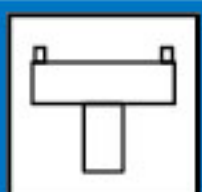


-  卡 盤 系 列
-  迴 轉 缸 系 列
-  專用機零配件系列





P.13

迴轉缸系列
行控迴轉油壓缸

CS



P.14

迴轉缸系列
複合型油壓缸

CX/MR/CE



P.15

迴轉缸系列
雙動複合型油壓缸

CW/CD



P.16

專用零件配件系列
冷卻液迴轉接頭

CJ50/80Y CJ80/90



P.17

專用零件配件系列
同步夾具

DP



P.18

專用零件配件系列
展刀搪溝頭

FS/FN



P.19

專用零件配件系列
雙刀型展刀頭

2T/FD



P.20

專用零件配件系列
反張筒夾

AC



P.21

專用零件配件系列
油壓迴轉分流閥

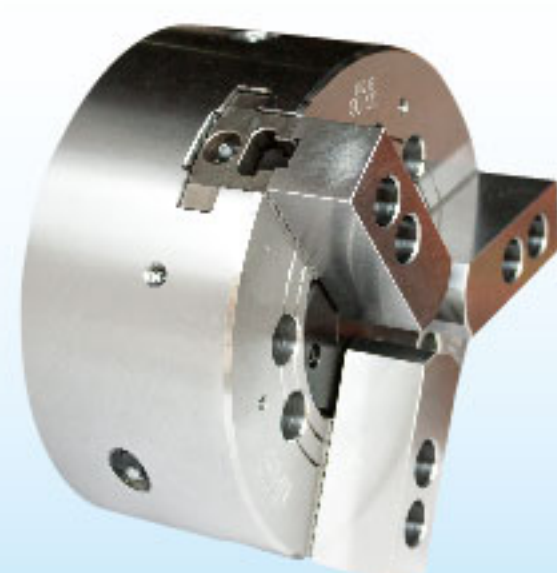
OJ



卡盤系列

三爪空中夾頭/四爪空中夾頭

3B(D) / 4B(D)



卡盤系列

超長行程夾頭

2G/3G/4G



卡盤系列

特殊夾頭

M/D



卡盤系列

偏心夾頭

EC



卡盤系列

立式筒夾

VC



卡盤系列

3UB夾頭

3UB



迴轉缸系列

超短型中空迴轉油壓缸

TK



迴轉缸系列

中空迴轉油壓缸

TH



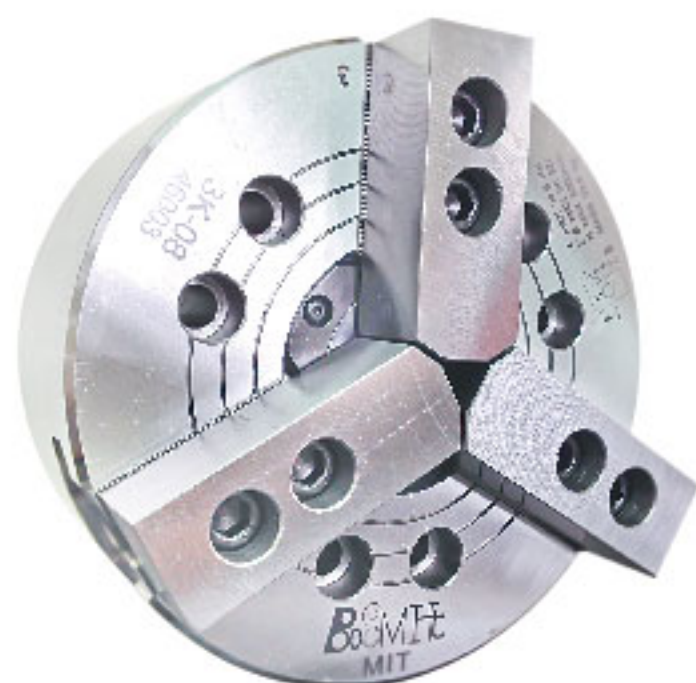
迴轉缸系列

中空迴轉氣壓缸

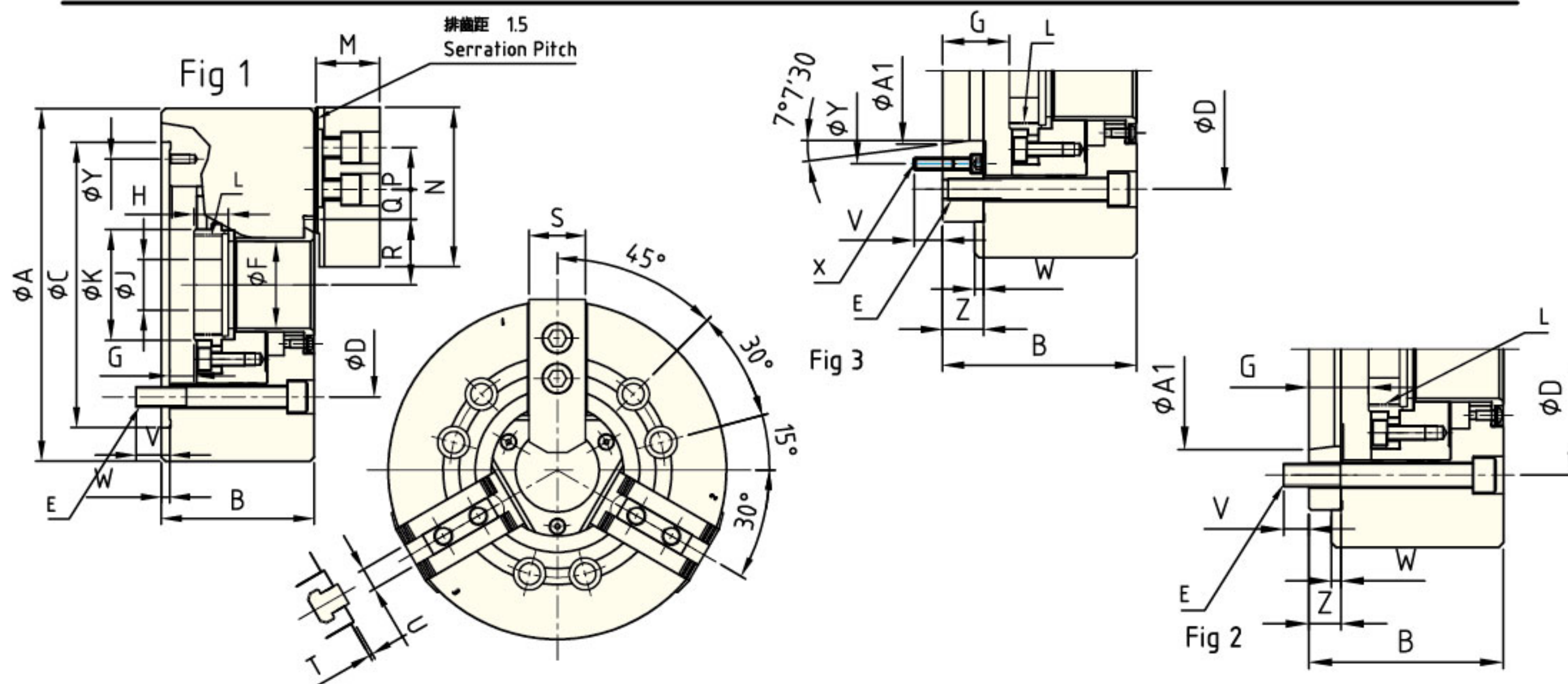
CA

三爪中空夾頭

3B(D)



- ◆ 楔形三爪超大貫通孔徑
- ◆ It's a WEDGE-HOOK type 3-jaw with the extra large through-hole.
- ◆ 滑動面均經硬化及精密研磨並直接潤滑
- ◆ Matching surfaces of all parts hardened, ground and lubricated directly.
- ◆ 高剛性結構及高夾持精度
- ◆ Construction of high rigidity and high clamping accuracy.
- J值為連結螺帽未車製螺牙時的孔徑。L值為連結螺帽可車製螺牙之最大規格，但可依實際需求訂製
- J value is the hole diameter of bank draw nut, L is the maximum thread specification, and it could be customize.



外觀尺寸 Dimensions

型號	A	B	C	D	E	F	G Max	G Min	H	J	K	L
3B(D)-04	110	59	85	70.6	3-M10	26	3.5	-6.5	17.5	12	38	M32x1.5
3B(D)-05 A4	135	60	110	82.6	3-M10	33	1	-9	20	12	45	M40x1.5
3B(D)-06 A5	168	81	140	104.8	6-M10	45	11	-1	19	20	60	M55x2.0
3B(D)-08 A6	210	103	170	133.4	6-M12	52	14.5	-1.5	20.5	30	66	M60x2.0
3B(D)-10 A6	254	120	220	171.4	6-M16	75	8.5	-10.5	25	45	94	M85x2.0
3B(D)-10 A8	254	113	220	171.4	6-M16	75	26.5	7.5	25	45	94	M85x2.0
3B(D)-12 A6	304	129	220	133.4	6-M16	91	8	-15	28	50	108	M90x2.0
3B(D)-12 A8	304	122	220	171.4	6-M16	91	26	3	28	50	108	M100x2.0

型號	M	N	P	Q Max	Q Min	R Max	R Min	S	T	U	V	W	X	Y	Z	A1	Fig
3B(D)-04	24	52	14	11.25	6.75	23	20.3	23	2	10	16	4	—	—	—	—	1
3B(D)-05 A4	31	62	14	19.75	7.75	26.5	23.8	25	2	10	15	4	3~M6	—	15	63.51	2
3B(D)-06 A5	37	73	20	22.75	9.25	32	29.25	31	2	12	16	5	3~M6	—	15	82.56	2
3B(D)-08 A6	38	95	25	29.75	14.75	38.7	35	35	2	14	20	5	3~M6	—	17	106.38	2
3B(D)-10 A6	43	110	30	33.75	14.25	51	46.6	40	2	16	22	5	6~M12	133.4	25	106.38	3
3B(D)-10 A8	43	110	30	33.75	14.25	51	46.6	40	2	16	22	5	3~M8	—	18	139.72	2
3B(D)-12 A6	51	130	30	45.75	15.75	61.3	56	50	2	21	23	6	6~M12	133.4	25	106.38	3
3B(D)-12 A8	51	130	30	45.75	15.75	61.3	56	50	2	21	23	6	3~M8	—	18	139.72	2

技術規格 Specifications

型號	外形尺寸	活塞行程 mm Plunger stroke	爪行程(直徑)mm Jaw stroke (Dia.)	夾持直徑 mm Chucking Dia.	容許最大入力 KN (kgf) Max. Draw Bar Pull Force	最大夾持力 KN (kgf) Max. Gripping Force	最高轉速 (rpm) Max. Speed	I Kg-m²	重量 Kg Weight	配合迴轉缸 Machining Cylinder	最高使用壓力 Max. Pressure Mpa (kg/cm²)
3B(D)-04		10	5.4	110	14.0 (1400)	28.4 (2900)	8000	0.01	4	CT-533	2.3 (23)
3B(D)-05 A4		10	5.4	135	17.5 (1700)	35.8 (3600)	7000	0.02	6.7	CT-533	2.9 (29)
3B(D)-06 A5		12	5.5	169	22.0 (2200)	56.8 (5800)	6000	0.06	11.9	CT-646	2.8 (28)
3B(D)-08 A6		16	7.4	210	34.3 (3500)	85.8 (8755)	5000	0.17	22.5	CT-852	2.8 (28)
3B(D)-10 A6		19	8.8	254	43.0 (4300)	111.0 (11300)	4200	0.30	34.5	CT-1075	2.7 (27)
3B(D)-10 A8		19	8.8	254	43.0 (4300)	111.0 (11300)	4200	0.30	41.5	CT-1075	2.7 (27)
3B(D)-12 A6		23	10.6	304	54.9 (5600)	144.0 (14600)	3300	0.70	56.6	CT-1291	2.7 (27)
3B(D)-12 A8		23	10.6	304	54.9 (5600)	144.0 (14600)	3300	0.70	64.0	CT-1291	2.7 (27)

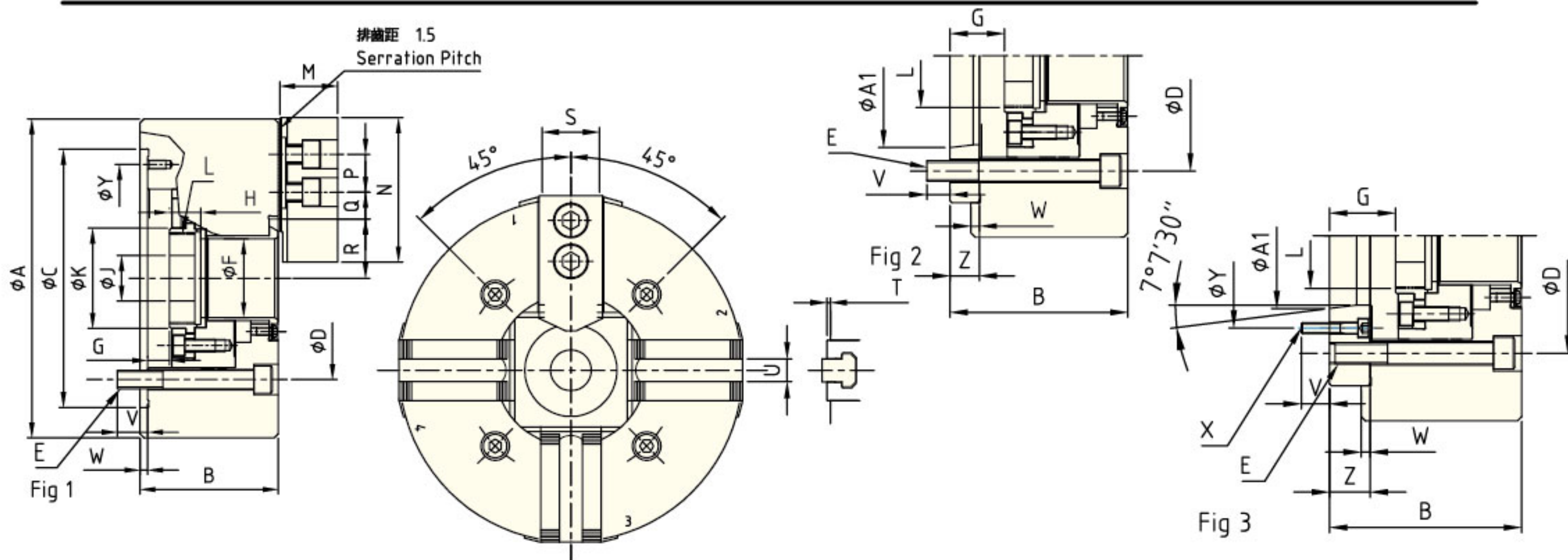
※本公司生產具平衡可調整結構式之夾頭，可調整 I 值

※ The company produces a balanced structure of adjustable chuck, adjustable I value

四爪中空夾頭 4B(D)



- ◆ 楔形四爪大貫通孔徑，特別適合異形物的夾持
- ◆ It's a WEDGE-HOOK type 4-jaw with the large through-hole.
- ◆ 滑動面均經硬化及精密研磨，並直接潤滑
- ◆ Matching surfaces of all parts hardened, ground and lubricated directly.
- ◆ 高剛性結構及高夾持精度
- ◆ Construction of high rigidity and high clamping accuracy.
- J值為連結螺帽未車製螺牙時的孔徑。L值為連結螺帽可車製螺牙之最大規格，但可依實際需求訂製
- J value is the hole diameter of bank draw nut, L is the maximum thread specification, and it could be customize.



外觀尺寸 Dimensions

型號	外形尺寸		A	B	C	D	E	F	G	G	H	J	K	L	M	N
									Max	Min						
4B(D)-06 A5	168	81	140	104.8	4-M10	45	11	-1	19	20	60	M55x2.0	37	73		
		91					26	14								
4B(D)-08 A5	210	91	170	133.4	4-M12	52	14.5	-1.5	20.5	30	66	M60x2.0	38	95		
		109					37.5	21.5								
4B(D)-08 A6	210	91	170	133.4	4-M12	52	14.5	-1.5	20.5	30	66	M60x2.0	38	95		
		103					31.5	15.5								
4B(D)-10 A6	254	100	220	171.4	4-M16	75	8.5	-10.5	25	45	94	M85x2.0	43	110		
		120					33.5	14.5								
4B(D)-10 A8	254	100	220	171.4	4-M16	75	8.5	-10.5	25	45	94	M85x2.0	43	110		
		113					26.5	7.5								
4B(D)-12 A8	304	110	220	171.4	4-M16	91	8	-15	28	50	108	M100x2.0	51	111		
		122					26	3								

型號	外形尺寸	圖 1 4B(D) 型 4 孔 4 邊 型 螺 絲 孔 板 的 尺 寸 及 重 量														
		P	Q Max	Q Min	R Max	R Min	S	T	U	V	W	X	Y	Z	A1	Fig
4B(D)-06 A5		20	22.75	9.25	32	29.25	31	2	12	16	5	3~M6	—	15	82.56	2
4B(D)-08 A5		25	29.75	14.75	38.7	35	35	2	14	18	5	6~M10	—	23	82.56	3
4B(D)-08 A6		25	29.75	14.75	38.7	35	35	2	14	18	5	3~M6	—	17	106.38	2
4B(D)-10 A6		30	33.75	14.25	51	46.6	40	2	16	24	5	6~M12	133.4	25	106.38	3
4B(D)-10 A8		30	33.75	14.25	51	46.6	40	2	16	24	5	3~M8	—	18	139.72	2
4B(D)-12 A8		30	45.75	15.75	61.3	56	50	2	21	25	6	3~M8	—	18	139.72	2

技術規格 Specifications

型號	外形尺寸	活塞行程 mm Plunger stroke	爪行程(直徑)mm Jaw stroke (Dia.)	夾持直徑 mm Chuck Dia. Min	容許最大入力 KN (kgf) Max. Draw Bar Pull Force	最大夾持力 KN (kgf) Max. Gripping Force	最高轉速 (rpm) Max. Speed	I Kg-m²	重量 Kg Weight	配合迴轉缸 Maching Cylinder	最高使用壓力 Max. Pressure Mpa (kg/cm²)
4B(D)-06 A5	12	5.5	168	15	22.0(2200)	56.8(5800)	5000	0.07	12.5 14.3	CT-6	2.8(28)
4B(D)-08 A5	16	7.4	210	13	34.3(3500)	85.8(8755)	4200	0.19	23.5 25.4	CT-8	2.8(28)
4B(D)-08 A6	16	7.4	210	13	34.3(3500)	85.8(8755)	4200	0.19	23.5 24.3	CT-8	2.8(28)
4B(D)-10 A6	19	8.8	254	31	43.0(4300)	111.0(11300)	3400	0.34	36.3 41	CT-10	2.7(27)
4B(D)-10 A8	19	8.8	254	31	43.0(4300)	111.0(11300)	3400	0.34	36.3 39.3	CT-10	2.7(27)
4B(D)-12 A8	23	10.6	304	34	54.9(5600)	144.0(14600)	2700	0.79	62 65.7	CT-12	2.7(27)

