



**BURR KING MFG. CO., INC**

1220 Tamara Lane

Warsaw, MO 65355

www.burrking.com

(660)438-8998 • Fax (660)438-8991

# MODEL 1051 INSTRUCTION MANUAL



Model 15110 Shown

## BURR KING MODEL 1051 TUBE FINISHER / SINGLE SPINDLE LATHE



**BURR KING MFG. CO., INC.**

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**(660) 438-8998 ♦ (800) 621-2748**

**FAX (660) 438-8991**

June, 2020

**Burr King Manufacturing Company, Inc. warrants the below product to be free of defects in material and workmanship. The period of warranty is 1 year (90 days for vibratory bowls of 20 quart and lesser volume) from the date of purchase. No warranty is provided for products that have been modified, abused, handled carelessly, where repairs have been made or attempted by others, or for freight damage. No warranty is provided for three phase electric motors, controllers, etc. when the motors, controllers are not protected by magnetic starters that were supplied and installed by Burr King Manufacturing Company, Inc. No other warranty, written or verbal is authorized by Burr King Manufacturing Company, Inc.**

During the warranty period Burr King Manufacturing Company, Inc (or its authorized suppliers or agents) will replace or repair the below product without charge if the product is found by Burr King Manufacturing Company, Inc. to be defective. To receive warranty services you must contact Burr King Manufacturing Company, Inc. and receive authorization for warranty service. Unless otherwise authorized by Burr King Manufacturing Company, Inc. Products (see \* below) must be returned to the factory to receive warranty service.

\*Motors, speed controllers, and certain other accessories are warranted by their respective manufacture. To receive warranty service on these items you must contact a brand label service center that supports the product in need of service. Burr King Manufacturing Company; Inc. will assist you in locating a service center.

**For the first thirty days after purchase, and when Burr King Manufacturing Company, Inc. authorizes warranty service, we will pay normal and necessary surface freight charges both ways (except for items in \*). After thirty days the customer is responsible for all freight charges. Where possible Burr King Manufacturing Company, Inc. may elect to make on site service and/or repairs necessary to return the product to serviceable condition.**

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To assure prompt warranty service it is necessary that you complete and return the below warranty information to Burr King Manufacturing Company, Inc. please **FAX** or **MAIL** at your convenience.

Product model: \_\_\_\_\_ Serial number: \_\_\_\_\_  
Date Purchased: \_\_\_\_\_ Purchased from: \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State/Prov: \_\_\_\_\_ Postal code \_\_\_\_\_

Your company name: \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State/Prov: \_\_\_\_\_ Postal code \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_  
Your name: \_\_\_\_\_ Title: \_\_\_\_\_

How did you learn about Burr King products?

Tradeshaw \_\_\_ Web \_\_\_ Industrial Distributor \_\_\_ Advertisement \_\_\_ Other \_\_\_\_\_ Which one: \_\_\_\_\_

What is the intended use of this product? \_\_\_\_\_

Please indicate the general work types performed at your company, check all that apply:

Fabrication \_\_\_ Machining \_\_\_ Casting \_\_\_ Molding \_\_\_ Welding \_\_\_ Finishing \_\_\_ Assembly \_\_\_ Research \_\_\_ Other \_\_\_

Please indicate the primary product focus of your company; check all that apply,

Aircraft/Missile \_\_\_ Automotive \_\_\_ Contract machine \_\_\_ Contract Fabrication \_\_\_ Agricultural \_\_\_ Maintenance \_\_\_ Recreational \_\_\_

Job shop \_\_\_ Foundry \_\_\_ Construction \_\_\_ Arts \_\_\_ Orthopedic \_\_\_ Dental \_\_\_ Medical \_\_\_ Other \_\_\_\_\_

Please tell us what we can do to improve our products:

\_\_\_\_\_  
\_\_\_\_\_

May we contact you? Yes \_\_\_ No \_\_\_

**Thank you for purchasing Burr King products!**

**REGISTER ONLINE @  
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October 21, 2020

## **LETTER OF AUTHENTICITY**

This letter is to certify that all Burr King Belt grinders, Disc grinders, Polishing machines Vibra King Chambers and Bowls are manufactured and assembled in the United States of America.

(Tariff number 847990 criterion A)

A handwritten signature in black ink, appearing to read "Don MacCarthy".

**Don MacCarthy**

President

# M1051 Important Safety Instructions OPERATOR, and OPERATING AREA SAFETY



**WARNING!**

WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE RISK OF FIRE, ELECTRIC SHOCK AND PERSONAL INJURY.

## **READ AND SAVE ALL INSTRUCTIONS FOR FUTURE REFERENCE**

Subject equipment includes Grinders, buffers, polishers, and other rotating equipment. Serious injury or death may occur if minimum safety precautions are not understood, and obeyed by operators and those other persons who may be in the immediate vicinity of the subject equipment. Persons who operate, or are in the immediate vicinity of the subject equipment must be properly trained in, and use, minimum safety precautions and procedures for such machinery.

### **1. READ ALL INSTRUCTIONS**

- Read and understand all operating instruction, manuals, labels, and other information provided with the equipment.

### **2. KEEP WORK AREA CLEAN**

- Cluttered areas and benches invite injuries.

