



SANDBLASTING CABINET - M SUCTION SERIES 120 V / 208-230 V / 240 V/ 460 V / 575 V



- Warranty
- Safety
- Operation

- Service Parts
- Accessory Information
- Registration Form



INSTRUCTION MANUAL

2022-11-15





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NOTICE TO PURCHASERS AND USERS OF OUR PRODUCTS AND THIS INFORMATIONAL MATERIAL

The products described in this material, and the information relating to those products, is intended for knowledgeable, experienced users of abrasive blasting equipment.

No representation is intended or made as to the suitability of the products described herein for any particular purpose of application. No representations are intended or made as to the efficiency, production rate, or the useful life of the products described herein. Any estimate regarding production rates or production finishes are the responsibility of the user and must be derived solely from the user's experience and expertise, and must not be based on information in this material.

The products described in this material may be combined by the user in a variety of ways for purposes determined solely by the user. No representations are intended or made as to the suitability or engineering balance of the combination of products determined by the user in his selection, nor as to the compliance with regulations or standard practice of such combinations of components or products.

It is the responsibility of the knowledgeable, experienced users of the products mentioned in this material to familiarize themselves with the appropriate laws, regulations and safe practices that apply to these products, equipment that is connected to these products and materials that may be used with these products.

It is the responsibility of the user to insure that proper training of operators has been performed and a safe work environment is provided.

Our company is proud to provide a variety of products to the abrasive blasting industry, and we have confidence that the professionals in our industry will utilize their knowledge and expertise in the safe efficient use of these products.

SAFETY AND WARNING

GENERAL SAFETY

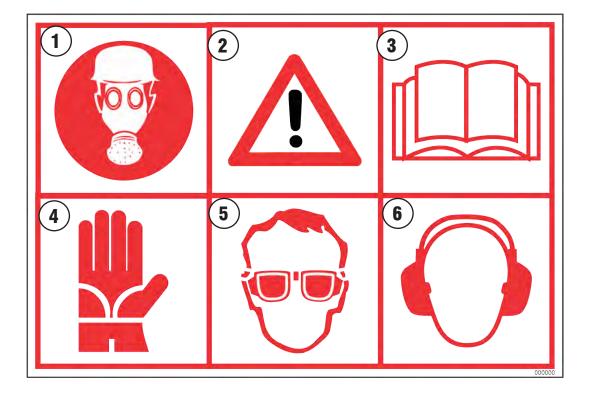
- 1. Carefully inspect the shipping carton for any signs of transport damage. The damage to the carton often indicates possibility of transport damage to the equipment inside.
- 2. Carefully remove your IST SANDBLASTING CABINET from the shipping carton and skid.
- 3. Check your equipment immediately to ensure that it is free of transport damage. Report any transport damage to the carrier without delay for possible claim procedures. International Surface Technologies inc. is not responsible for damage to equipment after it leaves our warehouse.
- 4. Check the equipment and compare it with the parts you have received. If any parts are missing, contact the supplier you purchased the equipment from.

Before operating the IST SANDBLASTING CABINET, read this Instruction Manual completely. All IST products are engineered and manufactured to the highest performance standards and have been subjected to detail testing before shipment from the factory.





DANGER AND WARNING LABELS



- 1. Wear breathing mask
- 2. Observe warnings at all times
- 3. Read the Instruction Manual carefully
- 4. Wear rubber gloves.
- 5. Wear protective eyewear before use
- 6. Wear earing protection before use

WARNING

« READ ALL INSTRUCTIONS » Failure to follow the SAFETY RULES identified by a BULLET (•) symbol listed BELOW and other safety precautions may result in serious personal injury. « SAVE THESE INSTRUCTIONS »





GENERAL SAFETY RULES

- KEEP WORK AREA CLEAN.
- **KEEP CHILDREN AWAY.** Do not let visitors come in contact with the equipment. All visitors should be kept away from the work area.

PERSONAL SAFETY

WARNING

SANDBLAST CABINET MAY EMIT POTENTIALLY HAZARD DUST AND AIRBORNE CONTAMINANTS DURING OPERATION. YOU MUST WEAR APPROPRIATE BREATHING PROTECTION AT ALL TIMES WHILE OPERATING OR STANDING AROUND THE UNIT.

- **GUARD AGAINST ELECTRIC SHOCK.** Non-skid footwear is recommended where damp or wet ground may be encountered. A ground fault circuit interrupter protected power line must be used for these conditions.
- **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in the moving parts. Wear protective hair covering to contain long hair.
- USE SAFETY EQUIPMENT. WEAR SAFETY GOGGLES or glasses with side shields.
- WEAR A DUST PROOF MASK.
- **STAY ALERT. USE YOUR COMMON SENSE**. Concentrate on what you are doing. Do not operate the unit when you are tired or under the influence of drugs.
- DO NOT OVERREACH. Keep proper footing and balance at all times.
- BEFORE CONNECTING THE UNIT be sure the power is the same as that specified on the nameplate of the Sand Blasting Cabinet. With power greater than that specified on the nameplate can seriously injure the user – as well as damage the Unit.
- **BEFORE STARTING TO WORK** you must wear earing protections, efficient for 80 dB or more.

UNIT USE AND CARE

- **DO NOT FORCE THE UNIT**. It will perform better and safer at the rate for which it was designed.
- THE USE OF ANY OTHER ACCESSORIES not specified in this manual may create a hazard.
- CLOSE THE MAIN BREAKER SWITCH BEFORE SERVICING or when not in use.
- DO NOT ALTER OR MISUSE THE UNIT. These units are precision built. Any alteration or modification not specified is misuse and may result in a dangerous situation.
 Only trained repairmen should attempt (

 ALL REPAIRS, electrical or mechanical. Contact the nearest IST a repair service facility. Use only IST replacement parts; any other parts may create a hazard.

ENVIRONMENTAL CONDITIONS FOR WHICH THE EQUIPMENT IS DESIGNED

- o Indoor location
- Altitude 6,562 ft max
- Ambient temperature: 104 °F (40 °C) max
- Relative humidity: 80 %
- Main supply voltage fluctuation +/- 10 %
- To use with noncombustible dust only



INTRODUCTION

Welcome to the IST [®] family of sandblasting products. This booklet contains helpful information and acquaints you with the operation and maintenance of your equipment. Please read carefully and follow our recommendations to assure trouble free operation. If you have any questions, please do not hesitate to contact your distributor or our technical service.

INSTALLATION

- 1. Unbolt the blast cabinet from the pallet. Attach a strap or a hoist to the eyelets located on the top of the machine and move it to its final location using a lift truck or a crane.
- 2. Make sure the cabinet is leveled and well grounded. Do not place on a wooden floor or a rubber mat, unless a ground wire has been installed. Check with a qualified electrician.
- 3. Place the system to the installation location.
- 4. Unwrap and remove the cabinet from the pallet.
- 5. Ensure there is adequate space on both sides of the cabinet for full opening of part loading/unloading and maintenance access doors.
- 6. Ensure there is sufficient space on both sides of the system for easy access to components such as the reclaimer and dust collector.
- 7. The dust collector should be located on a leveled area near the back of the cabinet, on the right side (while facing cabinet). Attach one end of the corrugated discharge hose to the outlet of the reclaimer and the other end to the inlet located at the bottom of the dust collector. Secure both ends with the supplied clamps. See dust collector section for more details.

All IST M series cabinets are equipped with a motorized dust collector ranging de 400 cfm.

PNEUMATIC CONNECTION



Connect your shop's air supply line to the air inlet. The hose should have a minimum of 1/2 inch inside diameter. Never use male-female quick couplings. **Choose couplings that offer as little restriction to the airflow as possible.**

To properly operate, your IST system use clean, dry air. Moisture or oil from the compressed air supply can contaminate the abrasive, and prevent it from flowing freely and cause inefficient blasting.

For detailed pneumatic connections, refer to pneumatic diagram page 32.

CAUTION If you use interlocking connections, secure them with pins. A connection that disconnects under pressure, could cause serious injury.





ELECTRICAL CONNECTIONS

Connect cabinet power supply cord to standard 120 V outlet.

Note: Non standard voltage is also available.



All electrical connections to the IST cabinet should be made by a qualified electrician and must complied to the codes, standards, and procedures specified by the local authority having jurisdiction.

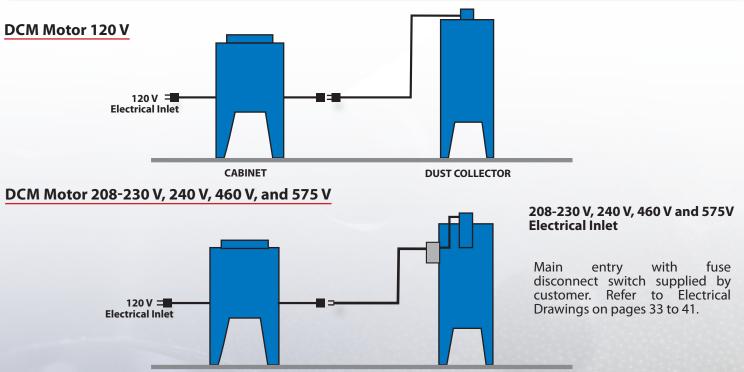
The customer is responsible for providing appropriate disconnecting means adjacent to the equipment for each incoming power circuit.

For detailed electrical connections wiring requirements, overload and starter, Refer to electrical drawings on pages 33 to 41.

It is important to connect the IST system to an Earth Ground to bleed off static electricity, which may be generated while blasting. The Earth Ground may also reduce the discomfort an operator may experience when static electricity is discharged.

CONNECTIONS TO CABINET AND DUST COLLECTOR

				Dust Collector	Model	
	DCM	100	DCM600	DCM160/900	DCM230/1200	DCM330/1800
Fan Motor (hp)	1/2	1		Available from 2 to 10 hp		
Fan Motor (cfm)	400		600	900	1200	1800
Power Requirement	120 V /15 A	120 V /20 A		Available in 208-230V, 240 V, 460 V, and 575 V		60 V, and 575 V



CABINET

DUST COLLECTOR





PROPER AIRJET/NOZZLE COMBINATIONS

Make sure you have a proper air jet/nozzle combination. Standard IST suction cabinets are equipped with 5/32" air jets and 5/16" nozzles.

A simple way to determine if you have an incorrect combination is to check the abrasive regulator at the bottom of the reclaimer when the operator's pedal is depressed. If media is being discharged out of the regulator, there is an incorrect jet/nozzle combination or an obstruction inside the gun.

AIR CONSUMPTION TABLE

			PRESSURE (psi ¹)					
Orifice	Nozzle ³	40	50	60	70	80	100 ²	< psi
1/8″	1/4′	12	15	17	19	21	26	
5/32″	5/16″	19	23	27	30	34	42	
3/16″	3/8″	27	33	38	43	48	58	cfm ²
7/32″	7/16″	38	46	52	60	65	80	
1/4″	1/2″	49	58	67	76	85	94	

^oOptimal Pressure / ¹ psi: Pressure at nozzle in Ib/po² / ²cfm: cubic feet per minute / Nozzle ³I.D. : inside nozzle diameter.

VERIFY INSTALLATION

- 1. Check that all pipe and hose connections are tightly fastened and air tight.
- 2. Check that all electrical box covers are securely installed.
- 3. Check that the dust drum under the dust collector is sitting firmly and is center (if equipped).
- 4. Turn the cabinet power switch to the "ON" position. The cabinet lights will power on and the dust collector fan and the reclaimer will start.
- 5. Set the blast air pressure regulator to the desired pressure.
- 6. Insert both hands into the cabinet gloves, take the gun and press the foot pedal. Blasting will start, wait a few second and the blast flow will stabilize.
- 7. Turn the cabinet power switch to the "OFF" position. Light will turn off and the dust collector fan and reclaimer will stop.

