

HSC空壓轉角缸

Hydraulic Swing Clamp Cylinder



特性:

- 本產品適用於量產零件之專用機及MC治具，提高生產效率最佳幫手。
- 主要功能為油壓缸作動時，活塞下壓行程中壓板會旋轉到設計的角度，再沿著直線繼續下壓直到壓板夾緊工件。
- 建議使用油壓轉角缸，請加裝流量控制閥，避免速度過快，以及轉角行程中，請勿夾持工件，避免損壞缸體及內部零件。
- 壓板需增加長度時，請勿大於原長之1.5倍。
- 缸體材質採用機械構造用炭素鋼，內壁特殊加工處理，表面光滑，使用壽命長。

Features:

- The product is ideal for mass production on a special purpose machine and jig on machining center. It will greatly upgrade production efficiency.
- When the hydraulic cylinder actuate, and the piston moves downward, the clamping arm will swing to a rated angle. Then it lowers until the workpiece is clamped securely.
- To avoid too fast motion a flow control valve is suggested to connect to the hydraulic swing clamp cylinder. Do not clamp workpiece while the clamp is swinging to avoid damaging on the cylinder barrel and internal parts.
- When increasing length of clamping arm is required, be sure do not exceed 1.5 times of the original length.
- The cylinder body is manufactured from structural carbon steel. Surface is specially treated for maximum smoothness on inside surface and long service life.

相關規格 / Specification

氣缸內徑	Bore of cylinder	ø25 mm	ø32 mm	ø40 mm	ø50 mm	ø63 mm
活塞桿徑	Piston rod diameter	ø18 mm	ø20 mm	ø22.4 mm	ø28 mm	ø35 mm
轉角行程	Swing stroke	9 mm	11 mm	11 mm	13 mm	13 mm
垂直行程 標準/加長	Clamping stroke std/extension	13 mm	15 / 30 mm	15 / 30 mm	17 / 34 mm	17 / 34 mm
受壓面積 拉入/推出	Pressure area pull/push	2.37 / 4.91 cm ²	4.9 / 8.04 cm ²	8.63 / 12.57 cm ²	13.47 / 19.63 cm ²	21.55 / 31.17 cm ²
理論夾持力	Theoretical clamping force 30kg/cm ²	71	147	259	404	647
使用液體	Fluid	已濾清之標準液壓油 / Filtered hydraulic oil				
最大操作壓力	Max operation pressure	100 Kg/cm ²				
操作壓力範圍	Operation pressure range	5-70 Kg/cm ²				
轉角方向	Rotating direction	順時針右轉R或逆時針左轉L / Turn right R or turn left L				
轉角角度	Rotating angle	標準角度 90 選擇角度 0°, 45°, 60° / Standard angle 90°, Optional angle 0°, 45°, 60°				
作動方式	Acting type	複動式 / Double acting				

