

AJC 空壓治具缸



Air Jig Cylinder

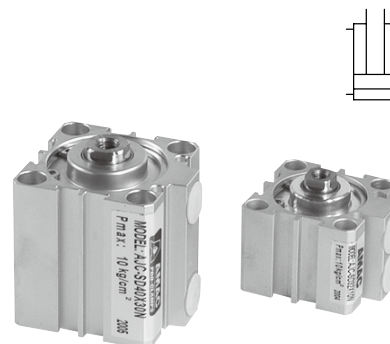
• Bore:ø12-ø100mm • Pmax:10kg/cm²

產品簡介

- 空壓治具缸俗稱超薄缸，缸體本身輕巧特別適用於安裝空間受限制的情況。
- 標準化規格，各項零件經CNC車床加工，尺寸統一，互換性佳。
- 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.



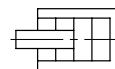
特性資料 Specifications

氣缸內徑	Bore of cylinder	mm	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
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°C									
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

氣缸內徑 Bore of cylinder	mm		ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
活塞桿徑 Piston-rod	mm		ø6	ø6	ø8	ø10	ø12	ø16	ø20	ø20	ø25	ø25
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	50.27	78.54
		F2	0.85	1.73	2.64	4.12	6.91	10.56	16.49	28.03	45.36	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	50.27	78.54
		F2	0.85	1.73	2.64	4.12	6.91	10.56	16.49	28.03	45.36	73.63
	2	F1	2.26	4.02	6.28	9.82	16.08	25.14	39.26	62.34	100.54	157.08
		F2	1.7	3.46	5.28	8.24	13.82	21.12	32.98	56.06	90.72	147.26
	3	F1	3.39	6.03	9.42	14.73	24.12	37.71	58.89	93.51	150.81	235.62
		F2	2.55	5.19	7.92	12.36	20.73	31.68	49.47	84.09	136.08	220.89
	4	F1	4.52	8.04	12.56	19.64	32.16	50.28	78.52	124.68	201.08	314.16
		F2	3.4	6.92	10.56	16.48	27.64	42.24	65.96	112.12	181.44	294.52
	5	F1	5.65	10.05	15.7	24.55	40.2	62.85	98.15	155.85	251.35	392.7
		F2	4.25	8.65	13.2	20.6	34.55	52.8	82.45	140.15	226.8	368.15
	6	F1	6.78	12.06	18.84	29.46	48.24	75.42	117.78	187.02	301.62	471.24
		F2	5.1	10.38	15.84	24.72	41.46	63.36	98.94	168.18	272.16	441.78
	7	F1	7.91	14.07	21.98	34.37	56.28	87.99	137.41	218.19	351.89	549.78
		F2	5.95	12.11	18.48	28.84	48.37	73.92	115.43	196.21	317.52	515.41
	8	F1	9.04	16.08	25.12	39.28	64.32	100.56	157.04	249.36	402.16	628.32
		F2	6.8	13.84	21.12	32.96	55.28	84.48	131.92	224.24	362.88	589.04
	9	F1	10.17	18.09	28.26	44.19	72.36	113.13	176.67	280.53	452.43	706.86
		F2	7.65	15.57	23.76	37.08	62.19	95.04	148.41	252.27	408.24	662.67
	10	F1	11.3	20.1	31.4	49.1	80.4	125.7	196.3	311.7	502.7	785.4
		F2	8.5	17.3	26.4	41.2	69.1	105.6	164.9	280.3	453.6	736.3

AJC 空壓治具缸



Air Jig Cylinder

• Bore:ø12-ø100mm • Pmax:10kg/cm²

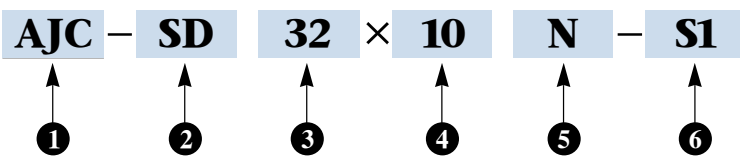
行程規格表 Stroke specification

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	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 ◎ 之氣缸本體長度須加長5mm

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

訂購標示法 Order Code



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	氣缸內徑 Bore of cylinder	ø12. ø16. ø20. ø25. ø32. ø40. ø50. ø63. ø80. ø100	
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 AC4-120V 電流 Current:5-40mA	

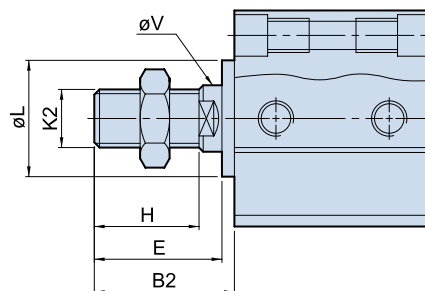
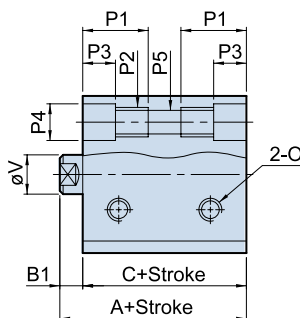
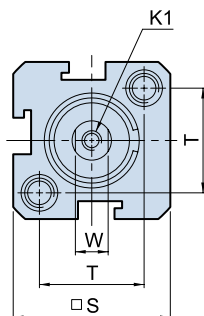
AJC 空壓治具缸 SD. SDM