CAUTION Disable and lock out power sources before performing service or maintenance work. Do not look into the fan outlet to determine the correct motor rotation. Check that the fan exhaust is clear of tools and free of debris before checking fan rotation. To avoid personal injury, stay clear of the fan exhaust.





LOADING ABRASIVE MEDIA

WARNING

Your suction cabinet is designed to operate efficiently with most **recyclable abrasive media** on the market. However, certain types such as sand, recycled glass or silica are not recommended and should not be used in our blast cabinet.

These abrasives generate very fine dust that may block the bag's pores, obstruct the ventilation system and cause dust accumulation inside the cabinet while in use. Instead, use recyclable abrasives such as glass beads, aluminum oxide, steel grit or plastic media.

For better reclaiming results, please call one of our technical representatives if you use a different type of abrasive from the one your equipment has been set for at the factory.

NAME	ТҮРЕ	SHAPE	HARDNESS SCALE	DENSITY PDS/CUFT	CONTENT SILICA	DUST FACTOR	MESH SIZE	REUSE FACTOR	AVAILABILITY
Aluminium Oxide	Oxide	Irregular	8 Mohs	120	None	Low	6-600	Good	Good
Silicon Carbide	Carbide	Angular	9 Mohs	100-110	None	Low	6-600	Good	Good
Glass Beads	Silica	Spherical	5-6 Mohs	100	0 free Silica	Low	20-325	Good	Good
Plastic Grit	Polyurethane	Angular	3-4 Mohs	58-60	None	Low	12-80	Good	Good
Chilled Iron & Steel Grit	Metallic	Angular	40-68 Rc Rockwell C	250	None	Very Low	18-200	High	Good
Chilled Iron & Steel Shot	Metallic	Spherical	40-68 Rc Rockwell C	250	None	Very Low	7-200	High	Good

Manufactured Abrasives









- 1. Turn on the cabinet to activate the vacuum system.
- 2. **SLOWLY add approximately** half a bag of abrasive media through the grating inside the cabinet.

NOTE: Some cabinets can hold more than half a bag when added gradually.





SHUT DOWN

- 1. Release the foot treadle. The blast will stop.
- 2. Once cleaning is finished, await 10 to 15 seconds before turning off the power switch and opening the door of the cabinet in order to allow the evacuation of dust in suspension.
- 3. Open the door and remove the treated parts from the blast cabinet.
- 4. Close air supply.
- 5. Turn power switch to the "OFF" position.
- 6. Empty the dust collector waste drum (Optional part). Replace the drum squarely on the dust drum platform and centered under the cover. The dust drum and cover must create an airtight seal.
- 7. Shake bags of your dust collector (disregard if you system is equipped with optional automatic bag shaker or a cartridge-type dust collector).

CHANGING THE MEDIA

When changing from one type or size of media to another, it can be extremely important to clean out the blast and recovery hoses, storage hopper, and the cabinet interior thoroughly to avoid contamination of the new media.

During normal sandblasting operation, the media should be replaced completely every 8 hours.

CLEANING THE SYSTEM

- 1. Turn the system off.
- 2. You need a container large enough to collect used media. Place the container under the AR ³/₄ valve (part 10, page 24).
- 3. Remove AR ³/₄ rubber plug (part 5, page 24), media will fall in your container.
- 4. Turn on system and press foot pedal, to make sure all media as been removed from the blast hose and nozzle.
- 5. Turn off system and put back AR ³/₄ rubber plug (part 5, page 24).
- 6. When cleaning is done put back everything in place.

RELOADING WITH NEW ABRASIVE MEDIA

Refer to Abrasive Loading procedure on page 9







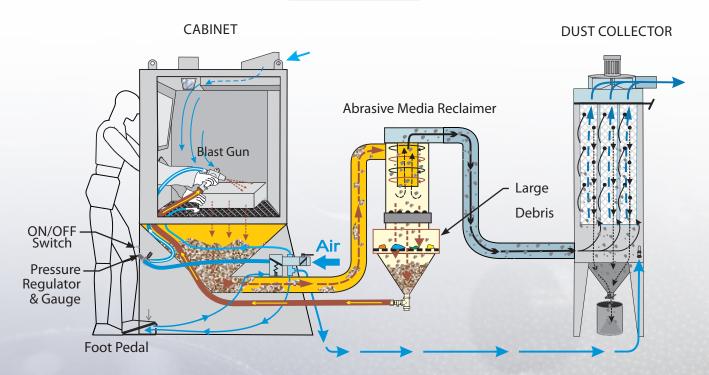
OPERATION

Turn on compressed air and turn on lightning and motor with the power switch. Compressed air must be clean, dry, and oil free.



- 1. When using the unit, air pressure **should not exceed 110 psi.** Place the part to be treated inside the cabinet. The parts must be free of oil, grease, and moisture. Close and latch the cabinet load doors.
- 2. After closing the door, insert your hands into the two front glove openings. The blasting gun should be held firmly in one hand and the part to be treated in the other hand. The stream of abrasive should be oriented to the bottom of the working space.
- 3. Depressing blast control pedal will release compressed air flow to the blast gun. As the compressed air passes through the air jet, it creates a vacuum inside the gun and sucks up the media from the reclaimer and propels it out through the nozzle. Hold the gun or nozzle at a 90° angle to the part at a distance that produces the fastest results. The reclaimer screen will require periodic cleaning. The frequency of cleaning will depend on the volume of debris produced. See maintenance section at page 13 for more information.
- 4. After the media has blasted the part, the reclaiming system vacuums up the abrasive, dust, and foreign material through the conduit at the bottom of the cabinet to the reclaimer. The reusable abrasive is separated from the dust and foreign material and is returned to the storage hopper for reuse. The dust bag or the cartridges of the dust collector, filters the dust and fine particles. Larger pieces of contaminants are trapped in the hopper's screen drawer.





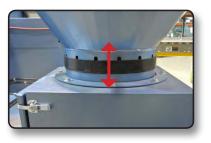




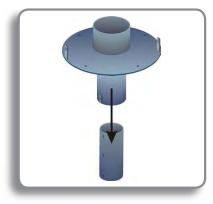
RECLAIMER

Although the reclaimer is factory set, it is possible to increase the amount of fine dust to be sucked up by the dust bag or dust collector. Just move the rubber band to adjust the obstruction of the holes located behind it. There are two methods to change those settings.

1. Adjustment of the SBR 1/8" x 2" rubber band



This adjustment will influence the quantity of dust that will be evacuated to the dust collector. Proceed step by step, moving the rubber band 1/4" at the time, covering or uncovering the slots behind it. A wider opening will draw up more dust to the dust collector; a smaller opening will reduce that quantity. The equipment has to run for approx. two (2) hours before any changes can be noticed. Repeat as needed.



2. Adjustment of the telescopic tube, inside of reclaimer

If, after a few tests, the rubber band adjustments should prove to be insufficient, you will have to proceed to the telescopic tube adjustment. This will be necessary if you have to change the abrasive type or granulometry. Proceed step by step, moving the tube up or down, 1 inch at the time. The equipment has to run for approx. two (2) hours before any changes can be noticed. Repeat as needed. Moving the tube downward will increase the quantity of dust drawn up by the dust collector, moving it up will decrease that quantity.



AR 3/4 ABRASIVE REGULATOR

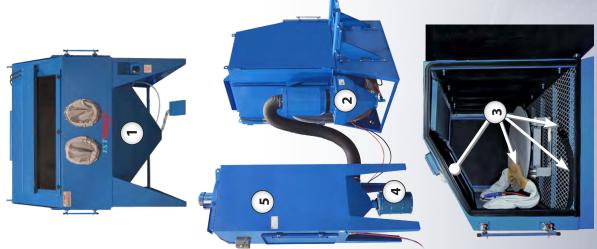
Located at the bottom of the reclaimer, the AR 3/4 abrasive regulator meters the amount of media discharged from the nozzle. Be sure that nothing seals off the hole completely. You can adjust the opening using the adjustable clamp that must be located over it, covering about 2/3 of the hole. A smaller opening will bring more abrasive to the nozzle; a wider opening will bring less abrasive. A complete opening or a complete covering will interrupt the abrasive flow. To insure the performances of your equipment, the compressed air supply must be clean and dry. Oil or humidity in the compressed air will cause an abrasive jam at the abrasive regulator level, reducing and even stopping the abrasive flow.

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MAINTENANCE CABINET AND DUST COLLECTOR



DAILY MAINTENANCE & OPERATION

- Check both the quantity and quality of abrasive frequently. If required, clean out the system and reload with new media. .-
- To avoid blockage, empty and clean the reclaimer's screen drawer regularely. ц і
- Check for wear on all parts in direct contact with the blasting action: nozzle, gloves, window, plastic shield, air-jet, gun etc. Special attention must be given to nozzle, nozzle ring and rubber protector to avoid premature wear of gun. Make sure ventilation inlet is always free of obstruction. т. т
- 4. Empty dust barrel or dust collector's bottom hopper regularly.
- Baghouse Dust Collector: after each use, turn off the impeller and shake bags inside the dust collector. Never shake bags while the cabinet is running. Never wash bags, instead use compressed use compressed air, blowing from the outside to the inside of the bag, (the opposite would clog the bag's pores and make it unusable).
- Cartridge Dust Collector: verify the values on the DCT1000 and replace cartridges when indicated. See next page for details. <u>ن</u>

WEEKLY

- original diameter of the nozzle. If the drill bit fits in, replace the nozzle. A worn Sandblast Nozzle: check the I.D. using a drill bit that is 1/8" wider than the nozzle will cause a drop of abrasive pull and velocity. 0
- Abrasive Hose: check abrasive hose for wear. It has to be changed before it gets any perforation. Give a special attention to parts of the hose that are curved 0
- Couplings and Gaskets: check on a regular basis the hose couplings and gaskets for wear. 0
- Media filters: replace bags when the dust collector is unable to evacuate the dust cloud from the cabinet. 0

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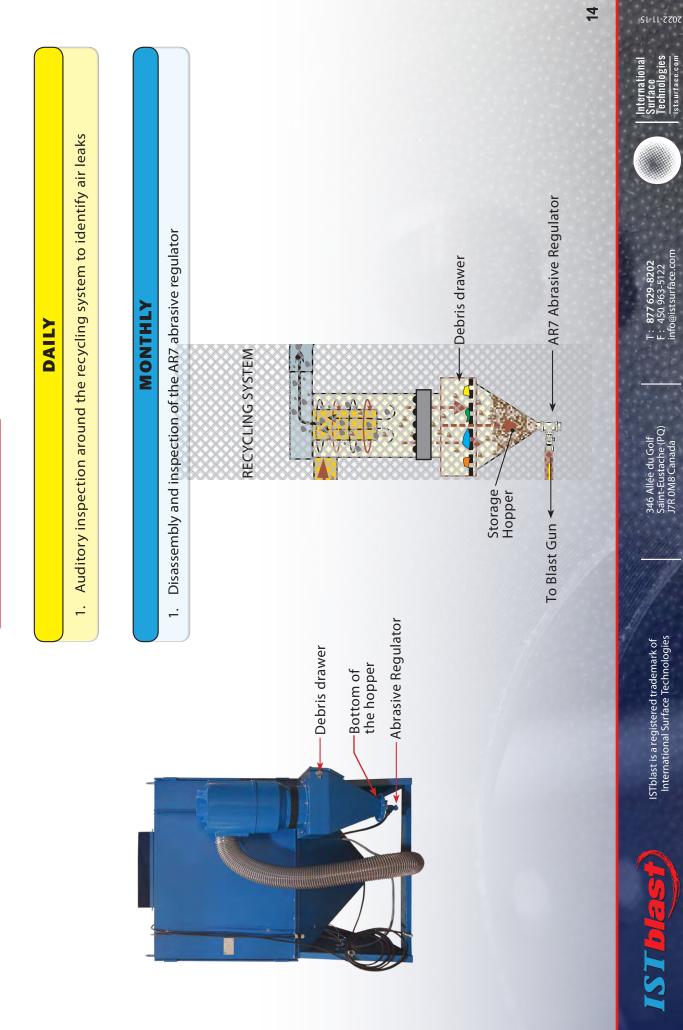
T: **877 629-8202** F: 450 963-5122 info@istsurface.com