### **3. CONSIDER WORK AREA ENVIRONMENT**

- Do Not expose power tools to rain
- Do Not use grinder in damp or wet locations.
- Keep work area well lit.
- Do Not use grinder in presence of flammable liquids or gases

### **4. GUARD AGAINST ELECTRICAL SHOCK**

- Prevent body contact with grounded surfaces. For example: pipes, radiators. Disconnect from power source when not in use. Never use if electrical cord is damaged or wet. Always keep electrical cords clear of rotating parts and belt while in motion. Electrical installation shall be in accordance with applicable codes and regulations.

### **5. KEEP CHILDREN AWAY**

- Do Not let visitors contact tool or cord
- All visitors should be kept away from work area

### **6. DRESS PROPERLY**

- Do Not wear loose clothing or jewelry.
- Non-Skid footwear is recommended when working with equipment.
- Wear protective hair coverings to contain long hair.
- Wear proper attire to protect eye, hand, face, arm, leg, feet and body that is adequate to protect against flying debris, forcibly ejected work pieces, broken abrasive belts, ect.

### **7. USE SAFETY GLASSES**

- Everyday eyewear does not feature impact resistance lenses, and they are NOT safety glasses

### **8. WEAR DUST MASK**

- Some dust created by grinding activities may contain chemicals known to cause cancer, birth defects or other harm. Provide adequate ventilation.

## **9. SPARK AND DEBRIS ARRESTING APPARATUS**

- To further reduce the exposure you may wish to connect an apparatus to the machine to contain dust and debris/spark arresting device to suppress sparks thereby limiting human inhalation risk, and risk of fire or explosion

## **10. KEEP ALL GUARDS IN PLACE AND PROPERLY ADJUSTED**

- Keep all guards in place and in working order.
- Do not reach inside the safety guards while the machine is running.
- Do not operate this machine if the gap (nip point) between a moving belt, wheel or disc and the work support surface exceeds 1/8 inch or 3.175 mm
- Never position the work rest table at an acute angle between the top of the work rest table and the moving belt or wheel. Doing so will create “nip point” that can cause serious injury should an operators body part become entangled (pulled into) the nip point created by this acute angle.
- Do not operate this machine if the gap between the moving abrasive belt, disc or wheel and the adjacent face of the work rest (or table) will permit passage of the work piece through the gap (nip point). Note, however, that certain alloys such as titanium may create conditions where grinding debris can accumulate in a tight gap creating a potential fire hazard. When in doubt consult with your safety officer. Failure to observe this warning may result in the work piece or other item being caught in this gap. And/or being forcibly ejected. Failure to heed this warning may cause serious bodily harm to the operator and/or bystanders. Never use this equipment if you are not properly trained in its operation and/or safe use. If in doubt stop and ask for guidance.

## **11. SECURE THE M1051**

- Bolt the machine securely to the stand or other stable surface to avoid tipping when unit is in operation.

## **12. BEFORE SERVICING**

- Disconnect the grinder from the power source.

## **13. NEVER LEAVE TOOL RUNNING UNATTENDED**

- Turn power off. Don't leave until the grinder comes to a complete stop.

## **14. DO NOT USE NEAR FLAMMABLE MATERIALS**

- Sparks from the grinder can cause fires.

## **15. HOLD MATERIAL TIGHTLY**

- Always hold the work piece firmly when grinding and apply steady pressure.
- Use work piece holding devices when ever possible that diminish the possibility that persons will come in contact with moving machine pieces, or spark/debris output from the machine.

## **16. DO NOT USE DAMAGED WHEELS**

- Wheels that show wear should be discarded.

## **17. USE WHEELS FROM RESPECTED WHEEL MANUFACTURES**

- Not all wheels are created equal. Wheels that are very inexpensive are usually manufactured cheaply.

## **18. KNOW WHAT YOUR GRINDING**

- Avoid mixing different metals, alloys, and materials. To mix such materials might create a fire or explosion hazard
- Exotic materials such as titanium, magnesium, and other chemically active materials will present fire and explosion hazards that if ignored can result in grave personal injury and/or property damage.
- Consult with your material supplier or other qualified expert regarding the materials on which you wish to work.

## **19. KEEP MACHINE MAINTAINED**

- Ensure wheels are in good condition and are free from damage. If damaged parts are found, immediately discontinue use of the machine and order replacement parts.
- Never perform maintenance on the machine with its electrical power source connected.

## **20. DO NOT USE STONE WHEELS**

- The use of stone or vitreous wheels on any Burr King grinder is prohibited. The machine guarding is not suitable for these types of wheels. To do so will create an operator safety hazard.

All Burr King products are warranted for various time periods to be free of material and/or workmanship defects. Burr King Manufacturing Companies standard warranty policy is summarized as follows for contact wheels. 1 year from date of purchase if mounted on a Burr King machine purchased on the same date or 90 days if purchased as a spare or replacement part. Our warranty does not apply to wheels that are mounted on products not manufactured by Burr King Manufacturing Company, Inc. Users who mount Burr King manufactured contact wheels on product not manufactured by Burr King Manufacturing Company, Inc. do so at their own risk and assume all liability for having so mounted the contact wheel(s).

Remember good safety practice demands guarding to protect operators and bystanders from wheel failure and/or debris. Never use the subject wheel without proper guarding that meets commonly accepted safe practice. See OSHA, U/L, CSA, CE, ISO and other respected safety standards.

## **21. OCCUPATIONAL NOISE EXPOSURE**

Burr King products produce levels of noise consistent with their intended purposes. The level and spectral content of noise produced is dependent on the product type, the degree that the product is maintained in proper operating condition, the abrasive/media and accessories used, the specific application, and the surrounding environment. Noise levels produced by various Burr King grinders and polishers, as measured at the Burr King factory, range from 80 to 93 decibels. Product operators and persons in the immediate product vicinity should be protected from excessive noise levels as prescribed in OSHA regulation 29, piece 1910.95 titled "Occupational Noise Exposure".

