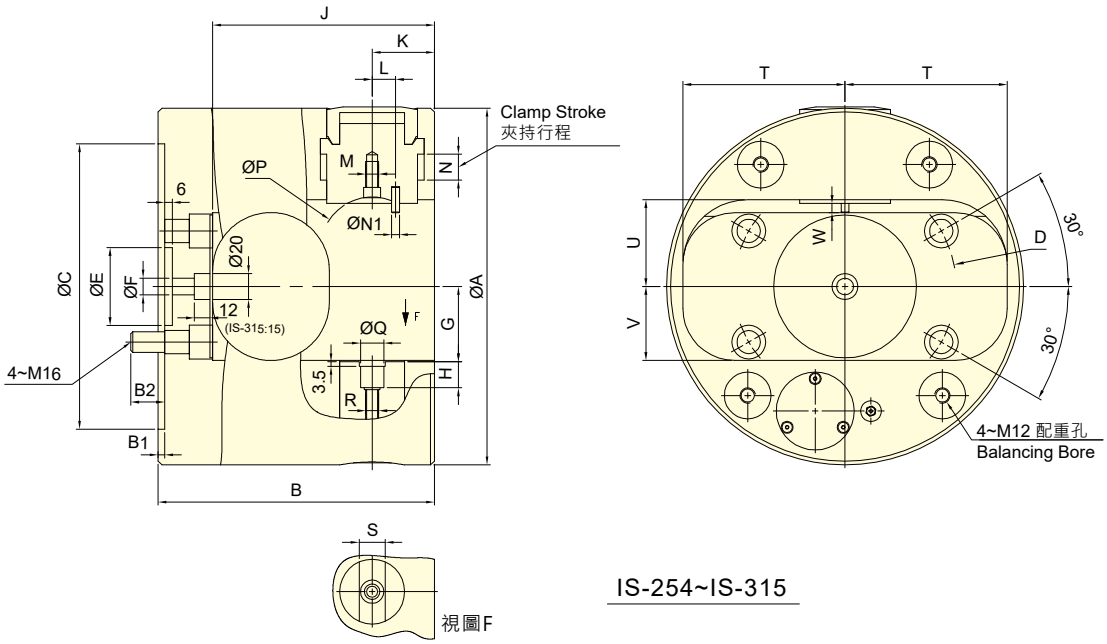
外型尺寸 DIMENSIONS

Model	A	B	C	D	F	G max.	G min.	J	J1	K
2J-05	135	86	110	82.6	40	75	55	25	9	M12x1.75
2J-06	165	86	140	104.8	45	75	55	28	12	M16x2
2J-08	210	90	170	133.4	56	80	60	38	16	M20x2.5
2J-10	254	95	220	171.4	56	75	55	38	16	M20x2.5
2J-12	304	95	220	171.4	56	75	55	38	16	M20x2.5

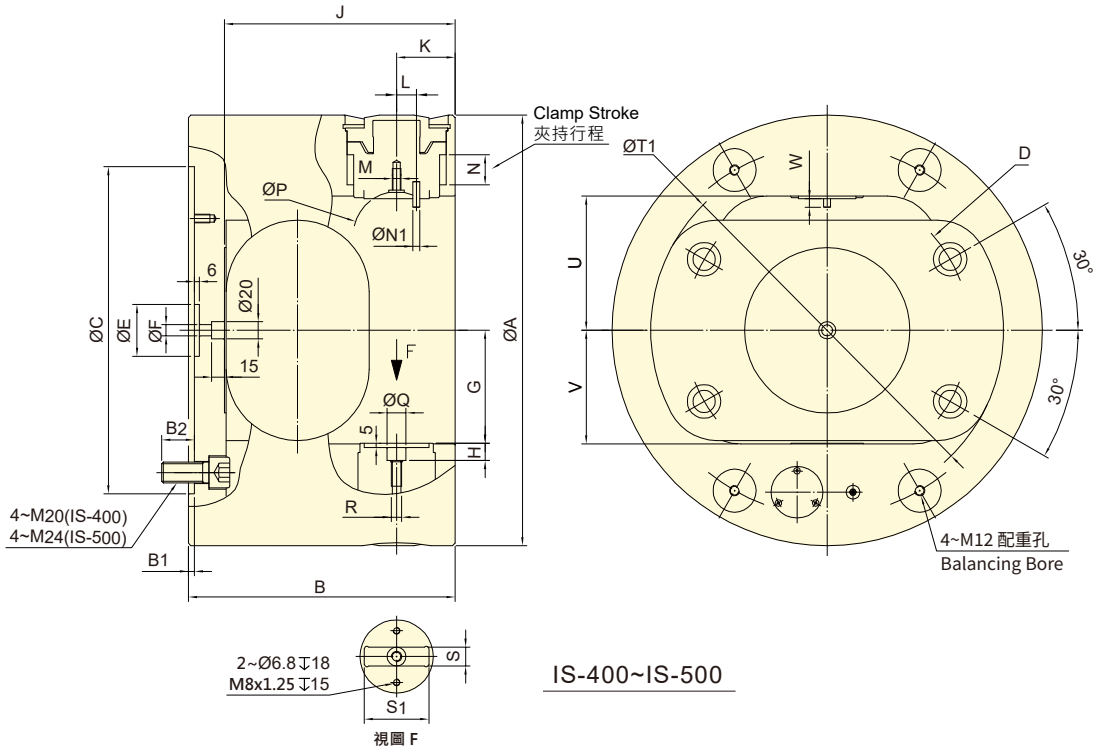
Model	L	L1	M max.	M min.	N	P	Q	R	S	T	U
2J-05	M10	15	56	36	20	M10	42.5	27	4~M6	50	30°
2J-06	M10	15	56	36	20	M10	57.5	40	4~M8	64	30°
2J-08	M12	18	71	51	25	M12	77.5	53.5	6~M8	104	50°
2J-10	M16	24	71	51	25	M12	99.5	75.5	6~M8	140	50°
2J-12	M16	24	71	51	25	M12	124.5	100.5	6~M8	190	50°

自動分度夾頭
POWER INDEXING CHUCK

- 主軸運轉過程中進行分度操作，可於多個工作軸之間進行快速轉換。
- 夾頭內部零件均經硬化及精密研磨，並直接潤滑。
- 防水及防切屑設計。
- 高剛性結構及高重複精度。
- 獨特的分度系統及液壓系統，夾頭有壓力檢知機構，可靠性高。
- Indexing operates during the spindle rotation, can perform a quick change between multiple working axles.
- All parts of chuck hardened, ground and lubricated directly.
- Sealed against swarf, chips and coolant.
- High rigidity and high repeatability precision.
- Unique indexing system and hydraulic system, with pressure detection device in chuck, high reliability.



