Serial number 4009 or greater

Parts Page Reorder No. PD14.06 Effective February 2014

36"x60" Metal Capture Downdraft Table

Tool Manual - Safety, Operation and Maintenance

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Model Number	Motor hp	Voltage	Frequency	FLA	Phase	Air Flow	Sound Level	Working Area Width	Working Area Length	Height	Exhaust	Shipping Weight
64372	3	380	50 Hz	4.3	3	1800 CFM	85 dB(A)	36"	60"	37"	Down	700 lbs
64373	3	380	50 Hz	4.3	3	1800 CFM	85 dB(A)	36"	60"	37"	Up	700 lbs
64374	3	380	50 Hz	4.3	3	1800 CFM	85 dB(A)	36"	60''	37"	Side	700 lbs
64400	3	230	60 Hz	7.2	3	1800 CFM	85 dB(A)	36"	60''	37"	Down	700 lbs
64401	3	460	60 Hz	3.6	3	1800 CFM	85 dB(A)	36"	60''	37"	Down	700 lbs
64402	3	230	60 Hz	7.2	3	1800 CFM	85 dB(A)	36"	60''	37"	Up	700 lbs
64403	3	460	60 Hz	3.6	3	1800 CFM	85 dB(A)	36"	60''	37"	Up	700 lbs
64404	3	230	60 Hz	7.2	3	1800 CFM	85 dB(A)	36"	60''	37"	Side	700 lbs
64405	3	460	60 Hz	3.6	3	1800 CFM	85 dB(A)	36"	60''	37"	Side	700 lbs

CONTENTS

MODEL SPECIFICATIONS	COVER
DESCRIPTION	3
	3
FORESEEABLE MISUSE	3
IMPORTANT SAFETY INSTRUCTIONS	4
INSTRUCTIONS FOR USE	7
Machine Setup	7
Shield Installation	6
Machine Operation	6
Maintenance	6
Maintenance Schedule	17
Trouble Shooting	
DIMENSIONS	24
PARTS	25
SCHEMATIC	
WARRANTY	

DESCRIPTION

The Metal Capture Downdraft Table is a worktable with a downdraft of air through the work surface used to collect metal dust from grinding or sanding operations. Downdraft air flow is created by an electric motor driven impeller. The dust is separated from the airflow by entrainment in water droplets in a turbulent air and water interface and then settles in the base of the worktable. Cleaned air exits through the impeller exhaust.

INTENDED USE

The Metal Capture Downdraft Table is for industrial indoor use by trained operators who are grinding or sanding either aluminum or titanium or steel work pieces. It is to be used with a pneumatic abrasive tool controlled by the Metal Capture Downdraft Table's interlocking system to prevent abrasive tool operation until the downdraft air flow is established. Set-up, maintenance and troubleshooting must be done by trained industrial technicians who have read and understood this manual.

FORESEEABLE MISUSE

Set up or troubleshooting by unqualified technicians or without consulting this manual.

Use outdoors or in wet conditions.

Use by untrained or unauthorized operators.

Grinding unapproved materials.

Collecting chemical fumes.

Bypassing the pneumatic interlock and grinding on the work surface when the machine is off. Neglecting maintenance.

Allowing fugitive dust to accumulate more than 1/32" thick.

Blocking exhaust or impeding vents.

IMPORTANT SAFETY INSTRUCTIONS

READ ALL PARTS OF THIS MANUAL CAREFULLY BEFORE USE KEEP FOR FUTURE REFERENCE

Definitions

DANGER - Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING - Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION - Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

Machine set up

- WARNING: Death or serious injury can occur from crushing if machine tips or falls when lifting machine from shipping pallet. Center of mass location is found on dimensions diagram on page 24. Lift truck forks must be inserted minimum 12 inches (300mm) past the center of mass.
- 2. **WARNING**: Death or serious injury can occur from crushing if machine tips or falls when installing and leveling casters. Lift machine maximum 12 inches from ground to allow caster installation or leveling. Support machine with stable blocking to prevent tipping.
- 3. **WARNING**: Death or serious injury can occur from electrocution or arc flash if incorrect connections are made when connecting electric power. Connections must be made by trained industrial technicians or electricians only.