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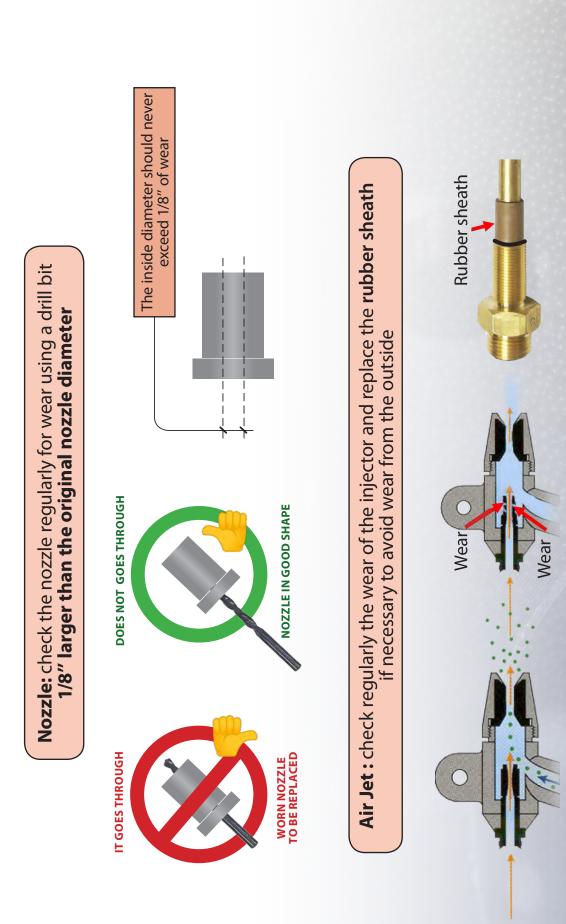


MAINTENANCE CABINET





NOZZLE AND JET MAINTENANCE





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DCT1000 TIMER CONTROLLER

INITIAL VALUES

High limit : 3.5 Low limit : 2.0 Stagnant pressure drop





NEW VALUES

High limit : 3.9 Low limit : 2.4



PERIODICAL ADJUSTMENTS

Follow the procedure below in order to extend the life span of your cartridge filters while maximizing the filtration capacity of your dust collector. When the cleaning process of the cartridges is no longer able to reach the **Low Limit** value, the cleaning cycle will run continuously. At that moment, it is advised to increase the Low Limit and High Limit in order to extend the life span of the cartridge media to a certain limit.

example, if the cleaning cycle runs continuously and the process value on the DCT1000 indicates **2.2**, set the new **Low Limit to 2.4** and the new **High Limit to 3.9**. Start increasing the **Low Limit** and **High Limit** of the cleaning process by 2 decimals above the stagnant value. For

NEED TO REPLACE CARTRIDGES

FINAL VALUES



Keep increasing moderately until your cartridges are incapable of reaching a Low Limit of 7.0. At that moment, it is time to change your cartridge filters and reset your process values to initial Low Limit 2.0 and High Limit 3.5.

REPLACEMENT OF CARTRIDGE FILTERS

Change all your cartridge filters at the same time, regardless of their individual condition.

If you notice a damaged cartridge, immediately replace all your cartridge filters at once - if a cartridge filter is damaged and/or perforated, it may cause severe damage to your impeller and mislead the DCT1000 timer controller in its ability to control the cartridges cleaning cycles properly.

Refer to the owner's manual for parts number and changing procedure.



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DCT1000 TIMER CONTROLLER

SETTINGS

Use the (Select) and (Up) (Down) keys you will be able to change the parameters.

Note: Your unit has been programmed in the factory, if you change some settings during operation be sure to write down the initial values.

PARAMETERS

PROCESS IN HAR

TIME OFF BIT

MINAM HOH

ALARM RESET

DOWN

TIMU HIGH

STATUS

SETUP

Process: Value displayed during operation of the fan (inches of water restriction cartridges). Last Output: Number of active solenoid (this value can not be changed because the system auto-detects the number of active coil connected to the card).

Time Off: downtime between each pulse (value 10 seconds).

ON Time: Time pulse valves (value 250 milliseconds).

High Limit: The value to which the cleanup will begin (value between 2.5 and 3.5).

Low limit: The value to which the cleaning will stop automatically (value between 1.5 and 2.5).

CYCLE DR.AY 1944 DOWN TWE CYCLES AUTO ALARM 2520

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High Alarm: Value must be reached to activate alarm (High limit value 2).

Low Alarm: Value must be reached to activate alarm (value = 0).

Cycle Delay: This value is to operate in manual mode (value = 0).

Down Time Cycles: This value is to operate in manual mode (value = 0).

Auto Alarm Reset: This value is to operate in manual mode (value = 0).



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Air intake behind the cabinet obstructed Check the trap cabinet to make open and clear Clogged filter media: 1. Empty the dust well as the connecting the connecting the the cyclone separate open and clear 1. Dust barrel filled 2. Bags shaken during	
Clogged filter media:well as the connecting the1. Dust barrel filledconnecting the2. Bags shaken duringthe cyclone separ	
cabinet operating ¹ 2. Replace clogged	ection hose barrel and rator
Dust collector fan motor connected upside down (blades turn upside down)	
 Excessive dust in the cabinet (poor visibility) and / or very dusty abrasive (inefficient Poor adjustment of the cyclonic separator (the dust recirculates in a loop instead of being evacuated to the dust collector and mixes with the abrasive) If the material h since the camanufactured, IST representation of being evacuated to the dust collector and mixes with the abrasive) If the material h since the camanufactured, IST representation of being evacuated to the dust collector and mixes with the abrasive) 	ibinet was contact an ive al has not the cabinet inufactured, the rubber he cyclonic increase observe the e abrasive

¹Never shake the bags while the dust collector fan is on. This forces dust to enter the pores of the media rather than lodge on the surface.

² Do not wash bags with water or by blowing compressed air through them. Both of these methods will damage the bags and make them obsolete.





TROUBLESHOOTING (CONT'D)

TYPE OF FAILURE	POSSIBLE CAUSE	SOLUTION
	Non-recyclable abrasive ³	Follow abrasive drain and cleaning procedures and replace with recyclable abrasive.
Excessive dust in the cabinet (poor visibility) and / or very dusty abrasive (inefficient)	Suction hose (behind the cabinet) partially or completely blocked	Follow the procedures for resolving a clogged suction hose
Suction hose outlet (behind the cabinet) partially or completely blocked	Poor filling procedure: too much abrasive or spilled too quickly	Open the service door (1) and disconnect the abrasive suction hose (2) at the bottom of the hopper, remove the abrasive in excess and repeat the filling procedures properly.
	Lack of cfm (problem with the dust collector) which causes the outlet to become progressively blocked	Follow the procedures for resolving a dusty cabinet as described above

³Never use non-recyclable abrasive in IST cabinets, such as slag, silica sand, recycled glass, or other like them. IST cabinets are designed to be used exclusively with recyclable abrasive that generates a limited amount of dust. Ask your IST representative for more information.





TROUBLESHOOTING (CONT'D)

TYPE OF FAILURE	POSSIBLE CAUSE	SOLUTION
	Incorrect adjustment of the rubber band of the cyclonic separator	Cover gradually the holes with the rubber band to reduce the velocity flowing through the cyclonic separator
"Good" abrasive ends up in the dust container of the dust collector Too much velocity (cfm) in the cyclone separator	The seal around the debris drawer is damaged or not properly installed	Check the gasket around the drawer to make sure it is tight and replace if necessary.
	a. The central tube of the cyclonic separator is not adjusted properly due to a change of abrasive	a a
	b. The central tube of the cyclonic separator is perforated at the inlet of the separator	Contact your IST representative

⁴The center tube of the cyclonic separator is factory adjusted for the abrasive specified at the time of purchase. If the abrasive changes during operation, it may be necessary to readjust the inner tube to alter the movement and flow of air within the cyclonic separator.

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TROUBLESHOOTING (CONT'D)

TYPE OF FAILURE	POSSIBLE CAUSE	SOLUTION
	Incorrect adjustment of the AR ³ / ₄ Abrasive Valve	Slightly close the opening of the AR ¾ valve and test again : Less air = more abrasive
Lack of abrasive in the	Blocked AR¾ abrasive valve and/or abrasive transport hose to nozzle	 Place a finger at the nozzle opening to obstruct the air outlet and activate the blaster to force air upstream of the nozzle to unblock it. If this does not solve the problem, disassemble the AR¾ abrasive valve and transport hose in an attempt to isolate the obstruction.
mix (the nozzle blows mainly air)	Abrasive transport hose to nozzle is obstructed (gun) or improperly installed. Wrong air jet to nozzle opening ratio.	 Inspect the hose for holes (especially under the screened floor if it has been exposed to abrasive blasting) and replace as necessary. Remove the gun from the hose and insert it again to the bottom of the hose.
	The ratio should be 2 to 1 (nozzle inner diameter = 2 times air jet inner diameter)	 Disassemble the gun and check the nozzle and the air jet for wear: 1. If the nozzle is damaged by excessive wear from the outside, replace it. 2. If the internal diameter of the nozzle exceeds 1/16" of its original size, replace it.





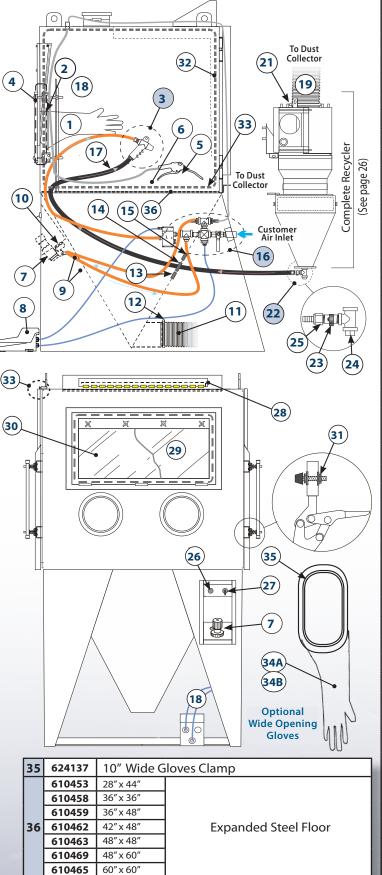
TROUBLESHOOTING (END)

TYPE OF FAILURE	POSSIBLE CAUSE	SOLUTION
Lack of abrasive in the mix (the nozzle blows mainly air)	Air supply problem (using a quick connect or a connection that creates a restriction to the cabinet air supply)	<section-header></section-header>
Too much abrasive in the mix (the jet is jerky and discharges too much abrasive)	Incorrect adjustment of the AR ¾ abrasive metering valve	Slightly open the orifice of the AR ¾ valve : More air = less abrasive