IS-254~IS-315



IS-400~IS-500

自動分度夾頭
POWER INDEXING CHUCK

技術規格 SPECIFICATIONS

型號	分度角度	爪行程	夾持範圍 Chucking Area		容許油壓壓力	最大夾持力	最高迴轉數	I	重量	油壓迴轉接頭組	主軸內孔	夾持治具重量
Model	Index Angle	Jaw stroke	直徑Dia Max.	長度Len Max.	Max. pressure	Max. Clamping force	Max. speed	Moment of inertia	Weight	ROTATING JOINT	Main Spindle Bore	Clamp Jaw Weight
	Deg	mm	mm	mm	kgf/cm²	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg		mm	kg
IS-254	4x90°	20	65	160	45	19.5(1990)	3100	0.41	41	IRJ-5E1	61 以上	0.6
IS-275	4x90°	20	80	220	45	25.4(2590)	2500	0.61	52	IRJ-5E1	61 以上	1.2
IS-315	4x90°	20	100	230	45	25.0(2550)	1200	1.13	76	IRJ-5E1	61 以上	1.8
***IS-400**	4x90°	30	170	260	45	34.5(3510)	1000	3.4	125	IRJ-5E1	61 以上	4.0
***IS-500**	4x90°	35	220	310	45	45.7(4660)	1000	9.4	220	IRJ-5E1	61 以上	6.0

外型尺寸 DIMENSIONS

Model	A	B	B1	B2	C(H6)	D	E	F	G	H	J	K
IS-254	254	190	5	23	220	171.4	60	13	47.5	18	155	48
IS-275	275	213	5	26	220	171.4	60	13	58	20	171	48
IS-315	315	232	5	22	220	171.4	60	13	71	18.5	187	50
***IS-400**	400	260	6	30	300	235	60	13	99	21	220	60
***IS-500**	500	308	6	38	380	330.2	60	13	131	21	266	68

Model	L	M	N	N1	P	Q(H7)	R	S(H7)	S1	T	T1	U	V	W
IS-254	13	M8	20	5	40	18	M10	20	-	106	-	57	46.5	5.5
IS-275	18	M10	20	6	80	18	M10	20	-	125	-	67	57	7
IS-315	18	M10	20	6	75	24	M12	25	-	136	-	85	70	7.5
***IS-400**	23	M10	30	8	100	22	M12	24	70	-	330	112	100	10
***IS-500**	25	M10	35	8	100	22	M12	24	75	-	410	156	132	10

最高迴轉數僅在油壓壓力最大時才可達到，且工作壓力與夾持治具的重量不可超過上表所示。
主軸旋轉時可進行分度，當在高轉速進行分度時，建議將轉速降低 50%, 避免因工件處於中間位置時由於重量不平衡時而產生振動。另外，依據工件的形狀，有時無法在主軸旋轉時進行分度。

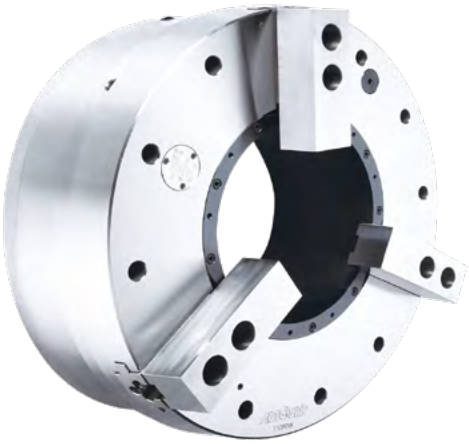
型號 * 表示接單生產之特殊規格，無現貨供應。
分度角度 8x45°或特殊分度角度，請逕洽本公司業務部。

The maximum rotational speed can only be achieved when the hydraulic pressure is at its maximum. Additionally, the operating pressure and the weight of the clamping fixture must not exceed the values shown in the table above.

Indexing can be performed while the spindle is rotating. However, when indexing at high rotational speeds, it is recommended to reduce the speed by 50% to avoid vibration caused by imbalance when the workpiece is in an intermediate position. Furthermore, depending on the shape of the workpiece, indexing during spindle rotation may not be possible.

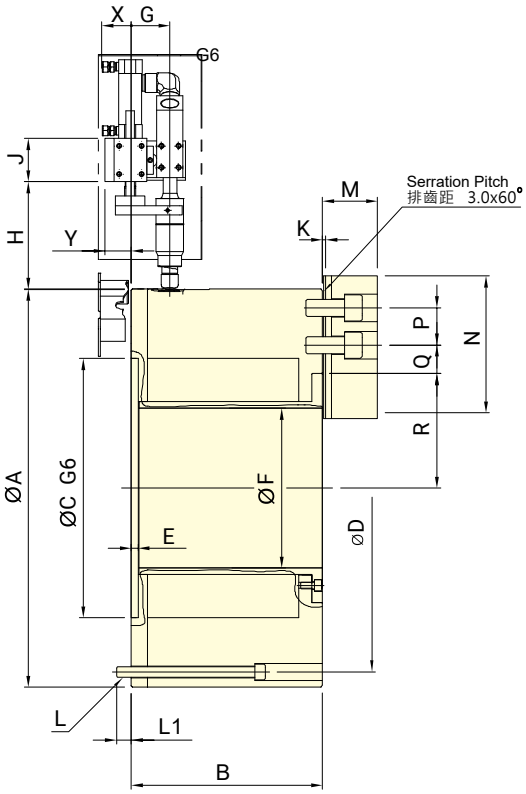
The "*" model is produced upon order, with no stock available.
*Index Angle 8x45° or Specific Angle, Please contact AUTOGRIP for more detailed information.Thanks.

