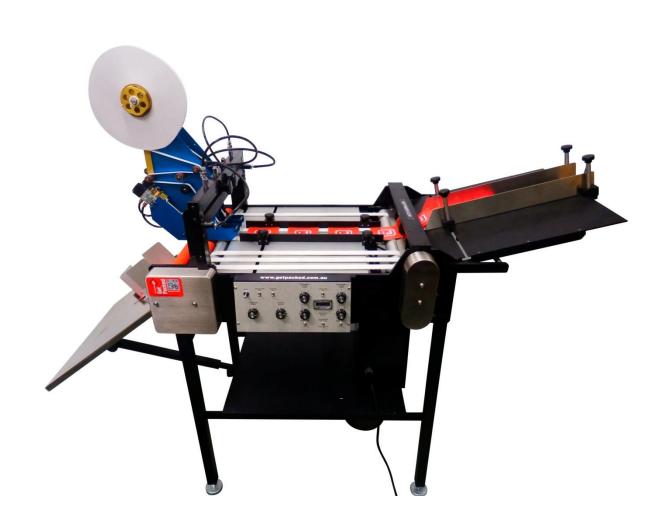
TAPE APPLYING SYSTEMS ATM-460 TAPER / FEEDER



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AUTOMATIC TAPING MACHINE



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SUBJECT APPLICABILITY	Operation Instructions ATM-460 Automatic Taping Machine
SUMMARY	Thank you for choosing the ATM-460 Combo. This document is an instructional guide for your ATM tape application system. All ATM Tape application systems are designed to be easy to learn and operate. If you have any questions, please call us on (02) 9452 3566, or sales@getpacked.com.au.
SPECIAL NOTE	Each system, when sold, comes standard with 2 metering units. More units are available upon request. Taping Systems and/or tape heads that handle tape widths of 48mm and 72mm are available.

Prior to use, please make sure the following items are included in the packing crate:

Qty	Packing Crate Items
2	Tape Metering units (24mm) *
3	Stacker Guides (with magnetic base)
2	Feeder Guides (for Feed Table)
2	Product Guides (for conveyor Table)
1	Air Quick Disconnect
1	2.3mm Metering Unit Height Adjustment Shim
1	3mm Metering Unit Height Adjustment Shim
20	Setting Template Guide (make copies for future use)

^{*} Metering units may vary according to order requirements.

Operational Requirements	Items
Air Supply	60 psi
Electrical Supply	240 volt outlet
Equipment	ATM Tape Application System
Tape	12mm to 24mm tape

IMPORTANT Please keep the system clean and free of build-up to ensure a trouble free operation.



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SYSTEM CONTROL OVERVIEW

(In the order the controls appear on the control panel from left to right)

• Conveyor Power Switch

Turns conveyor off or on.

• Feeder Power Switch

Turns the feeder off or on.

Conveyor Speed

Adjusts the conveyor speed up to 36 metres per minute.

• Feeder Speed

The Feeder speed can be adjusted up to 33 metres per minute..

Note: If conveyor speed is less than maximum speed, feeder speed should also be less than maximum speed. Change in conveyor speed will affect program.

• Counter Reset

The product counter may be reset to zero by pushing reset button located just below counter readout.

Counter Switch

Turns the counter off or on.

Controls Column For Program 1

Start Tape Adjustment Knob

There are two start tape adjustments, one for program 1 and one for program 2. These determine the start of the application of the tape. The lower the number setting, the closer to the leading edge of your product. It should be noted that the start time, if set to low, will begin tape application prior to product arrival at Tape Apply Roller and cause product to wrap around Combo Feed Roller.

Tape Length Adjustment Knob

There are two tape length adjustments, one for program 1 and one for program 2. These determine the length of time the metering units are in the apply mode. The lower the number, the less the apply time. The higher the number, the longer the apply time. It should be noted that in some cases the apply time will be longer than the product to be taped. It is best to set up the machine prior to production runs using spare products of the same size and composition as required in the production run.

End of controls Column for Program 1

Programs Coupled Switch

Couples or uncouples the metering units (for four corner spotting prior to production runs using spare products of same size and composition as required in production run.

Main Switch

Turns the ATM-460 off or on.