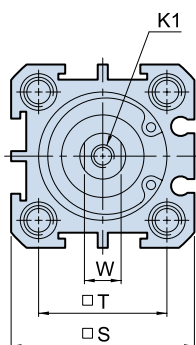
Air Jig Cylinder SD. SDM

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

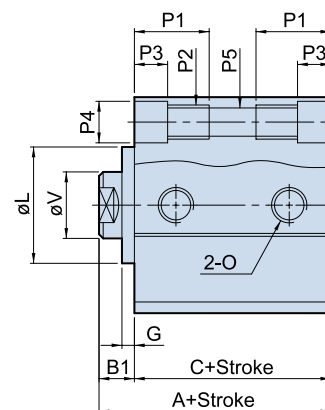
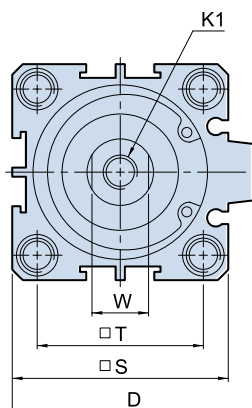
Bore $\phi 12$ - $\phi 16$



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



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



Dimensional table

UNIT:mm

Bore	AJC-SD		AJC-SDM		B1	B2	D	E	G	H	K1 内牙 Int. thread K1
	A	C	A	C							
$\phi 12$	25	20.5	35	30.5	4.5	14.5	—	14.5	—	10	M3x0.5x7D.
$\phi 16$	26	21.5	36	31.5	4.5	14.5	—	14.5	—	10	M3x0.5x7D.
$\phi 20$	25	19.5	35	29.5	5.5	19.5	—	18	1.5	14	M4x0.7x10D.
$\phi 25$	27	21	37	31	6	22	—	20	2	16	M5x0.8x10D.
$\phi 32$	31.3	24	41.3	34	7.3	24.3	50	21	3.3	17	M6x1.0x14D.
$\phi 40$	33.8	26.5	43.8	36.5	7.3	34.3	58	31	3.3	27	M8x1.25x14D.
$\phi 50$	37.6	28.6	47.6	38.6	9	36	71	32	4	27	M10x1.5x15D.
$\phi 63$	41.5	32.5	51.5	42.5	9	36	84.5	32	4	27	M10x1.5x15D.
$\phi 80$	52.3	41.3	62.3	51.3	11	44	104	39	5	33	M14x1.5x20D.
$\phi 100$	53.8	45.3	63.8	55.3	8.5	41.5	124	38.5	3	33	M16x2.0x20D.

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

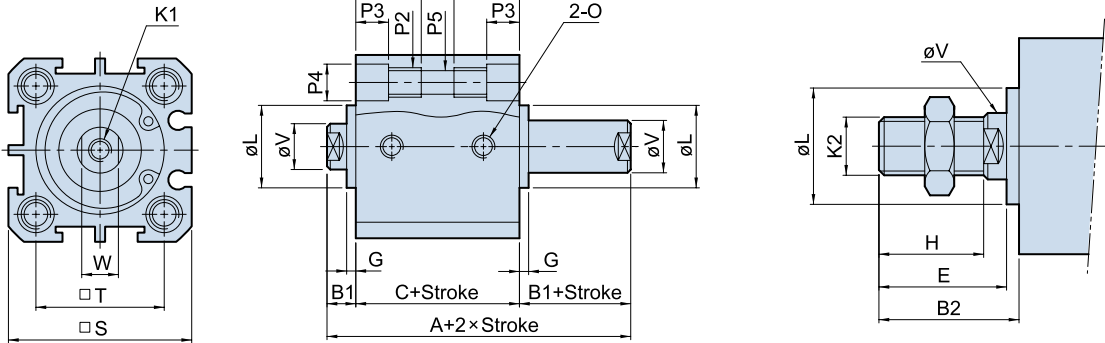
AJC 空壓治具缸 SW. SWM



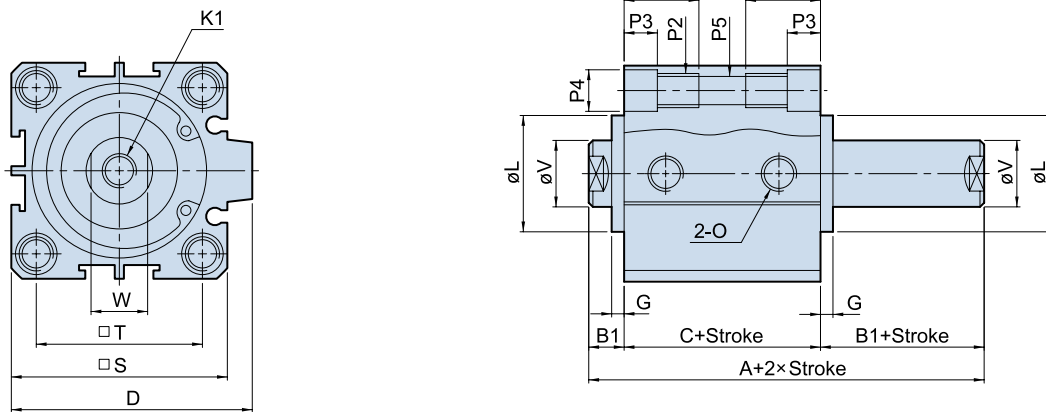
Air Jig Cylinder SW. SWM

• Bore: $\phi 20$ - $\phi 100$ mm • Pmax: 10kg/cm²

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



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



Dimensional table

UNIT:mm

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

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