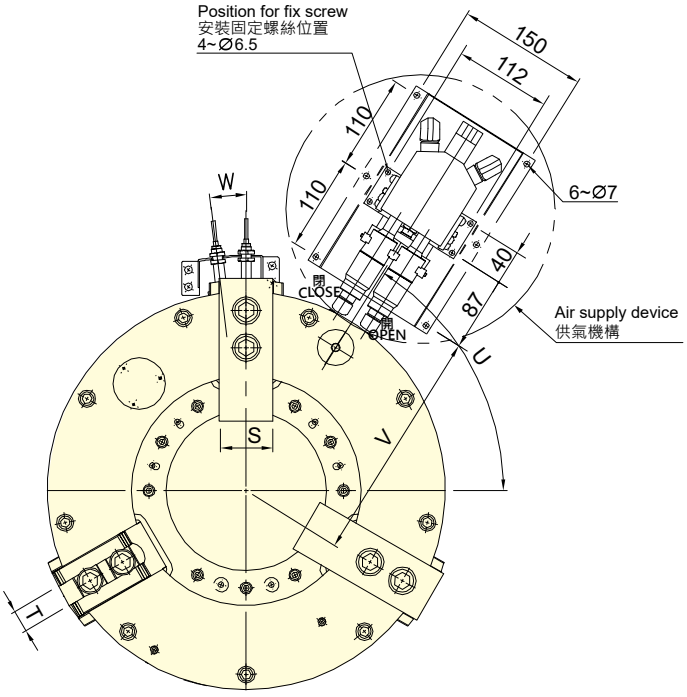
大孔徑中空氣動夾頭 (二段式行程)
LARGE THRU-HOLE AIR CHUCK (DOUBLE SPEED JAW STROKE)

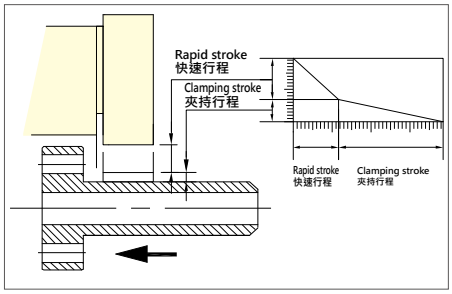


- 超大通孔徑氣動夾頭，內藏氣壓缸，適合管材加工。
- 夾頭內建有"壓力檢知"機構，能檢知夾頭內部壓力遽降，確保操作安全。
- 搭配注氣系統，安裝快速容易，無傳統注氣密封環損耗問題，可節省安裝及維修成本。
- 夾頭內建有"夾持檢知"機構，能避免夾爪於快速位移行程中夾持工件，進而導致內部零件損壞或工件飛脫所設計之機構。(只適用於外徑夾持)
- 兩段式行程，可節省夾持所需要時間。
- Large through-hole 3-jaw power chuck with build in air cylinder.
- With build-in"pressure detection"device which can check the rapidly decreasing pressure within the chuck, guarantee to the security when operating.
- Features an air supply system, it is easy to install and maintain. No abrasion issue of traditional sealed ring. Maintenance cost and time can be saved.
- The build-in "clamping detection" device can avoid jaws clamping the workpiece during the rapid stroke stage. This mechanism can also prevent causing the damage of the internal parts or flying out of workpiece.(only for O.D. clamping)
- Extended jaw stroke design can shorten the processing time when gripping.

- 注意：快速行程階段無法提供足夠之夾持力。
- Notice：No clamping in rapid stroke period.







技術規格 SPECIFICATIONS

型號	通孔徑	爪行程 (直徑)		夾持 直徑 Chucking Dia.		最大夾持力	最高迴轉數	I	重量	空氣消耗量 (使用壓力 6kgf/cm²)
Model	Thru-hole Dia.	Jaw stroke (Dia.)		最大 Max.	最小Min.	Max. Clamping force	Max. speed	Moment of inertia	Weight	Air Consumption
	mm	mm		mm	mm	kN (kgf)	min⁻¹(r.p.m.)	kg·m²	kg	lit(at 6kgf/cm²)
APS-185	185	26	14	460	127	110(11216)	1300	6.45	198	22