Controls Column For Program 2

See Program 1 controls column



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SET UP PROCEDURE

Steps	Tasks
1	Turn Main Switch on
2	Turn Conveyor Switch on
3	Adjust Conveyor speed
4	Turn Feeder Switch on
5	Adjust Feeder Speed to obtain 12-24mm spacing between products on conveyor.
6	Set Programs Coupled Switch to Programs Uncoupled.
7	Set Start Tape to begin applying tape at desired start position on product. (The lower the setting, the closer the tape will start at the leading edge of your product.)
8	Set Tape Length

THREADING AND INSTALLING THE TAPE METERING UNIT

Note: All systems will accommodate rolls with internal or external adhesive

Steps	Tasks
1	Install the tape onto the unwind. (To thread the tape metering unit always have
	the adhesive facing the operation when coming off the roll.)
2	Unroll the tape to the forward roller.
3	Go back to the tension arm and down to the 3-position tape guide.
4	Rotate the 3-position tape guide to the size closest to the size of your tape.
5	Drop the tape into the metering unit to the tape shoe.
6	Adjust tape guides to the size of the tape you are running.
7	Insert the tape into the shoe with the tape shoe in apply mode.
8	Pull the tape through the shoe and out the bottom, making sure it (tape) is
	between the tape apply roller and the Teflon covered wire.
9	Push the tape shoe up to the cut position while holding the tape.
10	Install onto machine with mounting knob.
11	Plug in electrical
12	Plug in air

The metering unit is now ready to use.



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ADJUSTING THE METERING UNIT HEIGHT FOR STANDARD PRODUCTS

For standard products up to .76mm thick, position the metering unit 3mm above the product on the machine rollers.

Steps	Tasks
1	Place the product across the rollers.
2	Loosen the 4 attaching socket head screws on the mount block.
3	With the metering unit installed, place a 3mm shim between the metering unit main frame and the rollers.
4	Push the metering unit down until contact is made with the shim stock along the entire length of the metering unit.
5	Re-torque socket head cap screws to 45 kg/cm. (This pre-loads the spring-mounted rollers for proper tension.)

The metering unit is now ready to use.

INSTALLING THE METERING UNIT HEIGHT FOR THICK PRODUCTS

For thicker material, position the metering unit 2.3mm above the product on the machine rollers.

Steps	Tasks
1	Place the product across the rollers.
2	Loosen the 4 attaching socket head screws on the mount block.
3	Place a 3mm shim between the product and the metering unit main frame.
4	Push the metering unit down until contact is made with the 2.3mm shim.
5	Re-torque the socket head mount screws to 45 kg/cm. (This pre-loads the spring-mounted rollers for proper tension.)

The metering unit is now ready to use.



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TAPING PATTERN EXAMPLES

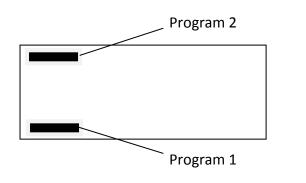


FIGURE 1 SETTINGS

Program 1Program 2Start Tape2Start Tape2Tape Length3Tape Length3

Figure 1. Taping same end of product.

The Programs are uncoupled

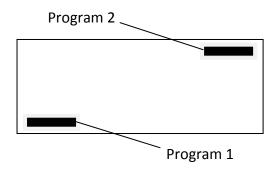


FIGURE 2 SETTINGS

Program 1Program 2Start Tape2Start Tape5Tape Length3Tape Length3

Figure 2. Taping opposite end of product

The Programs are uncoupled

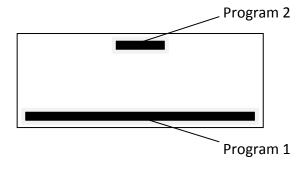


FIGURE 3 SETTINGS

Program 1Program 2Start Tape2Start Tape3Tape Length8Tape Length3

Figure 3. Taping the middle and the length of the product. The Programs are uncoupled



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TAPING PATTERN EXAMPLES

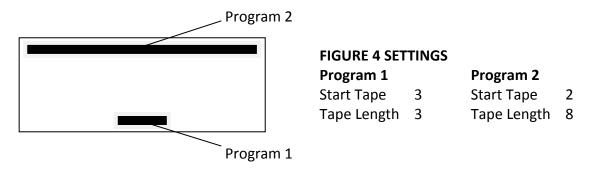


Figure 4. Taping the length and the middle of the product. The Programs are uncoupled

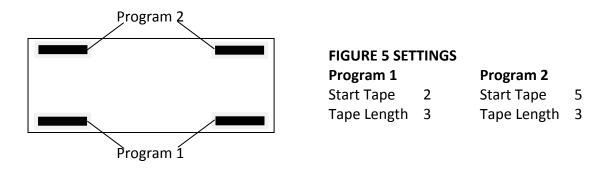


Figure 2. Taping both ends of the product.

