

Pneumatic Handling Modules

AGI has introduced a series of pneumatic handling modules that combines a powerful rotary actuator with a precision parallel gripper with a manifold between them in a single, ultra-compact unit.

The new AGM swivel/gripper modules provide machine and automation builders with a particularly flexible and cost-effective dual-functionality actuator for pick-and-place type applications.

They are designed to help machine builders and system integrators minimise design and installation time, as well as reduce purchasing costs.

AGI offers a choice of ten AGM gripper/rotary modules, with different torques, gripper forces, gripper stroke lengths and manifolds. The internal porting prevents airlines from twisting, rubbing and snagging outside the unit. This yields a versatile automation module for assembly.

The smallest module can generate up to 5 in/lb torque at 80 psi, up to 20 lb gripping force, and has a gripper stroke length of .25 inch. The largest module in the series has ratings of 17 in/lb torque, 40 gripping force and a .5 gripper stroke.

This combination of high rotational and gripping forces enables AGI modules to provide industry-leading cycle times of just 0.1sec, making them ideal for high-throughput automation applications.

Typically, these include picking components from bowl or linear feeders and re-orientating them on assembly pallets; presenting components to automated inspection cameras; and picking components from in-feed conveyors, rotating them and placing them for assembly.