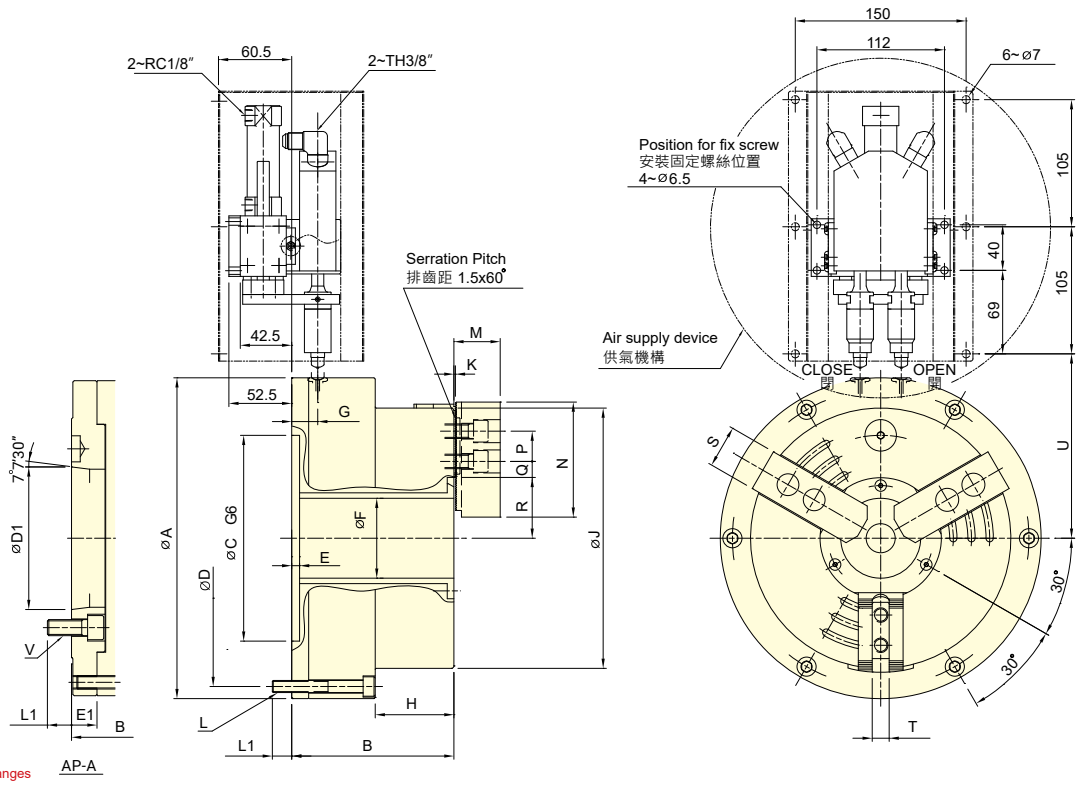
外型尺寸 DIMENSIONS

Model	A	B	C	D	E	F	G	H	J	K	L	L1	M
APS-185	460	221	300	425	8	185	45	124	50	3.5	9~M12	17	63.7

Model	N	P	Q max.	Q min.	R max.	R min.	S	T	U	V	W	X	Y
APS-185	165	43	37	17	145	125	62	25.5	58	272	7°	38	30

大孔徑中空氣動夾頭 (一)
LARGE THRU-HOLE AIR CHUCK

- 超大通孔徑氣動夾頭，內藏氣壓缸設計，特別適合管材加工應用。
- 夾頭內建「壓力檢知」機構，可即時偵測夾持壓力異常驟降，提升操作安全性 (僅適用於外徑夾持) 。
- 搭配注氣系統，安裝快速、維護簡便，無傳統注氣密封環磨耗問題。
- 有效降低安裝與維修成本，並縮短保養時間。
- Large through-hole 3-jaw pneumatic power chuck with a built-in air cylinder, ideal for pipe and tube machining.
- Equipped with an integrated pressure detection mechanism that monitors sudden pressure drops inside the chuck, ensuring safe operation (Applicable to O.D. gripping only).
- Features an air supply system that allows quick installation and easy maintenance, eliminating wear issues associated with traditional air sealing rings.
- Reduces installation and maintenance costs while minimizing downtime.



技術規格 SPECIFICATIONS

型號		通孔徑	爪行程(直徑)	夾持直徑 Chucking Dia.		最大使用壓力	最大夾持力	最高迴轉數	I	重量		空氣消耗量 (使用壓力 6kgf/cm²)
Model		Thru-hole Dia.	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. pressure	Max. Clamping force	Max. speed	Moment of inertia	Weight		Air Consumption
		mm	mm	mm	mm	MPa (kgf/cm²)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg		lit (at 6kgf/cm²)
AP-52	A6	52	5.9	170	15	0.6(6.1)	40.5(4128)	3900	0.2	26	30	3.1
AP-66	A6	66	7.6	215	24	0.6(6.1)	50(5097)	3000	0.4	38	45	5.1
AP-86	A8	86	8.9	268	43	0.6(6.1)	80(8156)	2800	0.7	58	72	8.7
AP-115	A8	115	10.6	330	55	0.6(6.1)	90(9174)	2000	1.7	92	112	12

外型尺寸 DIMENSIONS

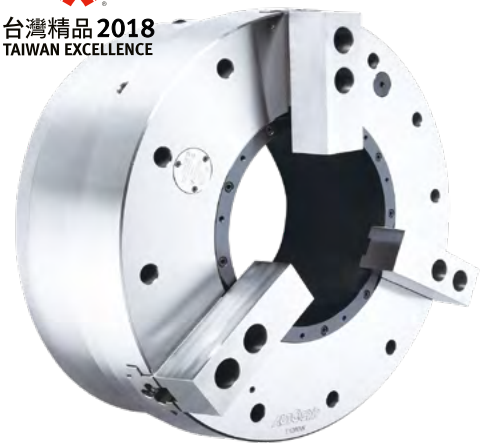
Model		A	B		C	D	D1	E	E1	F	G	H	J	K	L
AP-52	A6	235	121	140	170	215	106.38	6.5	19	52	21.5	58.5	170	2	6~M10
AP-66	A6	265	134	153	170	245	106.38	6.5	19	66	21.5	65	215	2	6~M10
AP-86	A8	315	142	169	220	295	139.72	6.5	27	86	21.5	67	268	2	6~M10
AP-115	A8	370	154	181	220	350	139.72	6.5	27	115	21.5	69	330	2	6~M10

Model		L1		M	N	P	Q max.	Q min.	R max.	R min.	S	T	U	V
AP-52	A6	15	18	37	73	20	21.2	9.2	38	35.1	31	12	145.5	6~M12
AP-66	A6	16	18	38	95	25	23.7	8.7	50.2	46.4	35	14	159.5	6~M12
AP-86	A8	16	24	43	110	30	32.2	12.7	62.2	57.8	40	16	184.5	6~M16
AP-115	A8	16	24	51	130	30	44.7	14.7	77	71.7	50	21	212	6~M16

