

Air Jig Cylinder

Bore: $\phi 12$ - $\phi 100$ mm Pmax:10kg/cm²

AJC series

產品簡介:

- 空壓治具缸俗稱超薄缸,缸體本身輕巧特別適用在安裝受限制の場合。
- 標準化規格,各項零件經CNC車床加工,尺寸統一,互換性強。
- 缸體材質採用鋁合金,內壁表面光滑,耐磨性強,使用壽命長。
- 本系列各種型號均可安裝磁性感應開關。

Product Introduction

- The air jig cylinder is also named as extra compact cylinder. The cylinder barrel is light in weight, making it ideal for application in a restricted space.
- Standardized parts specifications. All parts are precision machined by CNC lathe to ensure maximum consistency of size and outstanding interchangeability.
- The cylinder barrel is manufactured from aluminum alloy, featuring smooth internal surface, maximum wear resistance and long service life.
- All models in this series are available to equip with magnetic proximity switch.



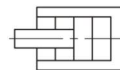
特性資料: Specifications

氣缸內徑	Bore of cylinder	mm	ø 12	ø 16	ø 20	ø 25	ø 32	ø 40	ø 50	ø 63	ø 80	ø 100
操作壓力範圍	Operation pressure range	kg/cm ²	2~7		1.5~7			1~7				
使用溫度範圍	Operation speed range		-10~+60℃									
標準行程	Standard storke		請參考行程規格表 Please refer to the Stroke specification									
使用流體	Fluid		已濾清之壓縮空氣 Filtered air									
氣缸本體材質	Material of cylinder barrel		鋁合金 Aluminum alloy									

理論出力表: Clamping Force

F1:推出 Push out

F2:拉入 Pull in



unit:kg

汽缸內徑 Bore of cylinder	mm	$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$	$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
活塞桿徑 Piston-rod	mm	$\phi 6$	$\phi 6$	$\phi 8$	$\phi 10$	$\phi 12$	$\phi 16$	$\phi 20$	$\phi 20$	$\phi 25$	$\phi 25$
受壓面積 Pressure area	cm ²	F1	1.13	2.01	3.14	4.91	8.04	12.57	19.63	31.17	78.54
		F2	0.85	1.73	2.64	4.12	6.91	10.56	16.49	28.03	73.63
操作壓力 Operation Pressure(kg/cm ²)	1	F1	1.13	2.01	3.14	4.91	8.04	12.57	19.63	31.17	78.54
		F2	0.85	1.73	2.64	4.12	6.91	10.56	16.49	28.03	73.63
	2	F1	2.26	4.02	6.28	9.82	16.08	25.14	39.26	62.34	157.08
		F2	1.7	3.46	5.28	8.24	13.82	21.12	32.98	56.06	147.26
	3	F1	3.39	6.03	9.42	14.73	24.12	37.71	58.89	93.51	235.62
		F2	2.55	5.19	7.92	12.36	20.73	31.68	49.47	84.09	220.89
	4	F1	4.52	8.04	12.56	19.64	32.16	50.28	78.52	124.68	314.16
		F2	3.4	6.92	10.56	16.48	27.64	42.24	65.96	112.12	294.52
	5	F1	5.65	10.05	15.7	24.55	40.2	62.85	98.15	155.85	392.7
		F2	4.25	8.65	13.2	20.6	34.55	52.8	82.45	140.15	368.15
	6	F1	6.78	12.06	18.84	29.46	48.24	75.42	117.78	187.02	471.24
		F2	5.1	10.38	15.84	24.72	41.46	63.36	98.94	168.18	441.78
	7	F1	7.91	14.07	21.98	34.37	56.28	87.99	137.41	218.19	549.78
		F2	5.95	12.11	18.48	28.84	48.37	73.92	115.43	196.21	515.41
	8	F1	9.04	16.08	25.12	39.28	64.32	100.56	157.04	249.36	628.32
		F2	6.8	13.84	21.12	32.96	55.28	84.48	131.92	224.24	589.04
	9	F1	10.17	18.09	28.26	44.19	72.36	113.13	176.67	280.53	706.86
		F2	7.65	15.57	23.76	37.08	62.19	95.04	148.41	252.27	662.67
	10	F1	11.3	20.1	31.4	49.1	80.4	125.7	196.3	311.7	785.4
		F2	8.5	17.3	26.4	41.2	69.1	105.6	164.9	280.3	736.3