**ROTATING EQUIPMENT CAN BE DANGEROUS TO OPERATORS AND THOSE WHO MAY BE IN ITS IMMEDIATE OPERATING VICINITY. IT IS THE ABSOLUTE AND DIRECT RESPONSIBILITY OF PURCHASERS, MANAGERS, AND OPERATORS OF THIS EQUIPMENT TO UNDERSTAND AND OBEY THE FOREGOING MINIMUM OPERATING SAFETY REQUIREMENTS. IF YOU HAVE QUESTIONS OR SAFETY CONCERNS REGARDING OPERATING THE SUBJECT EQUIPMENT PLEASE CALL YOUR AUTHORIZED BURR KING DISTRIBUTOR, OR BURR KING MANUFACTURING AT 660-438-8998. YOUR SAFETY IS OUR FOREMOST CONCERN!**

**Burr King Manufacturing disclaims any and all responsibility for injuries, damage, loss of income, or other adverse consequence as might be incurred by purchasers, managers, and operators of this equipment.**

## **22. TRAINING**

- Do train operators and others in safe operating practices
- Post these instructions so they are available for future reference and new operators.



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June 2020

## **Operating instructions for the Model 1051 tube finisher**

The Model 1051 tube finisher is a single spindle finishing machine. It is designed to use nylon, flap, wire, and other finishing and/or de-burring wheels. Your Model 1051 may be fixed speed (single or three phase), or variable speed single phase depending on the configuration ordered. The Model 1051 has a 4" O.D. integrated dust collection adapter that will connect to a dust collection system with a recommended minimum capacity of 500 CFPM.

Stone, vitreous, or other type grinding wheels must not be used on the Model 1051. For maximum effectiveness, and operator safety use wheels manufactured by well-respected manufacturers.

- Use wheels that are the proper size and type for your machine.
- Do not use wheels that are old and/or excessively worn.
- Do not operate the finishing wheel in a reverse rotation. The spindle must rotate CCW when viewed from the right side (opposite of the motor).
- Do not exceed the maximum recommended wheel speed (see the manufacturer's instructions), or the 1725 RPM spindle speed for which your Model 1051 is designed to operate, whichever is less.
- Do not use your Model 1051 with the factory-supplied guards removed, or with the wheel guard door open.
- **Note that the 1051 machine can accommodate finishing wheels to 3.25 inches in width but never larger than 10 inches in diameter. When mounting a wheel on the machine adjust the position of the wheel in respect to the angle steel work support.**

**Prior to operating the Model 1051 please take time to do the following:**

1. Ensure that you have received all of the items that you ordered. Compare the packing slip with your purchase order, and of course with the physical items received.
2. Verify that there is no obvious shipping damage. If shipping damage is discovered notify the freight carrier of your intention to file a freight damage claim; they will assist you.
3. Verify that the AC power that is identified on the machine matches the AC power that you intend to operate the machine. Do not modify the Model 1051 wiring or other electrical controls without the advice of the factory or a competent electrician.
4. Do not modify or defeat any AC wiring safety feature. In example, do not remove the grounding pin on the AC plug.
5. Read the Operator, and Operating Area Safety Instructions carefully. Ensure that all persons who will operate the Model 1051, or who will work in the vicinity of the Model 1051 read, understand, and comply with these instructions.
6. Ensure that the Model 1051 is located in an area that provides safe access to the machine such that operators have clear and unobstructed working space. The workplace should be free from floor obstructions, trip points, and other faults that may reduce operator safety.
7. Ensure that the Model 1051 AC power source is properly sized for wire, and properly fused. All wiring, circuit breakers, fuses, and connections must conform to national electrical and local codes.



8. All three phase electrical installations must include a magnetic starter. Magnetic starters protect motors from “double phasing”, overheating, etc. thereby reducing the risk of damage to the equipment and/or fire hazard to your facility. Three phase motors are not warranted if used without a magnetic starter or other suitable device.

### Functional operating instructions for the Model 1051 Tube Finisher

The Model 1051 was fully tested and verified to comply with requirements prior to shipping from the factory. No adjustments should be necessary. You should perform the following steps:

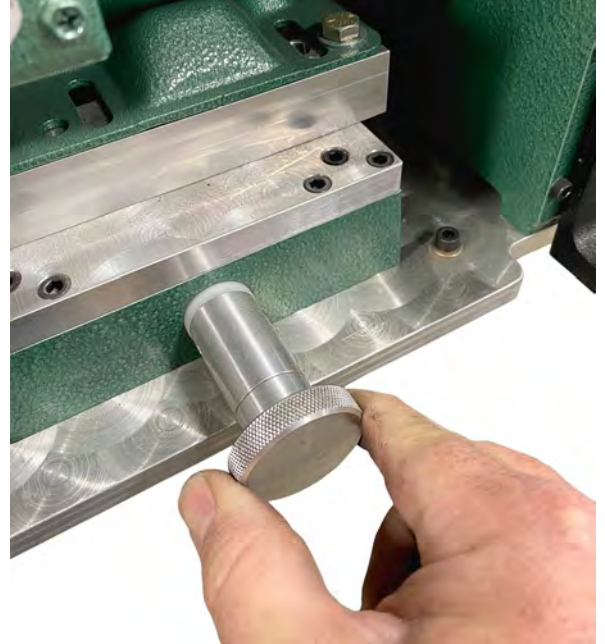
1. Machine securely bolted to its table, pedestal, and/or floor point connect the AC power to its source.
2. Ensure the wheels are firmly tightened to the spindle. A finishing wheel running in reverse rotation can unscrew from the spindle, creating a serious personnel safety hazard. Insure that the Model 1051 spindle operates CCW when viewed from the right side of the machine.
3. Engage the motor. The wheel should rotate smoothly in a CCW direction with the front face of the finishing wheel moving toward the floor. If either of these conditions are not met turn the machine OFF immediately.
4. If the Model 1051 runs in reverse direction you must correct this by changing the main drive motor rotation direction. **FIRST DISCONNECT THE MACHINE FROM ITS AC POWER SOURCE. A COMPETENT ELECTRICIAN SHOULD PERFORM ALL ELECTRICAL WORK ON THE MODEL 1050.**

