

Air consumption for sensor

Thanks to newly developed poppet structure of the sensing valve, swing clamp model CTM, link clamp model CLM and Work lift cylinder model CNB have a good air-tight sealing performance and leak less air, moreover these are able to be operated even under low air pressure circumstance with a short detecting distance and therefore air consumption can be significantly reduced by selecting one size small orifice of air sensor. (Low air consumption is achievable when choosing the air sensor with short detecting distance type under low air pressure)

Air consumption per one air sensor

(16h a day per year 250 days)
(Air unit price ¥2 per m³)*

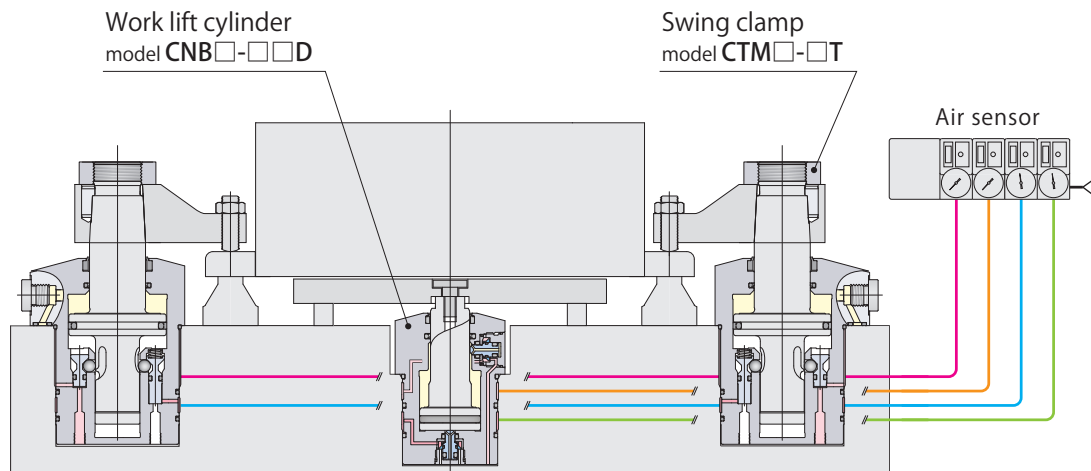
Model		Air pressure (MPa)	consumption (L/min)	Consumption per year (m ³)	Air charge per year (¥)
CKD	GPS2-05	0.1	9	2,160	4,320
		0.2	14	3,360	6,720
	GPS2-07	0.1	15	3,600	7,200
		0.2	24	5,760	11,520
SMC	ISA3-F	0.1	3	720	1,440
		0.2	5	1,200	2,400
	ISA2-G ISA3-G	0.1	8	1,920	3,840
		0.2	12	2,880	5,760
	ISA2-H ISA3-H	0.1	15	3,600	7,200
		0.2	22	5,280	10,560

**86.4%
DOWN**

Changing model ISA3-H which is used under 0.2MPa air pressure to model ISA3-F which is used under 0.1MPa, reduction of air charge per year for 1 pce of air sensor is

calculated to be **¥9,120***.

(¥10,560 – ¥1,440 = ¥9,120 per year : **86.4% down**)



Assuming 4 pcs of sensor (2 for CNB and 2 for CTM as shown the above diagram) are used on one machine, totally 10 machines are subject to it, you could reduce approx

¥365,000* per year for air charge.

* : Data and calculation based on the information publicized by each sensor supplier.
Calculation based on the expenses in Japan.