

About AirVANTAGE™ Tools

Warranty Information

All AirVANTAGE™ Sanders are warranted for defects in materials or workmanship for one year from the date of delivery to the user. Combined with the AirVANTAGE™ name, this Warranty expresses our total confidence in the superior quality, durability, and performance of the AirVANTAGE™ Sander. To receive any expressed or implied warranty, the tool must be repaired by an authorized AirVANTAGE™ Service Center. The "Service Instructions" section provided with each tool is for use after completion of the warranty period. To receive warranty, tools must be operated under the conditions as described in the "Putting the Tools into Service" section of this document and be connected to an air supply system. Tools that have been exposed to extreme conditions will be covered under warranty at the sole discretion of AirVANTAGE™.

Tool Operation

Please Read and Comply with:

- General Industry Safety & Health Regulations, Part 1910, OSHA 2206, available from: Sup't of Documents; Government Printing Office; Washington DC 20402
- Safety Code for Portable Air Tools, ANSI B186.1 available from: American National Standards Institute, Inc.; 1430 Broadway; New York, NY 10018
- State and Local Regulations.

Proper Use of Tool

This sander is designed for sanding all types of materials i.e. metals, wood, stone, plastics, etc. using abrasive designed for this purpose. Do not use this sander for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier.

Do not use back-up pads that have a working speed less than the tool's declared operating speed.

Use only back-up pads that are specifically designed to be used with the particular tool the pad will be mounted to.

Do not use pads that are a different weight or size than that the tool was designed for.

Personal Safety Equipment

Use – Safety Glasses	Yes	Use – Breathing Masks	Yes
Use – Safety Gloves	Recommended	Use – Ear Protection	Recommended
Use – Safety Boots	Recommended		

Work Stations

The tool is intended to be operated as a hand held tool. It is always recommended that the tool be used when standing on a solid floor. It can be in any position but before any such use, the operator must be in a secure position having a firm grip and footing and be aware that the sander can develop a torque reaction. See the section "Operating Instructions".

AV Sander Owner's Manuals On-line

AirVANTAGE offers a complete line of owner's manuals for all AirVANTAGE sanders on-line. The manuals include operating instructions, parts information, service tool and accessory information, trouble shooting and service information. Visit us on-line at www.airvantagetools.com

Operating Instructions for Air Tools

Read all instructions before using this tool. All operators must be fully trained in its use and aware of these safety rules. All service and repair must be carried out by trained personnel.

Make sure the tool is disconnected from the air supply. Select a suitable abrasive and secure it to the back-up pad. Be careful and center the abrasive on the back-up pad.

When sanding always place the tool on the work then start the tool. Always remove the tool from the work before stopping. This will prevent gouging of the work due to excess speed of the abrasive.

Always remove the air supply to the sander before fitting, adjusting or removing the abrasive or back-up pad.

Always adopt a firm footing and/or position and be aware of torque reaction developed by the sander. Use only correct spare parts.

Always ensure that the material to be sanded is firmly fixed to prevent its movement.

Check hose and fittings regularly for wear. Do not carry the tool by its hose; always be careful to prevent the tool from being started when carrying the tool with the air supply connected.

Dust can be highly combustible. Vacuum dust collection bag should be cleaned or replaced daily. Cleaning or replacing of bag also assures optimum performance.

Do not exceed maximum recommended air pressure.

Use safety equipment as recommended.

The tool is not electrically insulated. Do not use where there is a possibility of coming into contact with live electricity, gas pipes, water pipes, etc. Check the area of operation before operation.