行程規格表: Storke Specification

型式 Model	內徑 Bore	標準行程 Standard stroke															標準行程(附磁石) Standard storke(with magnet)																	
		5	10	15	20	25	30	35	40	45	50	55	60	75	85	100	125	150	5	10	15	20	25	30	35	40	45	50	55	65	75	90	115	140
AJC-SD 單軸 Single end rod	ø12	●	●	●	●	●	●	○	●	○	●								●	●	●	●	○	●	○	●	●							
	ø16	●	●	●	●	●	●	○	●	○	●								●	●	●	●	○	●	○	●	●							
	ø20	○	●	○	●	○	●	○	●	○	●	○	●	●	●	●			○	●	○	●	○	●	○	●	○	●	○	○	●	●		
	ø25	○	●	○	●	○	●	○	●	○	●	○	●	●	●	●	●			○	●	○	●	○	●	○	●	○	●	○	○	●	●	
	ø32	○	●	○	●	○	●	○	●	○	●	○	●	●	●	●	●			○	●	○	●	○	●	○	●	○	●	○	○	●	●	
	ø40	○	●	○	●	○	●	○	●	○	●	○	●	●	●	●	●	●		○	●	○	●	○	●	○	●	○	●	○	○	●	●	●
	ø50	○	●	○	●	○	●	○	●	○	●	○	●	●	●	●	●	●		○	●	○	●	○	●	○	●	○	●	○	○	●	●	●
	ø63	○	●	○	●	○	●	○	●	○	●	○	●	●	●	●	●	●		○	●	○	●	○	●	○	●	○	●	○	○	●	●	●
	ø80	○	●	○	●	○	●	○	●	○	●	○	●	●	●	●	●	●		○	●	○	●	○	●	○	●	○	●	○	○	●	●	●
	ø100	○	●	○	●	○	●	○	●	○	●	○	●	●	●	●	●	●		○	●	○	●	○	●	○	●	○	●	○	○	●	●	●
AJC-SW 雙軸 Double end rod	ø20	○	●	○	●	○	●	○	●	○	●								○	●	○	●	○	●	○	●	○	●						
	ø25	○	●	○	●	○	●	○	●	○	●								○	●	○	●	○	●	○	●	○	●						
	ø32	○	●	○	●	○	●	○	●	○	●								○	●	○	●	○	●	○	●	○	●						
	ø40	○	●	○	●	○	●	○	●	○	●								○	●	○	●	○	●	○	●	○	●						
	ø50	○	●	○	●	○	●	○	●	○	●								○	●	○	●	○	●	○	●	○	●						
	ø63	○	●	○	●	○	●	○	●	○	●								○	●	○	●	○	●	○	●	○	●						
	ø80	○	●	○	●	○	●	○	●	○	●								○	●	○	●	○	●	○	●	○	●						
	ø100	○	●	○	●	○	●	○	●	○	●								○	●	○	●	○	●	○	●	○	●						

註:記號○之汽缸本體長度需加長5mm

NOTE: Sizes marked with○ should add 5mm to cylinder body length.

