



AutoDoor Opener Systems

for  /  **Haas** F1 Team Machines
OFFICIAL MACHINE TOOL



- ✓ Available with pneumatic cylinders or with servo control.
- ✓ Automatically open and close Single and Double doors on any CNC.
- ✓ Can be interfaced with the CNC control via M-Code.
- ✓ Programmable for automated operation, or push button for manual operation.
- ✓ Door reverses if met with resistance.
- ✓ Ideal for robot/cobot applications.
- ✓ Reduces operator fatigue and shortens robot/cobot load time.
- ✓ Certified by Universal Robots as a UR+ product. Easily integrated via UR Cap.



Automate your machining process with unattended operation. Improve ergonomics and eliminate repetitive manual door opening tasks. Reduce the load on the operator or robot/cobot and minimize downtime with an AutoDoor system on HAAS CNC Milling or Turning Centers. The MIDACO AutoDoor Opener is another step forward to increase productivity and efficiency in your shop.

AutoDoor Opener Systems



For Single Doors from 18" to 62"
(457.2mm to 1574.8mm)



For Double Doors from 18" to 150"
(457.2mm to 3810mm)



MIDACO AutoDoor Opener on HAAS VF-4

Shown with Automatic Pallet Changer & Trunnion System (no cable management needed) for use with HAAS Rotary Indexer in VMC

Pneumatic



3 push buttons (Open, Close, Reset) operate the door in "Manual" mode. Uses M-Code for "Automated" operation.

Uses a pneumatic cylinder to open and close the CNC door(s).

Safety bump strip senses an obstruction while the door is closing and reverses the door to open.

After reset, a soft start valve slowly returns air to the door system. This prevents any rapid door movement upon recovery.

Requires air at 80-120 psi and 110-volt power source.

Servo Control



Touch screen operates the door and provides feedback on any errors.

Uses a high-torque motor with incremental encoder to open and close the CNC doors(s). Interfaced with the CNC via M-Code.

Sensors detect any resistance and reverse the door to open.

After reset, the motor slowly recovers to the open position until it senses that the door is at its home position.

Requires 110-volt power source.

NOTE: CNC machine must be able to supply or receive signal

AUTODOOR OPENER SYSTEMS are designed to be easily installed with standard supplied hardware by most end users or distributors. If special mounting brackets are required, they will be quoted at the time the specific machine information is reviewed by **MIDACO**. Interface installation is the responsibility of the end user or distributor. Contact **MIDACO** to request a quote or discuss your specific application.



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AMT tma



| HAAS Machine | Door Opening | Midaco Pneumatic Door Opener | Midaco Servo Control Door Opener |
|-------------------------|----------------------------------|------------------------------|----------------------------------|
| DM-1 & DT-1 | 22" Single | ADS1824 | ADSS1836 |
| DM-2 & DT-2 | 27" Single | ADS2530 | ADSS1836 |
| Mini Mill & Mini Mill 2 | 24.25" Single | ADS1824 | ADSS1836 |
| Super MM & Super MM2 | 24.25" Single | ADS1824 | ADSS1836 |
| TM-1 & TM-1P | 30" Double (15" ea. door) | ADD2134 | ADDS2540 |
| TM-2 & TM-2P | 40" Double (20" ea. door) | ADD3546 | ADDS2540 |
| TM-3 & TM-3P | 40" Double (20" ea. door) | ADD3546 | ADDS2540 |
| VF0, VF-1 & VF-1YT | 36" Double (18" ea. door) | ADD3546 | ADDS2540 |
| VF-2 & VF-2SS | 36" Double (18" ea. door) | ADD3546* | ADDS2540* |
| VF-2TR | 36" Double (18" ea. door) | ADD3546* | ADDS2540* |
| VF-2YT & VF-2SSYT | 36" Double (18" ea. door) | ADD3546* | ADDS2540* |
| VF-3, VF-3SS & VF-3SSYT | 48" Double (24" ea. door) | ADD4764* | ADDS4155* |
| VF-3YT & VF-3YT/50 | 50" Double (25" ea. door) | ADD4764* | ADDS4155* |
| VM3 | 48.75" Double (24.375" ea. door) | ADD4764 | ADDS4155 |
| VF-4 & VF-4SS | 50.25" Double (25.125" ea. door) | ADD4764* | ADDS4155* |
| VF-5, VF-5/50, VF-5SS | 50" Double (25" ea. door) | ADD4764* | ADDS4155* |
| VF-5XT & VF-5/50XT | 50.25" Double (25.125" ea. door) | ADD4764* | ADDS4155* |
| VF-5TR & VF-5/50TR | 62.5" Double (31.25" ea. door) | ADD4764* | ADDS5670* |
| VF-6 & VF-6/50 | 61" Double (30.5" ea. door) | ADD4764 | ADDS5670 |
| VF-6SS & VM-6 | 63.75" Double (31.875" ea. door) | ADD4764 | ADDS5670 |
| VF-6TR & VF-6/50TR | 83" Double (41.5" ea. door) | ADD7696 | N/A |
| VF-7 & V-7/50 | 81.5" Double (40.75" ea. door) | ADD7696 | N/A |
| VF-8 & VF-8/50 | 60.5" Double (30.25" ea. door) | ADD4764 | ADDS5670 |
| VF-9 & VF-9/50 | 84.5" Double (42.25" ea. door) | ADD7696 | N/A |
| VF-10 & VF-10/50 | 117" Double (58.50" ea. door) | ADD117 | N/A |
| VF-11 & VF-11/50 | 117" Double (58.50" ea. door) | ADD117 | N/A |
| VF-12 & VF-12/50 | 150" Double (75" ea. door) | ADD150 | N/A |
| UMC-500 | 27.6" Single | ADS2530* | ADSS1836* |
| UMC-750 | 33" Single* (as of 2020) | ADS3136* | ADSS1836* |
| | 39" Single* (2019 & older) | ADS3748* | ADSS3752* |
| UMC-1000 | 36" Single | ADS3136* | ADSS1836* |
| EC-1600 | 63" Double (31.5" ea. door) | ADD4764 | ADDS5670 |
| Turning Center | | | |
| ST-10 & ST-10Y | 23" Single | ADS1824 | ADSS1836 |
| ST-15 & ST-15Y | 23" Single | ADS1824 | ADSS1836 |
| ST-20, ST-20Y & ST-20SS | 28" Single | ADS2530 | ADSS1836 |
| ST-25 & ST-25Y | 28" Single | ADS2530 | ADSS1836 |
| ST-30, ST-30Y & ST-30SS | 26.5" Single | ADS2530 | ADSS1836 |
| ST-35 & ST-35Y | 26.5" Single | ADS2530 | ADSS1836 |
| ST-40 & ST-45 | 42.5" Single | ADS3748 | ADSS3752 |
| ST-40L & ST-45L | 88" Double (44" ea. door) | ADD7696 | N/A |
| ST-50 & ST-55 | 88" Double (44.5" ea. door) | ADD7696 | N/A |
| DS-30 & DS-30Y | 26.50" Single | ADS2530 | ADSS1836 |

*Additional Mounting Bracket required for certain HAAS Machines