If your Model 1051 is equipped with variable speed control the wheel speed can be adjusted using the speed control that will be mounted on the motor or on a separate control box.

### Operating instructions for the Model 1051 Tube Finisher

Prior to daily operation follow the steps listed below:

1. Verify the machine is in good working order. Check for unsafe conditions or damaged parts and repair or replace prior to operation. Tag out machine if any issues cannot be resolved.
2. Clean work area and machine. Start with a clean area around the machine.
3. Check brush for damage. Replace if needed.
4. Adjust safety shield over wheel and allow clearance for operation.
5. Using the knob on the base of the motor, adjust the wheel forward towards the tool rest. Make sure the brush has a gap no greater than a 1/8". Replace brush if the workrest cannot be adjusted within specifications. The M1051 has over two inches of forward travel.
6. Adjust the tool rest by loosening the lever and adjusting to centerline of wheel for general deburring operation. The tool rest has a flat support and a v-notched rest.



#### **TIP: Adjustment of the brush**

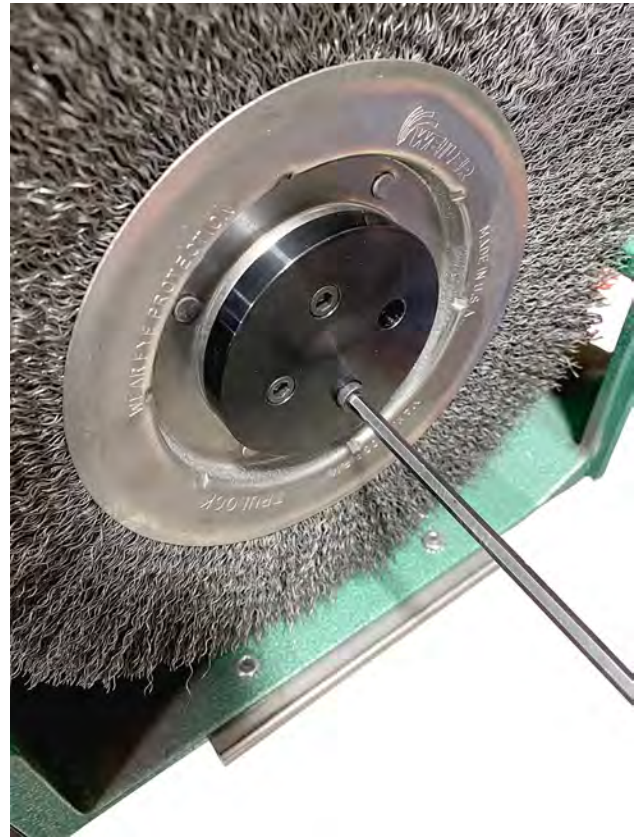
Your M1051 can accept wheels up to 10” in diameter and up to 3” in width. The machine has been designed with a tool free wheel adjustment to move the brush forward inside of the stationary wheel guard. The M1051 has two inches of free travel.



## Removal and Installation of brushes from your M1051

Your M1051 can accept wheels up to 10" in diameter and up to 3" in width. The machine has been designed to gang three, one inch wide wheels at a time. When installing three wheels together the width of the wheels are normally larger at the trim (outside diameter) of the wheel, and your machine will accommodate these wheels. The M1051 has a two inch arbor size with factory installed (and removable with a 5/32" hex key) 1/2" x 1/4" keyways. Standard wheels from manufacturers such as Weiler can be ordered with this configuration. The keyway allows for the wheel to be safely installed on the machine without causing damage to the brush by having to over tighten the wheel to maintain positive wheel drive.

If choosing to run widths that are narrower than 3" in combined width you will need to install wheel spacers. 1/2" wide wheel spacers are available from Burr King.



1. Unplug the machine from the power source. If your machine is hardwired it maybe necessary to tagout the machine while removing or installing the wheels.
2. Release the clamp on the top of the brush cover and lift the side cover plate from it's resting ledge.
3. Using a 3/16" hex key loosen the four cap head screws on the arbor cap. Remove the arbor cap.
4. Pull the wheels off of the arbor. Ganged wheels will normally slide off as one wheel since the filaments have intertwined during operation.
5. VERIFY the brush or the wheel does not exceed the Maximum Safe Free Speed (MSFS) as rated by the wheel manufacture. This is normally stamped on the flange of the wheel. MSFS (or RPM) is the maximum speed at which the brushes may be used safely but is not necessarily the optimum speed for a given application. Operating speed should be determined by the application.
6. Install the brush on to the spindle using the arbor cap and cap head hex screws.
7. Install the side cover plate and engage the latch.
8. Verify the correct cap and adjust so the gap is less than 1/8"
9. Spin brush by hand and check for interference and any foreign objects that maybe embedded in the brush surface.
10. Making sure the power switch is in the off position, plug the machine back in to the power source.
11. Making sure the area is clear in front and behind the machine, with no person in front or behind the wheel, run the wheel for 30-60 seconds. Check for vibration.
12. Turn off machine and verify the four hex head cap screws are tight and other adjustments are still proper. If no deficiencies are found return machine to service.



