

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.

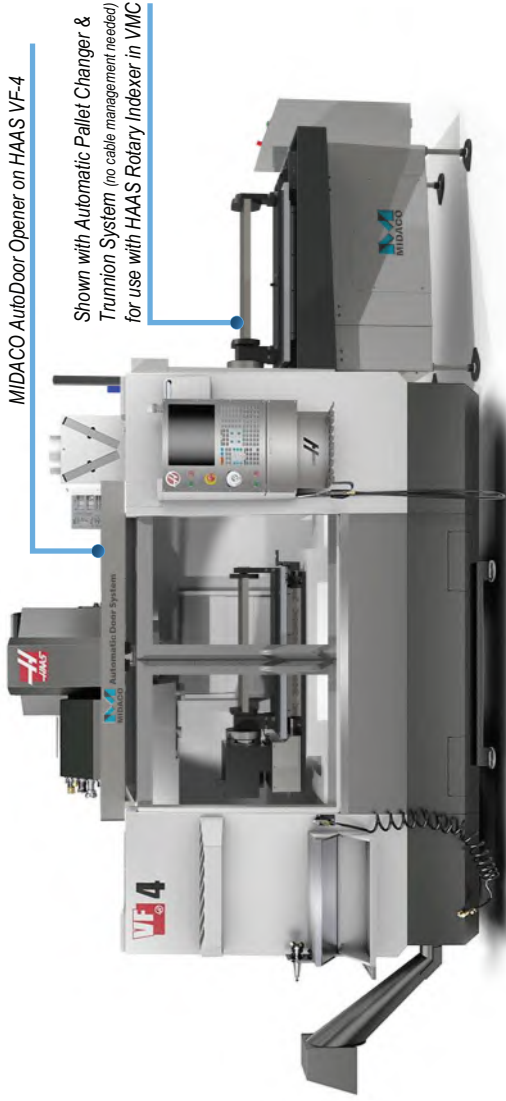
AutoDoor Opener Systems



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 & Turretion 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).	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.
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.	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

Servo Control

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).	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.
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.	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.

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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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
DC-1	24" Single	ADS1824	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	ADD52540
TM-2 & TM-2P	40" Double (20" ea. door)	ADD3546	ADD52540
TM-3 & TM-3P	40" Double (20" ea. door)	ADD3546	ADD52540
VF0, VF-1 & VF-1YT	36" Double (18" ea. door)	ADD3546	ADD52540
VF-2 & VF-2SS	36" Double (18" ea. door)	ADD3546*	ADD52540*
VF-2TR	36" Double (18" ea. door)	ADD3546*	ADD52540*
VF-2YT & VF-2SSYT	36" Double (18" ea. door)	ADD3546*	ADD52540*
VF-3, VF-3SS & VF-3SSYT	48" Double (24" ea. door)	ADD4764*	ADD54155*
VF-3YT & VF-3YT/50	50" Double (25" ea. door)	ADD4764*	ADD54155*
VM3	48.75" Double (24.375" ea. door)	ADD4764	ADD54155
VF-4 & VF-4SS	50.25" Double (25.125" ea. door)	ADD4764*	ADD54155*
VF-5, VF-5/50, VF-5SS	50" Double (25" ea. door)	ADD4764*	ADD54155*
VF-5XT & VF-5/50XT	50.25" Double (25.125" ea. door)	ADD4764*	ADD54155*
VF-5TR & VF-5/50TR	62.5" Double (31.25" ea. door)	ADD4764*	ADD55670*
VF-6 & VF-6/50	61" Double (30.5" ea. door)	ADD4764	ADD55670
VF-6SS & VM-6	63.75" Double (31.875" ea. door)	ADD4764	ADD55670
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	ADD55670
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	122" Double (61" ea. door)	ADD122	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) 39" Single* (2019 & older)	ADS3136* ADS3748*	ADSS1836* ADSS3752*
UMC-1000	36" Single	ADS3136*	ADSS1836*
UMC-1500 Duo	55" Single	ADS4960*	ADSS5362*
EC-1600	63" Double (31.5" ea. door)	ADD4764	ADD5670
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 or depending on door opening	ADS2530 or ADS3136	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