訂購標示法: Order Code

AJC	—	SD	32	10	N	—	S1
↑		↑	↑	↑	↑		↑
1		2	3	4	5		6

1	系列別 Series	AJC	
2	安裝型式 Mounting type	SD	單軸標準型 Single end rod type
		SW	雙軸標準型 Double end rod type
		SDM	單軸附磁石 Single end rod with magnet
		SWM	雙軸附磁石 Double end rod with magnet
3	汽缸內徑 Bore of cylinder	$\phi 12$. $\phi 16$. $\phi 20$. $\phi 25$. $\phi 32$. $\phi 40$. $\phi 50$. $\phi 63$. $\phi 80$. $\phi 100$	
4	標準行程 Standard stroke	請參考行程規格表 Refer to the stroke specifications	
5	軸端型式 Rod end type	N 內牙 Internal thread N W 外牙 External thread W	
6	近接開關 Sensor switch	S1:1個 S2:2個 1Pc of S1,2Pcs of S2 電壓 Volt: DC4-24V 電流 Current: 5-40mA	

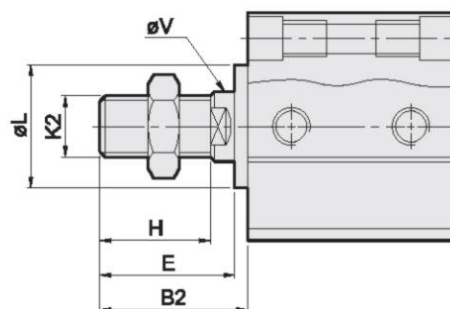
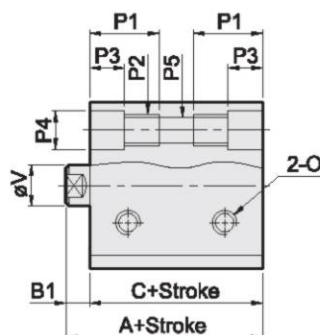
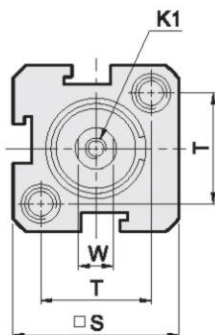


Air Jig Clyinder SD

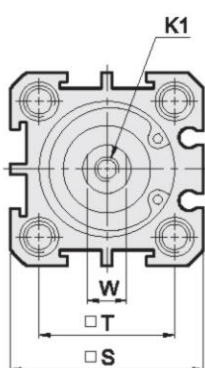
SD series

Bore: $\phi 12$ - $\phi 100$ mm Pmax:10ka/cm²

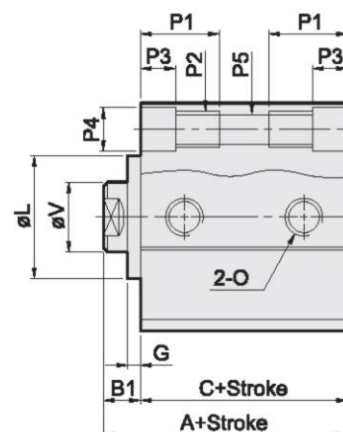
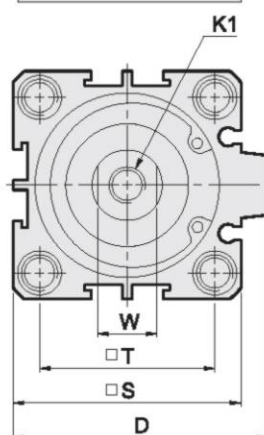
Bore $\phi 12$. $\phi 16$



Bore $\phi 20$. $\phi 25$



Bore $\phi 32$ - $\phi 100$



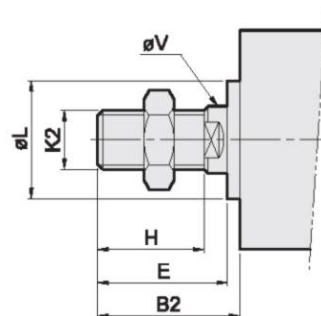
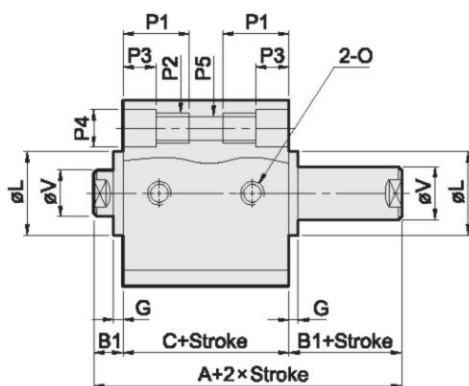
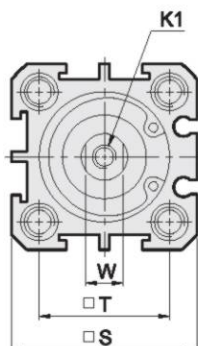
Dimensional Table