SCHEMATIC OF UNIT

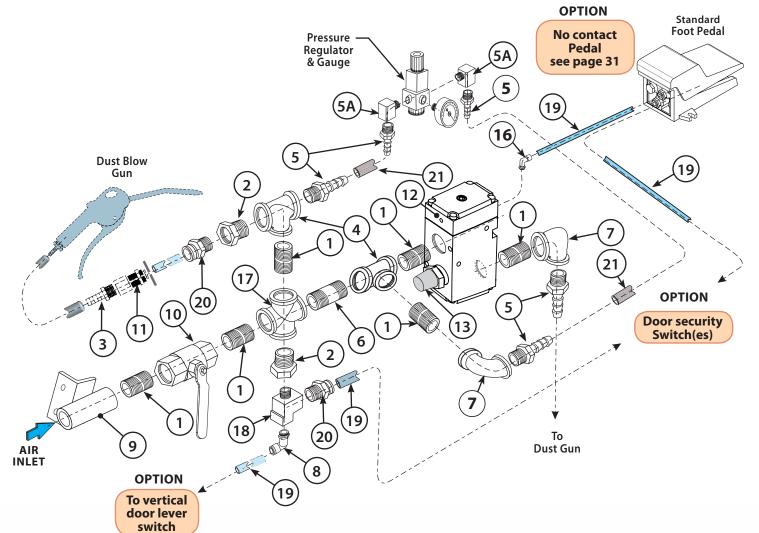


1	603212	Gloves with Nylon Sleeves, 8" ID ø x 30" long			
	603205	Gloves with Leather Sleeves			
2	624128	8″ø Glove Clamp			
3	610120	G5 Complete Sand Blast Gun (See page 30)			
4	610288	Standard Door Handle			
5	610275	Dust Blow Gun			
6					
7					
8	610345	Complete Foot Pedal (See page 31)			
9	606104	1/2" PVC Air Hose			
10	611022	1/4" Pressure Gauge			
11	606168	5″ – 600 cfm Reclaimer Hose			
	606169	6" – 900 to1,800 cfm Reclaimer Hose			
12	624121	5"Clamp			
	624124	6" Clamp			
13	618126	Grommet for Air Hose ½"			
14	618127	Grommet for Abrasive Hose ½"			
15	618133	Grommet for Blow Gun hose 1/4"			
16	606149	¹ / ₂ " Pneumatic Suction Manifold (See page 25)			
17	17 606148 ½" Multipurpose Abrasive Hose 18 324571 ¼" Blue Tubing Air Hose				
18	606169	1/4" Blue Tubing Air Hose6" – 600 cfm Suction Hose			
19	606171	6 – 600 cfm Suction Hose 7" – 900 cfm Suction Hose			
19	606173				
	624124	8" – 1200 cfm – 1800 cfm Suction Hose			
21	624127	6" Clamp 7" Clamp			
21	624128	8"Clamp			
22	608010	AR ¾ Abrasive Regulator			
23	608011	AR ¾″ Clip			
24		Threaded Poly. Plug for AR ³ / ₄ " Regulator			
25	632960	3/4" FPT x $1/2$ " Pl. adaptor			
	917863	20A-250 V AJC Fuse			
26	616907	Fuse Holder			
27	617014	ON/OFF Switch for Auto. Shacker			
	617161	24" Light Fixture c/w LED			
28*	617160	48″ Light Fixture c/w LED			
	610212	23¾" x 18¾" Safety Glass (cabinet less than 48")			
29	610211	17" x 48" Safety Glass (cabinet more than 48")			
	618318	¹ / ₂ " x ¹ / ₄ " G15 Window Seal type (sold per foot)			
	613038	23 ³ / ⁴ x 18 ³ / ⁴ RPW 50 Acetate Glass Protector			
30	613035	RPW 1748 Acetate Glass Protector (cabinet more than 48")			
31	910223	Toggle Stem			
32	618322	Type "P" Door Rubber Gasket			
33	600116	Optional: Complete Door Security Switch			
34A	603217	Nylon Sleeve Gloves Wide 10" ID x 30" Lg.			
34B	603218	Nylon Leather Gloves Wide 10" ID x 30" Lg.			

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IST DEST

PNEUMATIC TREE - EXPLODED VIEW



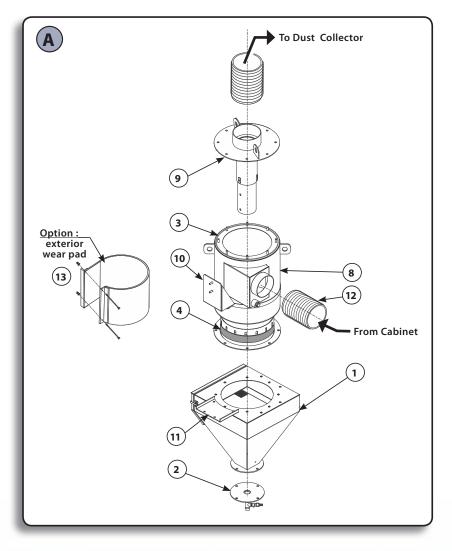
PARTS LIST

1	630301	½″ NPT Nipple	11	324503	¼" MTP x ¼" TU Bulkhead Push-in
2	632745	1/2" NPTx 1/4" NPT Reductor	12	608519	1/2" FPT Pilot Valve
3	632270	1/4" NPT x 1/4" Hose Barb Fitting	13	608287	1⁄2" MPT Muffler
4	630328	½″ FPT PA "T"	16	324561	ነ%" NPT ¼" TU @ 90° Push-in Fitting
5	632760	1/2" NPT x 1/2" Hose Barb Fitting	17	630327	¹ / ₂ " Cross
5A	632730	¹ /2" PL MF Elbow Fitting	18	632226	¼″ T « Street »
6	932108	½" MPT x 3" Lg. Nipple	19	324571	¼" Polyester Blue Tube
7	630340	1/2" FF PA Elbow	20	324558	¼" MTP ¼" TU Push-in Fitting
8	324560	¼" NPT ¼" TU @ 90° Push-In Fitting	21	606104	¹ /2" Clear Nylon Hose
9	610390	½" NPT Inlet Ring			
10	608102	1/2" FPT Ball Valve			





RECYCLING SYSTEM - EXPLODED VIEW & PARTS LIST

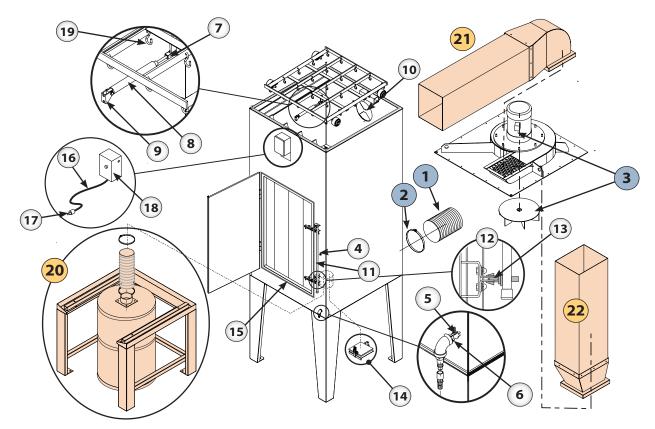


#	STOCK	DESCRIPTION	#	STOCK	DESCRIPTION
1	609286	Hopper	3	618318	Auto-adhesive Rubber
2	609287	Hopper Adaptor	4	618334	Rubber Band

	A	8	9	10	11	12	13
RECYCLER BODY ID	COMPLETE RECYCLER	BODY ONLY	OUTLET PLATE	BODY SUPPORT	HOPPER SUPPORT	"ABRASIVE CARRY HOSE"	"EXTERIOR WEAR PAD"
10″	609240	609225	609216	N/A	N/A	606161	609282
13″	609242	609230	609212	609180	609178	606120	609283
16″	609244	609231	609213	609181	609178	606123	609284
24″	609246	609232	609214	N/A	N/A	606124	609285
30″	609248	609234	609215	N/A	N/A	606124	609288



BAGHOUSE DUST COLLECTOR - GENERAL PARTS LIST



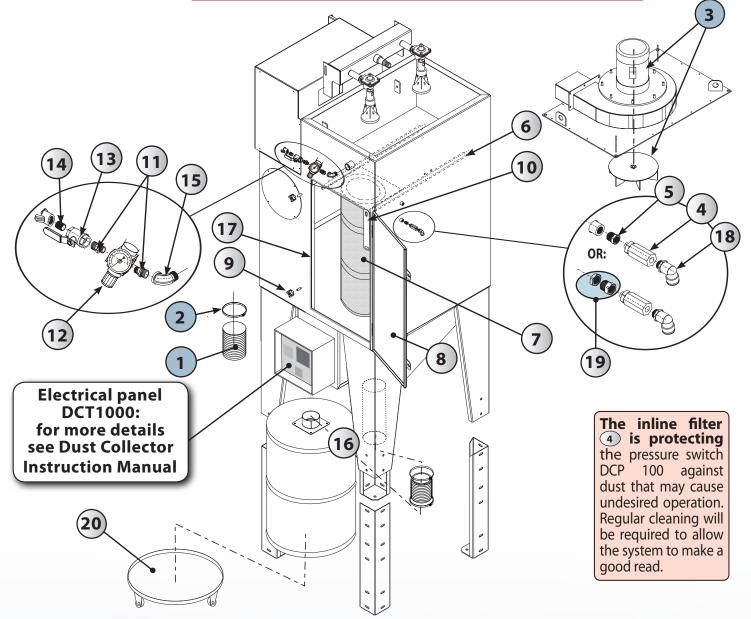
#	ѕтоск	DESCRIPTION		#	STOCK	DESCRIPTION
1	Ho	oses: see chart page 29		11	610287	Door handle
2	Cla	mps: see chart page 29		12	610223	Toggle lock
3	Fan	Motor: See chart page 29		13	910223	Toggle stem
4	608508	Shaking button		14	601378	Trap door for dust
5	608408	Flow regulator		15	618321	"D" type rubber (sold per foot)
6	608409	Adaptor		16	616575	Electric cable (sold per foot)
7	608406	Hinge axle		17	616406	Electrical plug
8	608405	Cylinder		18	617063	Electrical box
9	608407 Hinge plate			19	601309	"S" Hook
10	610280	Adjustable air trap] .			

	BAGHOUSE DUST COLLECTOR OPTIONS							
		20 DUST BARREL O	PTION	HORIZONTAL MUFFLER	VERTICAL MUFFLER			
DCM MODEL	OPTION NUMBER	BARREL CAPACITY (GAL)	BARREL TROLLEY	21	22			
DCM-100-4	601486	15	501182	601434	601423			
DCM-100	601486	15	501162	601434	601423			
DCM-160	601487			601435	601424			
DCM-230	601490	30	919633	601436	601425			
DCM-330	601490			601437	601426			



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CARTRIDGE DUST COLLECTOR - GENERAL PARTS LIST

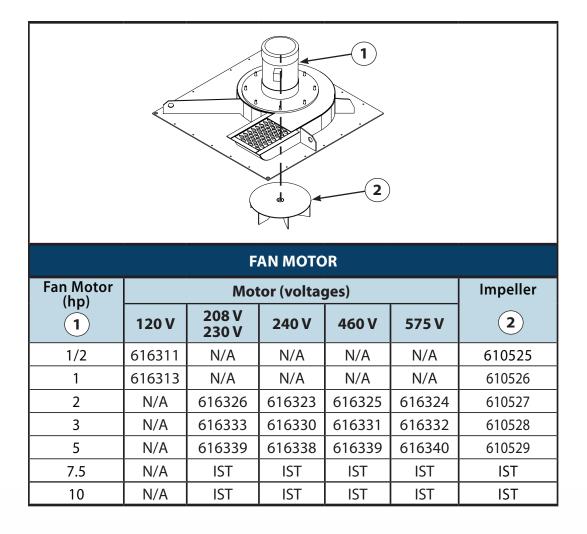


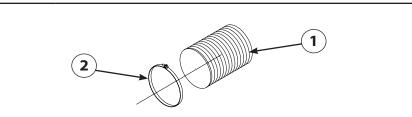
#	STOCK	DESCRIPTION	#	ѕтоск	DESCRIPTION
1	н	loses: see chart page 29	11	630651	1"TO ½" REDUCER
2	CI	amps: see chart page 29	12	608022	COMPLETE REGULATOR
3	Fan	Motor: See chart page 29	13	608102	1/2" BALL VALVE
4	611058	INLINE FILTER	14	632706	½″NIPPLE
5	632248	1/4" REDUCER		630641	90° MF 1″ ELBOW
6	NPN	CARTRIDGE GUIDE		601448	15 gal RECOVERY BARREL (DCM 100 to 330 ONLY)
7	901321	CARTRIDGE	16	901448	30 gal RECOVERY BARREL
8	NPN	ACCESS DOOR	17	618321	"D" TYPE RUBBER (SOLD PER FOOT)
9	940109 KNOB		18	314048	¼″@ 90° PUSH-IN FITTING
10	10 NPN HANDLE FOR FIXING THE CARTRIDGES			932004	FF ¼″ BULKHEAD
			20	501182	TROLLEY FOR 15 gal BARREL
			20	919633	TROLLEY FOR 30 gal BARREL