※本公司生產具平衡可調整結構式之夾頭，可調整 I 值

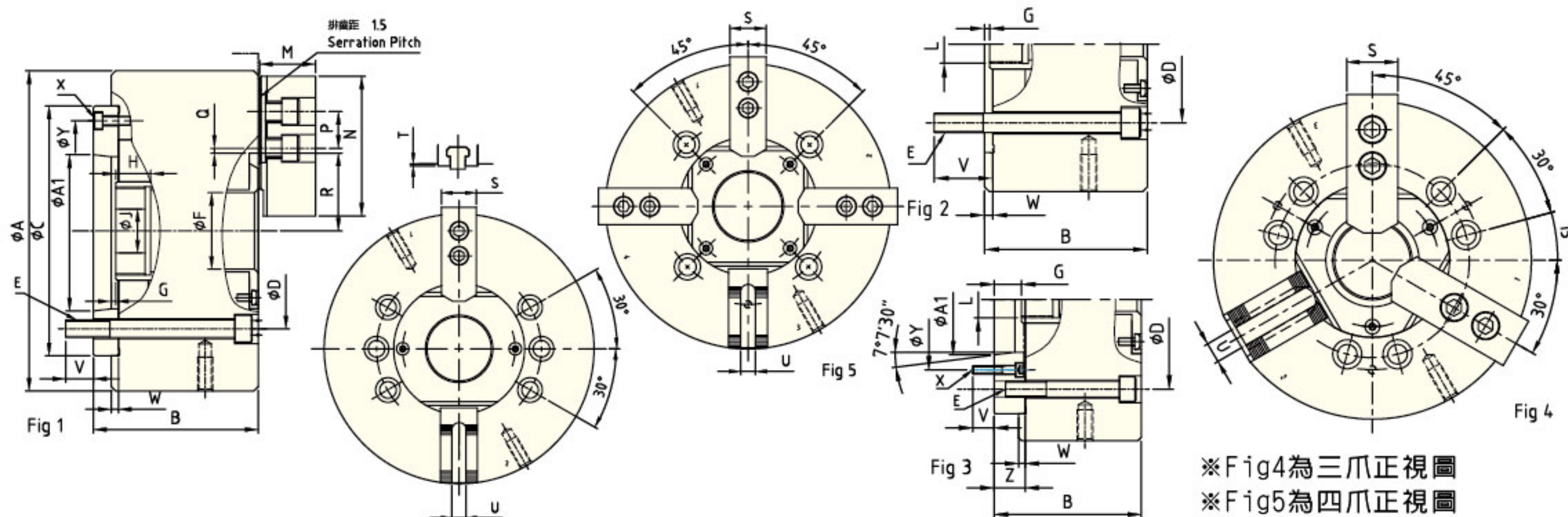
※The company produces a balanced structure of adjustable chuck, adjustable I value

超長行程夾頭

2G/3G/4G



- ◆ 曲柄型三爪大貫通孔徑，超長爪行程
- ◆ It's a CRANK type 3-jaw with the large through-hole, and extra long jaw stroke.
- ◆ 滑動面均經硬化及精密研磨，並直接潤滑
- ◆ Mating surfaces of all parts hardened, ground and lubricated directly.
- ◆ 高剛性結構及高夾持精度
- ◆ Construction of high rigidity and high clamping accuracy.
- J值為連結螺帽未車製螺牙時的孔徑。L值為連結螺帽可車製螺牙之最大規格，但可依實際需求訂製
- J value is the hole diameter of bank draw nut, L is the maximum thread specification, and it could be customize.



外觀尺寸 Dimensions

型號	外形尺寸	A	B	C	D	E	F	G Max	G Min	H	J	L	M	N
2(3,4)G-06 A5		170	84 97	140	104.8	6-M10	45	6.5 24.5	-8.5 9.5	19	20	M55x2.0	37	73
2(3,4)G-08 A5		210	96 114	170	133.4	6-M12	52	14.5 37.5	-5.5 17.5	27.5	30	M60x2.0	38	95
2(3,4)G-08 A6		210	96 114	170	133.4	6-M12	52	14.5 37.5	-5.5 17.5	27.5	30	M60x2.0	38	95
2(3,4)G-10 A6		254	110 130	220	171.4	6-M16	75	8 33	-17 8	25	45	M85x2.0	43	110
2(3,4)G-10 A8		254	110 123	220	171.4	6-M16	75	8 26	-17 1	25	45	M85x2.0	43	110

型號	外形尺寸	P	Q Max	Q Min	R Max	R Min	S	T	U	V	W	X	Y	Z	A1	Fig
2(3,4)G-06 A5		20	25.75	13.75	39	27	31	2	12	18 15	5	3~M6	116	18	82.56	1
2(3,4)G-08 A5		25	28.25	16.25	49.25	33.25	35	2	14	18 19	5	6~M10	104.8	23	82.56	3
2(3,4)G-08 A6		25	28.25	16.25	49.25	33.25	35	2	14	18 20	5	3~M6	150	23	106.38	1
2(3,4)G-10 A6		30	35.25	17.25	64.25	45.25	40	2	16	22 20	5	6~M12	133.4	25	106.38	3
2(3,4)G-10 A8		30	35.25	17.25	64.25	45.25	40	2	16	22 25	5	3~M8	190	18	139.72	1

技術規格 Specifications

型號	外形尺寸	活塞行程 mm Plunger stroke	爪行程(直徑)mm Jaw stroke (Dia.)	夾持直徑 mm Chuck Dia. Max	容許最大入力 KN (kgf) Max. Draw Bar Pull Force	最大夾持力 KN (kgf) Max. Gripping Force	最高轉速 (rpm) Max. Speed	I Kg-m²	重量 Kg Weight	配合迴轉缸 Maching Cylinder	最高使用壓力 Max. Pressure Mpa (kg/cm²)
2G-06 A5		15	24	168	15.7(1600)	17.2(1760)	3600	0.06	12.6 14.4	CT-646	1.8(18)
2G-08 A5		20	32	210	22.8(2330)	27(2750)	3000	0.17	22 24.9	CT-852	1.7(17)
2G-08 A6		20	32	210	22.8(2330)	27(2750)	3000	0.17	22 23.1	CT-852	1.7(17)
2G-10 A6		25	37.5	254	31.8(3240)	37.2(3800)	2400	0.32	37 44	CT-1075	1.8(18)
2G-10 A8		25	37.5	254	31.8(3240)	37.2(3800)	2400	0.32	37 42.5	CT-1075	1.8(18)
3G-06 A5		15	24	168	23.5(2400)	26(2650)	3600	0.06	13 14.8	CT-646	2.7(27)
3G-08 A5		20	32	210	34.3(3500)	40.7(4150)	3000	0.17	23 25.9	CT-852	2.6(26)
3G-08 A6		20	32	210	34.3(3500)	40.7(4150)	3000	0.17	23 24.1	CT-852	2.6(26)
3G-10 A6		25	37.5	254	47.7(4870)	55.9(5700)	2400	0.32	38 45	CT-1075	2.7(27)
3G-10 A8		25	37.5	254	47.7(4870)	55.9(5700)	2400	0.32	38 43.5	CT-1075	2.7(27)
4G-06 A5		15	24	168	23.6(2400)	25.8(2640)	3600	0.06	14.6 16.4	CT-646	2.7(27)
4G-08 A5		20	32	210	34.2(3500)	40.5(4125)	3000	0.17	24 26.9	CT-852	2.6(26)
4G-08 A6		20	32	210	34.2(3500)	40.5(4125)	3000	0.17	24 25.1	CT-852	2.6(26)
4G-10 A6		25	37.5	254	47.7(4860)	55.8(5700)	2400	0.32	39 46	CT-1075	2.7(27)
4G-10 A8		25	37.5	254	47.7(4860)	55.8(5700)	2400	0.32	39 44.5	CT-1075	2.7(27)

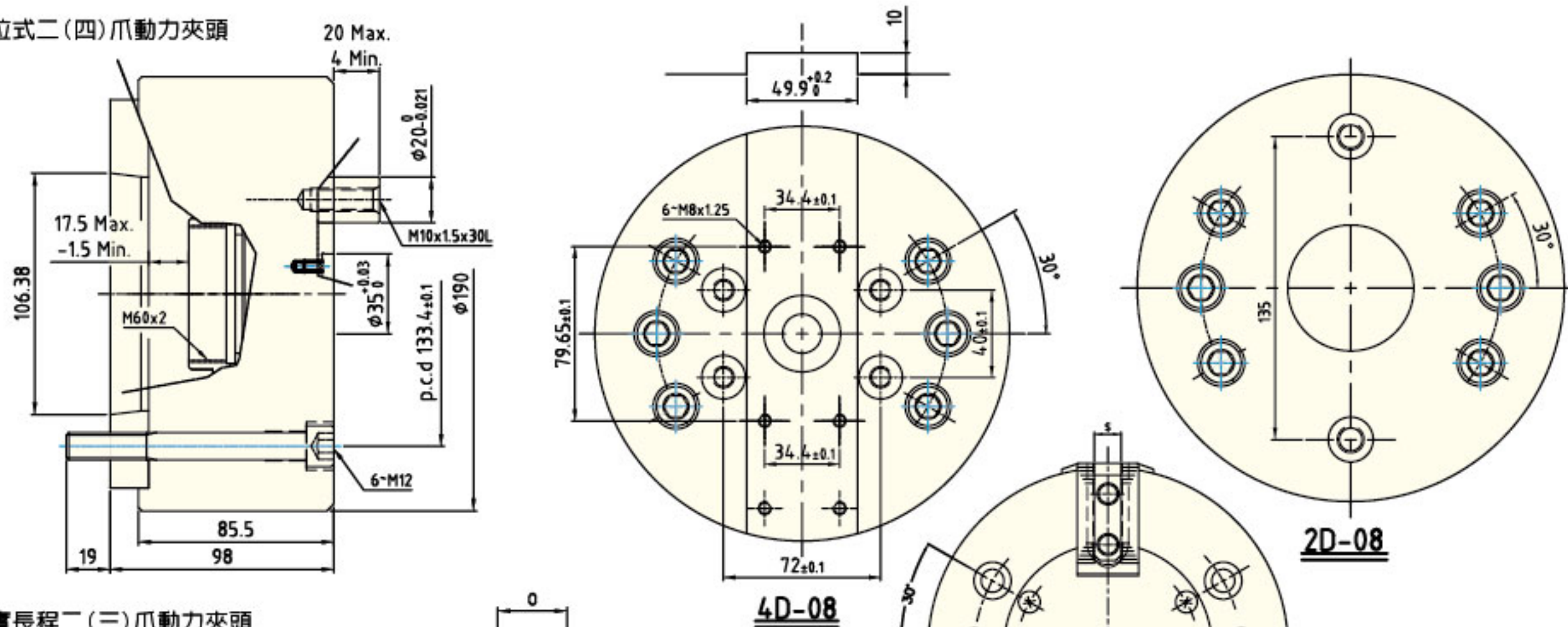
※ 本公司生產具平衡可調整結構式之夾頭，可調整 I 值

※ The company produces a balanced structure of adjustable chuck, adjustable I value

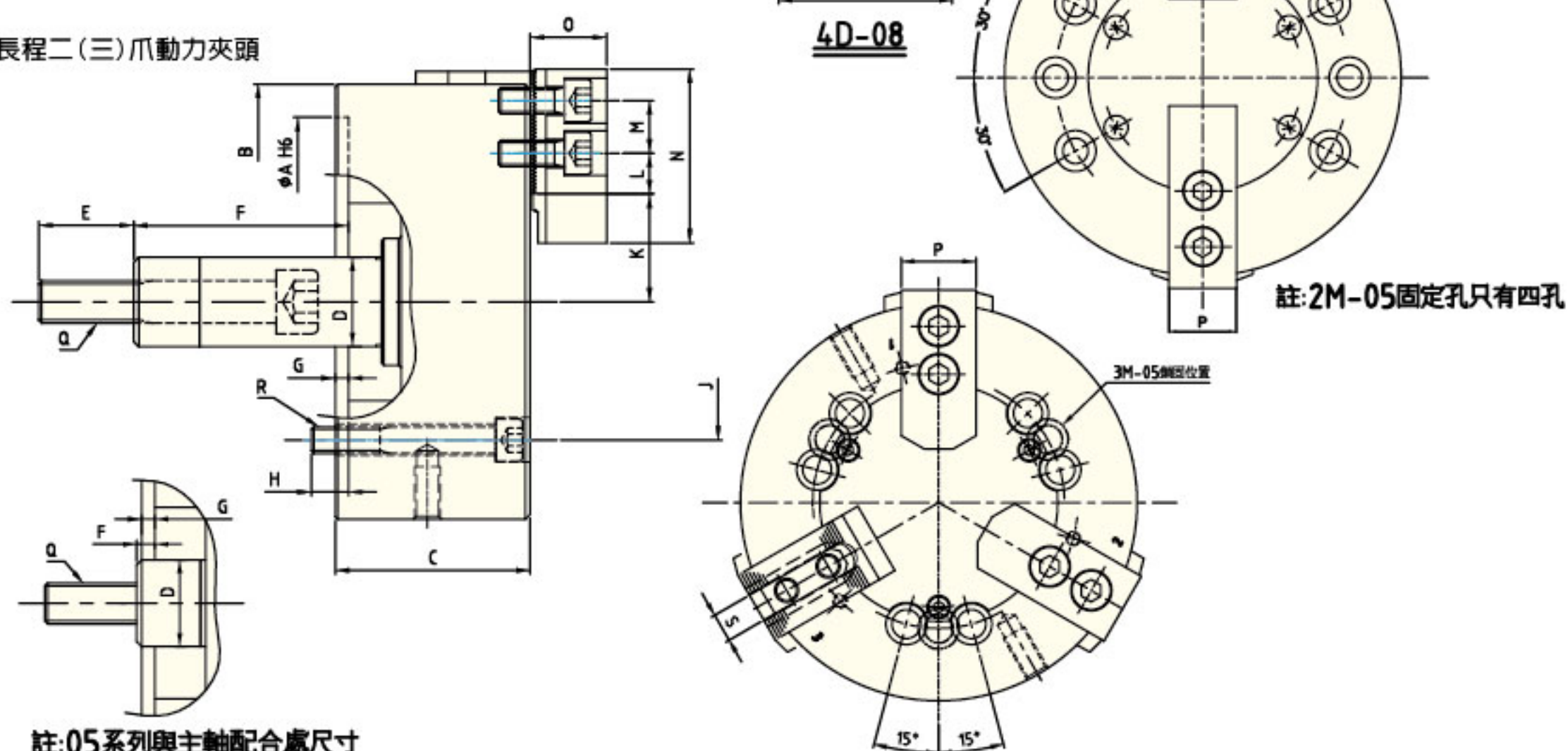


- ◆ 可用於加工梅開板手、手夾鉗(下拉式夾頭)，汽車零件及空間受限的場所(薄型夾頭)
- ◆ Can clamp special tools (pull down chuck), part of car and space have limit (thin type chuck).

※下拉式二(四)爪動力夾頭



※中實長程二(三)爪動力夾頭



外觀尺寸 Dimensions

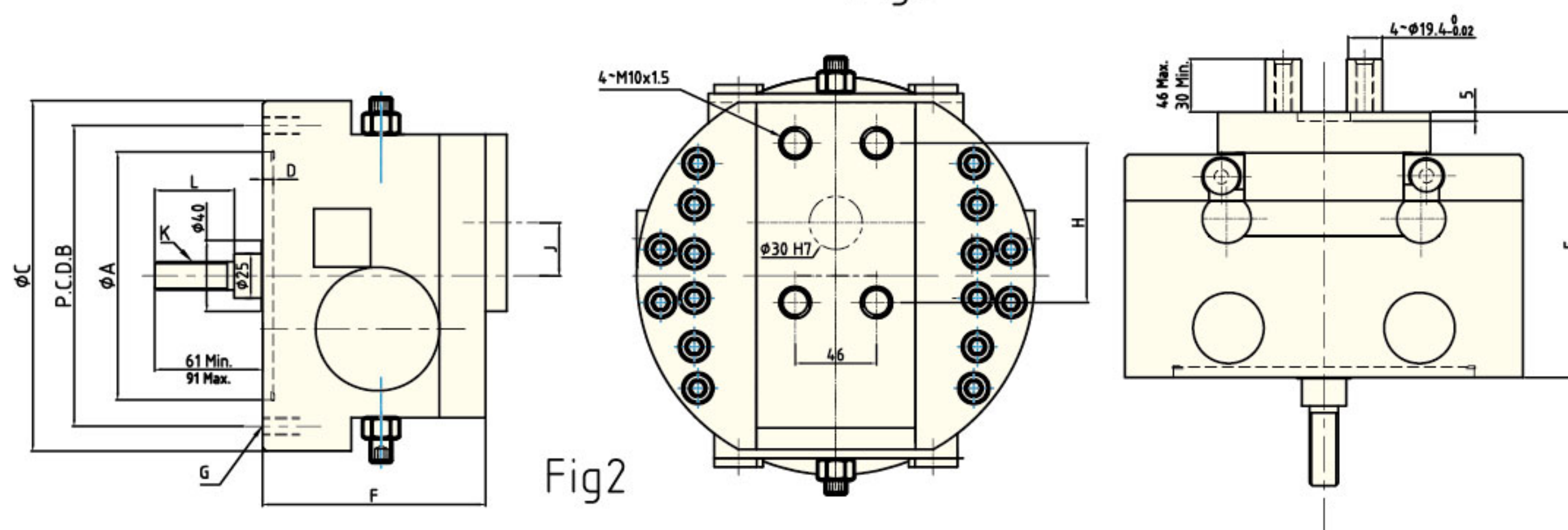
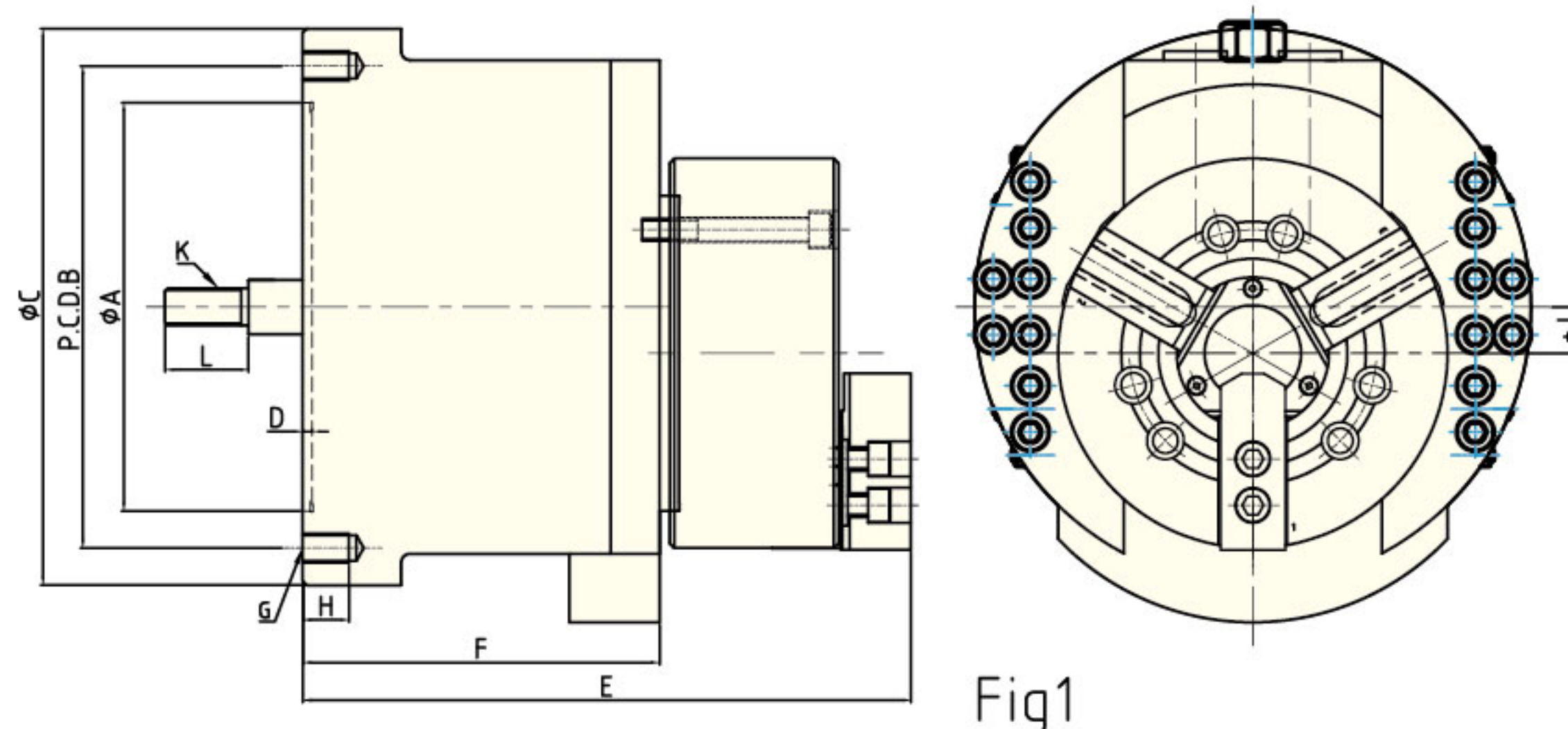
型號	外形尺寸					F		G	H	J	K		L		M	N	O	P	Q	R	S
	A	B	C	D	E	Max.	Min.				Max.	Min.	Max.	Min.							
2M-05	80	135	55	28	35	6	-9	7	14	100	32.9	27.45	17	5.5	14	62	31	25	M12x1.75	4~M8	10
2M-06	140	165	74	34	36	101.5	81.5	5		104.8	38.7	31.4	17.6	7	20	73	37	31	M16x2	6~M10	12
3M-05	80	135	55	28	35	6	-9	7		100	32.9	27.45	17	5.5	14	62	31	25	M12x1.75	4~M8	10
3M-06	140	165	74	34	36	101.5	81.5	5		104.8	38.7	31.4	17.6	7	20	73	37	31	M16x2	6~M10	12

