Duct Cleaning:
- How Our System Cleans Ducts?
GI Industries have designed our system to clean ductwork without removing them from the aircraft. This saves considerable time in maintenance and improves significantly the air quality in the cabin.

As with cleaning any surface of debris, you must brush or wipe the surface to break static cling and loosen the material to be removed. This is essential in removing any debris. We use the next generation of duct cleaning systems. We will thoroughly rush/scrub the internal ductwork, breaking static cling of particles that adhere to walls and remove them. The ductwork will be thoroughly cleaned with our brushing system and HEPA vacuum for removal of any toxic material.

To clean the ductwork in place, first connect our HEPA vacuum to the far end of the ductwork. Then insert our flexible shaft into the ductwork and turn-on the machine which will spins the brush. The technician simply feeds the flexible shaft into the ductwork. The soft nylon brush even cleans over the wing spar fast and efficient. All debris is removed in minutes.

Mould Cleaning:
GI Industries has developed a specialized brush for removing the biological material that the mould feeds on. The DCB-004H/18H has a 320 grit abrasive that will remove harden material from the walls of the ductwork and leaving the area clean of hazardous debris.

Infrared Inspection System:
- Ductwork & Restoration Inspections

We Use The Latest Technology To Inspect And Document:
Ductwork & Air Quality / Blocked Drains / HVAC Systems / Boilers / Sewers / Wells / Leaking Damaged Pipes / Internal Ceilings / Walls etc

Duct Cleaning:
- DCM 602 Series Commercial

The DCM 602 system is the ultimate in duct cleaning. This system can clean any ductwork from flex, insulated, steel, round rectangle, etc. The brushing unit is made of a sturdy steel cabinet, 1/2hp. belt-driven reversible motor, 15” Handheld Power Controller, Heavy Duty Air Solenoid (for air flushing at brush head.

Our system is unique because the brushing unit breaks the static cling of the particles on the walls (ductwork) and compressed air comes out at the brush head to push the debris to the vacuum source.

This combination of Brushing and Air Flushing is thorough and will clean round and square ducts. Set the control to forward position and the brush will clean the right side of rectangle ducts. Put the unit in reverse and the left side of the duct is cleaned as well.

Contractor’s Package 602:
- System
DCM 600 Brushing Machine x 1
DCM 5000 Hepa Vac 5000 CFM x 1
Flexible Shaft 35’ (FS535) x 1
Flexible Shaft 50’ (FS535) x 1
12 inch Duct Nylon Brush x 1
14 inch Duct Nylon Brush x 1
18 inch Duct Nylon Brush x 1

Specifications Of DCM 600 Duct Cleaner
- Horsepower: 1/2HP, forward & reversible
- Power Option 1: 110Volts, 60 Hz 8.6 amps
- Power Option 2: 220 Volts 50Hz
- Flexible Shaft Speed: 0-862 rpm (High Torque)
- Control Footswitches: Pneumatic 20’ long activates shaft rotation & Air flow
- Forward & reverse rotation by foot pedal
- Service Factor: 1.15
- Power Cord: 24 ft Electric power cord
- Weight (dry): 44 lbs cabinet / 22 lbs frame
- Dimensions: 19” x 15.5” x 10.75” cabinet
- Frame / Cart: 46”x 21”x17”
**How To Clean Aircraft Duct Work**

**First Things Turn Off Hvac System & Close All Hvac Vents**

1. Connect duct brush to flexible shaft and tighten locknut so brush does not come off or loosen from shaft. Connect flexible shaft to machine. Connect compressor to DCM 600 fitting and turn on compressor (max. 110psi.)

2. Check for air leaks

3. Plug all machines into electrical socket and ensure everything is working, if needed press reset button to activate

4. Connect Hepa Vacuum DCM 5000 to duct work and turn on

5. Insert flexible shaft into access cut out of duct work. Make sure compressor is connected to DCM 600 duct cleaning machine. Turn hand switch to forward rotation. Compressed air will come out of the flexible shaft and brush will rotate clockwise cleaning the right side of the ductwork

6. Hand feed flexible shaft until it reaches vacuum source. It is recommended to clean 25 feet of duct at a time. To clean the left side, switch the hand switch to reverse (counter clockwise rotation) and slowly retract flexible shaft

7. Attach the optional Infrared camera to flexible shaft so you can see what you are cleaning

**Items Required**

1. DCM 600 Duct Cleaning Machine
   - Variable speed machine
2. DCM 5000 Hepa Vacuum
   - High air flow, 5000 cfm
3. Optional IR 300 Infra-red inspection
   - Can be used in totally darkness

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**Email:** info@giindustries.eu  
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1. Start brushing from heat exchanger to rear of aircraft

2. HEPA Vacuum at far end to capture debris