



AGC Tool Changer System

See: www.agi-automation.com for full data



FEATURES AND BENEFITS

- Fail Safe
- Handles High Moments and Extremely High Repeatability
- Low Deflection
- Coupling Window

Model	Moment load graph	Repeatability X&Y	Repeatability Z	Weight	Profile	Diameter	User Electrical Lines	Pneumatic Ports
AGC-20	in-lb N-m	± .025 mm ± .001 in	± .025 mm ± .001 in	0.40 kg 0.91 lb	46.50 mm 1.83 in	60 mm 2.3 in	18 @ 5 Amp each	(6) M5
AGC-40	in-lb N-m	± .025 mm ± .001 in	± .025 mm ± .001 in	1.88kg 4.14 lb	63 mm 2.48 in	101.5 mm 4.0 in	22 @ 5 Amp each	(8) 1/8" NPT

ROBOTIC TOOL CHANGERS OFFER IMPROVED PRODUCTION AND SAFETY.

The AGI robotic tool changer provides the flexibility to automatically changed end-effectors, as part of improving production cycles in a given cell. A robot will use a pneumatic gripper to pick up and position a part, after that it exchanges the gripper for a grinder. When the grinder is complete, the robot drops of the tool and reattaches the gripper, so it can remove the piece from its fixture and pick up another part.

Another common application is here a robot uses a single end effector for a given product run, only changing every couple of hours, so tool changers can both cut costs and increase throughput.

Routine maintenance is another application in which tool changers help reduce the down time. The tool changer justifies its expense because end effectors can be swapped out in a matter of seconds, as opposed to hours so production can continue.

Safety is key in any factory environment. AGI's pneumatic Tool Changer are equipped with a fail safe locking mechanism that will not drop your part even if air pressure fails. The locking mechanism relies on a pneumatically driven piston that forces three cam fingers into a steel ring in the tool-side piece, both locking it in place and clamping the two pieces together. The cam geometry ensures the robot- and tool-side do not come apart in to event of lost air pressure.

The pneumatically actuated robotic tool changer provides the flexibility to automatically change grippers or other peripheral end effector tooling. AGI offers seven different sizes of Tool-Changers, ranging from 1" in diameter for lab use to 10" in diameter. Tool Changers handle high load capacities up to 6000 in-lbs and a repeatability of + 0.01. Tool Changers (Robot side and Tool side) that have been design to connect electrical contacts and Pneumatic ports.

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, (203) 459-8345 or visit our web site at www.agi-automation.com