技術規格 Specifications

型號	外形尺寸	活塞行程 mm Plunger stroke	爪行程(直徑)mm Jaw stroke (Dia.)	夾持直徑 mm Chuck Dia.		容許最大入力 KN (kgf) Max. Draw Bar Pull Force	最大夾持力 KN (kgf) Max. Gripping Force	最高轉速 (rpm) Max. Speed	I Kg-m ²	重量 Kg Weight	配合迴轉缸 Maching Cylinder	最高使用壓力 Max. Pressure Mpa (kg/cm ²)
				Max	Min							
2M-05		15	10.9	135	14	6.5(660)	11(1120)	4500	0.02	6	CK-75N	2.7(27)
2M-06		20	14.5	165	14	14.3(1460)	24(2450)	4000	0.04	12	CK-100N	2.6(26)
3M-05		15	10.9	135	14	9.8(1000)	16.4(1670)	4500	0.02	6.5	CK-75N	2.6(26)
3M-06		20	14.5	165	14	21.6(2200)	36(3680)	4000	0.04	12.5	CK-100N	2.7(27)



- ◆ 適用於曲軸加工件之加工
- ◆ Usable different center of axle part of finish.
- ◆ 具有輔助剎車，自動離心力補償功能
- ◆ Have assis stop device, auto centrifugal force compensate function.
- ◆ 可採用伺服偏心定位
- ◆ Bias location by PC control.

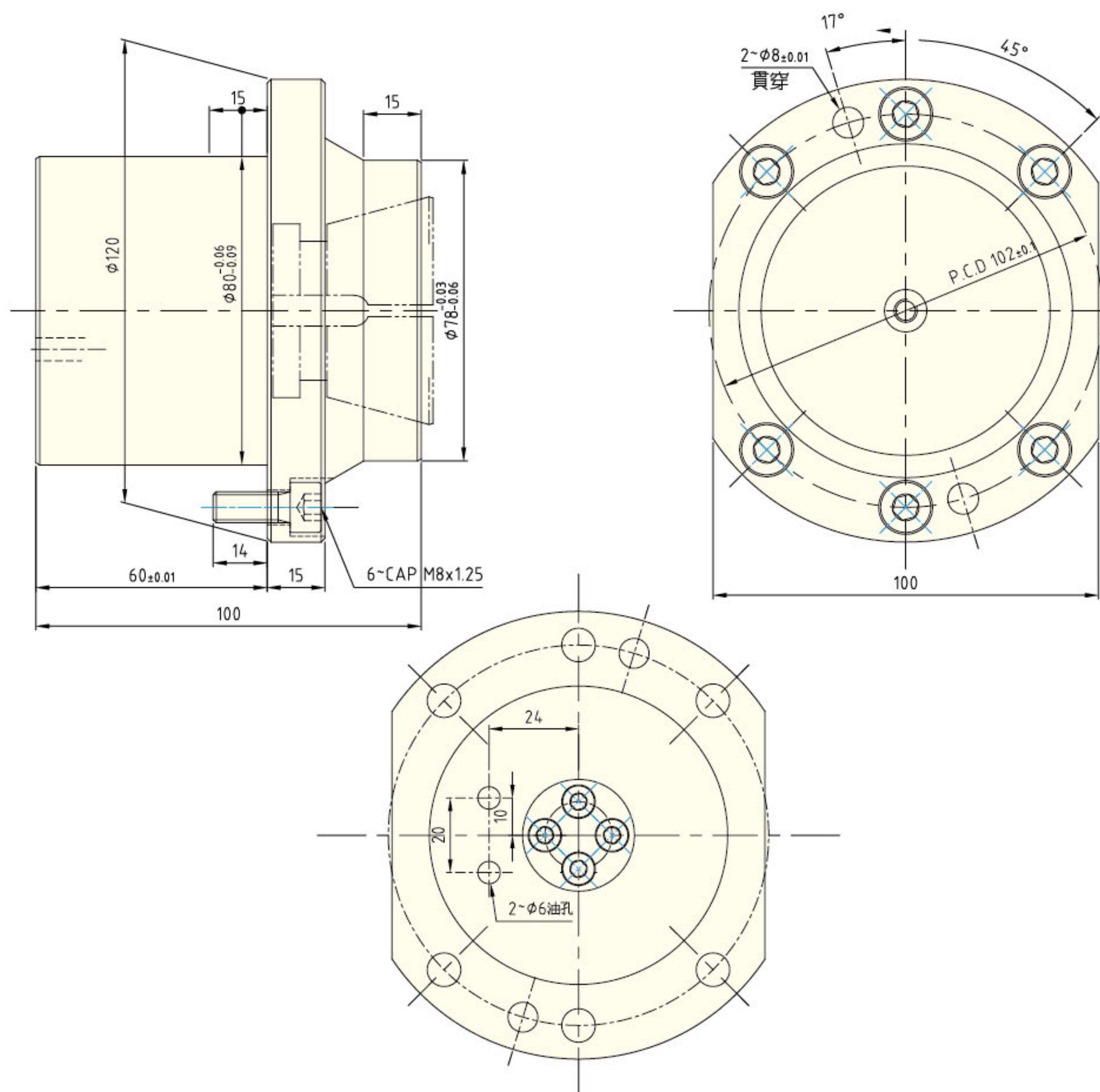


外觀尺寸 Dimensions

型號	外形尺寸	A H7	B	C	D	E	F	G	H	J	K	L	Fig
EC-614		140	104.8	156	5	208	111	4~M10x1.5	—	±7	M20x2.5	40	1
EC-830		220	260	300	5	328	192.5	6~M12x1.75	25	±25	M20x2	45	
EC-830Y		140	170	225	6	150	126	6~M10x1.5	90	30	M16x2	45	2

技術規格 Specifications

型號	參數資料 行程 mm Piston stroke	最高轉速 (rpm) Max. Speed	最高使用壓力 Max. Pressure Mpa (kg/cm ²)	重量 Kg Weight
EC-614	14	1200	12	45
EC-830	50	800	18	150
EC-830Y	30	3000	35	35

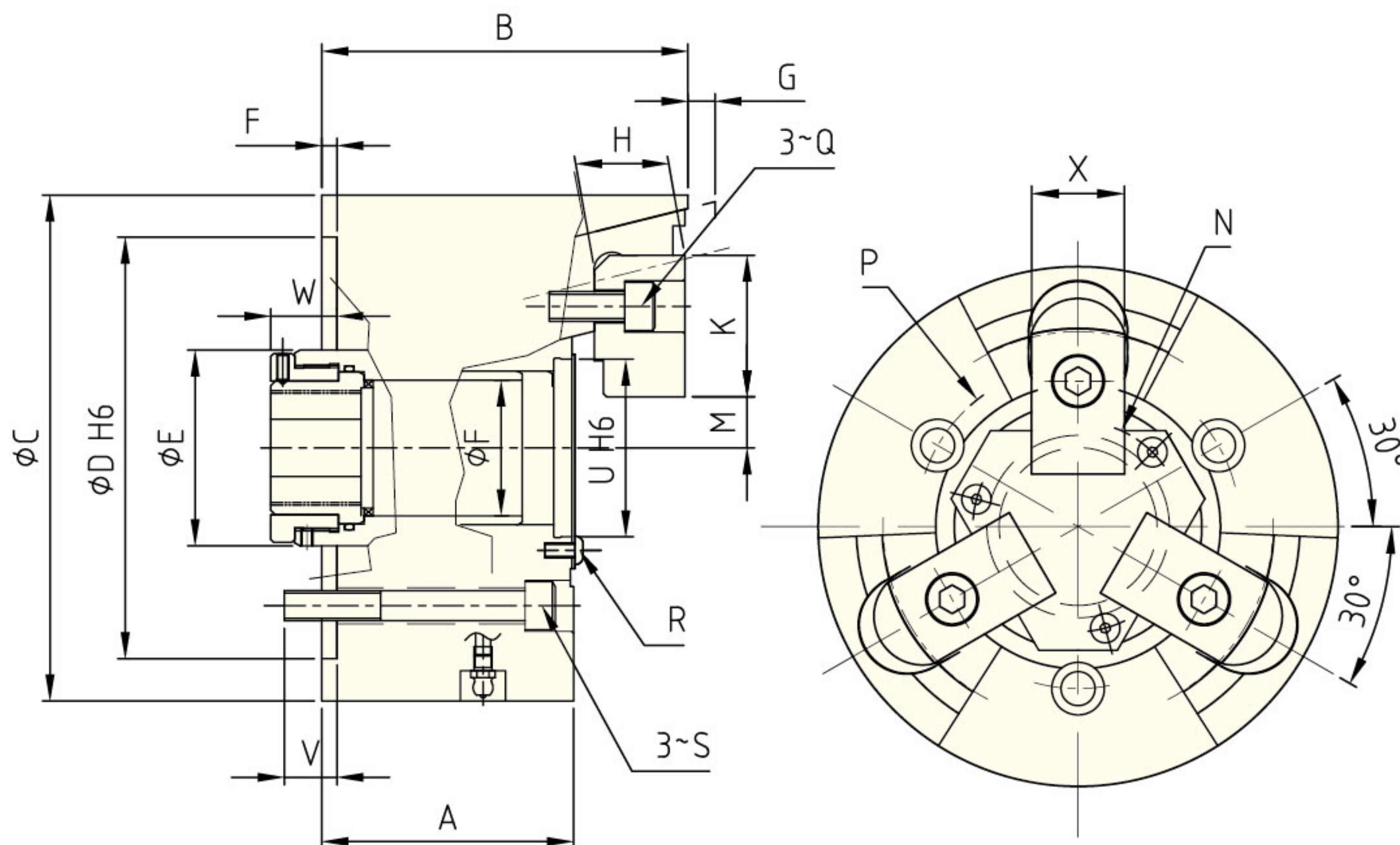


外觀尺寸 Dimensions

型號 \ 外形尺寸	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q
VC-04	78	80	120	15	15	60	15	100	6~M8x1.25	102	100	8	6	20	24	10



- ◆ 本體採合金鋼，整體硬化
- ◆ The body to use alloy steel, the body with heat treatment.
- ◆ 鋼性結構特強
- ◆ Construction of high rigidity.
- ◆ 整體密封，防塵防屑效果佳
- ◆ All to seal up, sealed against swart, chips and coolant.



外觀尺寸 Dimensions

型號	外形尺寸	A	B	C	D	E	F	G Max	G Min	H	K	M Max	M Min
3UB-04		55	73	110	85	50	30	5	-1	17	35	10.5	40
3UB-06		83.5	121.5	168	140	65	45	9	-1	30	47	17	45
3UB-08		88.5	133	210	170	79	52	9	-1	34	62	16.3	45

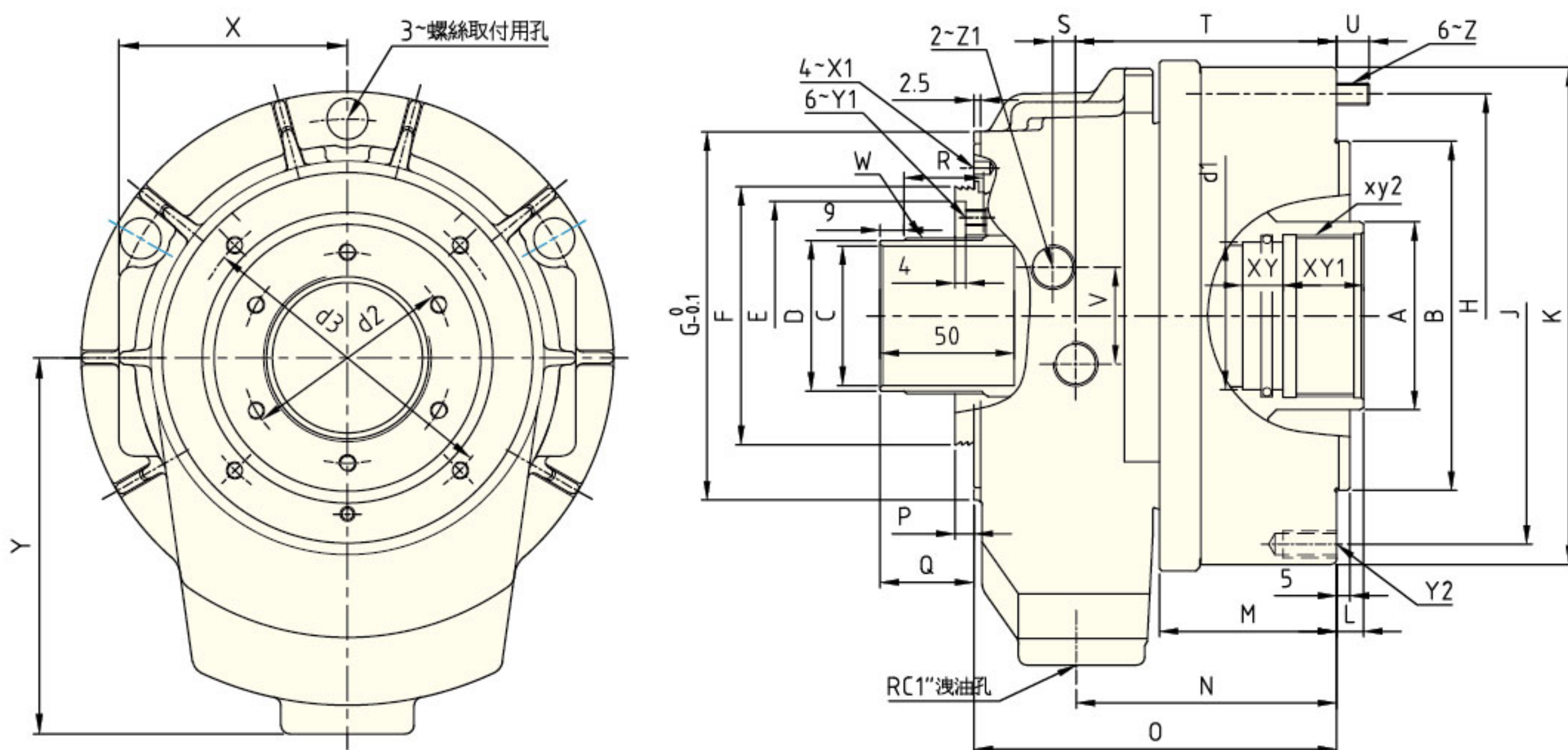
型號	外形尺寸	N p.c.d	P p.c.d	Q	R	S	U	V	W Max	W Min	X
3UB-04		46	70.3	M8	M5	M10	40	15	22	16	35
3UB-06		68	104.78	M10	M5	M10	59	15	22	12	47
3UB-08		80	133.35	M12	M6	M12	66	16.5	22	12	62

技術規格 Specifications

型號	外形尺寸	活塞行程 mm Plunger stroke	爪行程 (直徑) mm Jaw stroke (Dia.)	夾持直徑 mm Chuck Dia. Max Min	容許最大人力 KN(kgf) Max. Draw Bar Pull Force	最大夾持力 KN(kgf) Max. Gripping Force	最高轉速 (rpm) Max. Speed	I kg-m ²	重量 Kg Weight	配合迴轉缸 Maching Cylinder	最高使用壓力 Max. Pressure Mpa (kg/cm ²)
3UB-04		6	3	60 10	10.0(1060)	28.4(2900)	8000	0.005	4	CT-533	2.7(27)
3UB-06		10	5	105 20	17.9(1850)	57.8(5900)	7000	0.0055	15	CT-646	2.6(26)
3UB-08		10	5	132 25	25.0(2550)	80.0(8200)	6000	0.014	28	CT-852	2.3(23)



- ◆ 超短，大孔徑型迴轉油壓缸
- ◆ Super short form, light weight large Though-Hole
- ◆ 內建逆止閥自鎖機構及壓力洩壓閥
- ◆ Can screw it from the rear end of the cylinder when mounting.
- ◆ 安裝時可由後端鎖固之
- ◆ Built-in safety check valves and pressure relief valves.