The Programs are coupled



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TROUBLE SHOOTING GUIDE

Problem	Romody	
	Remedy	
IF THE TAPE WILL NOT APPLY AND THE	Improper threading of unit	
METERING UNITS ARE ACTIVATING THEN	Rethread as per instructions.	
	Metering units are not plugged in	
IF THE TAPE WILL NOT APPLY AND THE	Plug in metering units.	
METERING UNITS ARE NOT ACTIVATING	Program switches are off	
THEN	Turn on program switches.	
	Air pressure is too low	
	Adjust air pressure to 50 – 60 psi.	
IF THE METERING UNITS ARE IN APPLY	Sensor is blocked	
MODE AT ALL TIMES AND THE SENSOR IS	Unblock the sensor.	
BLOCKED THEN		
	Defective sensor	
	Check and replace if necessary.	
	Light Source inoperable	
	Check and replace if necessary.	
	Cell (receiver) inoperable	
	Check and replace if necessary.	
	Note: Check indicator light on circuit board.	
IF THE METERING UNITS ARE IN APPLY	If Light is off then sensor is blocked.	
MODE AT ALL TIMES AND THE SENSOR IS	If Light is on then sensor is not blocked.	
NOT BLOCKED THEN	Light is turned off	
NOT BLOCKED THEN	Set sensitivity by rotating thumb-wheel pot	
	to ON (Clear).	
	Defective light source	
	If unable to turn light on by adjusting, then	
	check by using flashlight to shine into cell	
	(receiver) (black wire) located in upper	
	mount bar. If indicator light lights then	
	replace the light source (grey wire).	
	Light On at All times Cell (receiver) (black	
	wire) inoperable.	
	Remove and replace cell.	
	Electronic Failure	
IF THE METERING UNITS ARE IN APPLY	Remove power supply and return to factory	
MODE AT ALL TIMES AND THE SENSOR IS	for repair.	
NOT BLOCKED THEN	Note: If Electronic Failure – Check metering	
	units for shorted coils. Repair as necessary	
	or return to factory for repair. Shorted coils	
	will short out power supply transistors.	
	The state of the s	



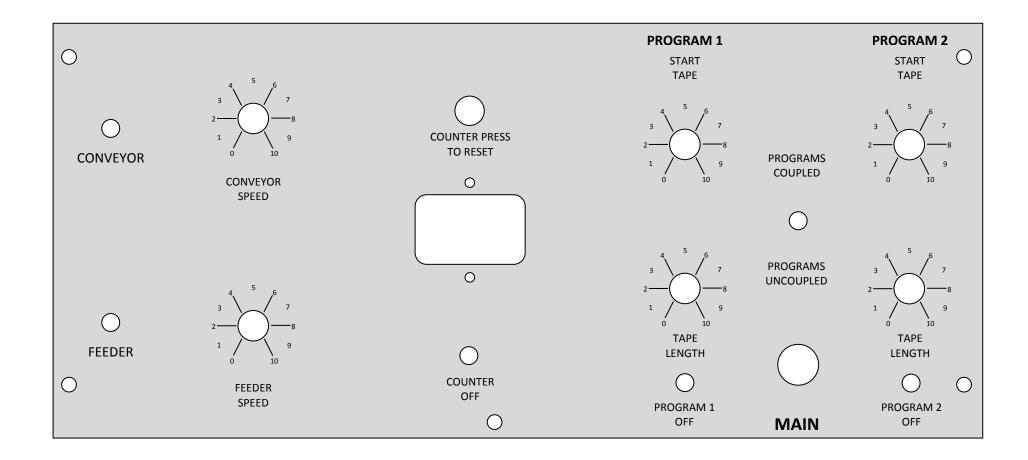
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TROUBLE SHOOTING GUIDE (cont...)