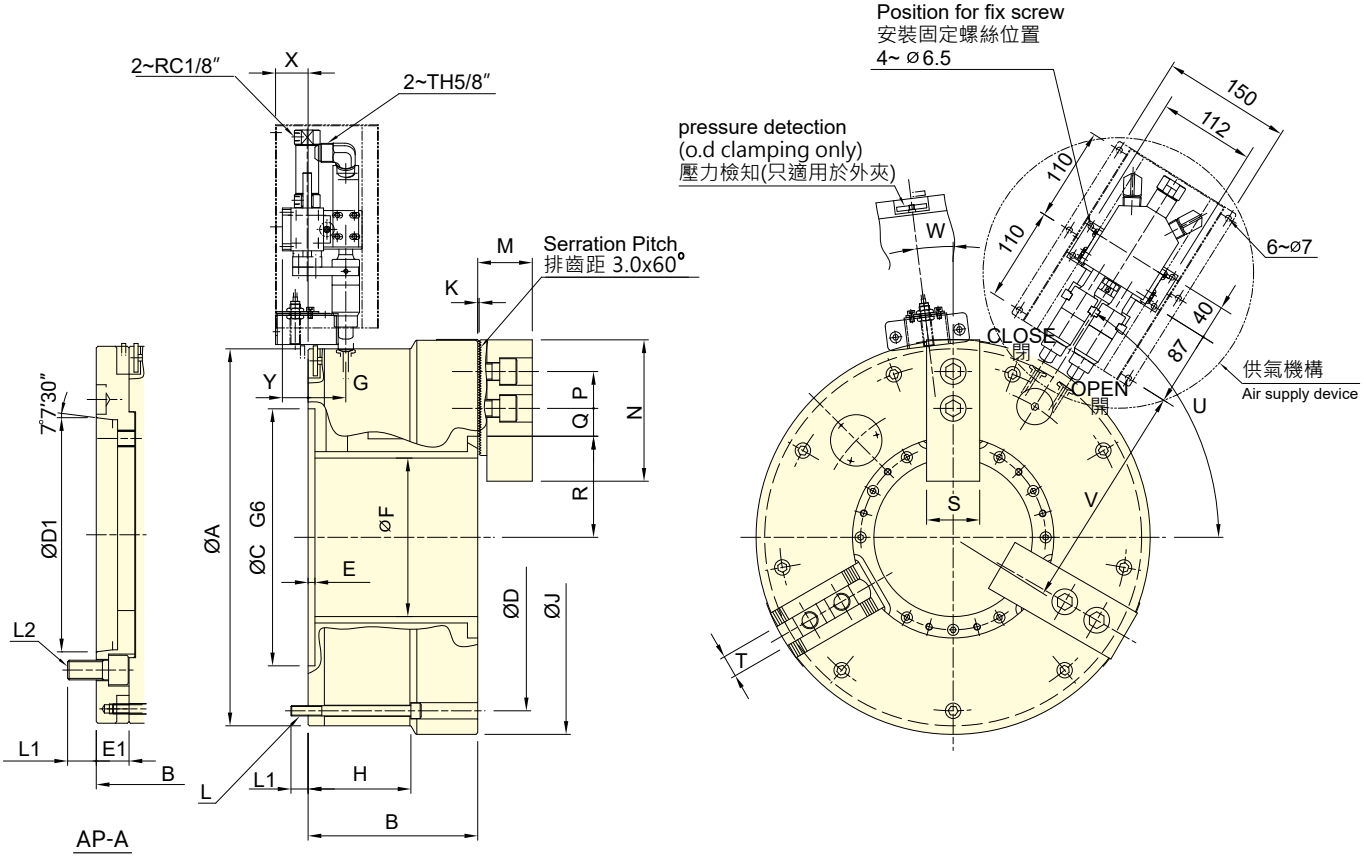
紅色數據為 AP-A 型之寸法 (The dimensions and the specifications of AP-A type are in red data.)

大孔徑中空氣動夾頭 (二)
LARGE THRU-HOLE AIR CHUCK

台灣精品 2018
TAIWAN EXCELLENCE



- 超大通孔徑氣動夾頭，內藏氣壓缸設計，特別適合管材加工應用。
- 夾頭內建「壓力檢知」機構，可即時偵測夾持壓力異常驟降，提升操作安全性（僅適用於外徑夾持）。
- 搭配注氣系統，安裝快速、維護簡便，無傳統注氣密封環磨耗問題。
- 有效降低安裝與維修成本，並縮短保養時間。
- Large through-hole 3-jaw pneumatic power chuck with a built-in air cylinder, ideal for pipe and tube machining.
- Equipped with an integrated pressure detection mechanism that monitors sudden pressure drops inside the chuck, ensuring safe operation (Applicable to O.D. gripping only).
- Features an air supply system that allows quick installation and easy maintenance, eliminating wear issues associated with traditional air sealing rings.
- Reduces installation and maintenance costs while minimizing downtime.



技術規格 SPECIFICATIONS

型號 Model		通孔徑 Thru-hole Dia.	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	夾持直徑 Chucking Dia. 最小 Min.	最大使用壓力 Max. pressure	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		空氣消耗量 (使用壓力 6kgf/cm²) Air Consumption
		mm	mm	mm	mm	MPa (kgf/cm²)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg		lit(at 6kgf/cm²)
AP-145	A11	145	14	420	62	0.6(6.1)	110(11213)	1500	3.8	156	182	17.8
AP-185	A15	185	14	460	100	0.6(6.1)	160(16310)	1700	6.0	188	223	22
AP-230	A15	230	17	535	170	0.6(6.1)	150(15290)	1300	11.1	265	310	34
AP-275	A20	275	17	580	200	0.6(6.1)	160(16310)	1100	15.5	301	346	39
AP-320	A20	320	17	658	200	0.6(6.1)	180(18348)	1000	27.2	415	505	45
AP-375	A20	375	24	738	260	0.6(6.1)	210(21406)	900	44.2	530	545	55

