



ATS Servochassis™



Automation  
Tooling  
Systems

## Description

The ATS Servochassis™ is an advanced assembly dial that features cycle times less than one second, combined with the operational flexibility of programmable servo-drive technology.

Configurable for three or more stations, the ATS Servochassis™ incorporates high-precision servo motors driving two independent axes. Replicating the co-ordinated motion of a mechanical cam dial, the tooling for all stations is mounted on the dial top plate and is raised and lowered simultaneously along a single Z-axis. This motion can be finely tuned to allow all tooling to clear the table in the shortest possible time prior to indexing. A second servo, mounted underneath the dial plate, indexes the table.

Independent of the top plate's camming action, tooling operations at each station can take place before the table has stopped indexing, reducing cycle times to less than one second, depending on the application.

## Specifications

Dial Diameter:	765 / 900 / 1050 mm
Dial Nests:	Variable
Pick & Place:	Up to 16 stations
Index Positions:	Programmable
Z-axis Travel:	Programmable, 90 mm max.
X-station	90 mm Max.
Tooling Reach:	
Pneumatic PnP Stroke:	40 / 90 / 120 mm
X-tooling Reach:	90 mm max.
Dial Index:	Servo
Z-axis:	Brushless servomotor
X-tooling Reach:	Pneumatic
Operating Temperature:	0 to 50 deg. C
Cycle Time:	< 1 sec. (depending on setup)
Electrical Supply:	3-phase, 208-480 VAC 50/60 Hz

## Features

- Cycle time less than one second, application dependent
- Up to 16 stations
- Single servo-driven Z-axis for all tooling, on top plate
- High-speed servo indexing
- Motion along X-axis individually programmed for all tooling
- Fewer pneumatic switches, cylinders, and valves than normally required for the operation of Z-axis devices
- Easily reprogrammed to accommodate tooling changes
- Unmatched throughput and easy configurability
- Indexing can be forward, reverse or partial

Contact ATS directly for custom applications or for product specific applications beyond the scope of this document



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