Problem	Remedy	
	Incorrect Start Tape adjustment	
	Adjust start tape to a lower number.	
	Incorrect Conveyor Speed	
	Adjust the conveyor speed.	
	Note: Select conveyor speed for best lay of	
	tape. (Slow equals greater accuracy). Adjust	
	feeder speed to obtain a 12mm to 24mm	
IF TARE ARRIVES TOO LATE THEN	gap between products. Once adjusted,	
IF TAPE APPLIES TOO LATE THEN	speed must remain or re-adjustment of tape	
	start time and tape length is required.	
	Improperly Adjusted Flow Controls	
	Adjust flow controls on metering units.	
	(Open 1.5 – 2 turns from closed position –	
	screw in towards bottom.)	
	Low Air Pressure	
	Increase air pressure to 50 – 60 psi.	
	Incorrect tape length adjustment	
IF TAPE APPLIES TOO LONG THEN	Adjust tape length to a lower number.	
IF TAPE APPLIES TOO LONG THEN	Incorrect Conveyor Speed	
	Adjust conveyor to a slower speed.	
IF THE MACHINE WILL NOT OPERATE AND	Bad fuse	
THE FUSES ARE BLOWN THEN	Replace fuse with 2 amp fast blow fuse only.	
	Power source failure	
	Check circuit for proper voltage – 240V AC.	
	Repair as necessary or relocate to useable	
	circuit.	
IF THE MACHINE WILL NOT OPERATE AND	Unusable electric circuit	
THE FUSES ARE NOT BLOWN THEN	Check circuit for proper voltage – 240V AC	
	Repair as necessary or relocate to useable	
	circuit.	
	System unplugged	
	Plug system into 240V AC outlet.	
MACHINE OPERATES BUT THE METERING	Air supply is low	
UNITS DO NOT WORK AND THE SOLENOID	Check and adjust air supply to 50 – 60 psi.	
VALVE IS CLICKING (OPERATING) THEN		
MACHINE OPERATES BUT THE METERING	Shorted or broken wire in valve cord or	
UNITS DO NOT WORK AND THE SOLENOID	plug.	
VALVE IS NOT CLICKING (OPERATING)	Repair as necessary	
THEN	of haild are to prove the tree constitution	

IMPORTANT: Keep the system clean and free of build-up to ensure trouble free operation.