外觀尺寸 Dimensions

外形尺寸 型號	內徑	A	B _{H7}	C _{H8}	D _{q7}	E _{H7}	F	G	H	J	K	L _{max.}	L _{min.}	M	N	O	P	Q _{max.}	Q _{min.}	R	S	T	U
TK-533	105	45	110	33	37	62	70	98	125	125	141	12	0	50	78.5	118	6	37	25	26	8.5	80	15
TK-646	125	65	120	46	50	76	85	116	140	140	156	15	0	57	85	126	6	40	25	29	8.5	88	15
TK-852	145	70	130	52	56	85	96	128	165	170	185	20	0	66	95	135	7	45	25	29	8.5	97	12
TK-1075	170	98	160	75	81	108	121	164	190	190	212	25	0	73	107	157	7	50	25	33	12	109	17

外形尺寸 型號	V	W	X	Y	Z	X1	Y1	Y2	Z1	d1 _{H8}	d2	d3	xy	xy1	xy2
TK-533	30	M39-1.5	62	110	M8-55	M5-6	M6-6	6-M10-20	RC1/4	35	49	83	13	25	M38-1.5
TK-646	36	M52-1.5	75	120	M8-65	M5-6	M6-6	12-M10-20	RC3/8	50	64	98	13	25	M55-2
TK-852	36	M58-1.5	80	130	M8-70	M6-6	M6-7	12-M10-20	RC3/8	55	73	110	15	30	M60-2
TK-1075	40	M84-2	98	160	M10-80	M6-8	M6-8	12-M10-20	RC1/2	80	98	155	15	35	M85-2

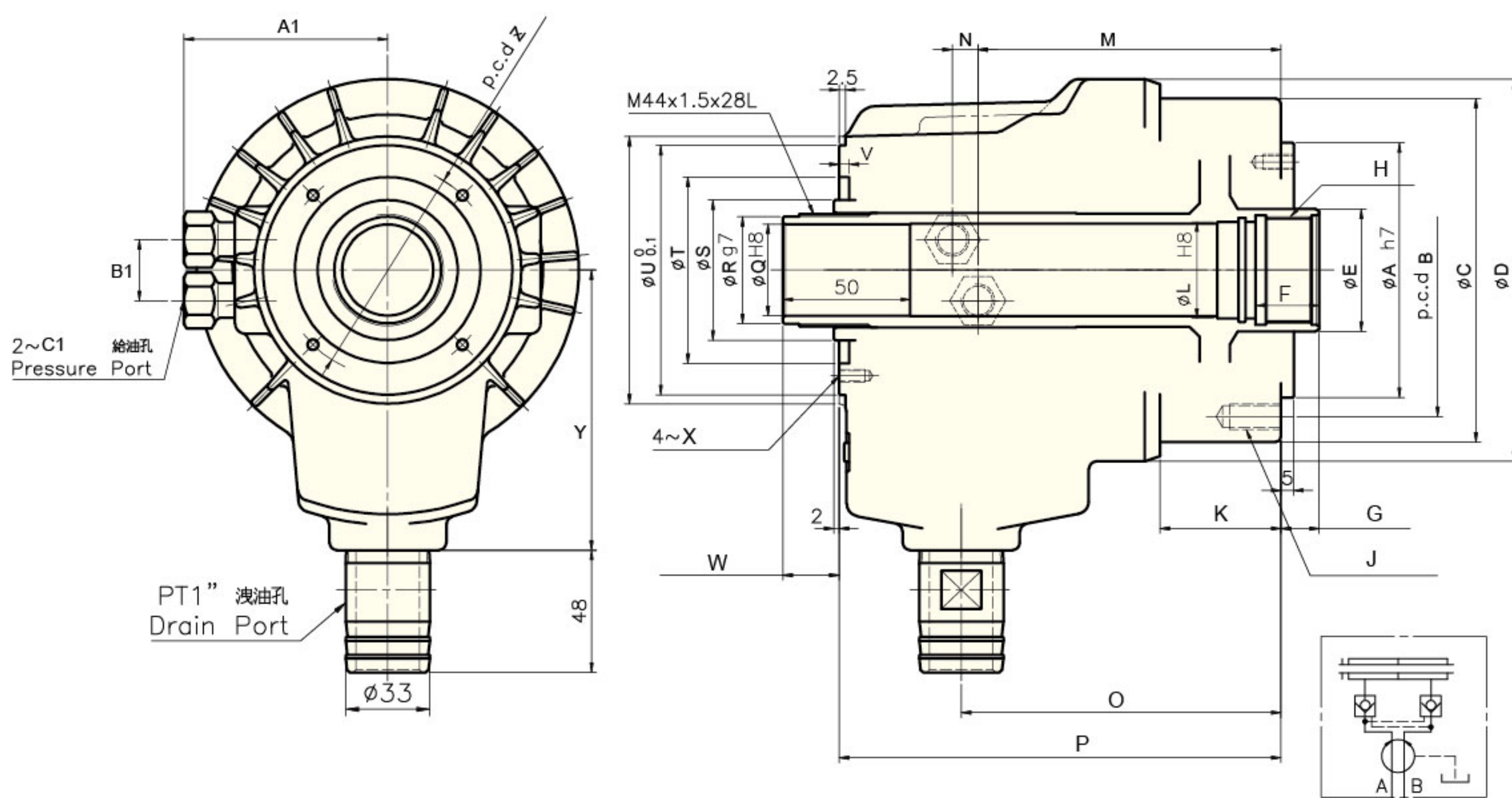
技術規格 Specifications

外形尺寸 型號	活塞面積 cm ² Eff. piston area	行程 mm Piston stroke	最高迴轉速 (rpm) Max. speed	最高使用壓力 Max. Pressure Mpa (kg/cm ²)	I kg.m ² Moment of inertia	重量 Kg Weight	總洩漏量 lit./min Total oil leakage
TK-533	73	69.7	12	8000	4.5(45)	0.010	6.1
TK-646	99	88	15	7000	4.5(45)	0.016	7.4
TK-852	135.3	125	20	6300	4.5(45)	0.029	11.7
TK-1075	165.9	149.9	25	5500	4.5(45)	0.063	16.9

※本公司生產具平衡可調整結構式之油壓缸，可調整 I 值
 ※The company produces a balanced structure of adjustable chuck, adjustable I value



- ◆ 洩油孔配務必單獨接回油槽，以避免產生背壓
- ◆ The drain potr should be independently connected to oil tank to avoid back pressure.



外觀尺寸 Dimensions

型號	外形尺寸	內徑	A _{n7}	B	C	D	E	F	G		H	J	K	L _{H8}	M	N	O	P	Q	R
									Max.	Min.										
TH-536		105	100	115	135	150	48	25	15	0	M42x1.5	6~M10x20	47.5	38	119	10	125.5	170.5	36	42
TH-646		125		130	156	169	65	30			M55x2	12~M10x20	60	50	127.5	60	135.5	193.5	46	50

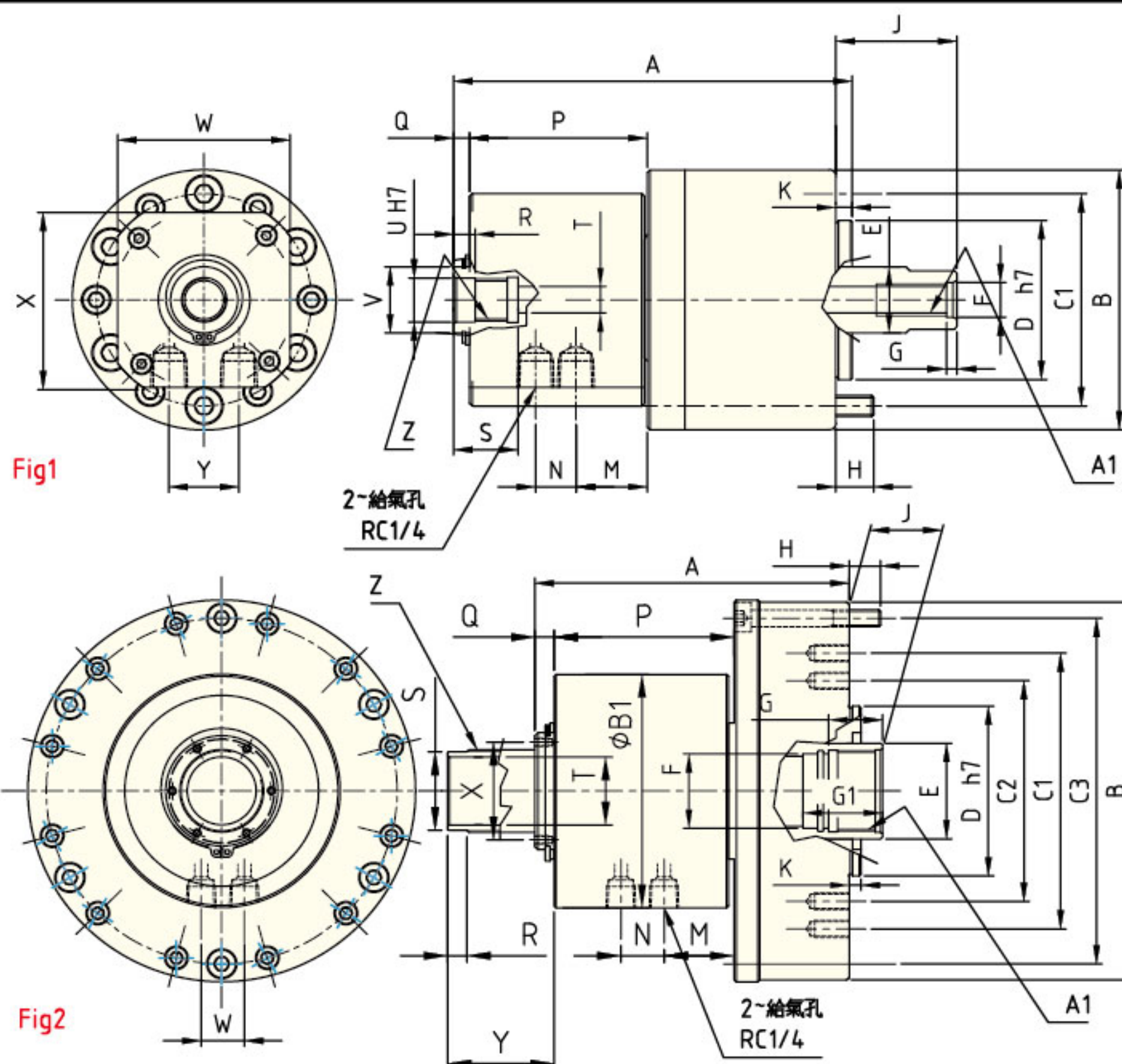
型號	外形尺寸	S	T	U	V	W		X	Y	Z	A1	B1	C1
						Max.	Min.						
TH-536		55	73	98	4	40	25	4~M5x10	110	83	80	24	RC 1/4"
TH-646		70	90	116		45			125	98	98	30	RC 3/8"

技術規格 Specifications

型號	外形尺寸	活塞面積 cm ² EFF. piston area		行程 mm	最高速迴轉數 (rpm)	最高使用壓力	1 Kg.m ²	重量 Kg	總洩漏量 lit./min
		伸側 Extend	拉側 Extend	Piston stroke	Max. speed	Max. Pressure New (kg/cm ²)	Moment of inertia	Weight	Total oil leakage
TH-536		69.5	67.5	15	8000	4.0(40)	0.05	8	2.8
TH-646		97	87.5	15	7000	4.0(40)	0.05	13	3.6



- ◆ 貫穿孔徑，適合螺絲專用機搭配自動送料使用；
作動輕巧靈敏，可調整夾持力
- ◆ Through hole, suitable special purpose; can adjustment clamp force.



外觀尺寸 Dimensions

型號	外形尺寸	A	φB	C1 p.c.d	C2 p.c.d	C3 p.c.d	D	φE	φF H9	G	G1	H	J Max. Min.	K	M	N	P	Q	R	S	T	U	V	W	X	Y Max. Min.
CA-65		148	98	80	---	---	60	25	13	4	---	6~M8x60凸出 14	45 30	6	26.5	15	65	6	8	24	φ10 通孔	φ16.65	φ25	64	66	26
CA-130N		147	165	90	---	150	65	---	17	5	---	6~M8x75凸出 14	---	---	24	---	66	---	---	---	---	---	---	---	---	---
CA-140		121.5	180	130	104	163	80	45	35	12	25	6~M8x65凸出 11	5 15	5	22	20	63	9	9	φ37 g7	φ32 通孔	---	---	32	46 p.c.d	44.5
CA-170		144.5	208	---	---	191	---	---	---	---	---	---	0	---	32.5	---	83.5	---	---	---	---	---	---	---	---	34.5
CA-220N		151.5	258	170	92	242	130	70	57	30	42	6~M10x70凸出 18.5	5	---	31.5	---	82.5	---	---	---	---	---	---	---	---	---

型號	外形尺寸	Z	A1	B1	Fig
CA-65		M16x1.5左牙	M12x1.75	---	1
CA-130N		---	M16x2	---	1
CA-140		M39x1.5	M38x1.5	φ88	2
CA-170		---	---	---	2
CA-220N		---	M60x2	φ110	2

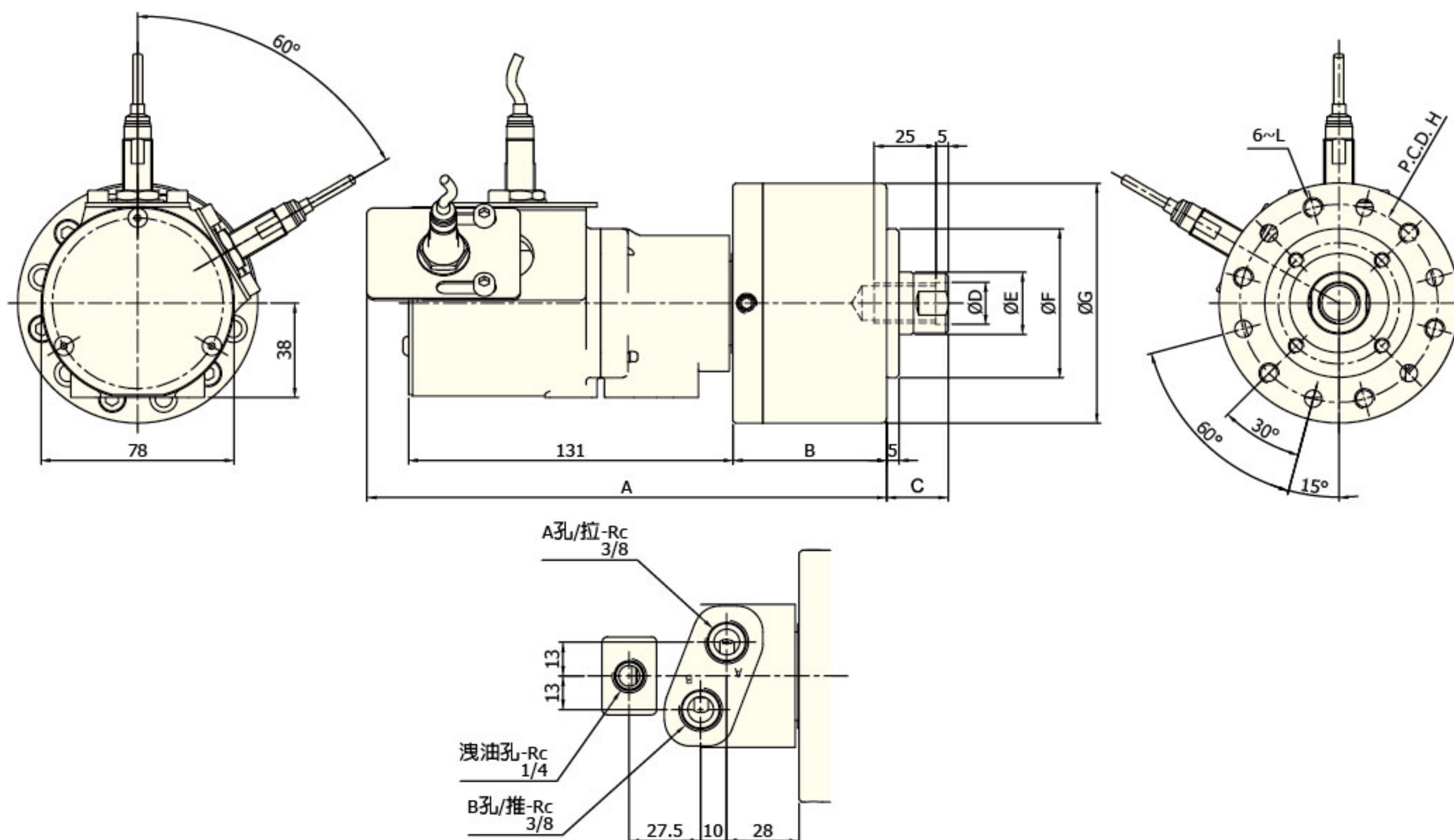
技術規格 Specifications

型號	外形尺寸	活塞面積 (伸側) cm ² Eff. piston area	活塞面積 (拉側) cm ² Eff. piston area	行程 mm Piston stroke	最高轉速 rpm Max speed	最高使用壓力 MPa Max pressure (kg/cm ²)	重量 Kg Weight
CA-65		31.2	28.3	15	9500	0.7(7)	3.2
CA-130N		130.7	127.2		5000		7
CA-140		138.0	141.4	5	4500		9
CA-170		211.0	214.4	15			13
CA-220N		340.1	347.0	5			17

註：另有無通孔型歡迎來電洽詢
註：另有注氣型及注水型供訂製



- ◆ 短型，高速，行程控制型迴轉油壓缸
- ◆ For short form, high speed and stroke control.
- ◆ 感應式近接開關，行程調整容易，可確認油壓缸正確作動
- ◆ To ensure safe power chuck operations by conforming movement of the piston in the cylinder.
- ◆ 安裝時可由後端鎖固之
- ◆ Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓
- The drain port should be independently connected to oil tank to avoid back pressure.