- 4. **WARNING**: Death or serious injury can occur from electrocution or arc flash if incorrect connections are made when connecting electric power. Connections must be made by trained industrial technicians or electricians only.
- 5. **WARNING**: Death or serious injury can occur from electrocution or arc flash if electric cord is damaged. Do not pull cord or use cord to move machine.
- 6. **CAUTION**: Injury from slip or fall is possible if water overflows from machine during unattended filling. Do not leave machine unattended when filling.
- 7. **CAUTION**: Injury from impact is possible from air hose or fitting failure when connecting compressed air lines.
 - a. Do not exceed 90 PSI.
 - b. Fitting must be prevented from rotating when connecting air line. Use wrench on fittings.
 - c. Connections must be made by trained industrial technicians.

Shield Installation

1. **CAUTION**: Injury from crushing or cutting is possible if hands or fingers are caught under work surface or shields during installation. Keep hands and fingers clear during installation of work surfaces or shields.

Machine Operation

- 1. **WARNING**: Death or serious injury can occur from dust deflagration if hazardous amounts of fugitive dust are allowed to accumulate. Stop operation and clean machine and surrounding areas if dust layer exceeds 1/32".
- 2. **WARNING**: Death or serious injury can occur from dust deflagration if unapproved materials are collected, e.g., not approved for collecting magnesium dust.
- 3. **WARNING**: Death or serious injury can occur from dust deflagration if more than one approved materials is collected without first cleaning the machine out, e.g., grinding aluminum and then steel without first cleaning out the aluminum from the machine.
- 4. **WARNING**: Death or serious injury can occur from hydrogen gas deflagration if vents are blocked and hydrogen gas is trapped. Keep minimum 3 feet of clearance from the back and sides of the machine.

- 5. **CAUTION**: Injury from cutting is possible if abrasive pneumatic tool starts unexpectedly. Only use tools with a safety throttle lever.
- 6. **CAUTION**: Permanent hearing loss is possible if exposure to sound exceeds the limits of Federal, State or local statutes, ordinances and/or regulations. Wear hearing protection.
- 7. **CAUTION**: Eye injury from grinding particles is possible when using abrasive power tools. Eye protection conforming to ANSI Z87.1 must be worn at all times.

<u>Maintenance</u>

- 1. **WARNING**: Death or serious injury can occur from deflagration or explosion if waste grinding sludge is not mixed with inert material in a 5:1 ratio for storage in open container. Sludge can release flammable hydrogen gas.
- 2. **WARNING**: Drowning or serious injury can occur from falling into machine. Use caution when accessing inside of machine.
- 3. **CAUTION**: Injury from slip or fall is possible if floor is wet.
- 4. **CAUTION**: Injury from entanglement is possible if machine is operated without v-belt guard. Always install guards before use.

Troubleshooting

1. **DANGER**: Death or serious injury will occur from electrocution or arc flash after direct or indirect contact with live parts. Disconnect electric power before accessing controls.

INSTRUCTIONS FOR USE – Machine Setup

The 64400 Series Metal Capture Downdraft Table will be pallet shipped to its destination. The following details will describe the steps required for initial machine setup before operation. Read through the entire setup procedure to understand its requirements before trying to run machine.

Warning:

Failure to follow the required steps for machine setup may result in damage to machine or personal injury.