unit 單位: mm

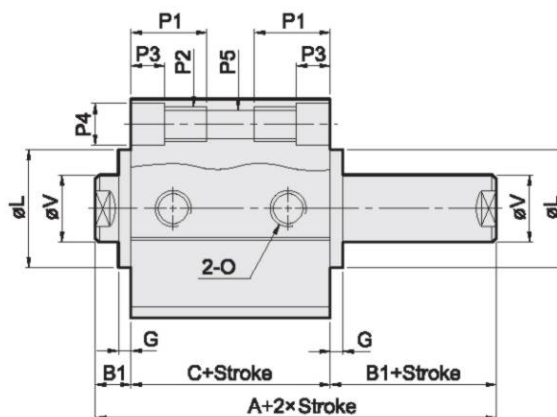
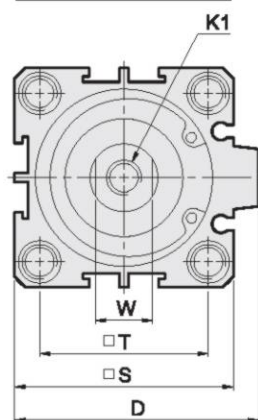
Bore	AJC-SD		AJC-SDM		B1	B2	D	E	G	H	K1內牙 Int. Thread K1
	A	C	A	C							
$\phi 12$	25	20.5	35	30.5	4.5	14.5	—	14.5	—	10	M3×0.5×7D.
$\phi 16$	26	21.5	36	31.5	4.5	14.5	—	14.5	—	10	M3×0.5×7D.
$\phi 20$	25	19.5	35	29.5	5.5	19.5	—	18	1.5	14	M4×0.7×10D.
$\phi 25$	27	21	37	31	6	22	—	20	2	16	M5×0.8×10D.
$\phi 32$	31.3	24	41.3	34	7.3	24.3	50	21	3.3	17	M6×1.0×14D.
$\phi 40$	33.8	26.5	43.8	36.5	7.3	34.3	58	31	3.3	27	M8×1.25×14D.
$\phi 50$	37.6	28.6	47.6	38.6	9	36	71	32	4	27	M10×1.5×15D.
$\phi 63$	41.5	32.5	51.5	42.5	9	36	84.5	32	4	27	M10×1.5×15D.
$\phi 80$	52.3	41.3	62.3	51.3	11	44	104	39	5	33	M14×1.5×20D.
$\phi 100$	53.8	45.3	63.8	55.3	8.5	41.5	124	38.5	3	33	M16×2.0×20D.

Bore	K2外牙 Ext. Thread K2	L	O	P1	P2	P3	P4	P5	S	T	V	W
$\phi 12$	M5×0.8	—	M5×0.8	10.5	M5×0.8	4.5	$\phi 6.5$	$\phi 4.3$	25	15.7	6	5
$\phi 16$	M5×0.8	—	M5×0.8	10.5	M5×0.8	4.5	$\phi 6.5$	$\phi 4.3$	29	19.8	6	5
$\phi 20$	M6×1.0	13	M5×0.8	11	M5×0.8	5	$\phi 6.5$	$\phi 4.3$	34	24	8	6
$\phi 25$	M8×1.25	17	M5×0.8	14	M6×1.0	6	$\phi 8$	$\phi 5.1$	40	28	10	8
$\phi 32$	M10×1.25	22	PT1/8	14	M6×1.0	6	$\phi 8$	$\phi 5.1$	44	34	12	10
$\phi 40$	M14×1.5	28	PT1/8	18	M8×1.25	8	$\phi 9.5$	$\phi 6.8$	52	40	16	14
$\phi 50$	M18×1.5	38	PT1/4	18.5	M8×1.25	8.5	$\phi 11$	$\phi 6.8$	62	48	20	17
$\phi 63$	M18×1.5	40	PT1/4	18.5	M8×1.25	8.5	$\phi 11$	$\phi 6.8$	75	60	20	17
$\phi 80$	M22×1.5	45	PT3/8	22.5	M12×1.75	10.5	$\phi 14$	$\phi 10.5$	94	74	25	22
$\phi 100$	M22×1.5	45	PT3/8	28	M14×2.0	13	$\phi 18.5$	$\phi 12.3$	114	90	25	22