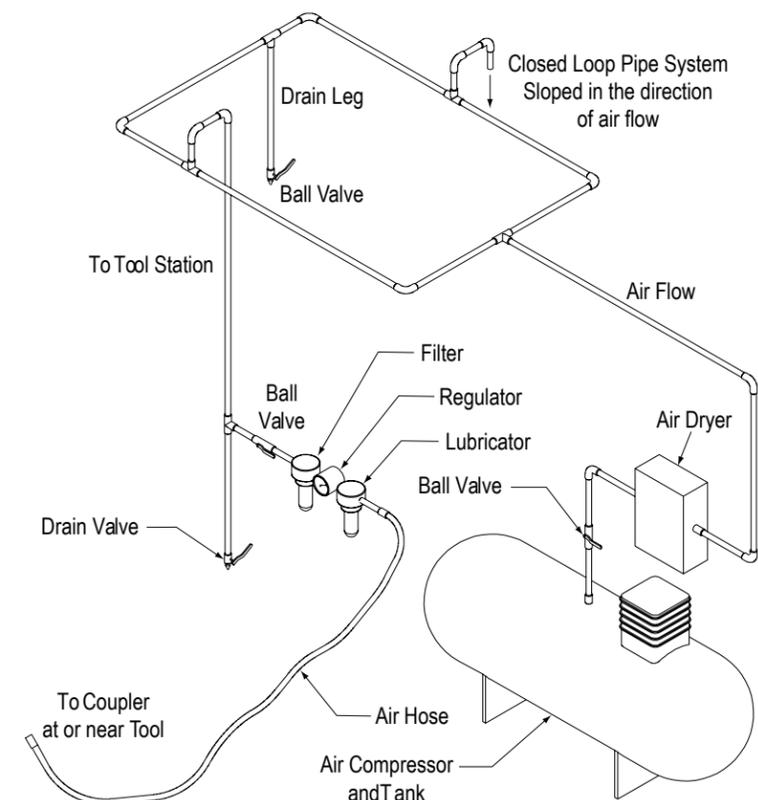
Take care to avoid entanglement with the moving parts of the tool with clothing, ties, hair, cleaning rags, etc. If entangled, it will cause the body to be pulled towards the work and moving parts of the machine and can be very dangerous.

Keep hands clear of the spinning pad during use.

If the tool appears to malfunction, remove from use immediately and arrange for service and repair.

Do not allow the tool to free speed without taking precautions to protect any persons or objects from the loss of the abrasive or pad.

Air System Recommendation



Inline Push-to-Start Air Screwdrivers

- Various models with torque ranges from 0.43 - 82.46 in-lb.
- Automatic shut-off precision clutch.
- Forward / Reverse Switch.
- Torque nut cover prevents operator tampering.
- Aluminum body with ergonomic soft grip.



001095 (001091-001097)
Inline Push-to-Start Air Screwdriver



001101 (001098-001101)
Inline Push-to-Start Air Screwdriver

Inline Push-to-Start Air Screwdrivers Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Torque Range Nm (in - lb.)	Free Speed (RPM)	Length Inch (mm)	Dia. Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)	Fastening Capacity	
								Machine Screw Dia.	Tapping Screw Dia.
001091	0.05 - 0.20 (0.43 - 1.74)	1,000	7.87 (200)	1.61 (41)	1.06 (0.48)	7.1	3/8 (10)	M1.0-2.2	M1.0-1.7
001092	0.10 - 0.78 (0.87 - 6.94)	1,000	7.87 (200)	1.61 (41)	1.06 (0.48)	9.8	3/8 (10)	M1.7-3.3	M1.3-2.7
001093	0.29 - 1.67 (2.60 - 14.76)	1,800	7.87 (200)	1.61 (41)	1.06 (0.48)	7.1	3/8 (10)	M2.2-4.2	M1.7-3.2
001094	0.29 - 1.96 (2.60 - 17.36)	2,200	7.87 (200)	1.61 (41)	1.06 (0.48)	9.8	3/8 (10)	M2.2-4.5	M1.7-3.5
001095	0.29 - 2.45 (2.60 - 21.70)	1,800	7.87 (200)	1.61 (41)	1.06 (0.48)	9.8	3/8 (10)	M2.2-4.7	M1.7-3.8
001096	0.49 - 2.94 (4.34 - 26.04)	1,000	7.87 (200)	1.61 (41)	1.06 (0.48)	9.8	3/8 (10)	M2.8-5.0	M2.2-4.0
001097	0.78 - 3.92 (6.94 - 34.72)	800	7.87 (200)	1.61 (41)	1.06 (0.48)	10.6	3/8 (10)	M3.3-5.7	M2.7-4.4
001098	0.49 - 4.41 (4.34 - 39.06)	1,700	9.25 (235)	1.89 (48)	1.74 (0.79)	19.5	3/8 (10)	M2.8-5.8	M2.2-4.7
001099	0.69 - 4.90 (6.08 - 43.40)	1,400	9.25 (235)	1.89 (48)	1.74 (0.79)	10.6	3/8 (10)	M2.9-6.0	M2.6-4.9
001100	0.69 - 6.37 (6.08 - 56.42)	1,000	9.25 (235)	1.89 (48)	1.74 (0.79)	10.6	3/8 (10)	M2.9-6.4	M2.6-5.4
001101	1.47 - 9.31 (13.02 - 82.46)	550	9.25 (235)	1.89 (48)	1.74 (0.79)	10.6	3/8 (10)	M4.1-7.0	M3.1-6.0