INSTRUCTIONS FOR USE - Machine Setup



INSTRUCTIONS FOR USE - Machine Setup



INSTRUCTIONS FOR USE - Machine Setup

	WARNING: It is also important to recognize when wiring your machine, proper rotation of the impeller is essential for operation. Before turning machine on, remove the access covers and mist traps from the machine, giving access to a view of the inlet ring and impeller assembly. Start machine temporarily to confirm direction of rotation. Impeller should rotate in a clockwise direction viewed from the front of the machine as shown. If impeller is rotating counter-clockwise, unplug power and interchange any two of the main power leads from the 3 phase supply.
	Located at the front of the machine is an emergency overflow outlet. The machine is shipped with a plug which must be removed before operating. The plug should only be used for transporting a water filled machine from work center to work center, preventing splash out during transfer. The ½" female NPT emergency outlet provided was designed to allow water to drain from tank if desired run level was to become too high. A hose to a local floor drain is recommended.
BACK OF CONTROL BOX FRONT OF CONTROL BOX INFOL BOX AIR SOURCE	The machine is provided with a pneumatic interlock. The interlock will only provide air to the working tool after the machine has reached optimal run speed. Air source: 1⁄2" NPT fitting To Tool: 1⁄2" NPT fitting Maximum air pressure: 90 psi Maximum airflow: 95 SCFM

INSTRUCTIONS FOR USE - Shield Installation



INSTRUCTIONS FOR USE - Machine Operation



2

Once the green pilot light glows constant, you can then turn on the machine.

Press and release the "Start" button. The machines impeller will reach its optimal operating speed in approximately 5 seconds and air filtration will begin. You can now begin to grind your work piece.

The direction of grind is very important to maximum dust collection and reduce fugitive dust. Be sure to manipulate both your work piece and tool to insure that the table is capturing the highest percentage of dust.

Always direct grind towards shielding for maximum capture rate.

NOTE: The machine is provided with a pneumatic interlock. The interlock will only provide air to the working tool after the machine has reached optimal run speed.





7	In addition to the base of the tank and the collection trays, you must also make sure that the drain tube is clear of any debris as well. Remove access panel and mist trap to locate and allow access to the drain tube as shown at the arrow in the detail.
	As shown in this section view, the drain tube is located at the rear of the assembly.
9	Use a rigid tool of choice to slide through the ID of the tube, making sure there is no build- up of any kind.
	After 180 days of use Inspect the V-belt and replace if worn or damaged.

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INSTRUCTIONS FOR USE – Maintenance Schedule

Maintenance Schedule	Daily	Every 30 Days of use	Every 180 Days of use
Check Water Level	~		
Remove sludge from collection tank	~		
Remove any accumulated dust	~		
Rinse mist traps with clean water	~		
Replace water in collection tank		~	
Inspect mist traps		~	
Inspect V-Belt			~
Clean Sensor Faces	~		

Check Water Level:

Insure that water in main collection tank is at the proper height before beginning operation of machine.

Remove sludge from Collection Tank:

Sludge should be transported in a covered, vented steel container for storage or disposal in accordance with federal, state and local regulations- sludge containing aluminum should be mixed with inert material (dry clay) in the ratio 5 parts inert material to 1 part sludge.

Remove any accumulated dust:

Inspect the Metal Capture Station or Table exhaust vent, internal and external surfaces and surrounding work area for any fugitive dust accumulation exceeding 1/32" thickness- remove with non-sparking, conductive dustpans and natural bristle brushes.

Rinse Mist traps with clean water:

Remove mist traps from Metal Capture Station or Table and rinse with clean water to remove any trapped sludge or debris. Once clean re-install mist traps before operation of machine.

Replace water in collection tank:

Replace the water in the collection tank with clean water-Dispose of used water in accordance with federal, state and local regulations.

Inspect Mist Traps:

Inspect mist traps for signs of corrosion or damage. Replace if any corrosion or damage is found.

Inspect V-Belt:

Inspect V-Belt and replace if worn or damaged

Clean Sensor Faces:

Located in the isolation chamber, open lid and use a damp cloth to clean the face of each sensor, removing any grind build-up or foreign debris that has accumulated.