外觀尺寸 Dimensions

型號	外形尺寸	A	B	C	D	E	F	G	H	L
				max. min.						
CS-6520N		193	62	25						
CS-6525N		198	67	20	M16-P2	25	60	97	80	6~M8-16
CS-6530N		203	72	15						
CS-75N		188	57	30			65	107	90	6~M8-16
CS-7530N		203	72	15	M20-P2.5	30	80	132	115	6~M10-20
CS-100N			72	25						
CS-125		271	124	51	M24-P3	35	110	160	130	6~M12-24

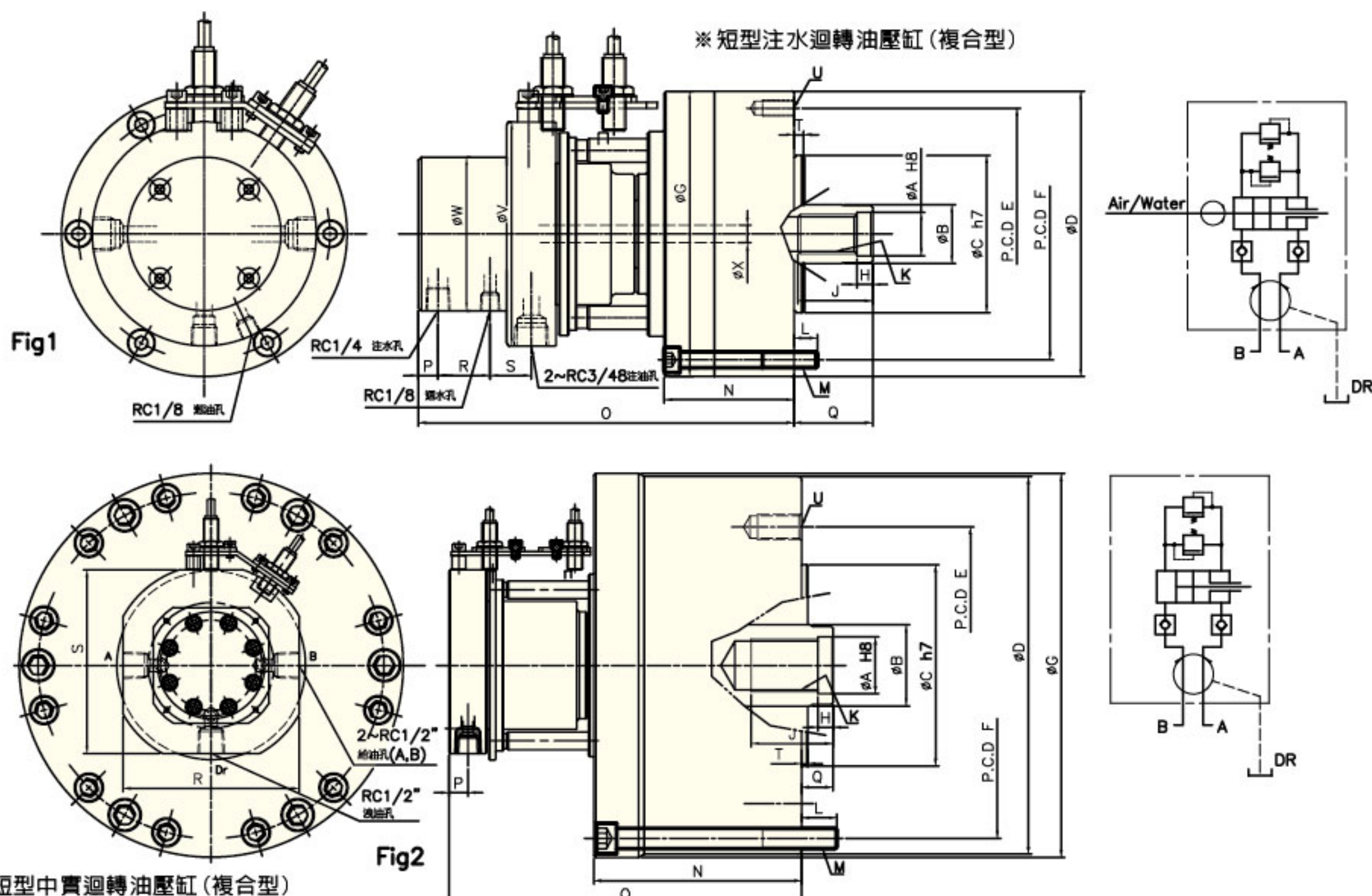
技術規格 Specifications

型號	外形尺寸	活塞面積 (押側) cm ² Eff. piston area	活塞面積 (拉側) cm ² Eff. piston area	最高轉速 (rpm) Max speed	行程 mm Piston stroke	最高使用壓力 MPa Max pressure (kg/cm ²)	I Kg/cm ² Moment of inertia	重量 Kg Weight
CS-6520N					20			3.2
CS-6525N		32	28.3		25			3.25
CS-6530N					30		0.01	3.3
CS-75N		43	37.1	6000	15	4.0(40)		3.3
CS-7530N					30			3.4
CS-100N		77.4	71.5		20		0.04	4.8
CS-125		120	113		25		0.022	8

複合型油壓缸 CX/MR/CE



- ◆ 高速，輕量整合型迴轉油壓缸
- ◆ For short form, light weight and high speed rotary cylinder.
- ◆ 內建逆止閥自鎖機構，洩壓閥及行程控制近接開關
- ◆ Can screw it from the rear end of the cylinder when mounting.
- ◆ 安裝時可由後端鎖固之
- ◆ Built-in safety check valves, pressure relief valves and proximity sensor.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓
- The drain port should be independently connected to oil tank to avoid back pressure.



外觀尺寸 Dimensions

型號	A	B	C	D	E	F	G	H	J	K	L	M	N
CX-110	22	30	80	145	128	128	145	8	38	M20x2	12	6~M8x70	66
CE-A130	24	36	51	168	—	150	171	8	40	M24x3	17	6~M10x85	79.5
MR-20060	38	55	120	250	145	225	257	5	60	M36x4	26	6~M16x155	145
MR-20090	—	—	—	—	—	—	—	—	—	—	—	6~M16x185	175
MR-25060	45	65	160	300	220	275	305	12	65	M42x3	28	6~M16x175	165

外形尺寸 型號	O	P	Q		R	S	T	U	V	W	X	Fig
			max.	min.								
CX-110	191	10	60	40	26.5	21	5	6~M8	114	78	通孔9	1
CE-A130	158	7.5	60	30	5	—	15	—	114	—	通孔8	1
MR-20060	258.5	15	85	25	140	135	6	6~M16		—	—	2
MR-20090	318.5		115									
MR-25060	280		85			146	5	6~M20				

※註：CX系列無中心給水亦可運轉

技術規格 Specifications

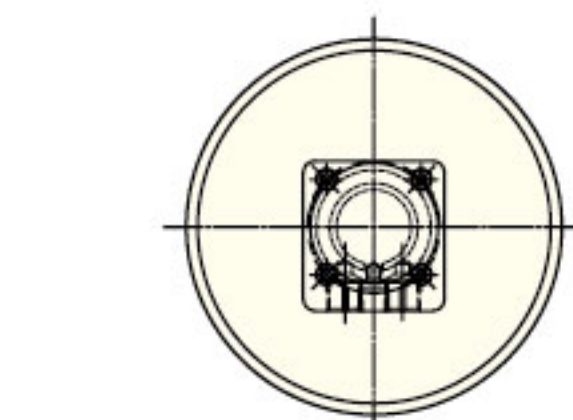
型號	活塞面積 cm ² Eff. piston area	行程 mm Piston stroke	最高迴轉速 (rpm) Max. speed	最高使用壓力 Max. Pressure Mpa (kg/cm ²)	重量 Kg Weight
CX-110	91.2	20	6000	35	7.5
CE-A130	128.9	30	6000	40	91
MR-20060	293	60	5500	5.0(50)	45
MR-20090	—	90	—	—	50
MR-25060	465.2	60	2000	5.0(50)	72

雙動複合型油壓缸

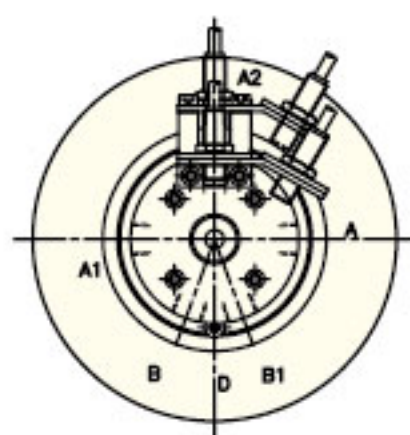
CW/CD



- ◆ 內建逆止閥自鎖機構及壓力洩壓閥
- ◆ Built-in safety check valves and pressure relief valves.
- ◆ 短型，輕量，雙桿型迴轉油壓缸
- ◆ For short form, light weight, double rod rotary cylinder.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓
- The drain port should be independently connected to oil tank to avoid back pressure.

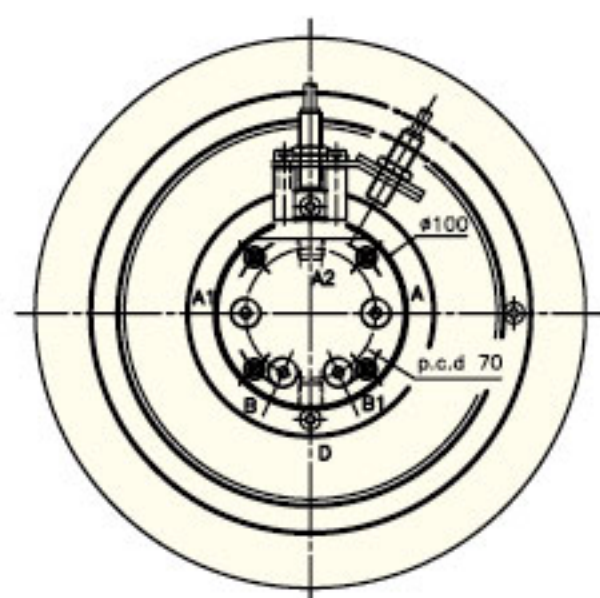


※雙動型附逆止閥迴轉油壓缸

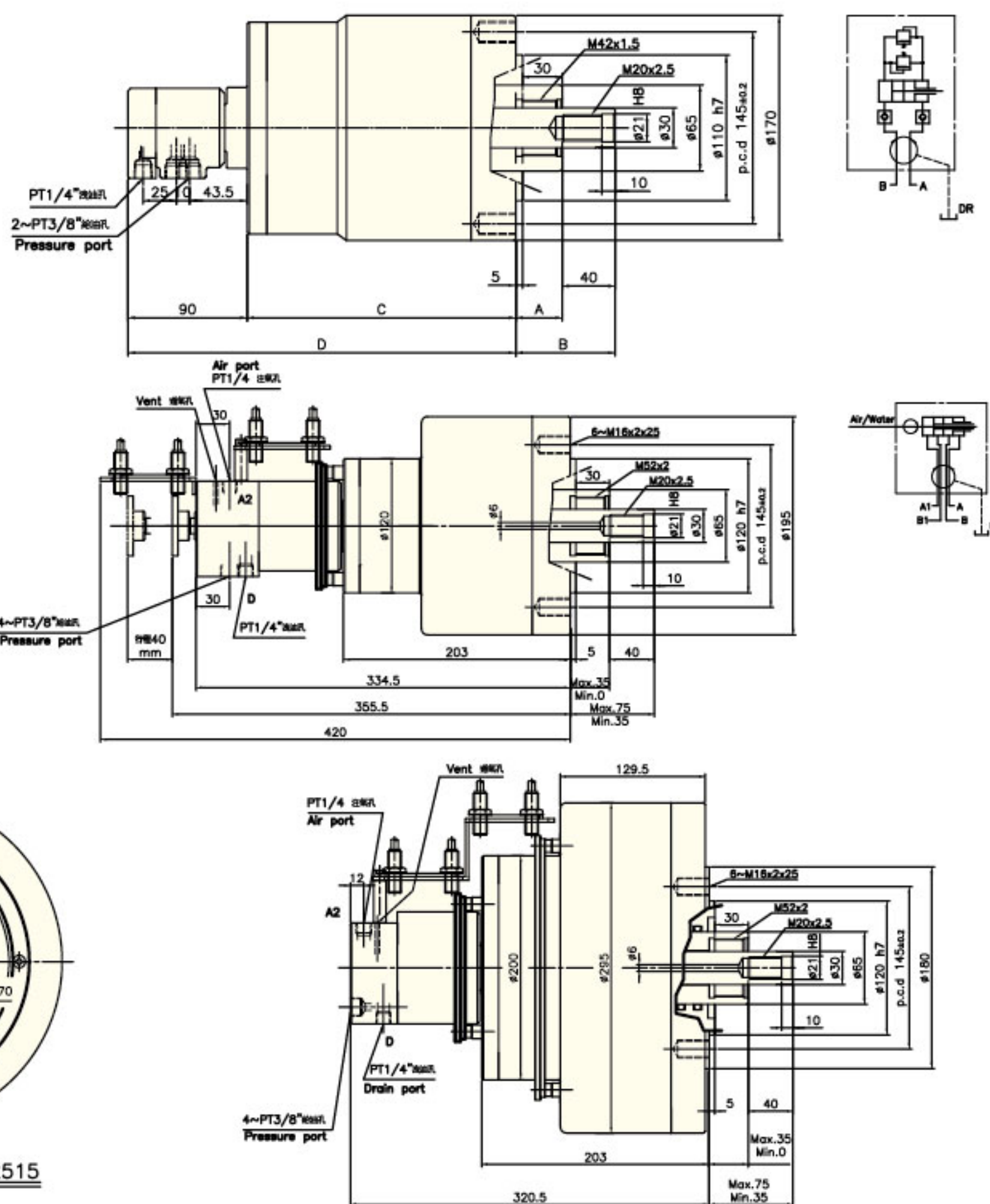


CD-1570

※雙動型注氣(水)雙檢知迴轉油壓缸



CD-2515



外觀尺寸 Dimensions

型號	外形尺寸		A		B		C	D
	max.	min.	max.	min.	max.	min.		
CW-120	35	15	60	40	137	227		
CW-125		10	55	30	147	237		

技術規格 Specifications

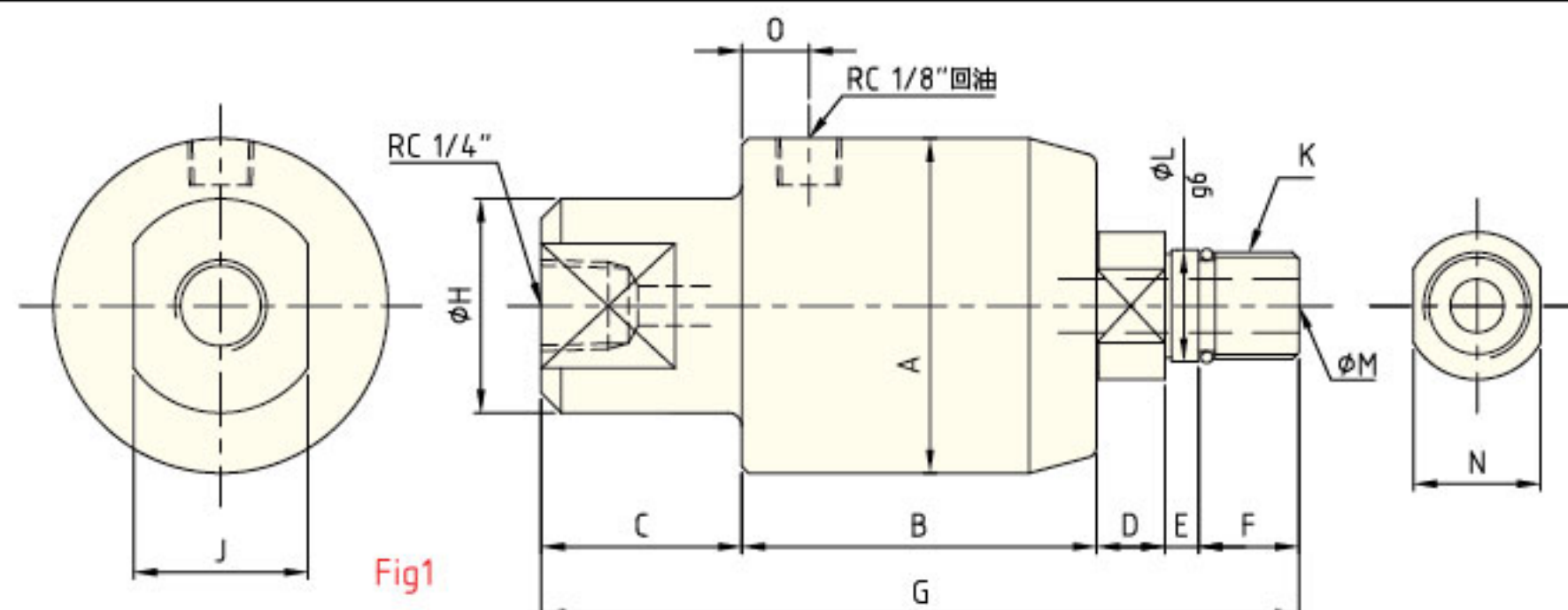
外形尺寸		活 塞 面 積 cm ² Eff. piston area	行 程 mm Piston stroke	最 高 迴 轉 速 (rpm) Max. speed	最 高 使 用 壓 力 Max. Pressure Mpa (kg/cm ²)	重 量 Kg Weight	總 洩 漏 量 lit./min Total oil leakage
型 號		押 側 Extend 拉 側 Retract					
CW-120		122.7/126.1 116.1/113.1	20	5000	3.0(30)	11.3	0.7
CW-125			25			11.5	

技術規格 Specifications

外形尺寸		活 塞 面 積 cm ²	Eff. piston area	行 程 mm	最 高 迴 轉 速 (rpm)	最 高 使 用 壓 力	重 量 Kg	總 洩 漏 量 lit./min
型 號		押 側 Extend	拉 側 Retract	Piston stroke	Max. speed	Max. Pressure Mpa (kg/cm ²)	Weight	Total oil leakage
CD-2515		172.9/481.52	169.64/457.67	40/35	3000	3.5 (35)	39	0.7
CD-1570		36.94/168.51	31.42/143.52	40/35	3000	3.5 (35)	30	0.7

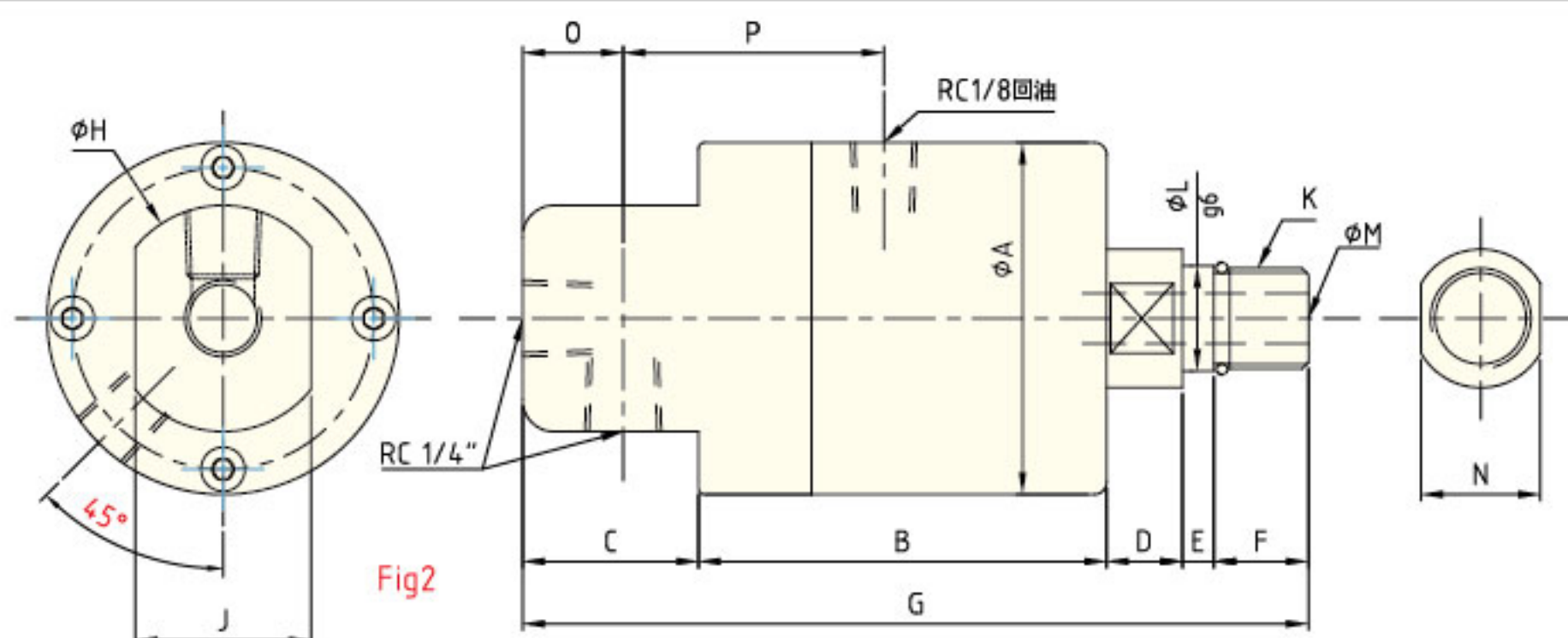


- ◆ 内部止水閥使用超硬合金及精密陶瓷相配對，耐磨耗性特佳
- ◆ Usable for oil and water-soluble coolant.
- ◆ 高轉數，高壓力用冷卻液迴轉接頭
- ◆ Coolant joint for high speed, high pressure and medium delivery.
- ◆ Seal bushing inside is made of cemented carbide and ceramics, which provide higher wear-resistance.
- 無流體通過時，請勿轉動
- The joint should not run without liquid.