### **TIP: Self-Sharpening of Wire Wheel Brushes**

When using wire wheel brushes without knots, periodically reverse the direction of rotation to take advantage of the self-sharpening action that will result. Remove the brush from the arbor, flip the brush 180° and remount the brush securely. \*



### **TIP: Pressure**

Avoid excessive pressure when using a wire brush. Excessive pressure causes over-bending of the filaments and heat build-up resulting in filament breakage, rapid dulling and reduced brush life. Instead of greater pressure, try a brush with more aggressive action (increase filament diameter, decrease trim length, different brush type, i.e.: knot type instead of crimped type. \*

### **Maintenance**

**FIRST DISCONNECT THE MACHINE FROM ITS AC POWER SOURCE.**

- Vacuum or otherwise remove dust and debris build-up regularly from the machine.
- Check hex head bolts on arbor cap for tightness
- Check brush for damage and wear

There are no other maintenance actions required. All bearings are sealed for life and require no lubrication.

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### **Remember for operator safety and the continued effectiveness of your Model 1051:**

**Do not defeat the safety guards and other safety provisions of the Model 1051.**

**Do not reach inside the safety guards while the machine is running. To do so is hazardous.**

**Do not use fluids in your finishing process unless your Model 1051 is designed for liquid operation (NEMA 4, 4X). To do so may create an electrical safety hazard.**

**Do not use your Model 1051 to polish explosive materials unless it is equipped with explosion proof electrical devices and motor.**

**Do not use stone or vitreous wheels on the Model 1051. To do so will create an operator safety hazard.**

**Do use eye, hand, face, arm, leg, feet and body protection that is adequate to protect against flying debris, forcibly ejected work pieces, etc.**

**Do use ear protection and a dust/particle mask.**

**Do not wear loose fitting clothing that might become entangled in the rotating wheels, or shafts.**

**Do train operators and others in safe operating practices.**

**Do not touch rotating brushes,wheels,etc..**

### **Additional safety warnings for the M1051 machine:**

**Danger: A gap (nip point) exists between the face of the finishing wheel and the steel work support. This gap is necessary for the operation of the machine; however, it does create a nip point that can cause serious bodily injury. KEEP CLEAR OF THIS GAP.**

**Wire wheels can and do shed wire particles that can puncture skin and other body tissue. Never operate this machine without using proper personnel protection. Consult with your safety officer!**

**Post these or equivalent instructions such they are available for ready operator reference.**

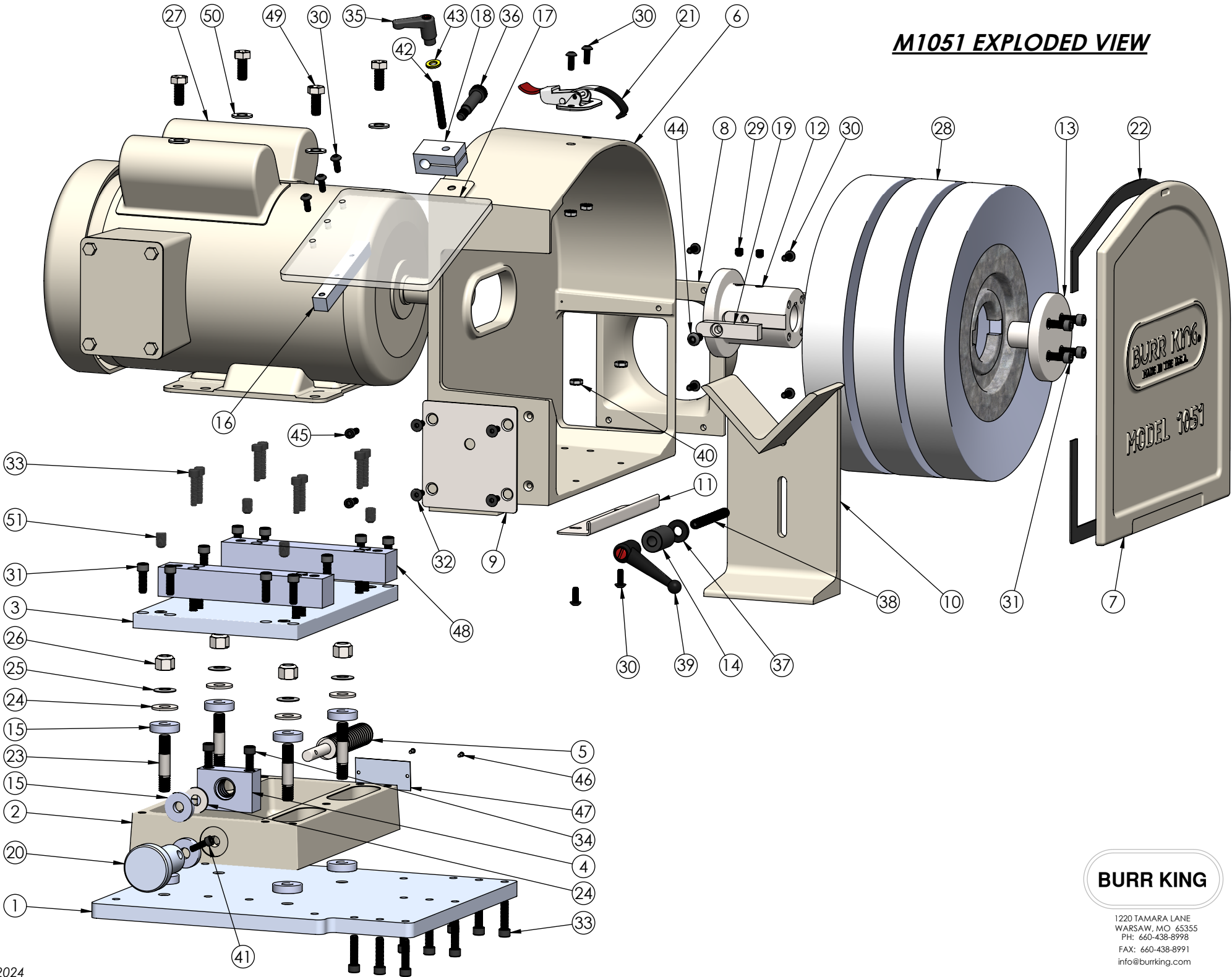
For spare parts, or other assistance contact your Burr King distributor; or, contact Burr King Manufacturing at 660-438-8998.