FAN MOTOR & SUCTION HOSE



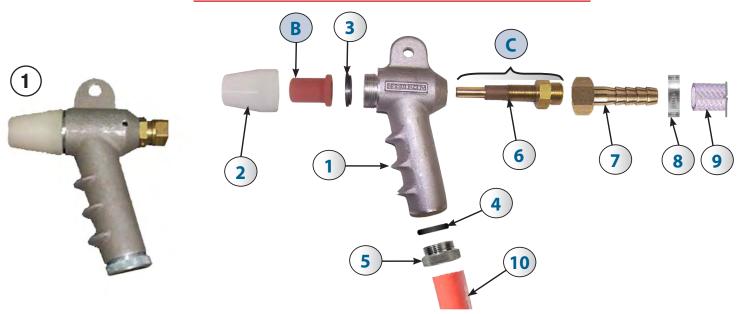


cc	CORRUGATED SUCTION HOSES AND CLAMPS								
Fan Motor (hp)	Hose ID	Hose 1	Clamp 2						
1/2	5″	606168	624121						
1	6″	606169	624124						
2	7″	606171	624127						
3	8″	606173	624128						
5	10″	606177	624137						





G5 BLAST GUN - EXPLODED VIEW & PARTS LIST



G5 BLAST GUN - AIR JET / NOZZLES COMBINATIONS

	1 G5 COMPLETE BLAST GUN (PRE-ASSEMBLED*)			s	C	ORIFICES
G5	NOZZLES	ΤΥΡΕ	ORIFICE	CODE	AIR JET (COMPLETE)	±
610121	CERAMIC	CN2-4	1/4″	605004	610116	1/8″
610120	CERAMIC (STANDARD)	CN2-5	5/16″	605005	610117	5/32″
610166	CERAMIC	CN2-6	3/8″	605015	610109	3/16″
610122	CERAMIC	CN2-7	7/16″	605006	610118	7/32″
610123		TN2-4	1/4″	605007	610116	1/8″
610124	TUNGSTEN	TN2-5	5/16″	605008	610117	5/32″
610167	TONGSTEN	TN2-6	3/8″	605018	610109	3/16″
610125		TN2-7	7/16″	605009	610118	7/32″
610126		BN2-4	1/4″	605010	610116	1/8″
610127	BORON CARBIDE	BN2-5	5/16″	605011	610117	5/32″
610168		BN2-6	3/8″	605021	610109	3/16″
610128		BN2-7	7/16″	605012	610118	7/32″

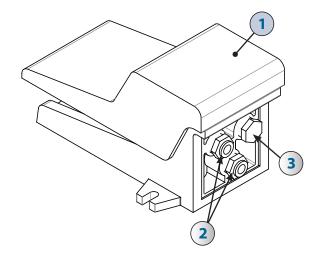
SPARE PARTS

					i i	
ed	1	610119	Blast Gun Body only	6	618219	Rubber Protector
nbl	2	607037	Nozzle Adaptor	7	632771	1⁄2" Brass Female Swivel Hose Barb
gun	3	618017	NW-2 Rubber Washer	8	624015	³ ⁄4″ O-Clamp
Pre-assembled gun	4	618112	O-Ring	9	606104	¹ /2" PCV Compressed Air Hose (sold per foot)
۲ ۲	5	607038	Hose Adaptor			¹ ⁄2" Multipurpose Abrasive Conveying Hose
		10	606148	(sold per foot)		





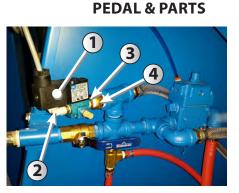
STANDARD FOOT PEDAL - PARTS DETAIL



#	STOCK	DESCRIPTION
1	908065	Pneumatic Foot Pedal (complete)
2	950264	¹ ⁄4" Push-in Fittings
3	950265	¼″ Brass Plug
3	950265	¹ /4 Brass Plug

NO-CONTACT FOOT PEDAL (OPTIONAL)





#	STOCK	DESCRIPTION
1	608568	SOLENOID VALVE
2	324561	1/8" PUSH-IN FITTING
3	632214	ADAPTER 1/8" TO 1/4"
4	632745	ADAPTER 1/2" TO 1/4"
5	910525	COMPLETE NO-CONTACT FOOT PEDAL
6	917879	INFRARED SENSOR CELL



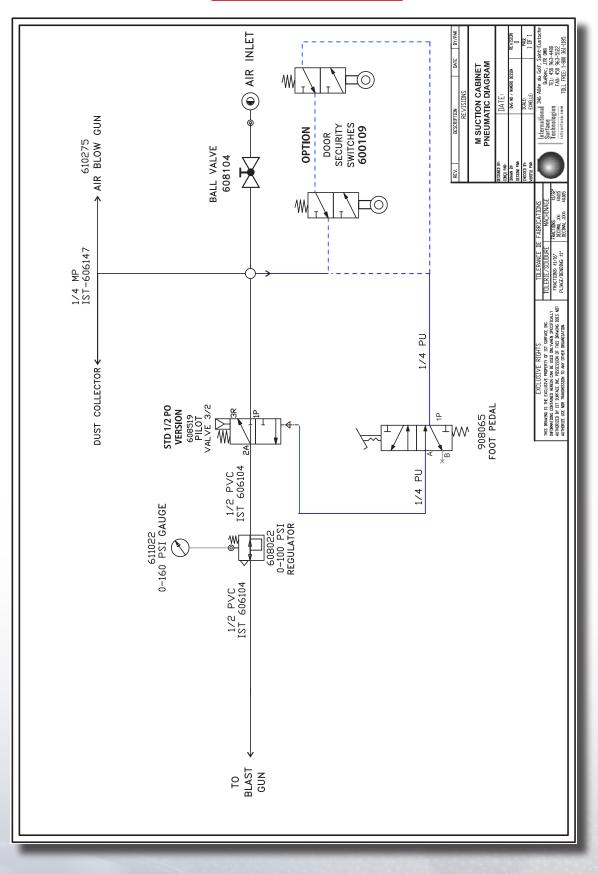
CONTROL PANEL WITH PARTS

#	STOCK	DESCRIPTION
1	917618	24V DC - POWER SUPPLY
2	917877	24V DC RELAY
3A	917893	MDL.2A FUSE
3B	616933	AGC-1A FUSE
4	-/-	TERMINAL BLOCKS
5	616865	GROUND BLOCKS
6	917880	SENSOR CABLE