- ◆ 内部止水閥使用超硬合金及精密陶瓷相配對，耐磨耗性特佳
- ◆ Usable for oil and water-soluble coolant.
- ◆ 運轉時如無流體通過，則止水閥自動脫離，使止水閥不致乾磨而損壞
- ◆ Seal bushing inside is made of cemented carbide and ceramics, which provide higher wear-resistance.
- ◆ The seal will depart automatically if no liquid passes during operation, and will not be damaged due to dry touching.
- ◆ 高轉數，高壓力用冷卻液迴轉接頭
- ◆ Coolant joint for high speed, high pressure and medium delivery.
- 最小啓動壓力4kgf/cm²
- Min. pressure is 4kgf/cm²

CJ80/90



外觀尺寸 Dimensions

型號	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Fig
CJ-50	50	53	30	10	5	15	113	32	26	M16x1.5LH左牙 (or 5/8-18-LH)	16.65	8	19	10	---	1
CJ-80Y																
CJ-80	56	65	28	12			125	36	28					16	41.5	2
CJ-90																

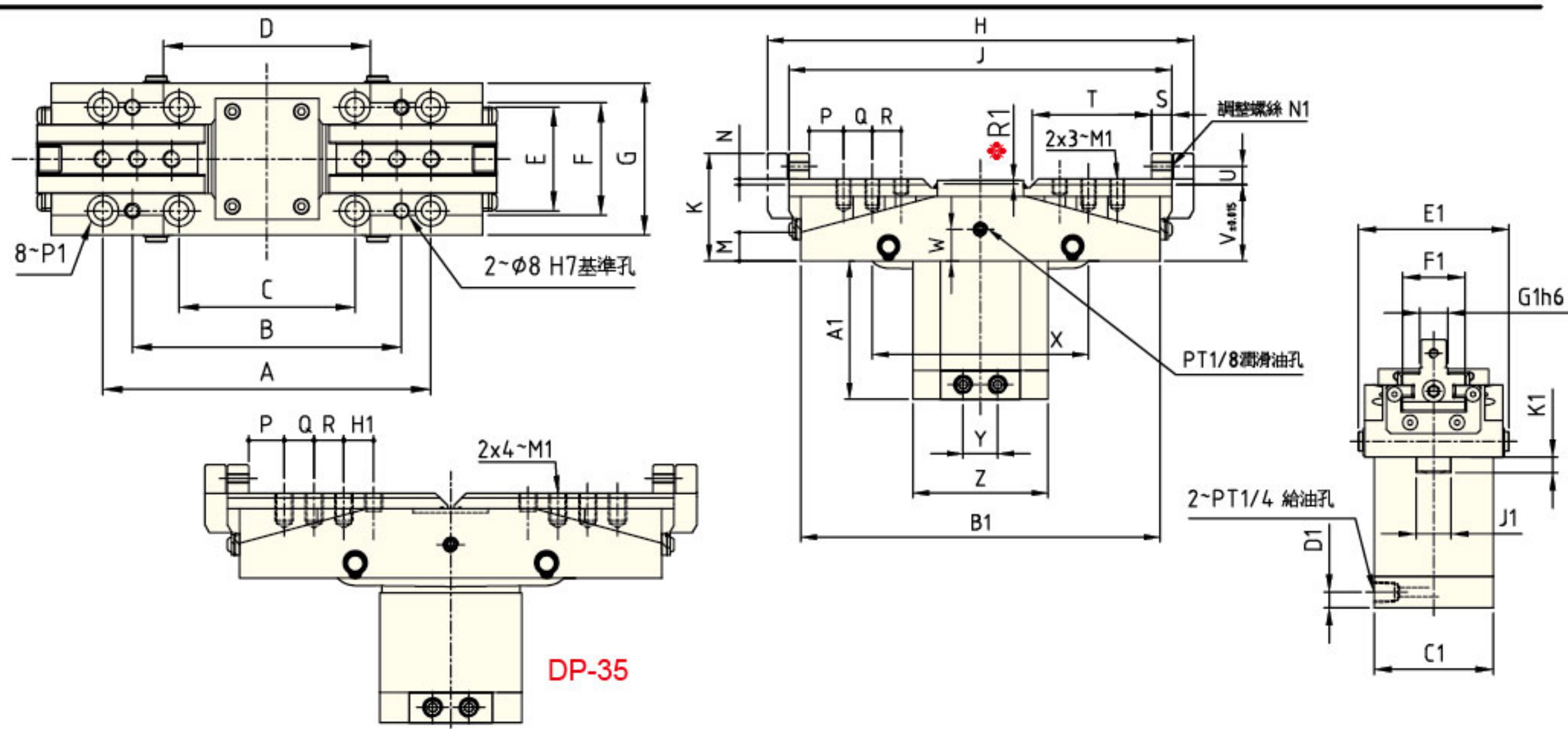
技術規格 Specifications

技術規格 Specifications				
外形尺寸 型號	最高迴轉速 (rpm) Max. speed	最高使用壓力 Max. Pressure Mpa (kg/cm ²)	吐出量 (L/min) Delivery amount	重量 Kg Weight
CJ-50	8000	6.0 (60)	28 at 50kg/cm ²	0.6
CJ-80Y	10000	7.0 (70)		
CJ-80				
CJ-90				

註：CJ-80Y為高壓高轉速型，可選用注水或注氣
註：CJ-90內附止水閥自動開閉機構



- ◆ 曲柄型二爪同步夾具，爪行程長
- ◆ It's a CRANK type 2-jaw synchronous clamp with long jaw stroke.
- ◆ 滑動面均經硬化及精密研磨，並直接潤滑
- ◆ Matching surfaces of all parts hardened, ground and lubricated directly.
- ◆ 高夾持精度，防塵效果特佳
- ◆ Construction of high rigidity and high clamping accuracy.



外觀尺寸 Dimensions

型號	A	B	C	D	E	F	G	H Max.	J Min.	K	M	N	P	Q	R	S	T	U	V	W
DP-10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DP-20	190	156	102	110	---	65	88	249	229	75	32	---	20	---	18	12	66	13	53	22
DP-20B	---	132	112	---	60	---	80	167	147	72.5	---	4	10	18	---	6	35	11	114	83
DP-20C	---	---	---	---	---	---	---	---	---	132	---	---	---	---	---	---	---	---	---	---
DP-30A	---	---	---	---	---	---	---	296.5	266.5	---	---	4	---	---	---	---	83	---	---	---
DP-30	---	---	---	---	---	---	---	327	297	---	---	---	24	20	20	14	98	---	---	---
DP-35	190	156	102	110	60	65	88	332	297	75	23	3	24	20	20	14	127	13	53	22
DP-40	---	---	---	---	---	---	---	337	297	---	---	4	---	---	---	---	98	---	---	---
DP-50B	---	---	---	---	---	---	---	311	261	---	---	4	20	---	---	---	81	---	---	---
DP-50	230	195	105	140	85	80	110	369	319	90	22	---	28	21	21	16	102	---	65	32
DP-70	275	240	120	---	95	---	120	430	360	114	---	5	---	23	23	16	110	15	89	52
DP-110	315	280	140	---	---	---	---	542	432	---	---	---	17	---	---	20	129	---	---	---

型號	X	Y	Z	A1	B1	C1	D1	E1	F1	G1 H1	H1	J1	K1	M1	P1
DP-10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DP-20	145	---	94	83.5	215	76	10	96	40	18	---	22	4	M10x1.5	M10
DP-20B	---	24	---	76	140	---	52	88	---	---	---	---	---	8~M10x1.5	M10
DP-20C	---	---	---	---	---	---	---	---	---	---	---	---	---	M10x1.5	M10
DP-30A	---	---	---	---	250	---	10	---	---	18	---	---	---	M10x1.5	M10
DP-30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DP-35	150	24	94	96	280	76	9	96	40	22	20	22	6	M12x1.75	M12
DP-40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DP-50B	---	---	---	119.5	250	---	10	---	---	---	---	14	---	---	---
DP-50	190	---	105	120	300	---	---	115	50	26	---	30	8	8~M14x2	---
DP-70	270	30	115	146	346	115	---	144	55	32	---	34	31	10~M14x2	---
DP-110	---	---	---	183	420	---	---	---	---	---	---	---	---	---	---

✿ R1另有防塵蓋低於夾爪面之產品，歡迎洽詢(可共用)
R1:DP-35為-7，其他為-0.5

技術規格 Specifications

型號	爪行程(直徑)mm Jaw stroke (Dia.)	最大夾持能力 mm Chuckling capacity	最大夾持力 KN (kgf) Max. Gripping Force	最高使用壓力 Max. Pressure Mpa (kg/cm ²)	重量 Kg Weight
DP-10	10	---	14.4(1470)	---	7.5
DP-20	---	150	16.2(1650)	---	9.5
DP-20B	20	120	16.2(1650)	---	8
DP-20C	---	120	16.2(1650)	---	10
DP-30A	---	---	---	---	11
DP-30	30	---	---	---	12
DP-35	35	180	17.7(1800)	3.5(35)	11
DP-40	40	---	---	---	12
DP-50B	---	---	---	---	18.5
DP-50	50	215	20.3(2070)	---	30
DP-70	70	235	26.9(2742)	---	38
DP-110	110	295	23.2(2357)	---	---



- ◆ 滑動面均經硬化及精密研磨，剛性與耐久性非常良好
- ◆ Matching surfaces of all parts hardened, ground and lubricated directly.
- ◆ 進給機構是以齒條與齒輪的傳動方式為之，進給速度穩定，進給速度與行程的調整亦非常容易
- ◆ Feed mechanism is transmitted by Rack and Piston, with steady feed speed.
- ◆ Simple adjustment for feed speed and stroke.
- ◆ 可伺服用進行車牙或車球型加工
- ◆ Can using to make ball shape eith pc control.
- ◆ 可選擇中心出水/出氣
- ◆ Can choose with air/coolant connection.
- ◆ 所有系列背隙皆可消除 (FS-408除外)
- ◆ All type can remove back space (except FS-408).

- 與行控型迴轉油壓缸搭配使用
- Suitable for using with RS type cylinder.

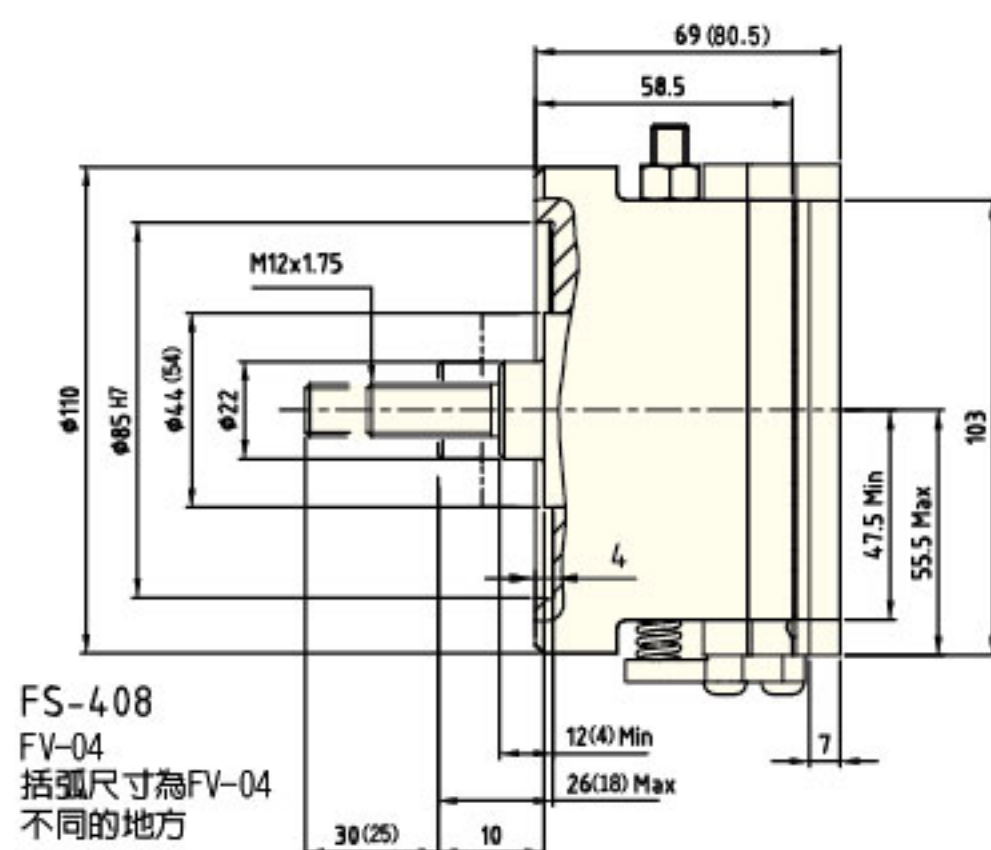
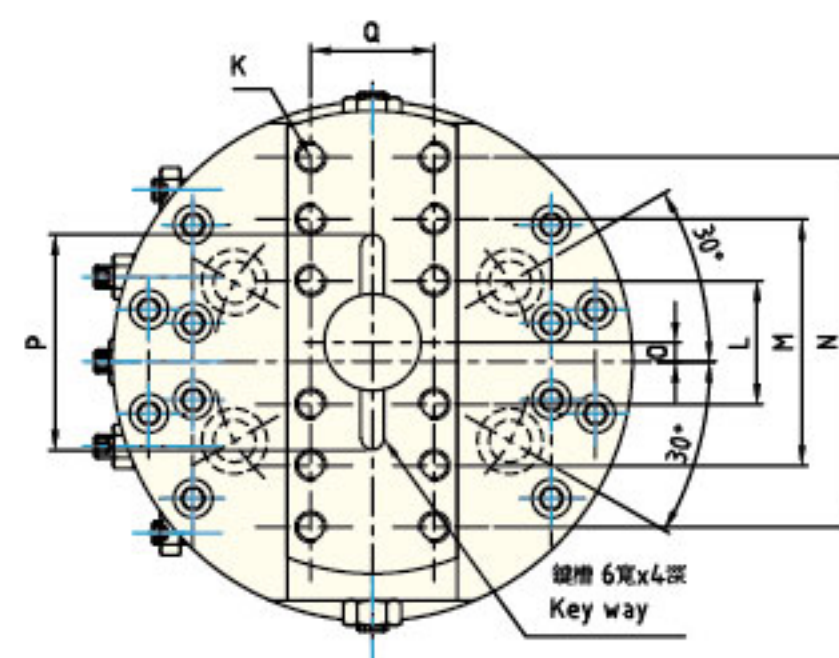
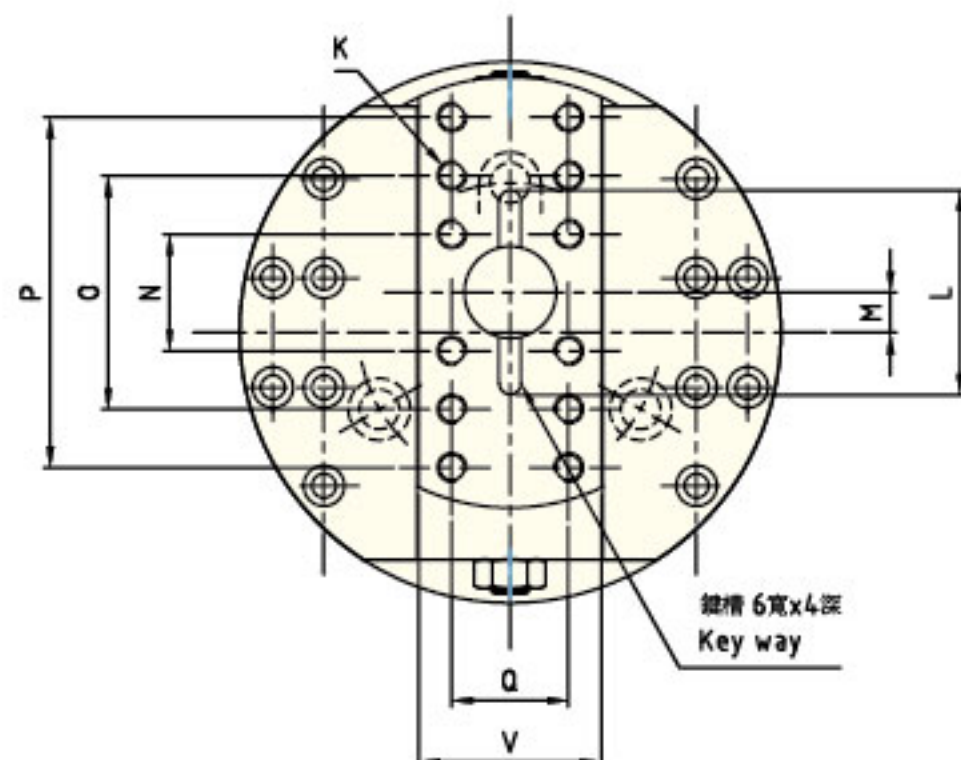
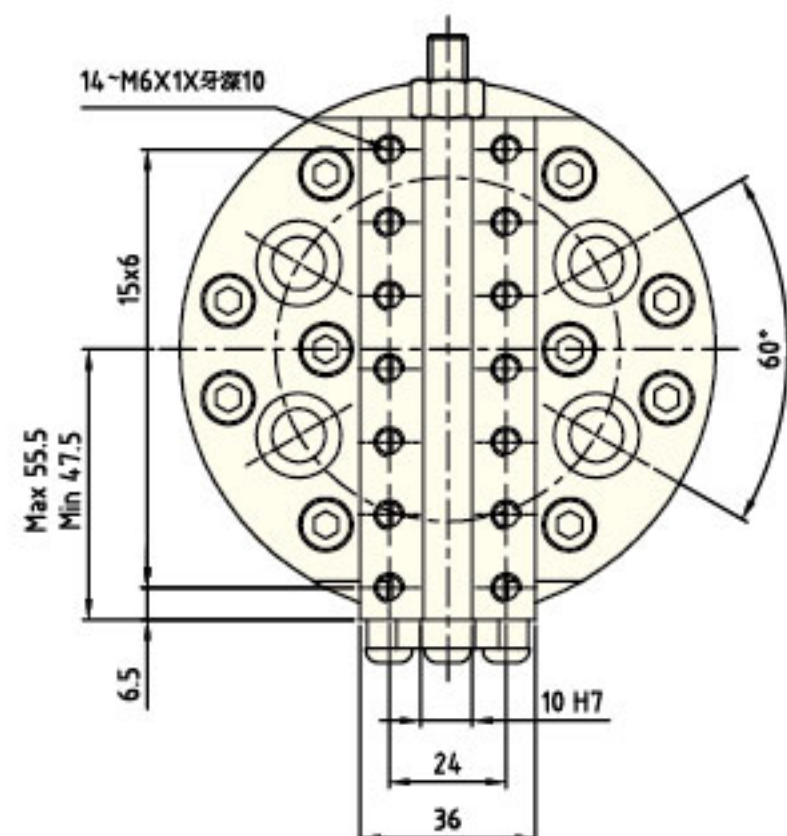