Ready to Start:

After plugging your machine in, proceed to move the lockout disconnect lever to the on position, providing power to the machine and sensory controls. Once power has been provided, the green pilot light will start a flashing sequence for a 15 second setup stage. Be aware, you will not be able to power up the machine during this flashing stage. Once the green pilot light illuminates solid, you can then power up the machine.

Fault





If reset is required, proper water height is not being sensed. Check to make sure that water source is providing sufficient supply. Water level sensors may also require cleaning. Refer to manual on proper care and maintenance of machine. If machine continues to shut down, consult factory for further assistance.

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The red pilot light is used to signal different fault messages, depending upon its flash pattern.

A) Flash Pattern 1:

"ON" 3 seconds, "Off" 3 second:

During the above *Ready to Start* mode, the machine will allow the solenoid valve to open and fill the machine for a maximum of 10-minutes. If the *Ready to Start* sensor is not met in this 10-minute window, the machine will go into lockdown and will require a reset. Press the reset button briefly and then release. At this time, the machine will go back to the *Ready to Start* mode as indicated above.

B) Flash Pattern 2:

"ON" 1 second, "Off" 1 second:

Indicates that the machine has shut down. The water level is not sufficient in the run mode and the auto-fill has attempted to reach proper water level but has failed.

The machine will now require a reset. Press the reset button briefly and then release. At this time, the machine will go back to the **Ready to Start** mode as indicated above.

C) Flash Pattern 3:

"ON" $\frac{1}{2}$ second. " Off" $\frac{1}{2}$ second:

Indicates that the machine has shut down. The water level is too high during run mode. The machines water level should be manually emptied back down to the proper depth indicated by the full tab. Clean off all liquid level sensors to ensure proper read of water level.

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Fault	E) Flash Pattern 4:
	"ON" 5 second, "Off" 1 second: A motor overload will shut down the system and trigger this flashing sequence. At this time, a qualified electrician should determine why the motor overload was tripped and use of the machine should be stopped until the cause of overload is determined.
	 If your flash pattern indicates that there has been a motor overload, a reset button has been provided to bring your overload back to start mode. Possible Causes of motor overload: Too frequent start-stop: Limit start interval to once every 5 minutes Motor/Fan Bearing Failure Low water level: Check auto level system Impeller rotation Backwards: Should rotate clockwise from front of machine
	Too frequent Start-Stop: Starting and stopping your machine multiple times in under a 5min window of time is generally the main cause for a system motor overload trip. Limit the start- stop of your machine in this range, as the overload requires a cool down period after each start.

Metal Capture System Water Level Sensor Function and Adjustment

1. Water Level Sensors



2. Sensor Function

Water level with the blower off should be in the center of the Start-Up Sensor. Water level with the blower on should be in the center of the Run Sensor. Excessive water level is indicated by the High Water Sensor. Sensors will signal the control system to add water or to shut down the Metal Capture system and indicate a fault.



3. Sensor Adjustment

The water level sensors' sensitivity is adjusted to signal the presence of water.

- Whenever power is connected to the system, the green LEDs on all the sensors will be illuminated.
- Yellow LED on indicates water is sensed.
- Turn 1/16" slotted brass adjustment screw clockwise to increase sensitivity (lower water level) and counter clockwise to decrease sensitivity (raise water level).



• Adjustment screw driver (1/16").



Sensor adjustment con't

If the Water Indicator is illuminated (A), adjust the sensitivity screw counter-clockwise until the Water Indicator LED turns off (B). Continue by turning the Sensor Adjustment Screw one full rotation in the clockwise direction (C). Water Indicator LED will now be illuminated.

 A
 B
 C



If the Water Indicator is not illuminated (A), adjust the Sensor Adjustment Screw clockwise until the Water Indicator LED turns on (B). Continue by turning the Sensor Adjustment Screw one full rotation in the clockwise direction (C). Water Indicator LED will remain illuminated.