PROGRAM 1

START TAPE

PROGRAM 2

START TAPE



PROGRAMS COUPLED



TAPE LENGTH

PROGRAM 1

OFF

PROGRAMS UNCOUPLED



MAIN

TAPE LENGTH

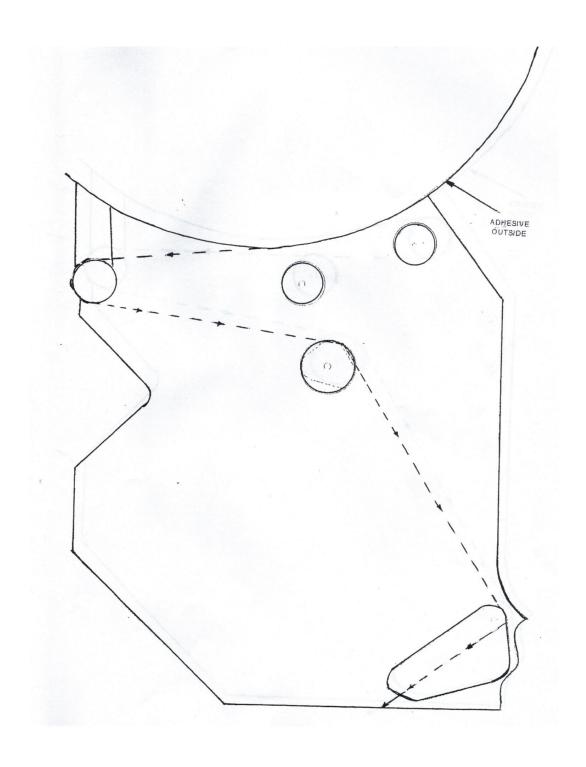


PROGRAM 2 OFF

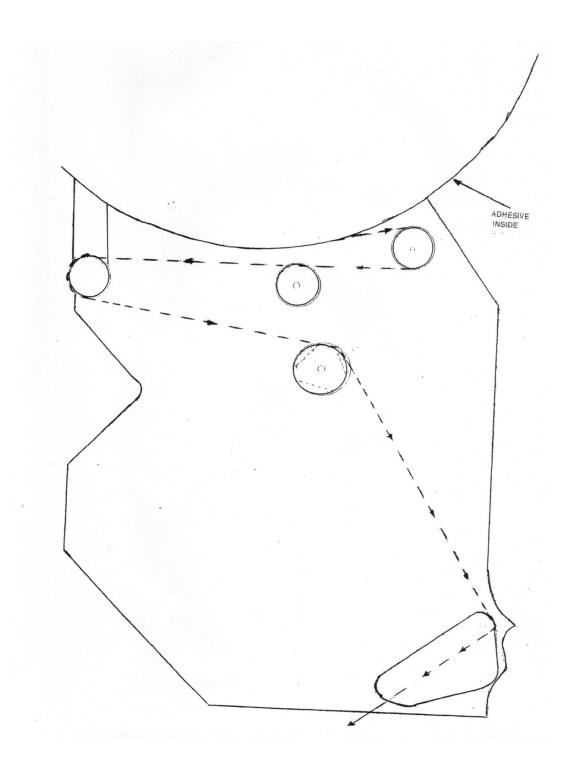




CONVEYOR SPEED







TAPE METERING UNIT PARTS LIST



2019		
Item ID	Item Description	
2-ATM-15000	1" Wide Metering Unit	
2-ATM-15000-2	Metering Unit for 2" Head	
2-ATM-15000-3	3" Wide Metering Unit	
2-ATM-15000-HS	Metering Unit	
2-ATM-15001	Main Frame Plate	
2-ATM-15002	Access Side Plate	
2-ATM-15003	Tape Shoe Pivot Pin	
2-ATM-15003-2	Tape Shoe Pivot Pin for 2" Head	
2-ATM-15004	Knife Arm Pivot Pin	
2-ATM-15004-2	Knife Arm Pivot Pin for 2" Head	
2-ATM-15005	Cylinder Pivot Mount Pin	
2-ATM-15005-2	Cylinder Pivot Mount Pin 2" Head	
2-ATM-15006	Tape Guide Pin	
2-ATM-15006-2	Tape Guide Pin for 2" Head	
2-ATM-15007	Capstan Pin	
2-ATM-15007-2	Capstan Pin for 2" Head	
2-ATM-15008	Unwind Pin Unwind Pin for 2" Head	
2-ATM-15008-2 2-ATM-15009		
2-ATM-15009 2-ATM-15009-2	Tape Apply Roller Pin Tape Apply Roller Pin for 2" Head	
2-ATM-15009-2 2-ATM-15010	Pressure Roller Pin	
2-ATM-15010 2-ATM-15010-2	Pressure Roller Pin for 2" Head	
2-ATM-15010 2	Spotter Shaft	
2-ATM-15011	Tape Check and Link Pin	
2-ATM-15011-2	Tape Check and Link Pin for 2" Head	
2-ATM-15012	Clevis and Knife Link Pin	
2-ATM-15012-2	Clevis and Knife Link Pin for 2" Head	
2-ATM-15013	Mounting Clamp	
2-ATM-15013-2	Mounting Clamp for 2" Head	
2-ATM-15014	Tape Shoe	
2-ATM-15014-2	Tape Shoe for 2" Head	
2-ATM-15015	Link	
2-ATM-15015-2	Link for 2" Head	
2-ATM-15016	Knife Arm Knife Arm for 2" Head	
2-ATM-15016-2 2-ATM-15017	Cylinder Rod Clevis	
2-ATM-15017 2-ATM-15018	Knife	
2-ATM-15018 2-ATM-15018-2	Knife for 2" Head	
2-ATM-15019	Pressure Roller Mount	
2-ATM-15019-2	Pressure Roller Mount for 2" Head	
2-ATM-15019B	Pressure Roller Block	
2-ATM-15019B-2	Pressure Roller Block for 2" Head	
2-ATM-15019C	Pressure Roller Mounting Bar	
2-ATM-15019C-2	Pressure Roller Mounting Bar for 2" Head	
2-ATM-15020	Air Valve & Cylinder Mounting Block	
2-ATM-15020-2	Air Valve & Cylinder Mounting Block for 2" Head	
2-ATM-15021	Tape Check Stud Clamp Mount	
2-ATM-15021-2	Tape Check Stud Clamp Mount for 2" Head	
2-ATM-15022	Spring Loaded Tape	
2-ATM-15022-2	Spring Loaded Tape for 2" Head	
2-ATM-15023	Positioning Spring	
2-ATM-15024	Unwind Tape Core Holder	
2-ATM-15024-2	Unwind Tape Core Holder for 2" Head	
2-ATM-15025	Unwind Felt Washers	
2-ATM-15026 2-ATM-15027	1 1/4" Pressure Roller Pin 1" Pressure Roller Guide Pin	
	'	.
2 ATM 460 Auto	matic Taning Machine 460mm Parts List	Dago 1