Fig1
FS-830
FS-615
FS-620
選配可中心出水或中心潤滑
φD為φ66
R為M18

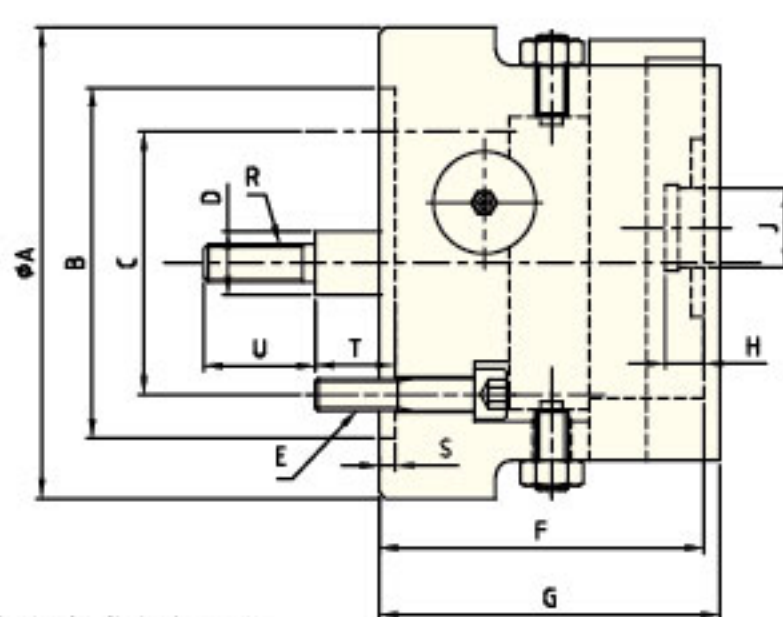
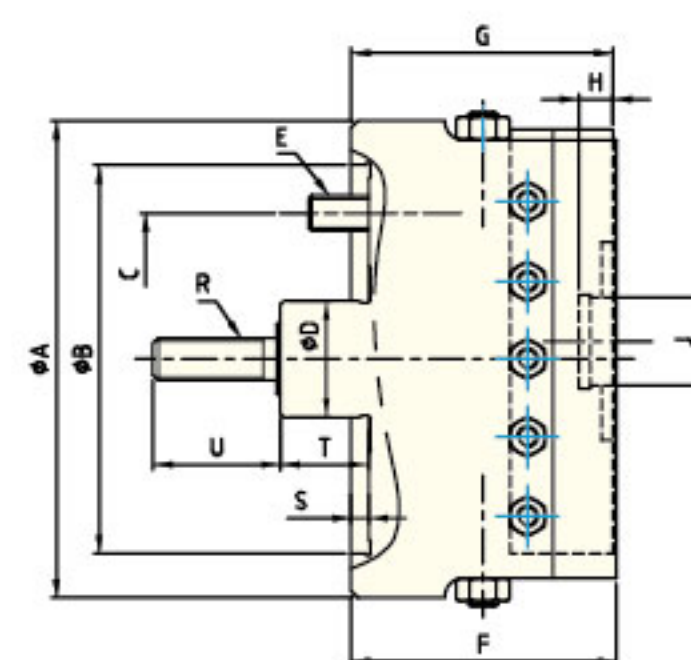


Fig2



外觀尺寸 Dimensions

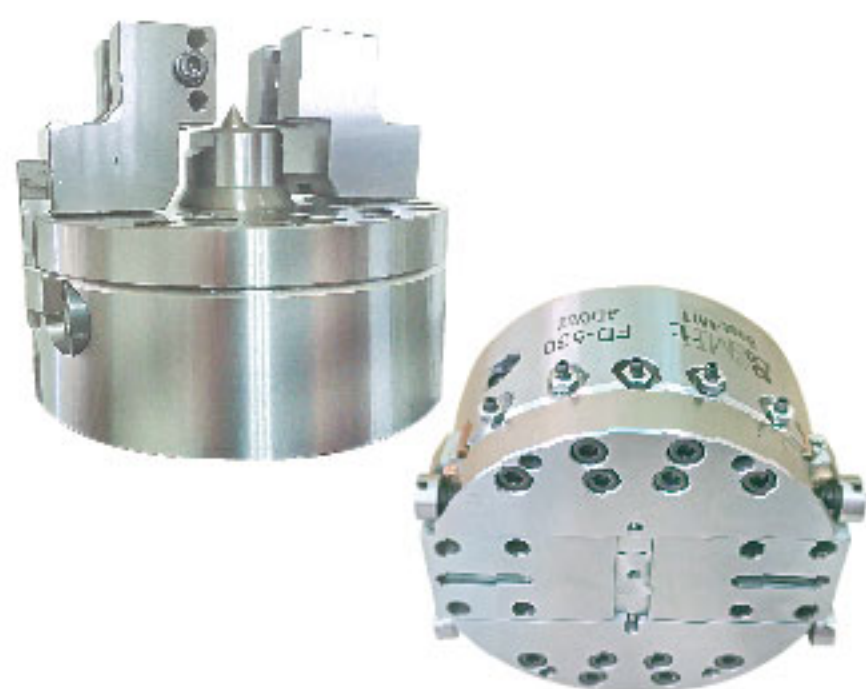
型號	外形尺寸				A	B H7	C p.c.d	D	E	F	G	H	J H7	K	L	M	N	O	P	Q	R	S	T		U	V	Fig
	Max	Min																									
FS-615	148	110	82.6	20	3~M10x1.5	102	107	12	25	12~M8	56	±7.5	32	64	96	32	M12x1.75	5	40	25	35	50	1				
FS-620												±10							42.5	22.5							
FS-630												±15							45	15							
FS-830	198	140	120	25	6~M16x2	121	126	15	30	12~M10	66	±15	40	80	120	36	M16x2	6	52	22	45	60	2				
FN-510	135	110	82.6	33	4~M10x1.5	75	74	12	25	12~M8	32	64	96	±5	56	32	M12x1.75	5	54	36	25	--					
FN-610	156	140	104.8	--		110	107		20	12~M10	40	80	112		--	28			66	48	--						

技術規格 Specifications

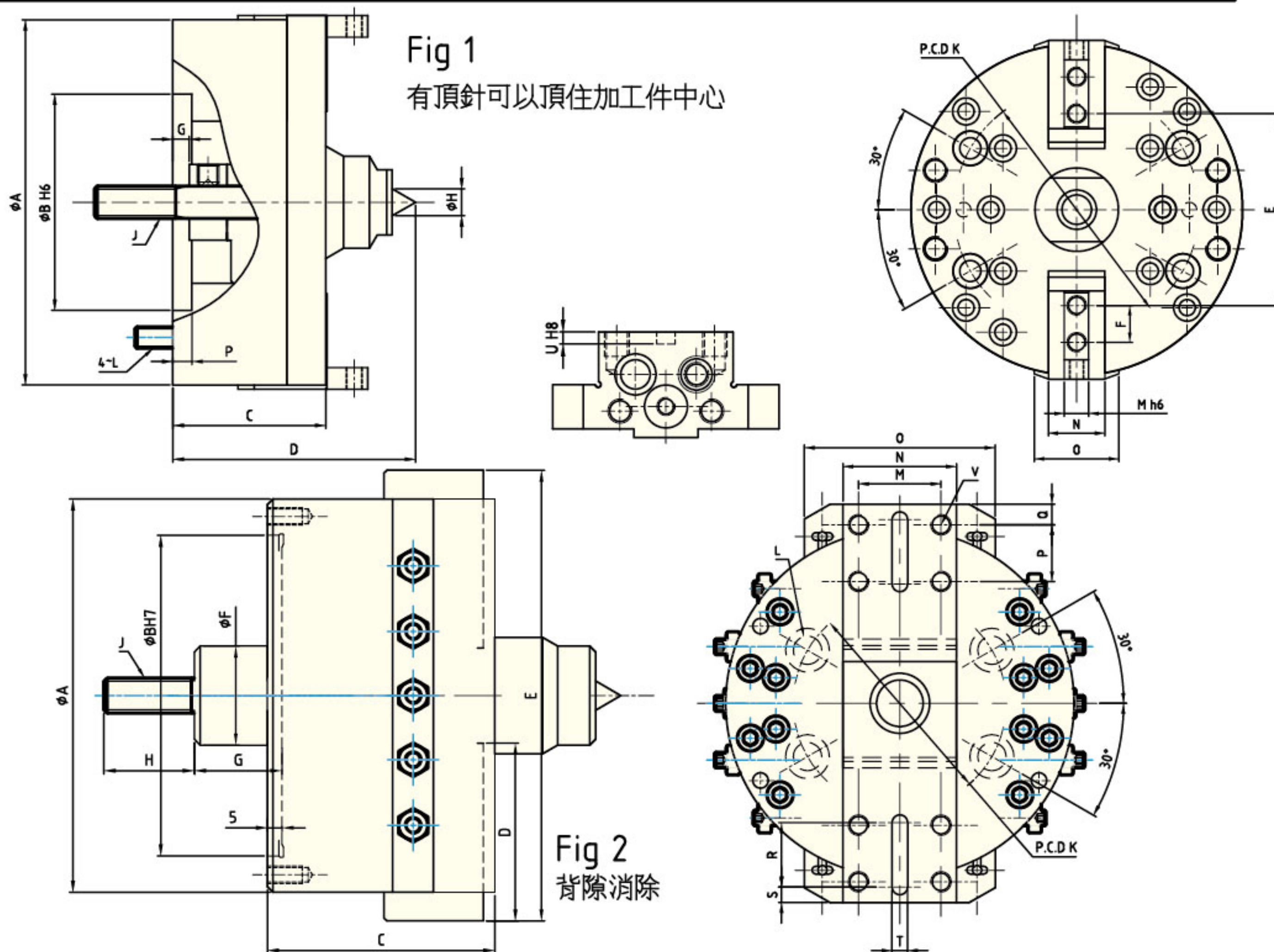
型號	外形尺寸	楔心行程 mm Plunger stroke (Did)	刀座行程 mm Tool Holder stroke	最高轉速 rpm Max speed	進給速度 mm/min Max feed speed	重量 Kg Weight	配合油壓缸 Matching cylinder	最高使用壓力 Max pressure (kg/cm ²)
FV-04		14	8	1600	400	4.2	CS-6520N	1.0(10)
FS-408								
FS-615		15	15			11.8		
FS-620		20	20	1200	300	12.3	CS-6530N	1.2(12)
FS-630		30	30			12		
FS-830				800	240	23.9		1.8(18)
FN-510		18	10	1800	300	6.9	CS-6520N	1.2(12)
FN-610				1700		13.8		

雙刀型展刀頭

2T/FD



- ◆ 滑動面均經硬化及精密研磨，剛性與耐久性非常良好
- ◆ Matching surfaces of all parts hardened, ground and lubricated.
- ◆ 進給機構是以曲柄傳動方式為之，進給速度穩定，進給速度與行程的調整亦非常容易
- ◆ Feed mechanism is transmitted by Crank type, with steady feed speed. Simple adjustment for feed speed and stroke.
- ◆ 可搭配頂針使用
- ◆ Suitable for using with a thimble.
- 與行控型迴轉油壓缸搭配使用
- Suitable for using with RS type cylinder.



外觀尺寸 Dimensions

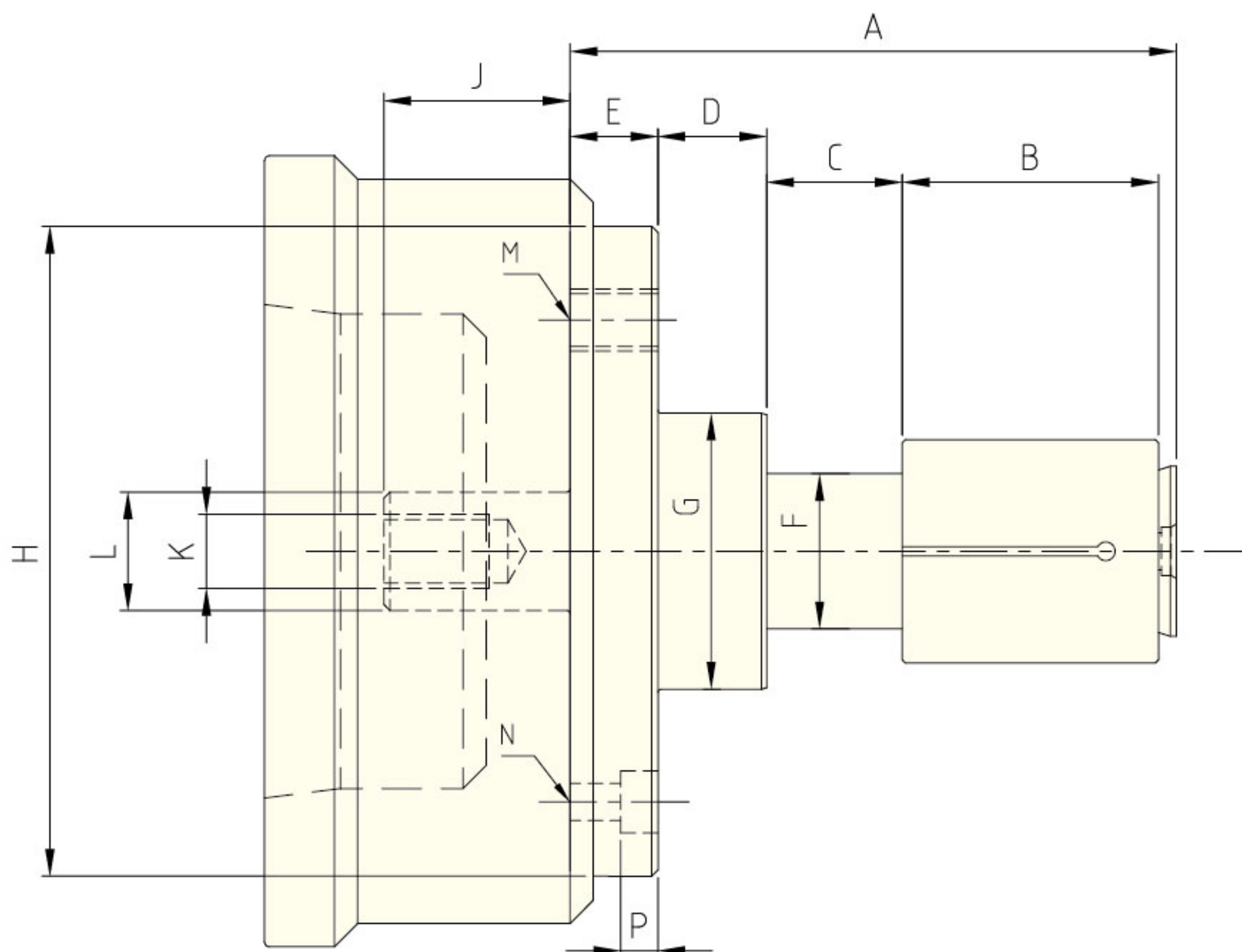
外形尺寸 型號	A	B	C	D	E		F	G		H	J	K	L	M	N	O	P	Q	R	S	T	U	V	Fig	
					max.	min.		max.	min.																
2T-05	135	80	56.5	89.7	78	67	15	6	-9	10	M12x1.75	100	4~M8x60	10	23	34	7	---	---	---	---	---	---	-----	1
FD-532			72	61	156.6	124.8	34	30	3	31			4~M8x45	32	44	74	22	23	36	6.7	6	4	8~M8x8	2	
FD-632	168	140	93	76	188	156	32	31	11	M16x2	104.8	6~M10x75	25	40	70	32	10	32	10	8~M8x15					
FD-840	215	170	109	96.5	238	198	38	32.5	7.5	36	M20x2.5	133.4	6~M12x85	42	60	90	45	12	45	12	10	6	8~M10x15		
FD-1060	254	220	123	110.5	286	226			-2.5			171.4	6~M16x125	46	65		50	15	50						

技術規格 Specifications

外形尺寸 型號	楔心行程 mm Plunger stroke (Did)	刀座行程 mm Tool Holder stroke	最高轉速 rpm Max speed	進給速度 mm/min Max feed speed	重量 Kg Weight	配合油壓缸 Matching cylinder	最高使用壓力 Max pressure Mpa (kg/cm ²)
2T-05	15	11	3200	300	5.2	CS-6520N	1.2(12)
FD-532	27	32	3200	300	7.2	CS-6530N	1.2(12)
FD-632	20	32	3200	300	13.6	CS-1030N	2.4(24)
FD-840	25	40	2500	240	30		3.0(30)
FD-1060	35	60	1800	200	41.5	CS-1040N	3.0(30)



- ◆ 用於精加工、高精度、高速迴轉，可中心吹氣，中心吹水
- ◆ Usable finish machining, high precision, high revolutions, with Air/coolant connection.
- ◆ 法蘭座可選擇搭配A4.A5.A6.A8...
- ◆ Can choose A4.A5.A6.A8....for flange.