 A
 B
 C



4. Sensor Height Adjustment

- Sensor height can be adjusted 1/8" by rotating the sensor bulkhead.
- Locator slot indicates mid-height when horizontal.
- With power disconnected and water drained below bulkhead level, loosen bulkhead nut and rotate bulkhead to increase or decrease sensor height. Re-tighten nut, add water and check for leaks before re-connecting power.



DIMENSIONS



PARTS



PARTS

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	BULKHEAD NUT BEARING SUPPORT HUB	BULKHEAD NUT		1/4-20 x 3/8" BHCS	BULKHEAD GASKET	SENSOR BULKHEAD	36-10 X 5/6 HEA HEAD BULL, ZINC		14-20 V 1/2" RHMS/INTERNAL LOCK WASHED	81 ID X 1" OD X.080 THK FENDER WASHER	SWIVEL CASTER	RIGID CASTER	BOLT DOWN SWIVEL MOUNT	3/8 FLAT WASHER, ZINC				MORE SIDE CASKET LONG	WORK SHEF GASKET SHORT	1/2" LOCK NUT	1/2" SEALING RING	Liquid Level Sensor	1/2" SEALING RING	1/2" LOCK NUT	90 DEGREE ELBOW	VEMA L15-20, MALE PLUG, 250 VAC, 20 Amp	CORD, 12/4 SEOOW	DESCRIPTION PLATE, COMPANY LOGO	WARNING LABEL, EYE PROTECTION	WARNING LABEL, MAGNESIUM	DESCRIPTIVE PLATE, ELECTRICAL DATA	ADHESIVE LABEL, 230VOLTS	ADHESIVE LABEL, 3 PHASE	QUICK LOCK MALE	QUICK LOCK RETAINER	REMOVABLE WORK SURFACE	IMPELLER SCROLL	ACCESS PANNEL	EXHAUST GRILL	IMPELLER MOUNT PLATE	Lower Bearing Arm	HHCS 3/8"-16 Thread, 1-1/2" Length	3/8" HEX NUT	5/16 WASHER	3/8 LOCK WASHER	X0032 EP MOTOR, 3HP, 3600 RPM	Hex Head Cap Screw 5/8"-11	HHCS 5/8"-11 Thread, 8-1/2" Length	Flat Washer SAE, 5/8"	MOTOR MOUNT SPACER	MOTOR MOUNT PLATE	1/8" ALUMINUM BLIND POP RIVET	QUICK LOCK RECEPTACLE	10-32 X 1/2 FSHCS	HYD. RELEASE DOOR	MOUNTING CLIP, RIGHT	MOUNTING CLIP, LEFT	
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1 1	1/4-20 HEX NUT 1/2-13 JAM NUT	1/4-20 HEX NUT		LOCK-DOWN KNOB	SEALING COMPOUND	DAM PACKING FIBER	AGOT ANOBS- REID# DA-12/	הייניים מחוברה		LEFT SIDE SHIELD	BACK SHIELD	3/4" CONDUIT	Foam Gasket	Foam Gasket		3/4 FEMALE GHT TO 1/4" MALE NET SVEVEL			45 DEGREE EI ROW	3/4 x 1 3/8" NPT NIPPLE	90 DEGREE ELBOW	ENY SEALING FITTING	COLLECTION PAN, REAR	COLLECTION PAN, FRONT	Conduit Hanger	1/2" SEALING RING	Through-Wall Cplg for 1/2" Tube OD X 1/2" NPT	External-Tooth Lock Washer 1"	10-32 x 3/8" BHSCS	#10 WASHER	10-32 LOCKNUT	ISOLATION CHAMBER	IC LID	Hex Head Cap Screw 5/16"-24 Thread, 2-1/4"	Nylon-Insert Hex Locknut 5/16"-24	QUICK CONNECT 90°, 3/8 OD TUBE X 1/4" NPT	REDUCER, 1/2 NPT MALE TO 1/4 NPT MALE	SOLENOID VALVE	3-WAY SOLENOID VALVE	COIL CONNECTOR	.50 NPT BREATHER VENT	.50 NPT QUICK CONNECT, 90 DEG SWIV.	.187312 ALUM. STRAIN RELIEF	BUMPER	PULLEY BELT	MOTOR PULLEY	DRIVE PULLEY	PULLEY GUARD COVER	PULLEY GUARD	SPLIT TAPER BUSHING	IMPELLER	.25 X .25 X 1.25 SQ.KEY	CHAMFER KEY	1" Drive Shaft	Socket Head Cap Screw 3/8"-16 Thread, 1-1/4"	10-32 x 1/2" BHSCS	ER Bearing	
112 9767 Nyon Cale Mount 2 114 64515 HYBRID CONTROL BOX 4-20A 1 116 64501 COVER 1 1 117 96420 Libbrard 1	2 1	-		2	-	-	5	; -	•	1	1	_	ω	2		- L		• •		-	1	1	2	2	-	ω	2	2	2	2	2	-	-	2	2	1	-	-	-	-	-	2	-	-	-	-	-	_	-	-	-	2	1	1	4	4	2	
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PARTS