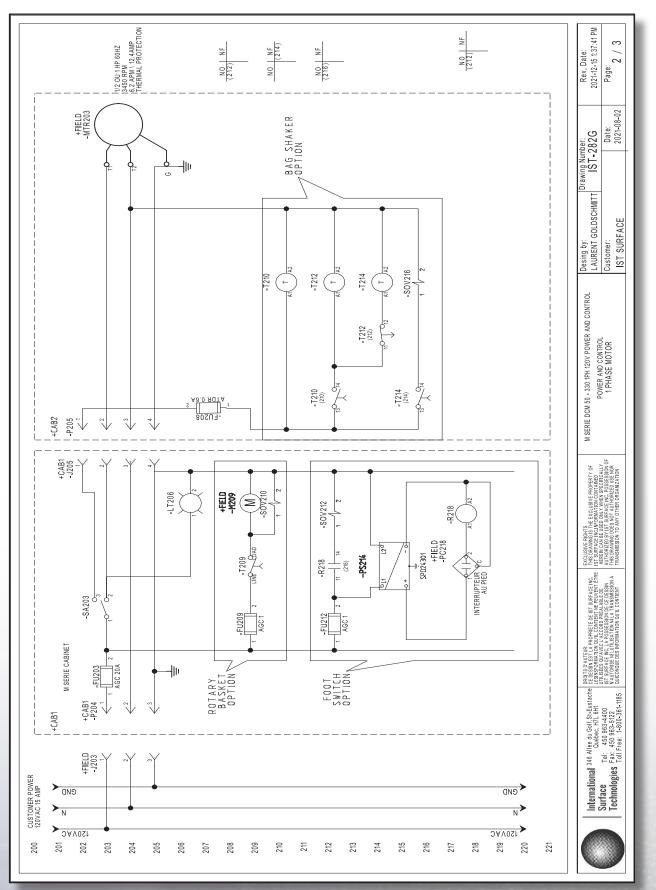
PNEUMATIC DIAGRAM







ELECTRICAL SCHEMATIC WITH DCM 50 TO 330 BAG-TYPE - 1 PH - DRAWING







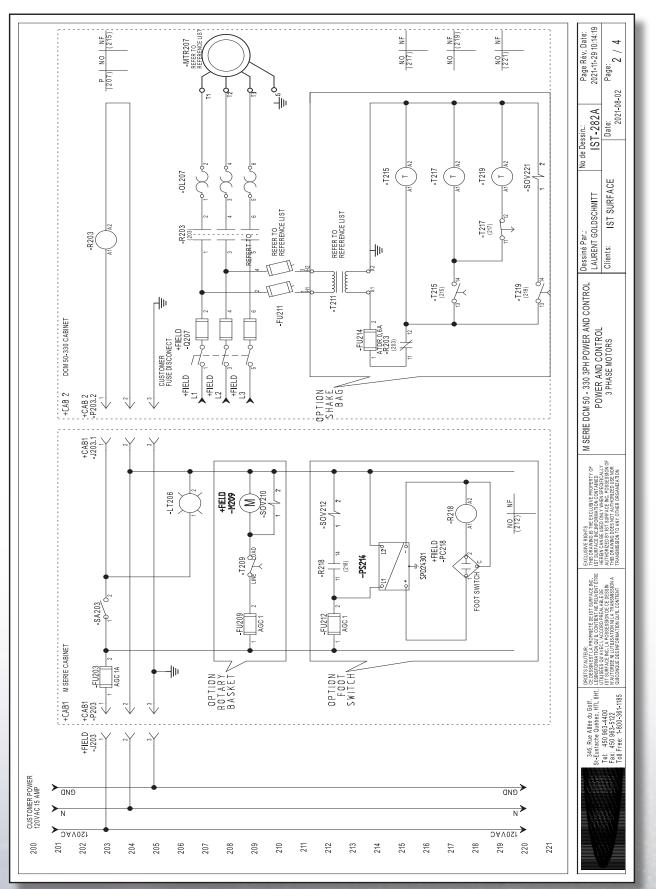
ELECTRICAL SCHEMATIC WITH DCM 50 TO 330 BAG-TYPE - 1 PH - PARTS LIST

or control con	Fonction I ocalisation	Tad	Material (Cat. No.)	Series	Cat. No. Description	Sonlier
4:000 (6:001)		P				
4000 1000 <th< td=""><td>+CAB1</td><td>-FU203</td><td>AGC20</td><td></td><td>GLASS FUSE 20 AMP</td><td>FERRAZ</td></th<>	+CAB1	-FU203	AGC20		GLASS FUSE 20 AMP	FERRAZ
4.000 FORM FORM OFFICE/FILE/AV FORM 4.000 FORM FORM OFFICE/FILE/AV FORM 4.000 FORM FORM OFFICE/FILE/AV FORM OFFICE/FILE/AV 4.000 FORM OFFICE/FILE/AV FORM	+CAB1	-FU203	HKP-HHR		FUSE HOLDER E-3/RB-14-6-FL	BUSSMAN
4:000 RPM-HI CREATURE-END-Action RESINANCE RESINANCE <td>+CAB2</td> <td>-FU208</td> <td>ATDR1</td> <td></td> <td>FUSE 1A 600V TYPE CC TIME DELAY</td> <td>FERRAZ</td>	+CAB2	-FU208	ATDR1		FUSE 1A 600V TYPE CC TIME DELAY	FERRAZ
4000 Discretion Discret Discretion Discretion	+CAB2	-FU208	HKP-HHR		FUSE HOLDER E-3/RB-14-6-FL	BUSSMAN
4000 0000 04566 (Ki, IR) Constrained 04566 (Ki, IR) Constrained <th< td=""><td>+CAB1</td><td>-FU209</td><td>HKP-HHR</td><td></td><td>FUSE HOLDER E-3/RB-14-6-FL</td><td>BUSSMAN</td></th<>	+CAB1	-FU209	HKP-HHR		FUSE HOLDER E-3/RB-14-6-FL	BUSSMAN
1000000000000000000000000000000000000	+CAB1	-FU209	AGC1		GLASS FUSE 1 AMP	FERRAZ
131 C000064 C0000640055 C000064005 C0000640	+CAB1	-FU212	10140		FUSE BLOCK VUG4-4	WEIDMULLER
1000 7000 <th< td=""><td>+FIELD</td><td>-J203</td><td>CUSTOMER</td><td></td><td>CUSTOMER FUSE DISCONECT</td><td>CUSTOMER</td></th<>	+FIELD	-J203	CUSTOMER		CUSTOMER FUSE DISCONECT	CUSTOMER
1208 SST RANDOM CONSIGN REMADDIO ST REPUBLICATION CONSIGN REMADDIO REPUBLICATION CONSIGN REMADDIA REPUBLICATION CONSIGN REMADDIA <threpublication consign="" remaddia<="" td="" th<=""><td>+CAB1</td><td>-J205</td><td>27W75</td><td></td><td>PLUG 4P FEMELLE 15A</td><td>LEVITON</td></threpublication>	+CAB1	-J205	27W75		PLUG 4P FEMELLE 15A	LEVITON
4000 40000 40000 40000	+FIELD	-LT206	2SLSTP2040DD120V/4SLST	P4040DD120	STRIP LED 24" / STRIP LED 48"	METALUX
Intensity Concentration Intensity Concentration Intensity Concentration Intensity Intensity <td>+FIELD</td> <td>-M209</td> <td>0449 (34R4BF-Z4)</td> <td></td> <td>REDUCTOR MOTOR 1/1/5HP 1/5V 180/1 RATTO</td> <td>BODINE</td>	+FIELD	-M209	0449 (34R4BF-Z4)		REDUCTOR MOTOR 1/1/5HP 1/5V 180/1 RATTO	BODINE
1 1000000000000000000000000000000000000	+FIELD	-MTR203	YCN5624A-1X2		MOTEUR 1/2 HP 120160 3450RPM	JRP
1000 5000 1000 metric 1000 me	+FIELD	-MTR203	YCN5642A-1X2		MOTOR 1HP 115-208-230/1/60 3450 RPM	JRP
2016 EXM EXM <td>+CAB1</td> <td>-P204</td> <td>5266-C</td> <td></td> <td>Straight Blade Plug, 15 Amp, 125 Volt, Industrial Grade - Black & Mhite</td> <td>HUBBELL</td>	+CAB1	-P204	5266-C		Straight Blade Plug, 15 Amp, 125 Volt, Industrial Grade - Black & Mhite	HUBBELL
- FC:16 CG:30-4E PHOTOGRESISER Rep PP 0000M	+CAB2	-P205	26W75		PLUG 4P MALLE 15A	LEVITON
- FSL4 502.001 EXMANDIAL-UE EXMANDIAL-UE C-000.00X.21 C-000.00X.21 - 2010 SEX500 EXMANDIAL-UE EXMANDIAL-UE C-000.00X.21 C-000.00X.21 - 2012 SEX500 EXMANDIAL-UE SULVICE SAMANDIAL-UE DDV IC C-000.00X.21 C-000.00X.21 - 2012 SEX400-00 SULVICE SAMANDIAL-UE DDV IC C-000.00X.21 C-000.00X.21 - 2012 SEMANDIAL-UE SULVICE SAMANDIAL-UE DDV IC C-000.00X.21 C-000.00X.21 - 2012 TMIR REVALUES SULVICE SAMANDIAL-UE DDV IC C-000.00X.01 - 2012 TMIR REVALUES SULVICE SAMANDIAL-UE DDV IC C-000.00X.01 - 2012 TMIR REVALUES SULVICE SAMANDIAL-UE DDV IC C-000.00X.01 - 1212 TMIR REVALUES SULVICE SAMANDIAL-UE DDV IC C-000.00X.01 - 1212 TMIR REVALUES SULVICE SAMANDIAL-UE DDV IC C-000.00X.01 - 1212 TMIR REVALUES SULVICE SAMANDIAL-UE DDV IC C-000.00X.01 - 1212 TMIR REVALUES SULVICE SAMANDIAL-UE DDV	+FIELD	-PC218	GX3-AP-1E		PHOTOELECTRIC SENSOR PVP UP TO 100MM	AUTOMATION DIRECT
218 REMARCION ELLAY MODIA JONO C. RELOGNAVZI	+CAB1	-PS214	SPD24301		POWER SUPLY 24/DC 300W	CARLO GAVAZZI
4218 52495 ELV MODER POE CRADOMAZI (NUE SIMMODULIS) CRADOMAZI (+CAB1	-R218	RMA4524DC		RELAY 4PDT 24VDC	CARLO GAVAZZI
- SAV20 C-SAV20 C-SAV20 CONCE SAVA0-MALES OPTE	+CAB1	-R218	SY4S05C		RELAY HOLDER 4 POLE	CARLO GAVAZZI
SO2010 CONCRED CONCRED <th< td=""><td>+CAB1</td><td>-SA203</td><td>R13-437</td><td></td><td></td><td></td></th<>	+CAB1	-SA203	R13-437			
SOVED SEAMADANUEB SOLUTE SEAMADANUEBON INC. MIC 1200 FEMIC SELVATE SEAMADANUEBON INC. MIC 1200 FEMIC SELVATESAAMAANUEBON INC. MIC 1200 FEMIC SELVATESAAMAANUEBON INC. MIC 1200 MIC MIC MIC MIC 1201 MIC MIC MIC MIC 1213 MIC MIC MIC MIC 1214 MIC MIC MIC MIC 1214<	+FIELD	-S0V210	12QW2-EUBN-7281		VALVE DIAPH 1/2	GOYEN
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1200 FFMOLC S MUTENER MUTENER MUTENER 1210 TMM UNERLAY NO NC UNAND UNAND 1212 TMM UNERLAY NO NC UNAND UNAND 1212 TMM UNERLAY NO NC UNAND UNAND 1213 TMM UNERLAY NO NC UNAND UNAND 1214 TMM UNERLAY NO NC UNAND UNAND 1214 TMM UNERLAY NO NC UNAND UNAND 1214 TMM UNAND UNAND UNAND UNAND 1215 TMM UNAND UNAND UNAND UNAND 1216 TAND UNAND UNAND UNAND UNAND 1217 TAND UNAND UNAND UNAND UNAND 1217 TAND TAND UNAND UNAND UNAND 1217 TAND TAND UNAND UNAND UNAND 1217 TAND TAND UNAND UNAND UNAND <td>+FIELD</td> <td>-S0V216</td> <td>35A-AAA-DAAJ-1JB</td> <td></td> <td>SOL.VALVE 35A-AAA-DAAJ-41B 120V NC</td> <td>MAC</td>	+FIELD	-S0V216	35A-AAA-DAAJ-1JB		SOL.VALVE 35A-AAA-DAAJ-41B 120V NC	MAC
-1210 IMI UBEREAV NONC DOM/D -1214 IMI UBEREAV NONC LOW/D -1214 IMI LOW/D LOW/D <	+CAB1	-T209	FF15MC		16 WINUTE TIMER	INTERMATIC
-1.22 MM WAR RELY NO NG -1.24 MM COM10 -1244 MM MR MRELAY NO NG 100/10 100/10 -1244 MM MRSTELAY NO NG 100/10 100/10 100/10 1244 MM MRSTELAY NO NG 100/10 100/10 100/10 1244 MM MRSTELAY NO NG 100/10 100/10 100/10 1244 MRSTELAY NO NG 100/10 100/10 100/10 100/10 1244 MRSTELAY NO NG 100/10 100/10 100/10 100/10 1244 124 124 124 124 124 1244 124 124 124 124 124 1244 124 124 124 124 124 124 1244 124 124 124 124 124 124 124 124 124 124 124 124 124 124 124 124 124 124 124	+CAB2	-T210	TMMI		TIMER RELAY NO NC	LOVATO
-T214 TMM DECREMAY NO NG LOW/10 -ICI4 Imm DECREMAY NO NG Immon NG Immon NG Immon NG -ICI4 Immon NG Immon NG Immon NG Immon NG Immon NG Immon NG -ICI4 Immon NG Im	+CAB1	-T212	TMM		TIMER RELAY 1NO 1NC	LOVATO
EXERTISE Mascrete EXERTISE Custome: EXERTISE Custome: EXERTISE EXERTISE Mascrete Drawing number: EXERTISE Drawing number: EXERTISE <td>+CAB2</td> <td>-T214</td> <td>TMM</td> <td></td> <td>TIMER RELAY 1NO 1NC</td> <td>LOVATO</td>	+CAB2	-T214	TMM		TIMER RELAY 1NO 1NC	LOVATO
M SERIE DCM 50 - 330 PH 120V POWER AND CONTROL MARKING PARTA MARKING PARTA MAR						
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ELECTRICAL SCHEMATIC WITH DCM 50 TO 330 BAG-TYPE - 3 PH - DRAWING







