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Pneumatic Angular Grippers with fail safe locking

AGI a leader in motion control technology, introduces the latest technological advancement in pneumatic angular grippers.

The Series AGA Angular Gripper Actuator features five new models that have 180° opening that is suited for applications which must be performed within a limited work area. The AGA-20, 30 and 40 series have stroke-limiting screws to adjust the stroke between 0° and 180°. The five sizes have a range gripping forces from 50 lbs. to 820 and all feature fail safe toggle locking.

When the jaws are completely opened, the work piece can be placed in a fixture without having to retract the gripper. This saves an extra step as well as the expense of another axis of movement. The toggle mechanism greatly increases in power as the jaws near the fully closed position and become self-locking when past parallel. The internal linkages are guided by two grooves that run the length of the body. This will keep the tooling jaws from losing the center repeatability. Close attention must be made to the tooling jaws when designing them. Because the jaws swing an arc, the mechanism produces higher velocity at the end of your tooling during the stroke. Therefore, tooling jaws should be short, lightweight as possible, and flow controls are recommended. In cases where longer jaws are needed, bumpers or miniature hydraulic shocks should be used to decelerate the jaw at the end of the stroke. All of these units are double acting, have multiple airports, mounting locations and available with sensor options for easy interfacing to electrical controls.

AGI supplies a complete range of sophisticated automation products that include, Pneumatic parallel grippers, rotary actuators, thrusters, linear actuator slides, mini slides, tool changers, overload devices. Available in imperial and metric versions for flexibility of design for a world market.

For more information on this product, send for a FREE catalog today. For immediate assistance, call AGI, at (203) 459-8345 or visit our web site at www.agi-automation.com