-		30412	70
	12 GA RED 7 FT	98410	51
-	12 GABLACK 3 FT	98409	50
-	3/8 OD TUBE	64430	49
-	QUICK CONNECT, 3/8 OD TUBE X 1/4" NPT	68022	48
з	25 Amp Class CC Littelfuse: CCMR 25	97238	47
_	1 3/32" PLUG	97168	46
-	Liquid Tight Conduit Fitting, Straight	98942	45
-	HYBRID CONTROL BOX, 4-20A	64515	44
8	1.125 x 1.125 CABLE TIE HOLDER	98528	43
2	Nylon Cable Mount	97657	42
6	IEC 3 WIRE CORD (FT)	98416	41
-	1/4-20 HEX NUT	95186	40
-	SEALING COMPOUND	98940	39
1	DAM PACKING FIBER	98941	38
-	3/4" CONDUIT	98944	37
2	.187312 ALUM. STRAIN RELIEF	97430	36
1	3/4" FEMALE GHT TO 1/4" MALE NPT SWIVEL	97360	35
-	BULKHEAD, 1/4 NPT X 1/4 NPT	97313	34
1	3/4 × 1 3/8" NPT NIPPLE	66685	33
1	90 DEGREE ELBOW	98937	32
1	ENY SEALING FITTING	98938	31
1	Conduit Hanger	97163	30
3	1/2" SEALING RING	98936	29
2	Through-Wall Cplg for 1/2" Tube OD X 1/2" NPT	98522	28
2	External-Tooth Lock Washer 1"	97429	27
2	Hex Head Cap Screw 5/16"-24 Thread, 2-1/4"	97033	26
2	Nylon-Insert Hex Locknut 5/16"-24	97127	25
1	QUICK CONNECT 90°, 3/8 OD TUBE X 1/4" NPT	97728	24
1	REDUCER, 1/2 NPT MALE TO 1/4 NPT MALE	97333	23
1	SOLENOID VALVE	97448	22
1	3-WAY SOLENOID VALVE	98523	21
-	COIL CONNECTOR	98525	20
1	50 NPT BREATHER VENT	98533	19
2	.50 NPT QUICK CONNECT, 90 DEG SWIV.	98534	18
1	.187312 ALUM. STRAIN RELIEF	98788	17
3	BULKHEAD NUT	97369	16
з	BULKHEAD GASKET	97423	15
з	SENSOR BULKHEAD	97738	14
4	1/2" LOCK NUT	98746	13
1	1/2" SEALING RING	98751	12
ω	Liquid Level Sensor	97200	11
1	1/2" SEALING RING	97356	10
-	1/2" LOCK NUT	97354	9
-	90 DEGREE ELBOW	97353	8
1	NEMA L15-20, MALE PLUG, 250 VAC, 20 Amp	97185	7
1	CORD, 12/4 SEOOW	97352	6
-	ADHESIVE LABEL, 230VOLTS	98422	5
1	ADHESIVE LABEL, 3 PHASE	98426	4
4	5/16 WASHER	95183	2
OTV	BILL OF MATERIALS	DNI	ITEM