Selection Guide (4.8)

Screw Size (Grade 4.8)	M1.6	M2	M2.5	M3	M4	M5	M6
Recommended Torque Nm (in - lb.)	0.09 (0.8)	0.2 (1.8)	0.4 (3.5)	1.0 (8.8)	1.4 (12.4)	2.9 (25.7)	4.9 (43.4)

Selection Guide (8.8)

Screw Size (Grade 8.8)	M1.6	M2	M2.5	M3	M3.5	M4	M4.5	M5	M6
Recommended Torque Nm (in - lb.)	0.2 (1.8)	0.4 (3.5)	0.7 (6.2)	1.2 (10.6)	1.9 (16.8)	2.9 (25.7)	4.3 (38.1)	5.7 (50.4)	9.8 (86.7)

Selection Guide (Sheet Metal Screw - ST)

Screw Size (Sheet Metal Screw - ST)	ST2.2	ST2.9	ST3.5	ST4.2	ST4.8	ST5.5	ST6.3
Recommended Torque Nm (in - lb.)	0.3 (2.7)	1.0 (8.8)	1.8 (15.9)	2.9 (25.7)	4.2 (37.2)	6.7 (59.3)	9.1 (80.5)

Model No.	Torque Range Nm (in - lb.)	RPM	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10
001091	0.05 - 0.20 (0.43 - 1.74)	1,000	■									
001092	0.10 - 0.78 (0.87 - 6.94)	1,000	■	■								
001093	0.29 - 1.67 (2.60 - 14.76)	1,800	■	■	■							
001094	0.29 - 1.96 (2.60 - 17.36)	2,200	■	■	■	■						
001095	0.29 - 2.45 (2.60 - 21.70)	1,800	■	■	■	■						
001096	0.49 - 2.94 (4.34 - 26.04)	1,000	■	■	■	■	■					
001097	0.78 - 3.92 (6.94 - 34.72)	800	■	■	■	■	■	■				
001098	0.49 - 4.41 (4.34 - 39.06)	1,700	■	■	■	■	■	■	■			
001099	0.69 - 4.90 (6.08 - 43.40)	1,400	■	■	■	■	■	■	■	■		
001100	0.69 - 6.37 (6.08 - 56.42)	1,000	■	■	■	■	■	■	■	■	■	
001101	1.47 - 9.31 (13.02 - 82.46)	550	■	■	■	■	■	■	■	■	■	■

Air Hammers

- Ergonomic design with rubber protective handle.
- Ideal for cutting through rusted metal or bolts removing mortar from concrete block or bricks.
- Adjustable air regulator and speed control.
- Tools come with four chisels.



Spring Retainer Type

001151
Air Hammer, Short Barrel



Accessories included : Tapered Punch, Flat chisel, Spot weld breaker and Single Blade Panel Cutter.



Quick Change Retainer Type

001153
Air Hammer, Short Barrel

Air Hammers Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Type	Blows Per Minute	Shank Opening Inch (mm)	Bore Diameter Inch (mm)	Stroke Length Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001151	Short Barrel	3,000	0.401 (10.18)	3/4 (19)	2-5/16 (58)	8.11 (206)	4.18 (1.90)	22 (623)	3/8 (10)
001152	Long Barrel	2,100	0.401 (10.18)	3/4 (19)	3 (76)	9.25 (235)	5.06 (2.30)	22 (623)	3/8 (10)
001153	Short Barrel	3,000	0.401 (10.18)	3/4 (19)	2 5/16 (58)	8.11 (206)	4.18 (1.90)	22 (623)	3/8 (10)
001154	Long Barrel	2,100	0.401 (10.18)	3/4 (19)	3 (76)	9.25 (235)	5.06 (2.30)	22 (623)	3/8 (10)

Air Drills

- Soft grip for increased comfort.
- Keyed-Chuck.