# Troubleshooting Guide Wire Brushes from Weiler Brush \*

<i>Problem</i>	<i>Recommended Solutions</i>
Brush works too fast	<ul style="list-style-type: none"> <li>• Select a brush with longer filaments and/or lower fill density</li> <li>• Select a brush with a smaller diameter wire</li> <li>• Select a brush with a narrower face and/or lower fill density</li> <li>• Select a brush with a smaller outside diameter</li> <li>• Operate the brush at a slower RPM</li> </ul>
Brush works too slowly	<ul style="list-style-type: none"> <li>• Select a brush with shorter filaments and/or higher fill density</li> <li>• Select a brush with a larger diameter wire</li> <li>• Select a brush with a wider face and/or higher fill density</li> <li>• Select a brush with a larger outside diameter</li> <li>• Operate the brush at a faster RPM</li> </ul>
Brushing action rolls or peens the burr over	<ul style="list-style-type: none"> <li>• Select a brush with a larger diameter wire</li> <li>• Select a brush with shorter filaments and/or higher fill density</li> <li>• Operate the brush at a faster RPM</li> <li>• Replace the crimped wire brush with a knot wire brush</li> </ul>
Finer final finish required	<ul style="list-style-type: none"> <li>• Select a brush with longer filaments</li> <li>• Select a brush with a smaller diameter wire</li> <li>• Operate the brush at a higher RPM</li> <li>• Replace the wire brush with a nylon abrasive brush (Nylox®)</li> </ul>
Coarser final finish required	<ul style="list-style-type: none"> <li>• Select a brush with shorter filaments</li> <li>• Select a brush with a larger diameter wire</li> <li>• Operate the brush at a slower RPM</li> </ul>
Non-uniform brushing action	<ul style="list-style-type: none"> <li>• Select a brush with longer filaments</li> <li>• Select a brush with a larger diameter wire</li> <li>• Automate the operation to reduce human variables</li> </ul>
Filaments break off	<ul style="list-style-type: none"> <li>• Reduce applied pressure or engagement</li> <li>• Select a brush with a smaller diameter wire</li> <li>• Select a brush with a lower fill density</li> </ul>
Short brush life	<ul style="list-style-type: none"> <li>• Reduce applied pressure or engagement</li> <li>• Select a brush with a smaller diameter wire</li> <li>• Select a brush with a higher fill density</li> </ul>

\* Weiler Brush catalog Third Edition

**M1051 EXPLODED VIEW**



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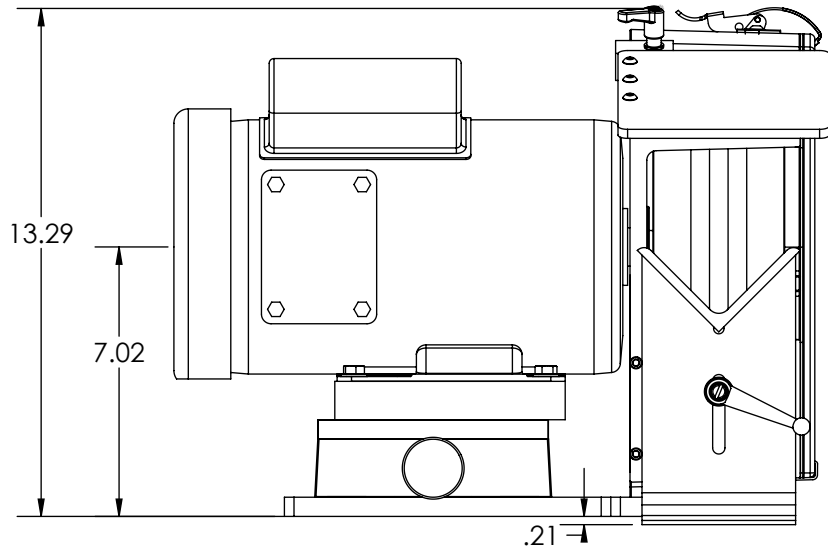
## M1051 PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	105101	BASE-MAIN	1
2	105102	SLIDE-MOTOR BASE	1
3	105103	BASE-MOTOR	1
4	105104	NUT-ADJUSTER	1
5	105105	SCREW-ADJUSTER	1
6	105106	GUARD,WHEEL	1
7	105107	DOOR-WHEEL GUARD	1
8	105108	CHUTE-DUST 4"	1
9	105109	PLATE-WEAR	1
10	105110	WORKREST-REVERSIBLE	1
11	105111	RETAINER-DOOR	1
12	105112-1	ARBOR-WHEEL 7/8 x 2	1
13	105113-1	CAP-ARBOR 7/8	1
14	105114	SPACER-CLAMP	1
15	105115	SLIDE-N-GLIDE	10
16	105117	MOUNT-SHIELD	1
17	105118	SHIELD-SCATTER	1
18	105119	CLAMP/SWIVEL	1
19	105120	KEY-ARBOR	2
20	105121	KNOB-ADJUSTING	1
21	105122	LATCH-DOOR	1
22	NEOP-PAD-1	SEAL-DOOR	1
23	920K	STUD 3/8"x 1.93", DOUBLE	4
24	5-0023	WASHER-FLAT 5/16 USS	5
25	5020-4	SPRING-BELLEVILLE	4
26	22	NUT-NYLOCK 3/8-24	4