Bore $\phi 20$ - $\phi 25$



Bore $\phi 32$ - $\phi 100$



Dimensional Table

unit 單位: mm

Bore	AJC-SW		AJC-SWM		B1	B2	D	E	G	H	K1內牙 Int. Thread K1
	A	C	A	C							
$\phi 20$	30.5	19.5	40.5	29.5	5.5	19.5	—	18	1.5	14	M4 $\times$ 0.7 $\times$ 10D.
$\phi 25$	33	21	43	31	6	22	—	20	2	16	M5 $\times$ 0.8 $\times$ 10D.
$\phi 32$	38.6	24	48.6	34	7.3	24.3	50	21	3.3	17	M6 $\times$ 1.0 $\times$ 14D.
$\phi 40$	41.1	26.5	51.1	36.5	7.3	34.3	58	31	3.3	27	M8 $\times$ 1.25 $\times$ 14D.
$\phi 50$	46.6	28.6	56.6	38.6	9	36	71	32	4	27	M10 $\times$ 1.5 $\times$ 15D.
$\phi 63$	50.5	32.5	60.5	42.5	9	36	84.5	32	4	27	M10 $\times$ 1.5 $\times$ 15D.
$\phi 80$	63.3	41.3	73.3	51.3	11	44	104	39	5	33	M14 $\times$ 1.5 $\times$ 20D.
$\phi 100$	62.3	45.3	72.3	55.3	8.5	41.5	124	38.5	3	33	M16 $\times$ 2.0 $\times$ 20D.

Bore	K2外牙 Eit. Thread K2	L	O	P1	P2	P3	P4	P5	S	T	V	W
$\phi 20$	M6 $\times$ 1.0	13	M5 $\times$ 0.8	11	M5 $\times$ 0.8	5	$\phi 6.5$	$\phi 4.3$	34	24	8	6
$\phi 25$	M8 $\times$ 1.25	17	M5 $\times$ 0.8	14	M6 $\times$ 1.0	6	$\phi 8$	$\phi 5.1$	40	28	10	8
$\phi 32$	M10 $\times$ 1.25	22	PT1/8	14	M6 $\times$ 1.0	6	$\phi 8$	$\phi 5.1$	44	34	12	10
$\phi 40$	M14 $\times$ 1.5	28	PT1/8	18	M8 $\times$ 1.25	8	$\phi 9.5$	$\phi 6.8$	52	40	16	14
$\phi 50$	M18 $\times$ 1.5	38	PT1/4	18.5	M8 $\times$ 1.25	8.5	$\phi 11$	$\phi 6.8$	62	48	20	17
$\phi 63$	M18 $\times$ 1.5	40	PT1/4	18.5	M8 $\times$ 1.25	8.5	$\phi 11$	$\phi 6.8$	75	60	20	17
$\phi 80$	M22 $\times$ 1.5	45	PT3/8	22.5	M12 $\times$ 1.75	10.5	$\phi 14$	$\phi 10.5$	94	74	25	22
$\phi 100$	M22 $\times$ 1.5	45	PT3/8	28	M14 $\times$ 2.0	13	$\phi 18.5$	$\phi 12.3$	114	90	25	22