外觀尺寸 Dimensions

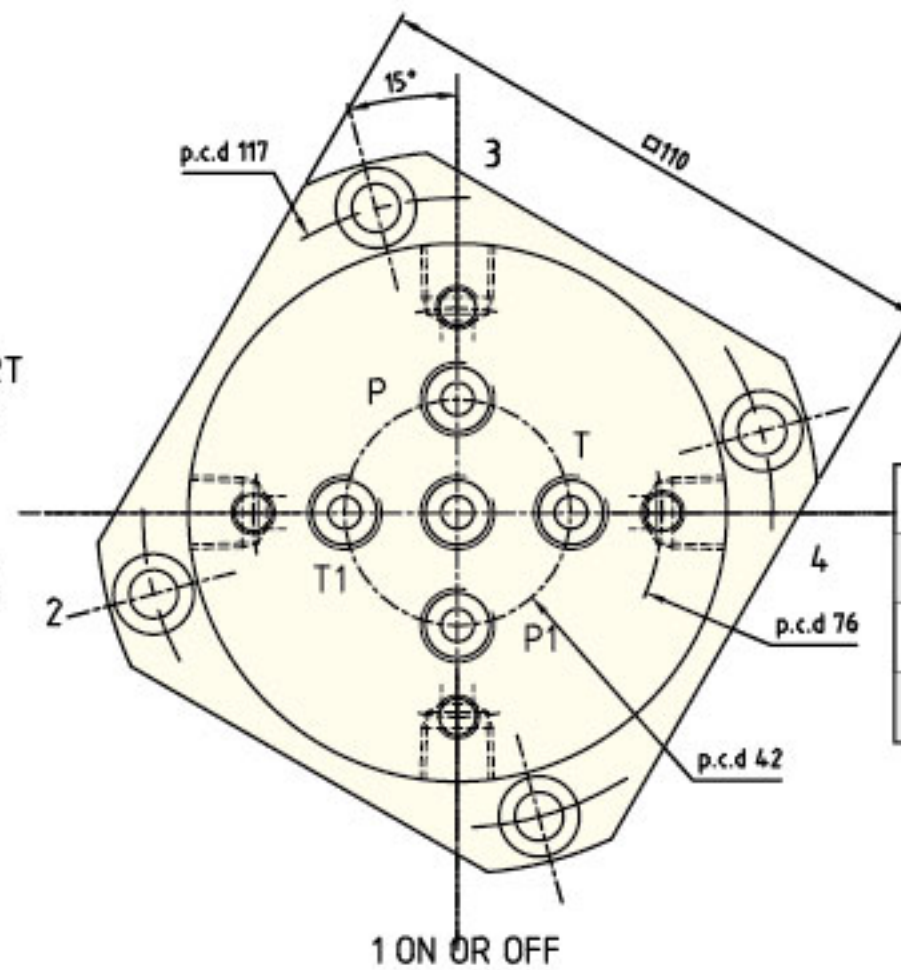
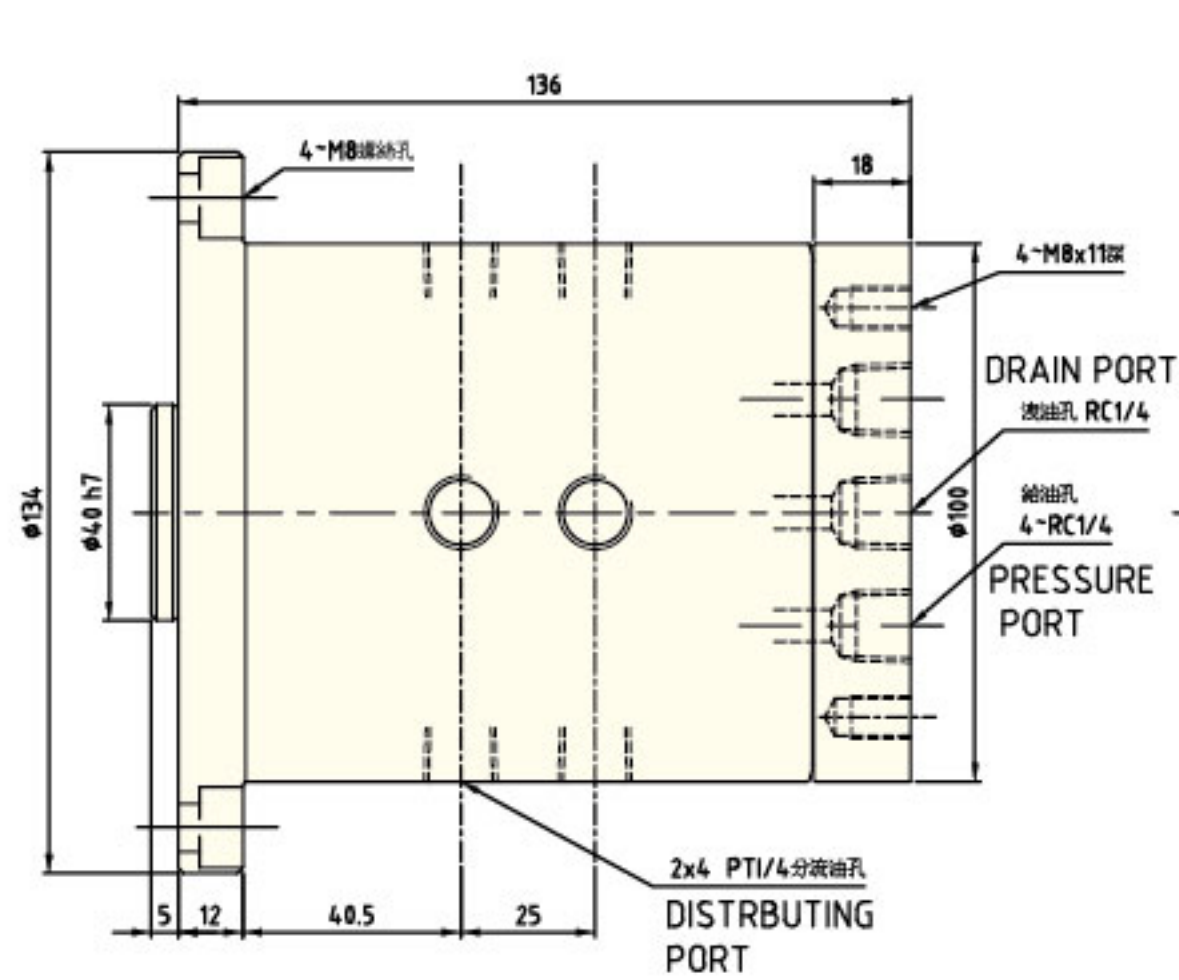
型號	外形尺寸	夾持範圍(mm)	A	B	C	D	E	F	G	H	J	
											max.	min.
AC-XY31		22-31	90	36	14	22	14	21	44.5	104.8	35	30
AC-XY41		28-41	98	41	17	22	14	27	44.5	104.8	35	30
AC-XY53		37-53	105	46	20	18	17	35	63	123.8	45	39

型號	外形尺寸	K	L	M	N	P
AC-XY31		M12-P1.75	19	4~M12-P1.75	M12用	8
AC-XY41		M12-P1.75	19	4~M12-P1.75	M12用	8
AC-XY53		M18-P2.5	24	4~M12-P1.75	M12用	9.5

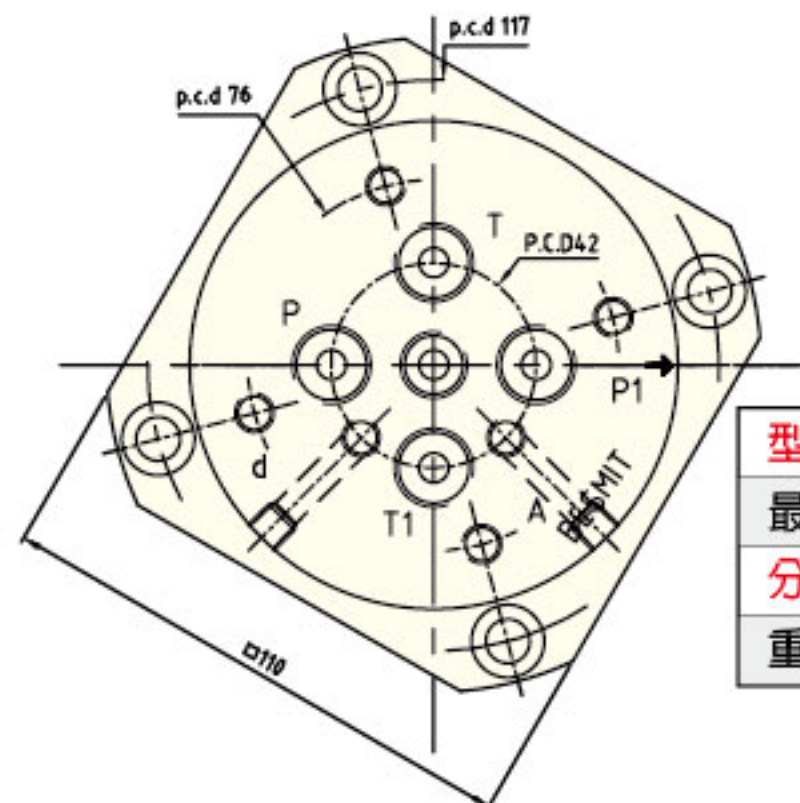
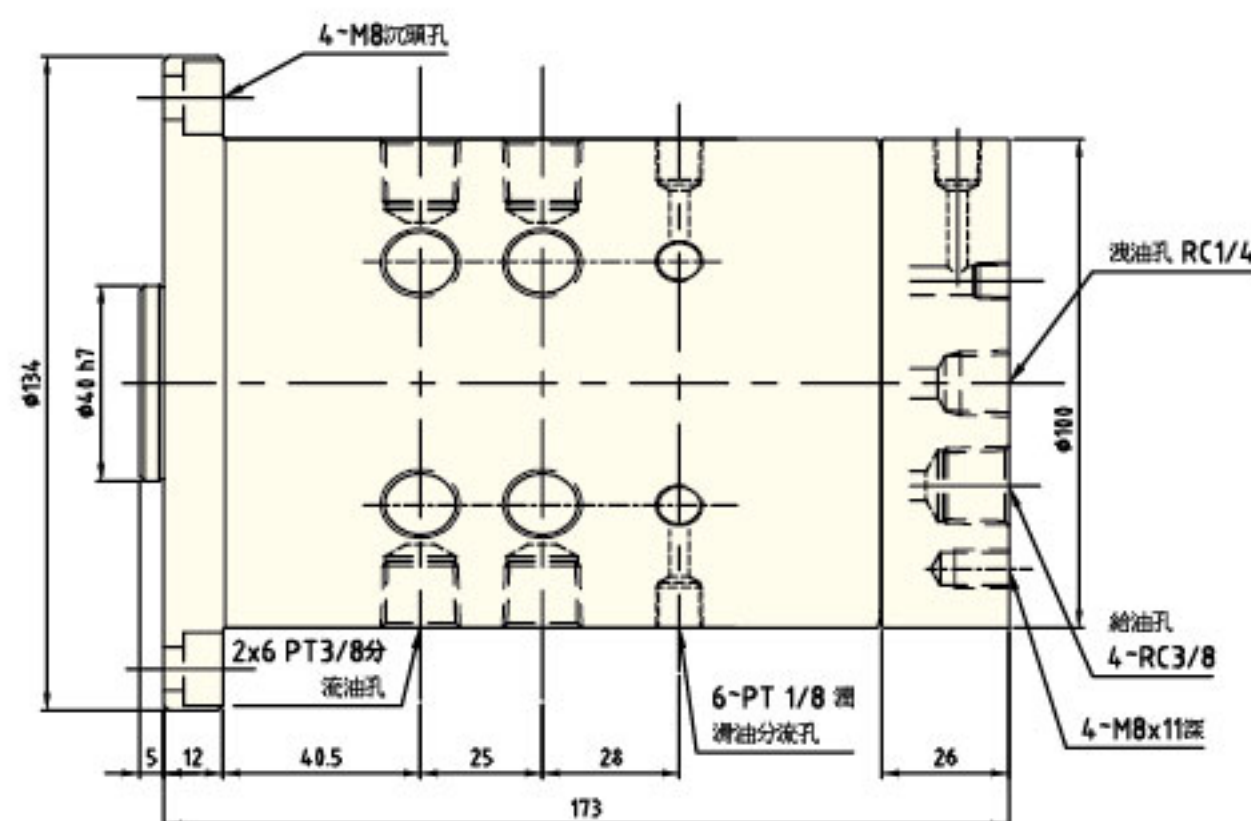
※ 型號欄中的X代表配合幾英吋的主軸，Y代表主軸法蘭型號，如：AC-08A641即表示是配合8英吋主軸，主軸法蘭為A6
 ※ X is which inch of shaft, Y is what type of shaft flange. ex: AC-08A641, 8" shaft and A6 flange.
 ※ 本公司可生產客製化產品，保留規格修改權利
 ※ The company produces ODM chuck, can change dimensions



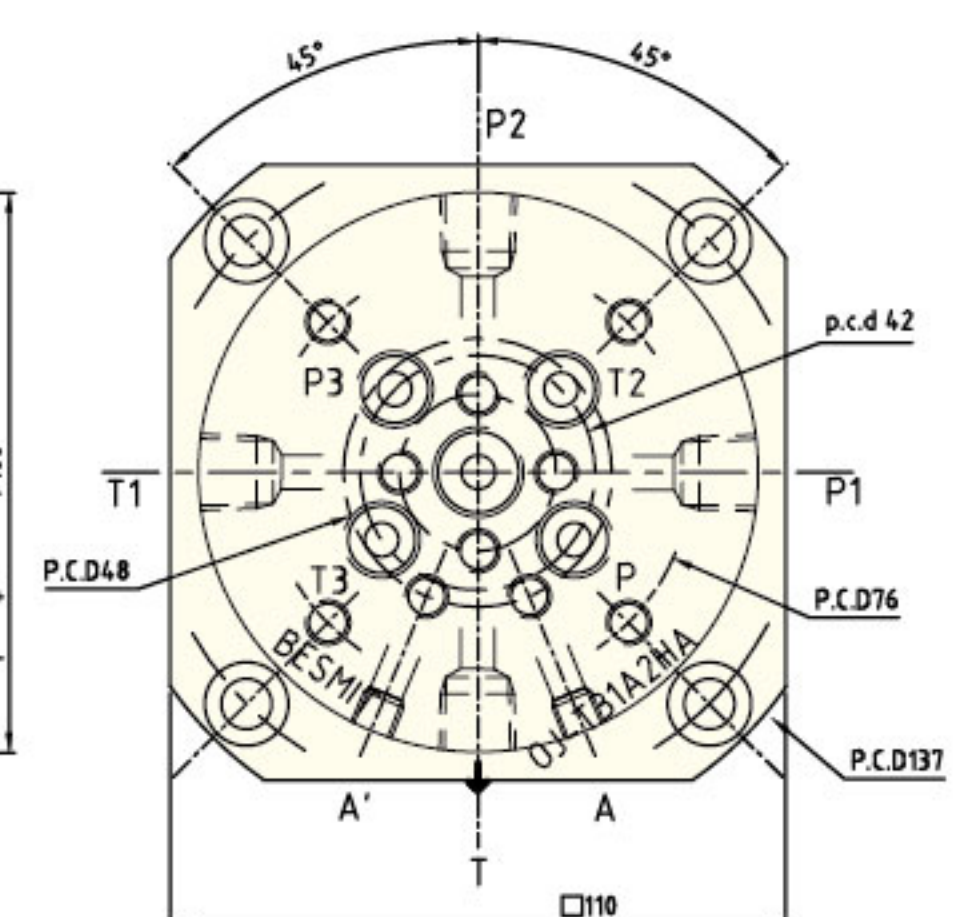
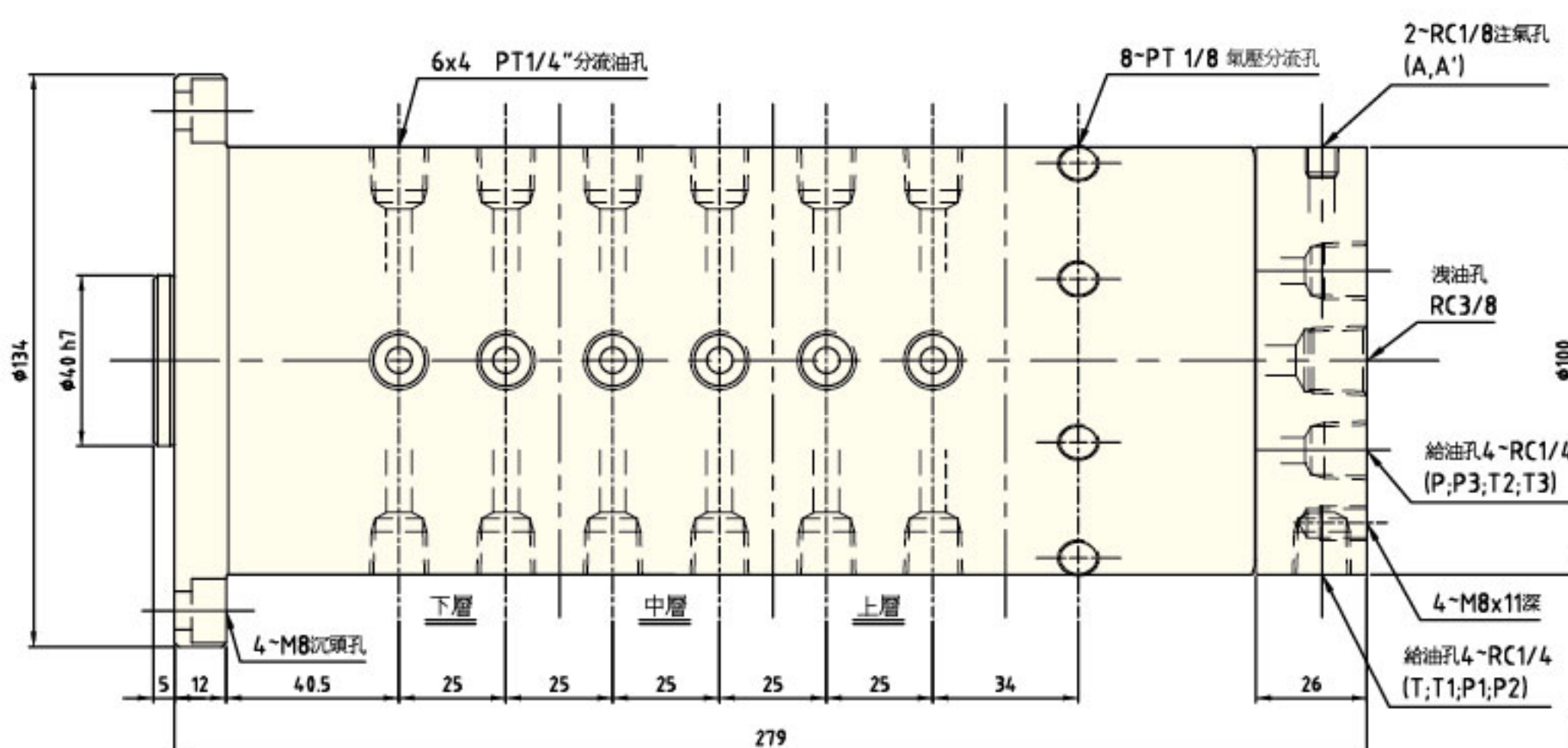
- ◆ 迴轉工作台上夾治具空油壓缸用迴轉分流閥
- ◆ Rotary valve is used for clamping cylinder on rotary table.
- ◆ 迴轉閥內部經特殊設計，使得迴轉軸可輕力轉動，且不虞漏油
- ◆ Through unique design, it can make the rotary housing be rotated light force, and is free from oil leaking.
- OJ型式的洩油孔配管務必單獨接回油槽，以避免產生背壓
- The drain port of OJ type should be independently connected to oil tank to avoid back pressure.



型 號 Model	OJ-31H
最高使用壓力 Max. pressure	40KG/cm ²
分流數可訂製 Distributing	4(by order)
重 量 Weight	8 Kgs



型 號 Model	OJ-51HA
最高使用壓力 Max. pressure	40KG/cm ²
分流數可訂製 Distributing	6(by order)
重 量 Weight	11 Kgs



型 號 Model	OJ-T31A2HA
最高使用壓力 Max. pressure	40KG/cm ²
分流數可訂製 Distributing	4(by order)
重 量 Weight	16 Kgs

附潤滑油孔 OR 切削液給油孔
可製作無迴油 及 氣壓分流閥
可製作多層迴路