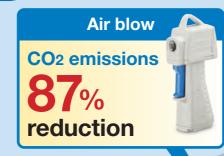


ENERGY SAVING SOLUTIONS



Placement verification

CO2 emissions

60%

reduction

Actuators
CO2 emissions
25%
reduction

Air leakage
CO2 emissions
100%
reduction

Overall Air

62%

reduction

Air consumption calculation
(Flow rate/Pressure control)

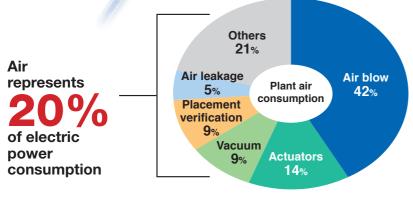


Pressure loss (Piping)

CO₂ emissions

4%

reduction a



Vacuum
CO2 emissions
93%
reduction

- What is the application?
- What are the SMC energy saving options?



Overall Machine Air Usage

Application: Supplying air to a local machine

Solution: Use the AMS to monitor the machine standby conditions (when production stops) and automatically decrease the pressure. Reduce unnecessary air consumption with standby and isolation modes.

- Use on any new or existing machine that uses compressed air
- Implement Condition-Based Maintenance to the pneumatic system
- Monitor & collect pneumatic consumption data of the machine

AMS Series, Air Management System

Air Consumption Reduction up to





Pneumatic Actuators

Application: Operating the cylinder with work in only one direction. The other directions has a little to no load. Not applicable for heavy tooling.

Solution: Use the ASR/Q flow controls to automatically reduce the pressure (and thus consumption) of the non-working side of the cylinder.

ASR/Q Series, Air Saving Speed Controller

Air Consumption Reduction up to 25%







Vacuum

Application: Utilizing vacuum generation (ejector or pump style) for workpiece adsorption. Not ideal for transfer with high leakage. i.e. no foam pads.

Solution: Use the ZK2 and ZL with "energy savings" mode to shut off and stop consuming air/vacuum when a vacuum set point is reached. It will turn back on if any leakage causes the vacuum pressure to drop below a set level.

ZK2A Series, Vacuum Generator and ZL Series, Multi-Stage Generator

Air Consumption Reduction up to 9







Continuous Air Blow Off

Application: Using air in any open nozzle or blow-off application.

Solution: Use the AXTS as close to the nozzle as possible to automatically pulse the blow-off on and off. This greatly reduces consumption while improving the impact of the blow-off.

AXTS040-X2 Series, Air Saving Pulse Valve

Air Consumption Reduction more than 50%







SMC Corporation of America

