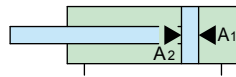


## ▶ 氣缸出力計算式

$$F = P \times A - f$$

**F** : 氣缸出力 ( kgf )                      **A** : 截面積 ( cm<sup>2</sup> )  
**P** : 使用壓力 ( kgf/cm<sup>2</sup> )                **f** : 摩擦阻力 ( kgf )

## → 氣缸理論出力表



單位 : Kgf

缸徑 (mm)		10	12	16	20	25	32	40	50	63	80	100	125	
軸徑 (mm)		4	6	6	8	10	12	16	20	20	25	25	36	
受壓面積 (cm <sup>2</sup> )	A <sub>1</sub>	0.8	1.1	2.0	3.1	4.9	8.0	12.5	19.6	31.2	50.2	78.5	122.7	
	A <sub>2</sub>	0.6	0.9	1.7	2.6	4.1	6.9	10.6	16.5	28.0	45.3	73.6	112.5	
操作壓力 (kgf/cm <sup>2</sup> )	1	A <sub>1</sub>	0.8	1.1	2.0	3.1	4.9	8.0	12.6	19.6	31.2	50.2	78.5	122.7
		A <sub>2</sub>	0.6	0.9	1.7	2.6	4.1	6.9	10.6	16.5	28.0	45.3	73.6	112.5
	2	A <sub>1</sub>	1.6	2.3	4.0	6.3	9.8	16.1	25.1	39.3	62.3	100.5	157.0	245.4
		A <sub>2</sub>	1.2	1.7	3.5	5.3	8.2	13.8	21.1	33.0	56.0	90.7	147.2	225
	3	A <sub>1</sub>	2.4	3.4	6.0	9.4	14.7	24.1	37.7	58.9	93.5	150.7	235.5	368.1
		A <sub>2</sub>	1.8	2.5	5.2	7.9	12.4	20.7	31.7	49.5	84.0	136.0	220.8	337.5
	4	A <sub>1</sub>	3.2	4.5	8.0	12.6	19.6	32.2	50.2	78.5	124.6	201.0	314.0	490.8
		A <sub>2</sub>	2.4	3.4	6.9	10.6	16.5	27.6	42.2	65.9	112.1	181.3	294.4	450
	5	A <sub>1</sub>	4.0	5.7	10.1	15.7	24.5	40.2	62.8	98.1	155.8	251.2	392.5	613.5
		A <sub>2</sub>	3	4.2	8.7	13.2	20.6	34.5	52.8	82.4	140.1	226.7	368.0	562.5
	6	A <sub>1</sub>	4.7	6.8	12.1	18.9	29.4	48.2	75.4	117.8	186.9	301.4	471.0	736.2
		A <sub>2</sub>	3.6	5.1	10.4	15.8	24.7	41.5	63.3	98.9	168.1	272.0	441.6	675
	7	A <sub>1</sub>	5.5	7.9	14.1	22.0	34.3	56.3	87.9	137.4	218.1	351.7	549.5	858.9
		A <sub>2</sub>	4.2	5.9	12.1	18.5	28.9	48.4	73.9	115.4	196.1	317.3	515.2	787.5
	8	A <sub>1</sub>	6.3	9.0	16.1	25.1	39.3	64.3	100.5	157.0	249.3	401.9	628.0	981.6
		A <sub>2</sub>	4.8	6.8	13.8	21.1	33.0	55.3	84.4	131.9	224.1	362.7	588.8	900
	9	A <sub>1</sub>	7.1	10.2	18.1	28.3	44.2	72.3	113.0	176.6	280.4	452.2	706.5	1104.3
		A <sub>2</sub>	5.4	7.6	15.5	23.8	37.1	62.2	95.0	148.4	252.1	408.0	662.4	1012.5

註：以上皆為理論數據；實際採用前須考慮磨擦阻力及機械效率值計算。