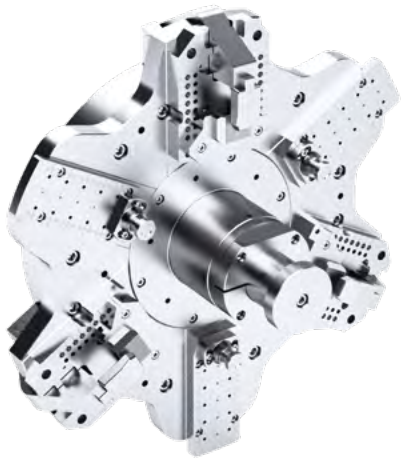
外型尺寸 DIMENSIONS

Model		A	B		C	D	D1	E	E1	F	G	H	J	K	L	L1	
AP-145	A11	400	198	231	300	365	196.87	8	33	145	34	120	420	3.5	9~M12	20	31
AP-185	A15	460	198	238	300	405	285.78	8	40	185	44	120	460	3.5	9~M12	20	35
AP-230	A15	515	226	266	380	483	285.78	8	40	230	49	145	535	3.5	6~M16	24	35
AP-275	A20	560	232	272	380	528	412.78	8	40	275	52	152	580	3.5	6~M16	24	35
AP-320	A20	615	256	306	520	580	412.78	8	50	320	55	116.5	658	3.5	9~M16	25	33
AP-375	A20	690	272	322	520	650	412.78	8	50	375	55	127	738	3.5	9~M16	28	33

Model		L2	M	N	P	Q max.	Q min.	R max.	R min.	S	T	U	V	W	X	Y
AP-145	A11	6~M20	63.7	165	43	53.5	23.5	98	91	62	25.5	57°	242	0°	38	20
AP-185	A15	6~M24	63.7	165	43	53.5	23.5	118	111	62	25.5	58°	272	7°	38	20
AP-230	A15	6~M24	71.7	180	60	48.5	18.5	145	136.5	64	25.5	30°	300	7°	33	15
AP-275	A20	6~M24	71.7	180	60	48.5	18.5	167.5	159	64	25.5	30°	322	7°	30	12
AP-320	A20	6~M24	81.5	210	60	60.5	24.5	190	181.5	75	30	52°	350	7°	27	9
AP-375	A20	6~M24	81.5	210	60	66.5	24.5	223.5	211.5	75	30	52°	387	7°	27	9

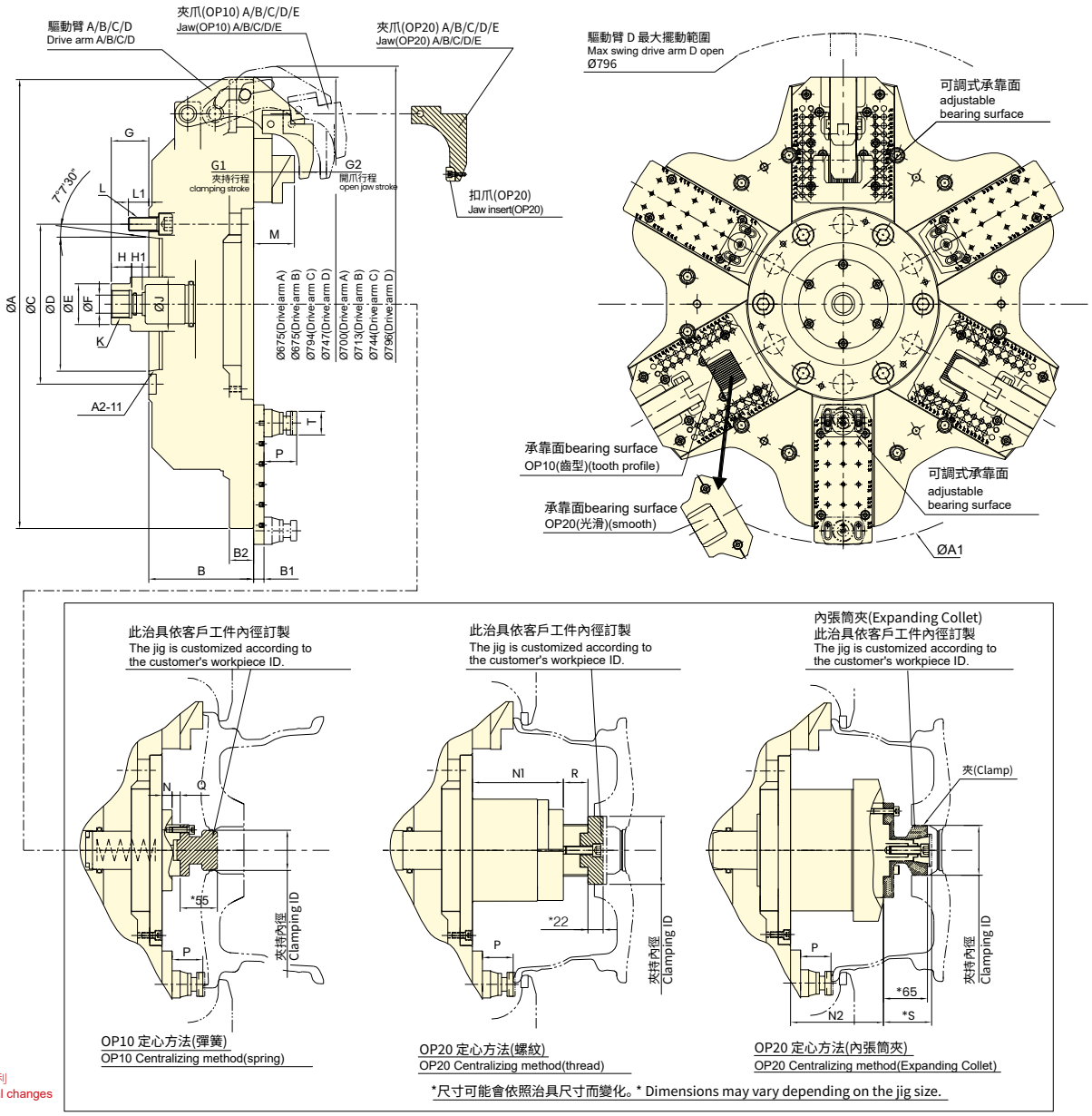
紅色數據為 AP-A 型之寸法 (The dimensions and the specifications of AP-A type are in red data.)