001169
3/8" Straight Air Drill



001161
3/8" Reversible Keyed-Chuck Air Drill

Air Straight Drills Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	Chuck Capacity Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001169	2,500	3/8 (10)	8.47 (215)	2.20 (1.0)	29 (821)	3/8 (10)
001170	4,000	3/8 (10)	8.47 (215)	2.20 (1.0)	29 (821)	3/8 (10)

Air Pistol Drills Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Type	Model Number	Free Speed (RPM)	Chuck Capacity Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
Reversible	001161	2,350	3/8 (10)	7.28 (185)	2.42 (1.10)	29 (821)	3/8 (10)
	001162	3,800	3/8 (10)	7.28 (185)	2.42 (1.10)	29 (821)	
	001163	900	1/2 (13)	8.27 (210)	3.00 (1.40)	29 (821)	
	001164	600	1/2 (13)	8.27 (210)	3.00 (1.40)	29 (821)	
Non Reversible	001165	2,800	3/8 (10)	7.28 (185)	2.42 (1.10)	29 (821)	
	001166	4,000	3/8 (10)	7.28 (185)	2.42 (1.10)	29 (821)	
	001167	1,000	1/2 (13)	8.27 (210)	3.00 (1.40)	29 (821)	
	001168	650	1/2 (13)	8.27 (210)	3.00 (1.40)	29 (821)	

Air Hammer

Air Drills

Air Die Grinders

- Lightweight ergonomic design for operator comfort.
- Soft grip for increased comfort.
- Paddle trigger with safety.
- Rear exhaust.



001181
1/4" Collet, Straight Air Die Grinder

Air Angle Die Grinders

- Lightweight ergonomic design for operator comfort.
- Soft grip for increased comfort.
- Paddle trigger with safety.
- Rear exhaust.



001185
Air Angle Die Grinder



001186
120 Degree Air Angle Die Grinder

Air Die Grinders

Air Die Grinder Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	Collet Size Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001181	22,000	1/4 (6.0)	6.70 (170)	1.37 (0.62)	29 (821)	3/8 (10)

Air Extended Die Grinders Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	Collet Size Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001182	20,000	1/4 (6.0)	10.24 (260)	1.98 (0.90)	29 (821)	3/8 (10)
001183	20,000	1/4 (6.0)	13.39 (340)	2.75 (1.25)	29 (821)	3/8 (10)
001184	20,000	1/4 (6.0)	17.33 (440)	3.19 (1.45)	29 (821)	3/8 (10)

Air Angle Die Grinder Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	Collet Size Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
01185	18,000	1/4 (6.0)	6.70 (170)	1.67 (0.76)	29 (821)	3/8 (10)

120 Degree Air Angle Die Grinder Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	Collet Size Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001186	18,000	1/4 (6.0)	7.76 (197)	1.67 (0.76)	29 (821)	3/8 (10)

Air Angle Die Grinders

Air Ratchet Wrenches

- Lightweight ergonomic design for operator comfort.
- Soft grip for increased comfort.
- Forward / reverse knob on the ratchet head.
- Rear exhaust.



001196
3/8 in. Air Ratchet Wrench

Air Ratchet Wrenches Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	Square Drive Inch (mm)	Maximum Torque ft-lb	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001196	160	3/8 (10)	60	8.5 (216)	2.55 (1.16)	29 (821)	3/8 (10)
001197	160	1/2 (13)	60	8.5 (216)	2.55 (1.16)	29 (821)	3/8 (10)

Air Impact Wrenches

- Ergonomic design for operator comfort.
- Forward / Reverse Switch for quick and easy switching.
- High Torque helps to break free fasteners that are stubborn or stuck.
- Twin-Hammer.
- Adjustable speed.



001216
1/2 in. Air Impact Wrench

001217
3/4 in. Air Impact Wrench



001220
1/2" Mini Air Impact Wrench

Air Impact Wrenches Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	Square Drive Inch (mm)	Maximum Torque ft-lb	Working Torque ft-lb	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001216	8,500	1/2 (13)	820	650	7.48 (190)	4.62 (2.10)	33 (935)	3/8 (10)
001217	8,500	3/4 (19)	820	650	7.68 (195)	5.06 (2.30)	33 (935)	3/8 (10)
001220	10,000	1/2 (13)	550	450	4.69 (119)	3.30 (1.50)	32 (906)	3/8 (10)

Air Impact Wrenches

Air Ratchet Wrenches

Air Metal Shears

- Make straight and contour cuts in sheet metal with a minimum of edge distortion.
- Lightweight ergonomic design for operator comfort.
- Soft grip for increased comfort.
- Paddle trigger with safety.
- Replaceable blades.