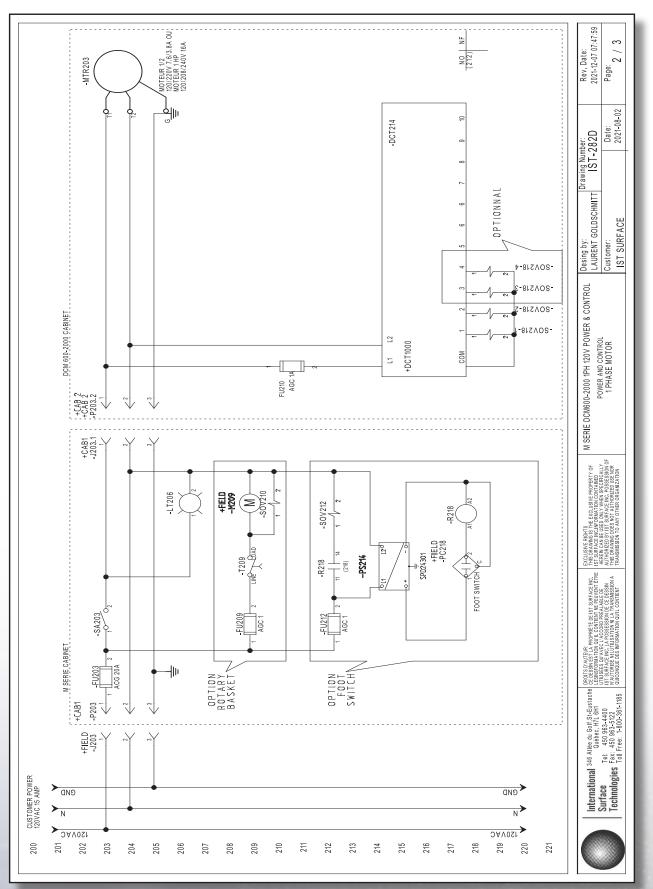
ELECTRICAL SCHEMATIC WITH DCM 50 TO 330 BAG-TYPE - 3 PH - PARTS LIST

Fonction Locali	Localisation Tag		Material (Cat. No.)	Series	Cat. No. Description Spolier	lier
+CAB1	-FU	-FU203	HKP-HHR		FUSE HOLDER E-3/RB-14-6-FL BUSSIVAN	MAN
+CAB1	-1- -	-FU203 /	AGC1		GLAS FUGE 1AMP FERRAZ	AZ
+CAB1			AGC1			AZ
+CAB1		-FU209 I	HKP-HHR		EUSEHOLDER E-3/RB-14-6-FL BUSSMAN	MAN
+CAB 2		-FU211 F	REFERT TO		REFERT TO REFERENCE LIST SCHMEDERELE	SCHNEIDER ELECTRIC
+CAB1	<u>1</u>	-FU212 1	10140		FUSEBLOCK VUSI44 WEIDMULLER	MULLER
+CAB2		-FU214 F	HKP-HHR		FUSE HOLDER E-3/RB-14-6-FL BUSSINAN	MAN
+CAB2		-FU214 /	ATDR1		FUSE 14 600V TYPE CC TIME DELAY	AZ
+FIELD	-J203		CUSTOMER		CUSTOMER FUSE DISCONECT CUSTOMER FUSE DISCONECT	OMER
+CAB1		-J203.1	5269C		15 Amp 125V- Straight Blade Socket HUBBELL	ELL
+FIELD		-LT206	2SLSTP2040DD120V/4SLSTP4040DD120	-4040DD120	STRP LED 24" / STRP L	ITUX ITUX
+FIELD		-M209 (0449 (34R4BF-Z4)		REDUCTOR MOTOR (1/6HP 115V 180/1RATIO	ų
+FIELD		-MTR207 F	REFERT TO		REFERT TO REFERENCE LIST SCHMBDER ELE	SCHNEIDER ELECTRIC
+CAB 2		-OL207 F	REFERT TO			SCHNEIDER ELECTRIC
+CAB1			5266-C		Straight Blade Plug, 15 Amp, 125 Volt, Industrial Grade - Black & White	EIL
+CAB2		-P203.2 5	5266-C		Straight Blade Plug, 16 Amp, 125 Volt, Industrial Grade - Black & White HUBBELL	ELL
+FIELD		-PC218 0	GX3-AP-1E		PHOTOELECTRIC SENSOR PNP UP TO 100MM AUTOMATIOND	AUTOMATION DIRECT
+CAB1	S4-	-PS214 8	SPD24301		POWER SUPL Y 24 VDC 300W	O GAVAZZ
+FIELD		-0207 0	COSTOMER		COSTOMER FUSE DISCONECT COSTOMER	OMER
+CAB 2		-R203 F	REFERT TO		REFERT TO REFERENCE LIST SCHNEDERELE	SCHNEIDER ELECTRIC
+CAB1	-R218		RMA4524DC		RELAY 4PDT 24VDC CARLOGAVAZZ	OGAVAZZ
+CAB1	-R218		SY4S05C		RELAY HOLDER 4 POLE CARLO GAVAZZ	.0 GAVAZZI
+CAB1	-SA	-SA203 F	R13-437A		SEALED TOGLE SWITCH SEALED TOGLE SWITCH	SHIN CHININDUSTRIAL
+FIELD		-SOV210 1	12QW2-EUBN-7281		VALVE DAPH 1/2 GOVEN	Z
+FIELD		-SOV212 3	35A-AAA-DAAJ-1JB		SOL-VALVE 35A-AAA-DAAJ-11B 120V NC MAC	
+FIELD		-SOV221 3	35A-AAA-DAAJ-1JB		SOLVALVE 35A-AAA-DAAL-10B 120V NC MAC	
+CAB1		-T209 F	FF15MC		15MNUTETIMER ISMNUTETIMER	RMATIC
+CAB2	-T211		LA9T		Transformateur de contrôle 50VA avec fusible indus SCHAEDER ELE	SCHNEIDER ELECTRIC
+CAB2	-T215		TMM		TIMER RELAY IND INC LOVATO	(TO
+CAB2	-T217		TMM		TIMER RELAY NO INC	10
+CAB 2	-T219		TMM			10
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ELECTRICAL SCHEMATIC WITH DCM 600 TO 1800 CARTRIDGE TYPE - 1 PH - DRAWING







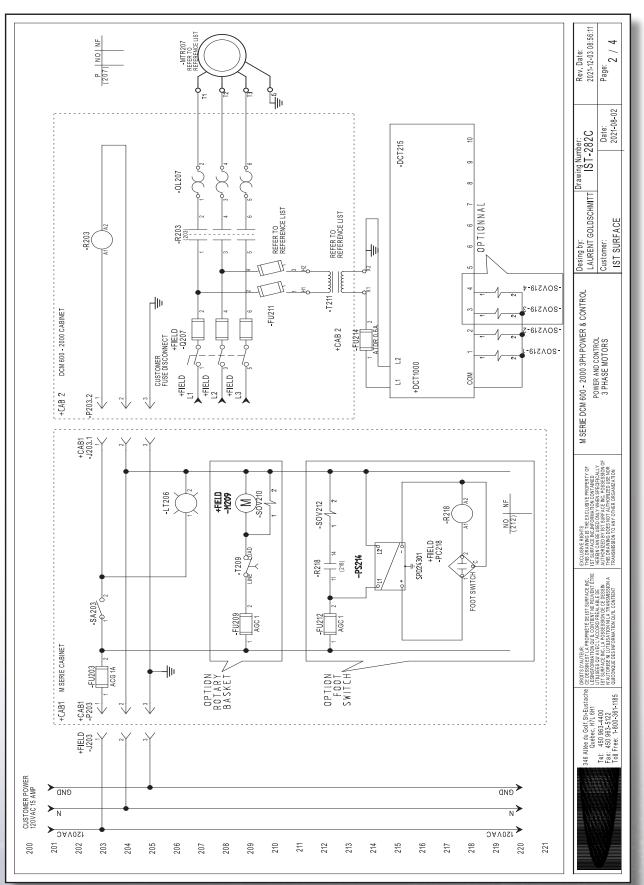
ELECTRICAL SCHEMATIC WITH DCM 600 TO 1800 CARTRIDGE TYPE - 1 PH - PARTS LIST

Spplier	DWYER	FERRAZ	BUSSMAN	BUSSMAN	BUSSMAN	WEDMULLER	CUSTOMER	HUBBELL	METALUX	BODINE	JRP	JRP	HUBBELL	HUBBELL	AUTOMATION DIRECT	CARLO GAVAZZI	CARLO GAVAZZI	CARLO GAVAZZI	SHN CHN INDUSTRIAL	GOYEN	MAC	GOYEN	GOYEN	GOYEN	GOYEN	INTERMATIC									Drawing number: Rév: Page Rev Date:	ST-282D 2021-12-09 07:52:39	Page:	2021-12-09 3 / 3	
Cat. No. Description	DUST COLLECTOR TIMER CONTROLLER	GLASS FUSE 20 AMP	FUSE HOLDER E-3/RB-14-6-FL	FUSE HOLDER E-3/RB-14-6-FL	FUSE HOLDER E-3/RB-14-6-FL	FUSE BLOCK VUSH-4	CUSTOMER FUSE DISCONECT	15 Amp 125V- Straight Blade Socket	STRIP LED 24" / STRIP LED 46"	REDUCTOR MOTOR 1/15HP 115V 180/1 RATIO	MOTOR 1HP 115-208-230/1/160 3450 RPM	MOTEUR 1/2 HP 1/20/60 3450RPM	Straight Blade Plug, 15 Amp, 125 Volt, Industrial Grade - Black & White	Straight Blade Plug, 15 Amp, 125 Volt, Industrial Grade - Black & White	PHOTOELECTRIC SENSOR PNP UP TO 100MM	POWER SUPLY 24/DC 300W	RELAY HOLDER 4 POLE	RELAY 4PDT 24VDC	SEALED TOGLE SWITCH	V4LVEDAPH 1/2	SOLVALVE 35A-AAAJ-TAB 120V NC	7" NPT Diaphragm Valve - 1/8 NPT	1" NPT Diaphragm Valve - 1/8 NPT	f" NPT Diaphragm Valve - 1/8 NPT	1" NPT Diaphragm Valve - 1/8 NPT	15 MNUTE TIMER										HIS DEAR MANUES IN FRANCHIS WARREN OF HER NOVER AN AND SOM AND SAFER FOR AND A DAMA OF A DAMA A DAMA HER NOVER AND AND AND A DAMA A DA		TRANSMISSION TO ANY OTHER ORGANIZATION LAURENT GOLDSCHMITT	
Material (Cat. No.) Series	DTC1000	AGC20	HKP-HHR	HKP-HHR	HKP-HHR	10140	CUSTOMER	5269C	2SLSTP2040DD120V/4SLSTP4040DD120	0449 (34R4BF-Z4)	YCN5642A-1X2	YCN5624A-1X2	5266-C	5266-C	GX3-AP-1E	SPD24301	SY4S05C	RMA4524DC	R13-437A	12QW2-EUBN-7281	35A-AAA-DAAJ-1JB	RCAC25T4200	RCAC25T4200	RCAC25T4200	RCAC25T4200	FF15MC									DROITS D'AUTEUR:	, Laran CE UESSIN EST LA FROPRIE LE DE IST SURFACE NU. 1. LESINSFORMATION QU'IL CONTENT NE PEUVENT ÊTI 1. UTILISFES OUTVEEL : ACCORD PFÂALARI F DE	JULIACE Tel: 450 963-4400 IST SURFACE NO. LA POSSESSION OF CED PESIN Technologies Fax: 450 963-5122 INVUTORISE M LUTILISATION M LA TRANSMISSION A	1-1185 QUICONQUE DES INFORMATION QU'IL CONTIENT	
Tag	-DCT214	-FU203	-FU203	-FU209	-FU210	-FU212	-J203	-J203.1	-LT206	-M209	-MTR203	-MTR203	-P203	-P203.2	-PC218	-PS214	-R218	-R218	-SA203	-S0V210	-SOV212	-SOV218-1	-SOV218-2	-SOV218-3	-SOV218-4	-T209									1 Rout Inductrial	Québec, H7L 6H	: 450 963 4400 :: 450 963 5122	Free: 1-800-36	
Localisation	+DCT1000	+CAB1	+CAB1				+HELD	+CAB1	+FIELD	+FIELD				+CAB 2	+HELD					+HELD	+FIELD	+FIELD	+FIELD	+FIELD	+FIELD										A160	Surface -	Technologies Fail	Toline Tol	
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ELECTRICAL SCHEMATIC WITH 600 TO 1800 CARTRIDGE TYPE - 3 PH - DRAWING