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a G FOR SIZE.	Sub panel 18.2 x 14.2	Enclosure 20H x 16W x 8 D, NEMA 12	Fuse 3AMP glass	Fuse 12AMP class CC	Fuse 3 AMP,class CC time delay	Fuse holder class CC, with indicator2pole	Power supply 120 watt 180 to 500 vac input, 24vdc output	GND Terminal block green	Terminal block fuse holder 24VDC with indicator	Label, 6.2mm, White, strip of 10,	End Cover, 12-6AWG, 5.2-10.2mm,	Terminal block, 10AWG, 6.2mm, 30Amp, Gray,	End Stop, 1screw, 35mm din rail,	Din rail	Button for remote reset	Remote reset module with 24 VDC coil	Electronic overload 1-5 amps	Electronic overload 4-20 amps	Contactor 12 AMP, 24VDC coil, 1NO AUX	Ground block 10 position	Green Pilot light	EZ relay 719, VDC, relay, no screen	on/off switch	Red pilot light	Reset button yellow	Red handle	shaft	Disconnect fused 30 AMP class CC	Desc:
																													Key
AND ADD	Hoffman	Hoffman	Ferraz	Ferraz	Ferraz	Automation direct	TRC/ Meanwell	сн	CH	СН	СН	сн	СН	СН	CH	СН	СН	СН	СН	CH	Automation direct	СН	Automation direct	Automation direct	Automation direct	Ferraz	Ferraz	Ferraz	Mfg.
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WARRANTY

Downdraft Tables, Metal Capture Downdraft Tables and Metal Capture Downdraft Stations 12 Month Warranty

Dynabrade warrants all Downdraft Tables, Metal Capture Downdraft Tables and Metal Capture Downdraft Stations against defects in workmanship and materials under normal use and service for a period of 12 months from the date of purchase as set forth herein.

Customer must return the defective tool to Dynabrade within 12 months from the date of purchase. Upon examination and review at Dynabrade's factory, Dynabrade shall confirm whether the tool qualifies for warranty status, in which case Dynabrade shall repair or replace the tool at no charge to the customer. Exceptions for in-field examination shall be made only at Dynabrade's discretion.

This warranty is contingent upon proper use of the Downdraft Tables, Metal Capture Downdraft Tables and Metal Capture Downdraft Stations in accordance with factory recommendations, instructions and safety practices. It shall not apply to equipment that has been subjected to misuse, negligence, accident or tampering in any way so as to affect its normal performance. This warranty does NOT cover normally wearable parts and accessories, including, but not limited to, filters, work surfaces, electrical cords and plugs, fuses, gaskets, v-belts, bearings and casters. This warranty does NOT cover chipped paint or corrosion.

To be considered for warranty, tools must be sent back to our factory, transportation prepaid by user. Please send tool back to attention "Repair Department" with note fully explaining the nature of the problem along with a copy of original invoice indicating model and serial number. Exceptions for in-field repair shall be made only at Dynabrade's discretion.

THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND THERE ARE NO OTHER WARRANTIES THAT EXTEND BEYOND THIS EXPRESS WARRANTY.

Dynabrade will not be liable for damages to products, other property or persons due to improper use or through attempts to use products for other than their intended use. DYNABRADE WILL NOT BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY SPECIAL, CONTINGENT, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES. Dynabrade's liability with respect to a claim for any other damages arising out of or connected with the manufacture, sale, purchase, non-delivery, use or performance of any product sold by Dynabrade will in no event exceed to the price paid for the product.