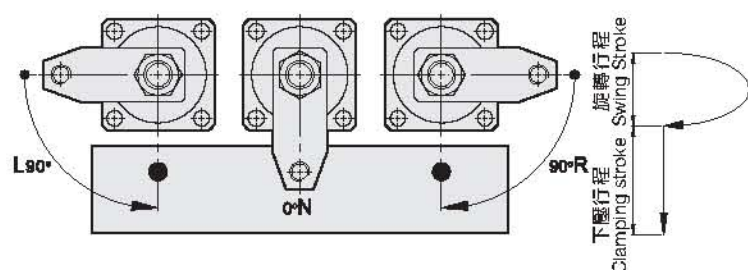
訂購標示法 / Order Code

HSC - MF 25 S R x 90 - E



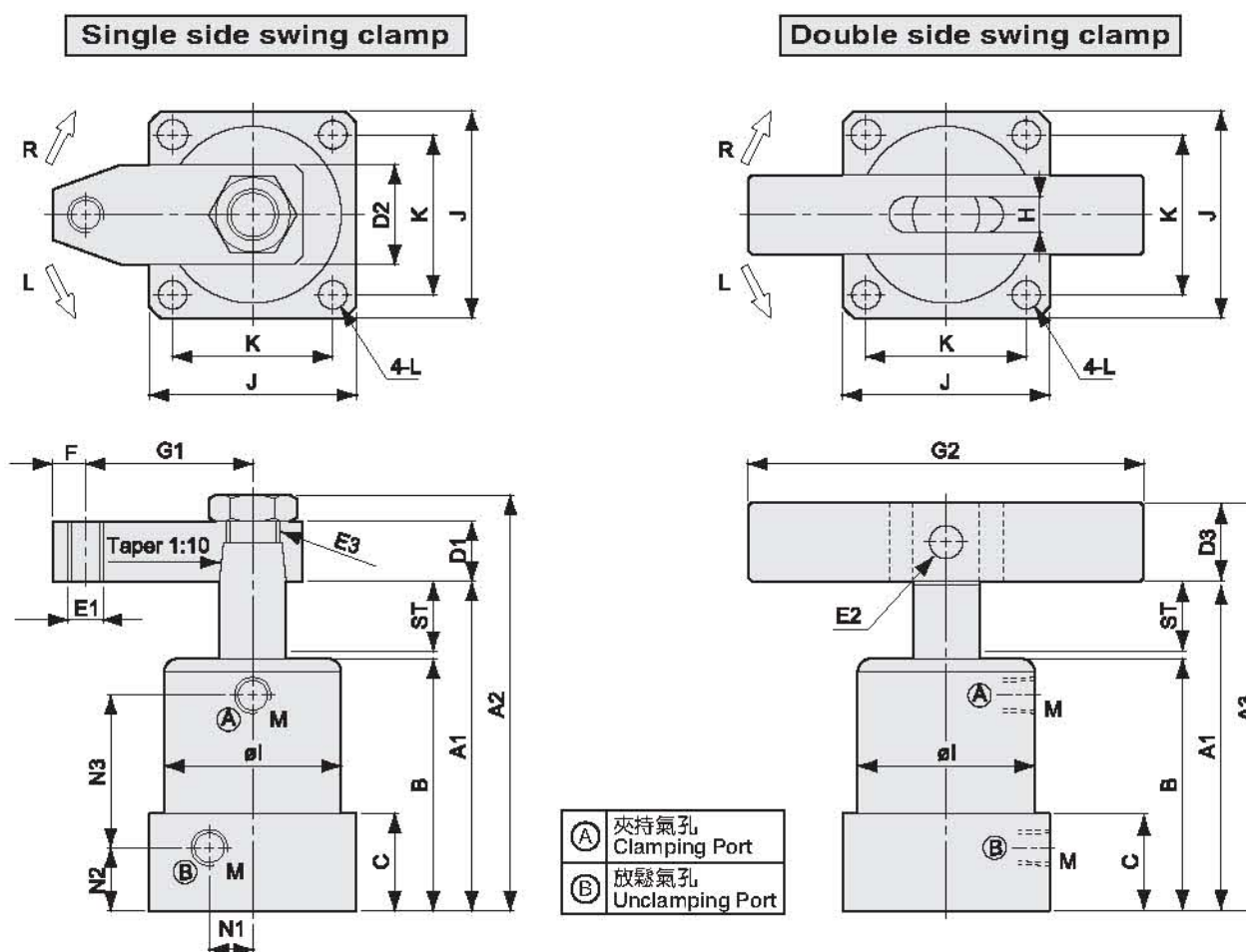
1. 型式 / Model code:
 空白:配管式 Blank:Line type
 MF:油路板附調速 MF:Manifold with flow control
 M:油路板型 M: Manifold type
 FA:法蘭型 FA: Flange type
 FAM:法蘭型油路板 FAM: Flange with manifold
 TB:全牙型 TB: Threaded body
2. 氣缸內徑 / Bore Size(mm): ø25, ø32, ø40, ø50, ø63
3. 壓板型式 / Clamping arm type:
 S:單邊壓板 Single side arm
 D:雙邊壓板 Double side arm
4. 轉角方向 / Rotating Direction
 R 順時針右轉 Turn right
 L 逆時針左轉 Turn left
 N: 0° 順時針右轉 0° No swing
5. 轉角角度 / Rotating Angle: 90:90°, 45:45°, 60:60°
6. 行程加長型 / Stroke extension Line type

單邊壓板旋轉示意圖 Single Side Swing Clamp



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- (A) 夾持氣孔 Clamping Port
- (B) 放鬆氣孔 Unclamping Port

Unit : mm

Model	ST:Swing/clamping	A1	A2	A3	B	C	D1	D2	D2	E1	E2	E3
HSC-25	22 : 9/13	101	124	120	76	27	15	27	□19	M10 x1.5	ø8	M14 x1.5
HSC-32	26 : 11/15	115	140	137.2	85	30	17	31	□22.2	M10 x1.5	ø8	M16 x1.5
	41 : 11/30	145	170	167.2	100							
HSC-40	26 : 11/15	120	148	142.2	90	30	18	31	□22.2	M10 x1.5	ø10	M18 x1.5
	41 : 11/30	50	178	172.2	105							
HSC-50	30 : 13/17	134	166	159.4	100	34	20	37	□25.4	M12 x1.75	ø12	M20 x1.5
	47 : 13/34	168	200	193.4	117							
HSC-63	30 : 13/17	139	175	170.8	105	34	23	48	□31.8	M16 x2.0	ø15	M26 x1.5
	47 : 13/34	158	184.4	180.2	107							

Model	F	G1	G2	H	øI	J	K	L	M	N1	N2	N3
HSC-25	10	50	140	9	ø46	52	40	ø6.8	PT1/8"	8	17	46
HSC-32	10	55	160	10	ø50	56	44	ø6.8	PT1/8"	10	19	52
												67
HSC-40	10	60	160	10	ø54	63	48	ø9	PT1/8"	12	19	57
												72
HSC-50	12	65	180	12	ø66	72	57	ø9	PT1/4"	15	21.5	63.5
												80.5
HSC-63	15	75	200	15	ø80	88	70	ø11	PT1/4"	17	22	68
												85