ELECTRICAL SCHEMATIC WITH 600 TO 1800 CARTRIDGE TYPE - 3 PH - PARTS LIST

Fonction	Localisation	Tag	Material (Cat. No.) Series	Cat. No. Description	Spplier
	+DCT1000	-DCT215	DTC1000	DUST COLLECTOR TIMER CONTROLLER	DWYER
	+CAB1	-FU203	AGC1	GLASSFUSE 1AMP	FERRAZ
	+CAB1	-FU203	HKP-HHR	PUSE HOLDER E-3/RB-14-6-FL	BUSSMAN
	+CAB1	-FU209	AGC1	GLASS FUSE 1 AMP	FERRAZ
	+CAB1	-FU209	HKP-HHR	PUSE HOLDER E-3/RB-14-6-FL	BUSSMAN
	+CAB 2	-FU211	REFERT TO	REFERT TO REFERENCE LIST	SCHNEIDER ELECTRIC
	+CAB1	-FU212	10140	FUSE BLOOK VUSH-4	WEIDMULLER
	+CAB2	-FU214	ATDR1	FUSE 14 600/ TYPE CC TIME DELAY	FERRAZ
	+CAB 2	-FU214	HKP-HHR	PUSE HOLDER E-3/RB-14-6-FL	BUSSMAN
	+FIELD	-J203	CUSTOMER	CUSTOMER FUSE DISCONECT	CUSTOMER
	+CAB1	-J203.1	5269C	1 15 Amp 125V-Straight Blade Socket	HUBBELL
	+FIELD	-LT206	2SLSTP2040DD120V/4SLSTP4040DD120	STRIPLED 24"/ STRIPLED 48"	METALUX
	+FIELD	-M209	0449(34R4BF-Z4)	REDUCTOR MOTOR //1/5HP fis/ 180/1 RATIO	BODINE
	+FIELD	-MTR207	REFERT TO	REFERT TO REFERENCE LIST	SCHNEIDER ELECTRIC
	+CAB 2	-0L207	REFERT TO	REFERT TO REFERENCE LIST	SCHNEIDER ELECTRIC
	+CAB1	-P203	5266-C	Straight Blade Plug, 15 Amp, 125 Volt, Industrial Grade - Black & White	HUBBELL
	+CAB 2	-P203.2	5266-C	Straight Blade Plug, 15 Amp, 125 Volt, Industrial Grade - Black & White	HUBBELL
	+FIELD	-PC218	GX3-AP-1E	P UP TO 100MM	AUTOMATION DIRECT
	+CAB1	-PS214	SPD24301		CARLO GAVAZZI
	+FIELD	-Q207	COSTOMER		COSTOMER
	+CAB 2	-R203	REFERT TO	REFERT TO REFERENCE LIST	SCHNEIDER ELECTRIC
	+CAB1	-R218	RMA4524DC	RELAY 4PDT 24VDC	CARLO GAVAZZ
	+CAB1	-R218	SY4S05C		CARLO GAVAZZ
	+CAB1	-SA203	R13-437A	SEALED TOQLE SWITCH	SHN CHNINDUSTRIAL
	+FIELD	-SOV210	12QW2-EUBN-7281	VALVEDAPH1/2	GOYEN
	+FIELD	-S0V212	35A-AAA-DAAJ-1JB	SOLVALVE 35A-AAA-DAAL-11B 120V NC	MAC
	+FIELD	-SOV219-1	RCAC25T4200	T "NPT Diaphragm Valve - 1/8 NPT	GOYEN
	+FIELD	-SOV219-2	RCAC25T4200	T "NPT Diaphragm Valve - 1/8 NPT	GOYEN
	+FIELD	-SOV219-3	RCAC25T4200	T "NPT Diaphragm Valve -1/8 NPT	GOYEN
	+FIELD	-SOV219-4	RCAC25T4200	1 "NPT Diaptragm Valve - 1/8 NPT	GOYEN
	+CAB1	-T209	FF15MC	1 SUMUTE TIMER	INTERMATIC
	+CAB2	-T211	LA9T	Transformateur de contrôle 50V à avec fusible inclus	SCHNEIDER ELECTRIC
), Boul. Industriel,	DROITS D'AUTEUR: Ce dessin est la propriété de ist surfa	EENC. THISTRAMMAGIS THE EXOLUSIVE PROPERTY OF ICT STIDE ACCE ICT 2000	umber: Rév.: Page Rev. Date:
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		: 450 963 5122 Free: 1 800 361	1185 N'AUTORISE NI LUTILISATION NI LA TRANSM QUICONQUE DES INFORMATION QU'IL CONTIE	HIS DRAWING DOES NOT AUTHORIZED USE NOR RAMBINISSION TO ANY OTHER GREAN ZATION LAURENT GOLDSCHMITT	2021-12-07

301		MOTOR	MOTOR RATINGS VOLTS INPUT,	TS INPUT, S	TARTER AN	D OVERLO/	STARTER AND OVERLOAD SELECTION		
302	POWER	VOLTS	AMPS	PHASES	HERTZ	RPM	STARTER	OVERLOAD	CUSTOMER FUSE TYPE AND CAPACITY
c	2HP	208-230/460V	6-5-4/2-7A	°	60	3450	LE1D093A620G70	LRD12/LRD08	AJT8 - AJT7/AJT4
303	2HP	575V	2.16A	e	90	3450	LE1D093A620G70	LRD10/LRD07	AJT3
304	3HP	208-230/460V	8.1-7.3/3.6A	с, с	60	3450	LE1D093A620G70	LRD14/LRD08	AJT12 - AJT10-/AJT5 A IT4
	5HP	2/37 208-230/460V	13.3-12/6.1A	- m	09	3450	LC1D18G7/LC1D12G7	LRD21L/LRD12	AJT20 - AJT15/AJT8
305	5HP	575V	4.8A	3	60	3450	LC1D18G7/LC1D12G7	LRD21L/LRD10	AJT6
200	7.5HP	575V	7.1A		90	3450	LE1D093A620G70	LRD12	AJT9
000	7.5HP	460V	8.8A	e	90	3450	LE1D093A620G70	LRD14	AJT12
307	10HP	460V 575V	12A 9.3A	~ ~	60	3450	LC1D12G7 I C1D12G7	LRD16L	AJT15 A.IT12
308				>	2	0	2		4
309			CON	TROL TRAN	CONTROL TRANSFORMER SELECTION	SELECTION			
310	PRIMAR	PRIMARY VOLTAGE	٨٨	PHASES	HERTZ	SECONDERY VOLTAGE		PART NO	PRIMARY FUSE
		600VAC	50	-	60	120VAC		SC.LA9TFD32X	0.2 amp
311	4	480VAC	50	~	60	120VAC		SC.LA9TFD32T	0.2 amp
	2	240VAC	50	1	60	120VAC		SC.LA9TFD32M	0.6 amp
312									
313			MOTOR	MOTOR RATINGS VOLT		S INPUT AND SELECTION	CTION		
314	POWER	NOLTS	AMPS	PHASES	нектг	RPM	PARTS NO	MAKER	
315	2HP	208-230/460V	6-5.4/2.7A	ŝ	99	3450	YSN5642A-2X4	JRP	
	2HP	575V	2.16A	3	99	3450	YSN5642G-575	JRP	
316	3HP	208-230/460V	8.1.7.3/3.6A	e	90	3450	NEP182TC2-2X4	NORDIC	
	ЗНР	575V	2.9A	e	09	3450	NEP182TC2-575	NORDIC	
317	SHP	208-230/460V	13.3.12/6.1A	e .	90	3450	NEP184TC2-2X4	NORDIC	
ç	5HP 7 CUD	575V	4.8A 7.4A		60	3450	NEP182TC2-575	NORDIC	
310	7 5HP	460V	488		09	3450	NEP213TC2-373	NORDIC	
319	10HP	460V	12A		60	3450	NEP215TC2-2X4	NORDIC	
	10HP	575V	9.3A	3	60	3450	NEP215TC2-575	NORDIC	
320									
321									
		346 Allée du Golf	f.St-Eustache DROIT	S D'AUTEUR: SIN EST LA PROPRIÉ	TÉ DE IST SURFACE I	INC. THIS DRAV		SERIE DCM 6	00 - 2000 3PH PC
		Tel: 450 963-4400 IIS Fax: 450 963-5122 N		REACE INC. LA POSI RISE NI LUTILISATIO	UTILISEES ON AREC PACORD PREAMBLE DE UTILISEES ON AREC PACORD PREAMBLE DE IST SUFFACE ING. LA POSSESSION DE CE DESSIN N'AUTORISE IL UTILISATION IN LA TRANSMISSION A OULOCINDIE DES INFORMATION OFFL. CONTENT	AUTHORIZ AUTHORIZ ON A THIS DRAV	THE INFORMATION OF A DESCRIPTION OF A DE	ON OF OR OR N	מדבהבווטב בוט
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REFERENCE LIST FOR M-SERIE DCM 50 TO 330 & 600 TO 1800

International Surface Technologies istsurface.com IST blast)

BEYOND THE SURFACE

International

Surface Technologies



IST LIMITED WARRANTY

IST warrants all equipment led in this manual which is manufactured by IST and bearing its name, to be free from defects in material and workmanship on the date of sale by an authorized IST distributor to the original purchaser for use. Notwithstanding any special, extended or limited warranty published by IST will, for a period of TWENTY FOUR (24) months from the date of sale, repair or replace any part of the equipment determined by IST to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with IST's written recommendations.

This warranty does not cover, and IST shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-IST component parts. Nor shall IST be liable for malfunction, damage or wear caused by the incompatibility with IST equipment with structures, accessories, equipment or materials not supplied by IST, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by IST.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized IST distributor for verification of the claimed defect. If the claimed defect is verified, IST will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser, transportation prepaid. If the inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

IST's sole obligation and the buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought forward within one (2) years of the date of sale.

IST MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY IST. These items sold, but not manufactured by IST (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. IST will provide the purchaser with reasonable assistance in making any claim for breach of these warranties.

LIMITATION OF LIABILITY

In no event will IST be liable for indirect, incidental, special or consequential damages resulting from IST supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of IST, or otherwise.

Report all accidents or "near misses" which involve IST products to:

- Technical Assistance

The following items are not covered under the IST warranty policy:

Parts or chassis replacement due to normal wears.

Defective material or workmanship is not considered normal wear





IST WARRANTY REGISTRATION

IST would like to thank you for your recent purchase of our product line. Please complete the card below and either mail or fax it to our office so that we may start the warranty of your product and keep you up to date on the EPA regulations by fax. Again, thank you for your purchase and if you have any suggestions or comments, please feel free to contact our office.

COMPANY NAME: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
ADDRESS: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
CITY: _ _ _ _ _ _ _ _ _ _ _ _ STATE/PROV. : _ _ _ _ _ _ _ _ _ _
COUNTRY : ZIP CODE :
CONTACT :
TEL. NUMBER: - EMAIL:
FAX NUMBER: - -
PURCHASE FROM:
DATE OF PURCHASE:
Month Day Year
SERIAL NUMBER: _ - _ - MODEL NUMBER: _ _ _ _ _
TYPE OF MEDIA USED:
Which factors most influenced your decision to purchase this unit?
SUGGESTIONS ABOUT THE EQUIPMENT:

Please fill out the form above and send it to us by mail, email or fax so we can register your product and keep you updated on the latest regulations released by the EPA. We thank you for your purchase and remain at your entire disposal for any further query regarding the operation of your equipment.

International Surface Technologies

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Phone : (877) 629-8202 Fax : (450) 963-5122 General Email : info@istsurface.com





ABOUT THE COMPANY

WHO WE ARE

IST is a leading manufacturer of equipment for the surface treatment industry and the solvent recycling industry. Our extensive line of equipment includes batch units and automated machines designed to achieve the highest manufacturing standards.

MISSION

IST works tightly with their customers to transform industrial processes to improve their quality, productivity, and environmental footprint.

OUR SERVICES

- Custom Design & Fabrication
- o Installation & Startup
- o Preventative Maintenance Program

INDUSTRIES WE SERVE

- Aerospace & Aviation
- o Aluminium Smelters
- o Automotive
- o Construction & Civil Engineering
- Flexography (labelling) & Lithography
- Foundry & Forge

- o Private Labels
- o Testing Lab
- o 24/7 Technical Support
- o General Manufacturing
- o Military
- Power & Energy
- o Rail & Mass Transit
- o Shipyards
- o Wood finishing





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