鋁合金輪圈夾頭
FINGER CHUCK FOR ALUMINUM WHEELS



- 採用高級合金鋼製成，所有滑動面皆經表面硬化與精密研磨處理，確保結構耐用與運作穩定。
- 適用於四輪車用鋁合金輪圈的粗加工與精加工等多種加工需求。
- 可透過調整承靠面與氣密面，並更換驅動臂與夾爪，對應13吋至24吋各式規格輪圈的加工作業。
- 可依不同輪圈形狀更換治具，對應各工序所需的定心方式，有效提升加工精度與生產彈性。
- 適用於CNC車床、專用輪圈加工機及車銑複合機等設備。
- Made of high-grade alloy steel. All sliding surfaces are surface-hardened and precision-ground to ensure durability and operational stability.
- Designed for rough and finish machining of aluminum alloy wheels for passenger vehicles.
- Accommodates wheel sizes ranging from 13″ to 24″ by adjusting the support and sealing surfaces, and replacing the drive arms and jaws.
- Changeable fixtures allow adaptation to various centering methods required in different machining processes, enhancing precision and production flexibility.
- Compatible with CNC lathes, dedicated wheel machining machines, and mill-turn centers.

- 可選配對應的夾爪及驅動臂。
- Optional matching jaws and drive arms available.



鋁合金輪圈夾頭
FINGER CHUCK FOR ALUMINUM WHEELS

技術規格 SPECIFICATIONS

型號		軸向總行程	開爪行程	夾持行程	最大夾持輪圈尺寸	最小夾持輪圈尺寸	容許最大入力	最大夾持力
Model		Total axial stroke	Open jaw stroke	Clamping stroke	Max. clamping size of the Wheel	Min. clamping size of the Wheel	Max. D.B. pull	Max. clamping force
		mm	mm	mm	inch	inch	kN (kgf)	kN (kgf)
3FW-26	**A11**	40	9	31	24"	13"	34.3(3500)	30.9(3150)

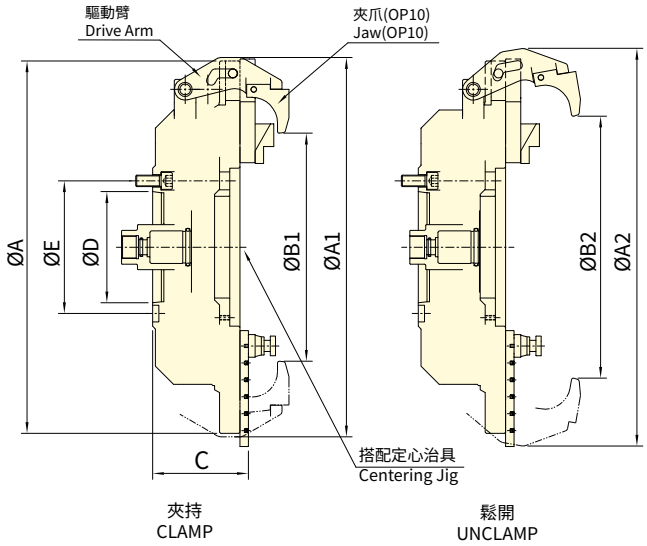
型號		最高迴轉數	I	重量 (不包含治具)	重量 (包含OP10治具)	重量 (包含OP20治具)	適用迴轉缸	最大使用壓力
Model		Max. speed	Moment of inertia	Weight (Jig not included)	Weight (OP10 jig included)	Weight (OP20 jig included)	Matching cyl.	Max. pressure
		min^{-1} (r.p.m.)	$kg{\cdot}m^2$	kg	kg	kg		MPa kgf/cm^2
3FW-26	**A11**	2200	7.3	160	180	190-200	RE-A1340 RC-1240	3.2(33)

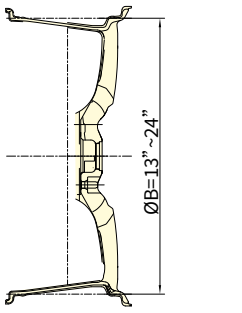
外型尺寸 DIMENSIONS

Model		A	A1	B	B1	B2	C	D	E	F	G max.	G min.	G1	G2	H	H1	J
3FW-26	**A11**	660	706	154.5	15	36	235	196.87	60	26.5	55	15	31	9	30	15.5	80

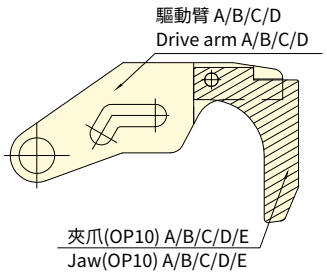
Model		K	L	L1	M	N	N1	N2 max.	N2 min.	P max.	P min.	Q max.	Q min.	R max.	R min.	S max.	S min.	T
3FW-26	**A11**	M40x1.5	6~M20	30	60	15	134	220	38	48	42	15	0	106	32	71.5	66.5	35

鋁合金輪圈夾頭 - 夾爪選配表 (OP10)
FINGER CHUCK FOR ALUMINUM WHEELS - JAW SELECTION (OP10)