001201
Air Metal Shear



001202
Air Metal Shear

Air Metal Shears Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	Blade	Cutting Capacity	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001201	2,800	3 pcs	Stainless steel : 1.0 mm Steel : 1.6 mm	9.84 (250)	2.66 (1.21)	29 (821)	3/8 (10)
001202	2,800	2 pcs	Stainless steel : 1.0 mm Steel : 1.6 mm	11.42 (290)	2.86 (1.30)	29 (821)	3/8 (10)

Air Cut Off Tool

- Ergonomic design for operator comfort.
- Wheel guard shields user from sparks and debris.
- Rear exhaust.
- Paddle trigger with safety.



001206
3 in. Air Cut Off Tool

Air Cut Off Tool Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	Wheel Size Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001206	22,000	3 (76)	7.09 (180)	1.76 (0.8)	29 (821)	3/8 (10)

Gear Driven Air Saw

- Gear drive mechanism provides unmatched cutting power compared to traditional piston driven air saws.
- Ergonomic design for operator comfort.
- Rear exhaust.
- Paddle trigger with safety.



*Includes 3 pcs blades – 6 in.x14T / 24T / 32T

001221
Gear Driven Air Saw

Gear Driven Air Saw Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Stroke Per Minute	Stroke Length Inch (mm)	Cutting Capacity (Steel)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001221	7,000	3/8 (10)	5.0 mm / 6 Gauge	12.2 (310)	3.08 (1.4)	29 (821)	3/8 (10)

Air Metal Shears

Air Cut Off Tool

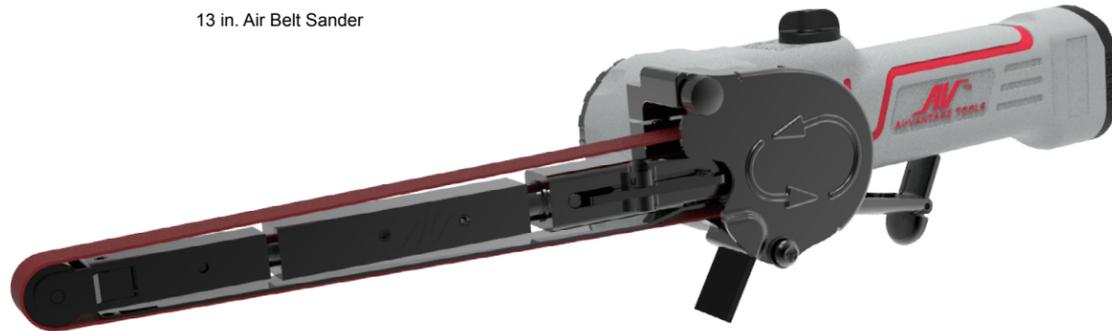
Gear Driven Air Saw

Air Belt Sanders

- Lightweight ergonomic design for operator comfort.
- Rotatable housing allows for use in a versatile range of tight spaces.
- Powerful .65 horsepower motor is excellent for collision repair applications.
- Adjustable speed.



001191
13 in. Air Belt Sander



001192
18 in. Air Belt Sander

Air Belt Sanders Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Belt Size Inch (mm)	Motor Speed (RPM)	Belt Speed SFPM (SMPM)	Motor hp (W)	Height Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)
001191	1/2 x 13 (13 x 330)	17,000	4100 (1250)	0.65 (485)	3.19 (81)	12.6 (320)	1.91 (0.87)	24 (680)
001192	1/2 x 18 (13 x 457)	17,000	4100 (1250)	0.65 (485)	3.19 (81)	14.9 (378)	2.02 (0.92)	24 (680)

Air Angle Orbital Sander

- Lightweight ergonomic design for operator comfort.
- Soft grip for increased comfort.
- Paddle trigger with safety.
- Rear exhaust.



001211
Air Angle Orbital Sander

Air Angle Orbital Sander Table of Specifications

Additional Specifications : Air Inlet Thread is 1/4 in. NPT.
* Air Flow / Consumption Specifications are @ 90 psig (6.2 bar)

Model Number	Free Speed (RPM)	PAD Dim. Inch (mm)	Orbit Inch (mm)	Length Inch (mm)	Product Net Weight Pound (kg)	Air Consumption SCFM (LPM)	Air Hose I.D. Inch (mm)
001211	7,500	1 3/16 (30)	1/8 (3.0)	6.70 (170)	1.54 (0.70)	29 (821)	3/8 (10)

Air Belt Sander

Air Angle Orbital Sander