TAPE METERING UNIT PARTS LIST



2013	
2-ATM-15028	Capstan Roller
2-ATM-15028-2	2" Capstan Roller
2-ATM-15029	3 position Tape Guide
2-ATM-15029-2	3 position Tape Guide for 2" Head
2-ATM-15030	Trailing Pressure Roller
2-ATM-15030-2	Trailing Pressure Roller for 2" Head
2-ATM-15031	Tape Apply Roller
2-ATM-15031-2	Tape Apply Roller for 2" Head
2-ATM-15031-3	Tape Apply Roller for 3" Head
2-ATM-15032	Leading Pressure Roller
2-ATM-15032-2	Leading Pressure Roller for 2" Head
2-ATM-15032 2 2-ATM-15033	Clamp Locking Knob
2-ATM-15033	Inboard Tape Guide
2-ATM-15034 2-ATM-15035	Outboard Tape Guide
	-
2-ATM-15036	Tape Check Roller
2-ATM-15037	Stripper Shoe
2-ATM-15037-2	Stripper Shoe for 2" Head
2-ATM-15037-3	Stripper Shoe for 3" Head
2-ATM-15038	1/4" x 4 1/4" Air Tube
2-ATM-15039-HS	Air Valve
2-ATM-15039A	Valve Assembly
2-ATM-15040-HS	Air Cylinder
2-ATM-15041	Tension Arm
2-ATM-15042	1/4" – 20 Hex Nut
2-ATM-15043	1/8" Npt Cyl Barb
2-ATM-15044	#10 – 32 Nipple
2-ATM-15045	#10 – 32 Coupling
2-ATM-15046	#10 – 32 Barb
2-ATM-15047	Silicon Roller
2-ATM-15048	11/16 x .026 Spring
2-ATM-15049	1" x .026 Spring
2-ATM-15050	1/8" x 1/4" Poly Flow 90° Elbow
2-ATM-15051	Tape Shoe Spring
2-ATM-15052	1/16" x 1 3/8" Steel Pin
2-ATM-15053	Threaded Rod
2-ATM-15054	#6 – 32 x 1/8" Butt Head Screw
2-ATM-15055	#6 – 32 x 1/4" Butt Head Screw
2-ATM-15056	#8 – 32 x 1/4" Butt Head Screw
2-ATM-15057	#8 – 32 x 3/8" Butt Head Screw
2-ATM-15058	#10 – 32 x 1/2" Butt Head Screw
2-ATM-15059	#10 – 32 x 1 1/2" Butt Head Screw
2-ATM-15060	1/4" C-Clips
2-ATM-15060A	3/8" C-Ring
2-ATM-15061	3/16" E-Ring
2-ATM-15061	1/4" E-Ring
2-ATM-15062 2-ATM-15063	3/8" E-Ring
2-ATM-15063 2-ATM-15064	3/16" x 1/4" x 1/4" Oil Bushing
	1/4" x 3/8" x 1/4" Oil Bushing
2-ATM-15065	_
2-ATM-15066	3/8" x 1/2" x 3/8" Oil Bushing
2-ATM-15067	3/4" x 1" Emory Drums
2-ATM-15068	Core Holder Clip
2-ATM-15069	3/8" Shaft
2-ATM-1507	Springs
2-ATM-15070	Input Air Tube
2-ATM-15071	Tension Spring