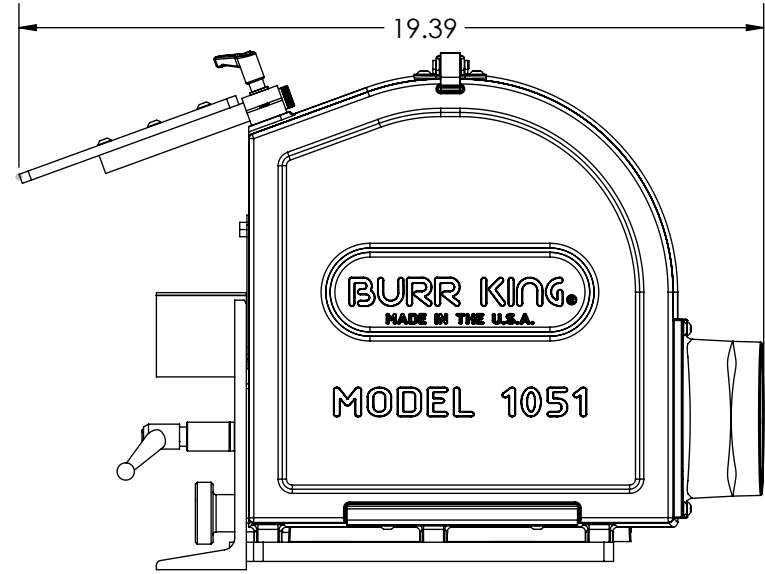
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
27	145T	MOTOR-CALL FACTORY	1
28	WW-31	WHEEL-WIRE 10 x 1	3
29	7-0068	SET SCREW 1/4-28 x 1/4 FP	6
30	9	BHSHCS 10-24 X 1/2	11
31	209	SHCS 1/4-20 X 3/4	14
32	7-0055	10-24 x 1/2 FHSHCS	4
33	30	SHCS 1/4-20 X 1	17
34	31	SHCS 1/4-20 X 1 1/4	2
35	7-0052	LOCK HANDLE-SMALL	1
36	2-0063	3/8 x 1 SHOULDER SCREW	1
37	7-0045	WASHER-HARD 5/16	1
38	921A-1	SET SCREW 5/16-18x2 3/4 CP	1
39	1203	HANDLE,LEVER 5/16-18	1
40	14	NUT, 10-24 KEP	4
41	13	SHCS 10-24 x 3/4	1
42	7-0069	SET SCREW 1/4-20 x 1 3/4 CP	1
43	5	WASHER 1/4 AN960-416	1
44	2-0028	BHSHCS 1/4-28 x 1/2	2
45	2-0052	10-24 x 1/2 SHCS	2
46	28	SCREW, DRIVE, #2 x 1/4	2
47	LABEL 20	BK S/N PLATE	1
48	105123	ADAPTER-MOTOR SF	2
49	37	CAPSCREW 5/16-18 X 3/4	4
50	4	WASHER 5/16 SAE	4
51	7-0072	SET SCREW 3/8-24 x 3/8 CP	4