ØB為輪圈的公稱尺寸
ØB is the nominal size of the Wheel



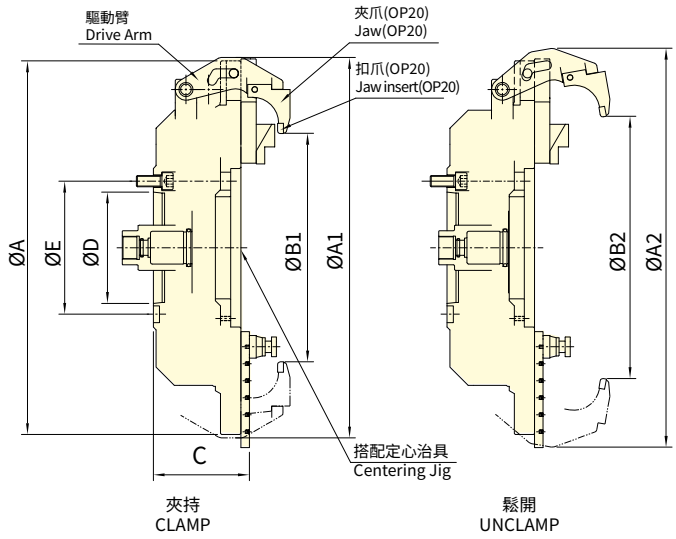
保留規格修改的權利 Subject to technical changes

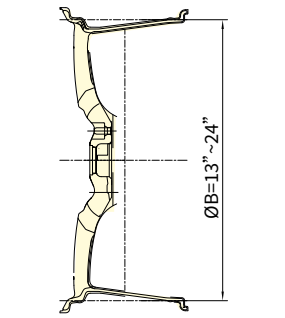
驅動臂 Drive Arm / 輪圈尺寸 Wheel size	驅動臂A Drive Arm A		驅動臂B Drive Arm B		驅動臂C Drive Arm C		驅動臂D Drive Arm D	
	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2
13"	夾爪 Jaw A							
	339	400						
14"	夾爪 Jaw B							
	364	425						
15"	夾爪 Jaw C							
	392	453						
16"	夾爪 Jaw D		夾爪 Jaw A					
	421	482	419	480				
17"	夾爪 Jaw E		夾爪 Jaw B					
	445	506	444	505				
18"			夾爪 Jaw C		夾爪 Jaw A			
			472	533	477	538		
19"			夾爪 Jaw D		夾爪 Jaw B			
			501	502	502	563		
20"			夾爪 Jaw E		夾爪 Jaw C		夾爪 Jaw A	
			525	586	530	591	530	591
21"					夾爪 Jaw D		夾爪 Jaw B	
					559	620	555	616
22"					夾爪 Jaw E		夾爪 Jaw C	
					583	644	583	644
23"							夾爪 Jaw D	
							607	668
24"							夾爪 Jaw E	
							633	694
夾頭最大徑 Max. chuck diameter ØA	Ø660							
夾持時最大外徑 Max. OD when CLAMP ØA1	Ø675		Ø675		Ø694		Ø747	
張開時最大外徑 Max. OD when UNCLAMP ØA2	Ø700		Ø713		Ø744		Ø796	
輪圈尺寸 Wheel size ØB	13"~17"		16"~20"		18"~22"		20"~24"	
C	169.5							
ØD	196.87							
ØE	235							

* 同一顏色區塊代表夾持該尺寸輪圈時，可選擇不同的驅動臂與夾爪組合來夾持，依據機台的允許空間來選擇。
例如：驅動臂 A+ 夾爪 D = 夾持 16" 輪圈 ， 驅動臂 B+ 夾爪 A = 亦可夾持 16" 輪圈。

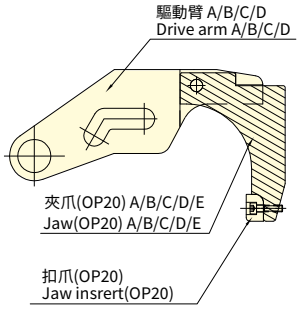
Blocks in the same color indicate that different combinations of drive arms and jaws can be used to clamp wheels of the same size.
The selection depends on the available space of the machine. For example: Drive Arm A + Jaw D = clamping a 16" wheel, and Drive Arm B + Jaw A can also clamp a 16" wheel.

鋁合金輪圈夾頭 - 夾爪選配表 (OP20)
FINGER CHUCK FOR ALUMINUM WHEELS-JAW SELECTION (OP20)





ØB為輪圈的公稱尺寸
ØB is the nominal size of the Wheel



驅動臂 Drive Arm / 輪圈尺寸 Wheel size	驅動臂A Drive Arm A		驅動臂B Drive Arm B		驅動臂C Drive Arm C		驅動臂D Drive Arm D	
	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2
13"	夾爪 Jaw A							
	335	396						
14"	夾爪 Jaw B							
	362	423						
15"	夾爪 Jaw C							
	392	453						
16"	夾爪 Jaw D		夾爪 Jaw A					
	417	478	415	476				
17"	夾爪 Jaw E		夾爪 Jaw B					
	445	506	442	503				
18"			夾爪 Jaw C		夾爪 Jaw A			
			472	553	473	534		
19"			夾爪 Jaw D		夾爪 Jaw B			
			497	558	500	561		
20"			夾爪 Jaw E		夾爪 Jaw C		夾爪 Jaw A	
			525	586	530	591	526	587
21"					夾爪 Jaw D		夾爪 Jaw B	
					555	616	553	614
22"					夾爪 Jaw E		夾爪 Jaw C	
					583	644	583	644
23"							夾爪 Jaw D	
							603	664
24"							夾爪 Jaw E	
							633	694
夾頭最大徑 Max. chuck diameter ØA	Ø660							
夾持時最大外徑 Max. OD when CLAMP ØA1	Ø675		Ø675		Ø694		Ø747	
張開時最大外徑 Max. OD when UNCLAMP ØA2	Ø700		Ø713		Ø744		Ø796	
輪圈尺寸 Wheel size ØB	13"~17"		16"~20"		18"~22"		20"~24"	
C	169.5							
ØD	196.87							
ØE	235							

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