\*\* 105124 - 1/2" WHEEL SPACER FOR RUNNING LESS THAN 3" \*\*

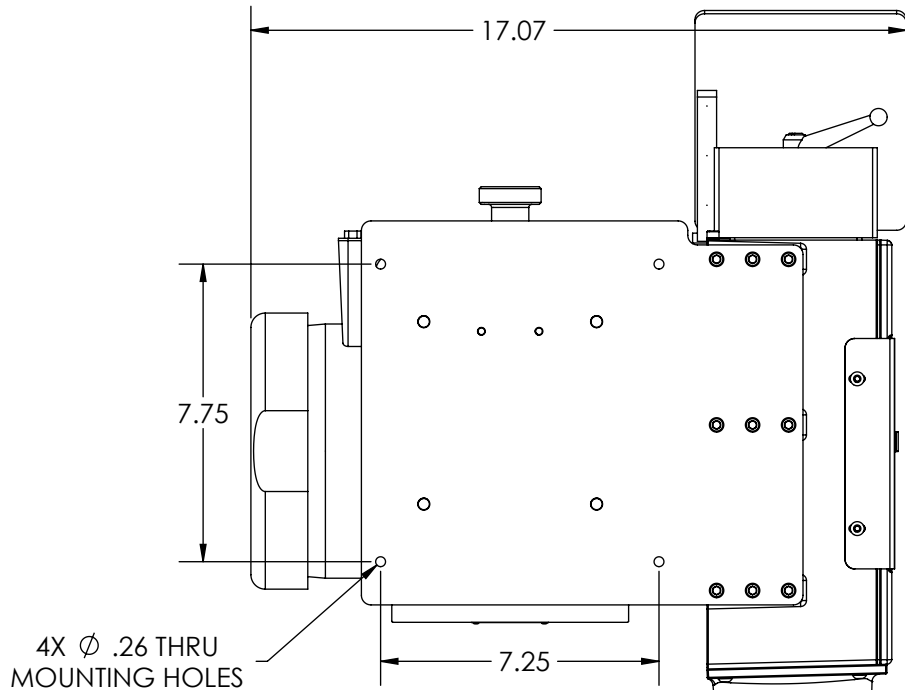
# M1051 FOOTPRINT



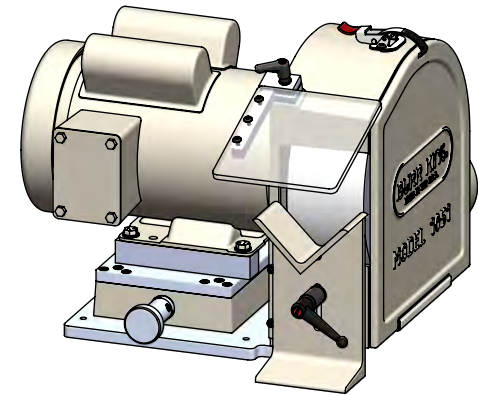
**FRONT VIEW**



**R.H. VIEW**



**BOTTOM VIEW**



1220 TAMARA LANE  
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FAX: 660-438-8991  
E-MAIL: info@burrking.com



*New Design*

**BURR KING®**

# MODEL 1051 TUBE FINISHER

- New Design in 2020 - Now Available
- Deburr & Finish Pipe, Profile and Flat Pieces
- 10" Diameter up to 3" Wide
- Reversible/Adjustable Steel Workrest
- 4" Discharge Dust Outlet
- Available up to 5 HP 3 phase
- Fixed and Variable Speed Models Available
- Cast & Billet Aluminum Construction
- Multiple Wheel Options
- Bench or Pedestal Mounted
- Cell Manufacturing Friendly
- 2" of Wheel Adjustment
- Maintenance Free Adjustment Mechanism
- Adjustable Polycarbonate Scatter Shield
- American designed and manufactured in Warsaw, Missouri

The Model 1051 joins Burr King's full line of polishing lathes that are fully capable for deburring and polishing. The Model 1051 was designed from the ground up to run wire brushes up to 10" in diameter and up to 3" wide. Deburr and finish round pipe, square tube, profile extrusions and flat pieces with ease.

**THE MODEL 1051 OFFERS DEBURRING & FINISHING OF PIPE, EXTRUSIONS AND FLAT MATERIAL. IT OFFERS UNMATCHED PRODUCT RELIABILITY BACKED BY BURR KING'S PROMISE PERFORMANCE AND DEPENDABILITY.**

M10511  
Shown on  
optional O2-10  
Adjustable Pedestal  
Wire wheels  
sold separately



e-catalog

Click or Scan  
the QR Codes  
for more  
information



Instructions





*New Design*

# MODEL 1051 TUBE FINISHER

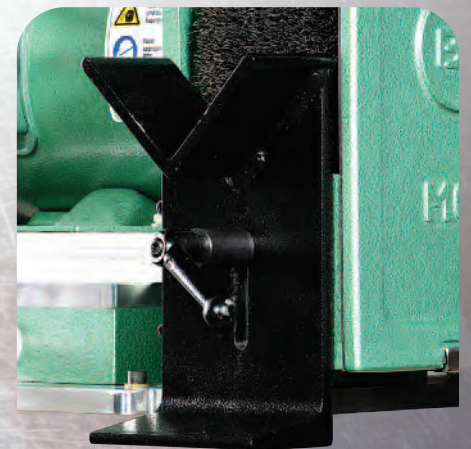


Easily mount a wide variety of wheels up to 3" wide. The side door is a hingeless design with only a single clip for access to the wheel.



M1051 Tube Finisher is available in multiple voltage and horsepower configurations. The M1051 can also be equipped with variable speed and RapidStop Braking™

- Versatile
- Reliable
- Powerful
- Smooth
- Heavy Duty



## STEEL WORKREST

The M1051 features a reversible and adjustable steel workrest. The "V" shaped workrest is well suited for round pipe, square tube or extruded pieces. The flat workrest allows for mounting of fixtures or for deburring flat pieces.

### 1051 DEBURRING MACHINE SPECIFICATIONS

For optional features & specifications consult factory

Wheel Diameter & Width	10" x 3" max
Horsepower	1-1/2 HP to 5 HP
Voltage	120 Volt Single Phase - 575 Volt Three Phase
Power Cord	Included - Single Phase Machines Only
RPM	Fixed and Variable Speed Models
Scatter Shield	Yes
Construction	Cast & Billet Aluminum
Bench or Pedestal Mount	Yes - Optional Pedestal
Estimated Shipping Weight	85? lbs - M1051 Only
Discharge Chute	Yes - 4" I.D.
Base Area	10" W x 14" D
Overall Height x Width	12.5" H x 16" W X 16" D