AM-1 & AM-2 Pellet Launcher System

The AM-1&AM-2 pellet launcher system is a purpose built air tool designed to effectively and efficiently clean the internal surfaces of Hose, Tube and Pipe.

The product utilises compressed air as a propellant and is designed to be connected by a3/8"(10mm) or 1/2"(12mm) ID air line to a air source not exceeding 110psi.

Recommended operating range 85-100psi

PelIet Launcher

- **Two finger trigger mechanism to minimise hand fatigue.**
- **Two port outlets for attachments such as Pressure Gauge and Pressure Relief Valve.**
- **Streamline design for comfortable easy opcration.**



AM-2(50mm)

Adaptor Ring

- **Sized to suit 5mm—32mm.**

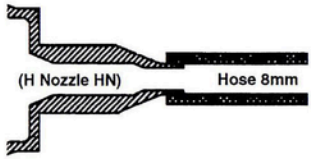


AM-1(50mm)

Nozzles

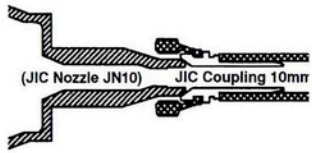
There are four types of NozzIes These nozzles range in size from 5mm (13/64) -50mm (2") and are designed to suit standard house, tube and pipe And JIC & BSP hydraulic fittings.





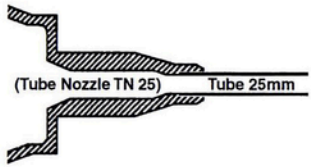
The HN Nozzle(White). These Nozzles fit into any hose, tube or pipe.





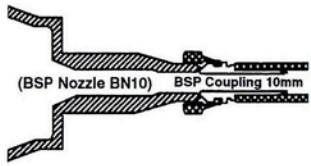
The JN/TN Nozzle (Green). Use on JIC Hydraulic Fittings & Square cut tube. The JN Nozzles fit inside the fitting and seals against the inside lip





The TN NozzIe (Green) The TN NozzIes fit over the tube and seals Against the inside lip.





The BN Nozzles (Blue). Use on BSP Hydraulic fittings. The BN Nozzles fit inside the fitting and seal against the inside lip.

Introduction of pneumatic cleaning equipment



Device Name	AM-1 FKIT
AM-1 Hand-piece：1	Foam Base：1
50mm Crimp Head：1	Quick Release Fitting：1
Nozzles：31	
Nozzle Speci：5mm-50mm	
User Manual：1（include pellect chart）	
Case Size：Medium Case & Insert	



Hose Nozzles [White]
HN6、HN8、HN10、HN13、HN16、HN19、HN25
HN32、HN38、HN50

Tube/JIC Nozzles [Green]
TN5、JN6、TN6、TN8、JN10、TN10、JN/TN13
JN/TN16、JN19/TN19、JN/25/TN22、JN32/TN25
TN32、JN/TN038、JN/TN050

BSP Nozzles [Blue]
BN006、BN010、BN013、BN016、BN019、BN025
BN032



Device Name	AM-2 FKIT
AM-2 Hand-piece：1	Foam Base：1
50mm Crimp Head：1	Quick Release Fitting：1
Nozzles：31	
Nozzle Speci：5mm-50mm	
User Manual：1（include pellect chart）	
Case Size：Medium Case & Insert	



Hose Nozzles [White]
HN6、HN8、HN10、HN13、HN16、HN19、HN25
HN32、HN38、HN50

Tube/JIC Nozzles [Green]
TN5、JN6、TN6、TN8、JN10、TN10、JN/TN13
JN/TN16、JN19/TN19、JN/25/TN22、JN32/TN25
TN32、JN/TN038、JN/TN050

BSP Nozzles [Blue]
BN006、BN010、BN013、BN016、BN019、BN025
BN032

Introduction of pneumatic cleaning equipment



Device Name	AM-1 100
AM-1 Hand-piece：1	Foam Base：1
100mm Crimp Head：1	Quick Release Fitting：2
Nozzles：6	
Nozzle Speci：63mm-100mm	
Nozzle Adaptor Ring：1	
User Manual：1（include pellect chart）	



Nozzles [White]

AHN63、AHN 75、AHN 79、AHN 88、AHN100



Device Name	AM-2 100
AM-2 Hand-piece：1	Foam Base：1
100mm Crimp Head：1	Quick Release Fitting：2
Nozzles：6	
Nozzle Speci：63mm-100mm	
Nozzle Adaptor Ring：1	
User Manual：1（include pellect chart）	



Nozzles [White]

AHN63、AHN 75、AHN 79、AHN 88、AHN100

AM-1 & AM-2 General Operation



Step One

Loosen Locking Nut by turning in an anti-clock wise direction
Select appropriate pellet launcher Head
Connect the head to AM-2 Hand-piece by inserting the spigot into the locking mechanism and aligning the locator



Step Two

Lock the head into position by turning the locking nut in a clock wise direction.
Check to ensure head is securely fixed.



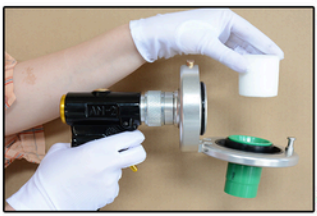
Step Three

Depress the Key lock button to open front face plate.



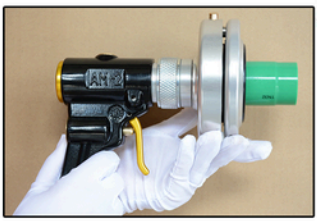
Step Four

Select and insert appropriate nozzle into the face plate



Step Five

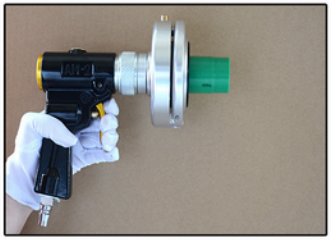
Select the appropriate pellet from the pellet sizing chart and fully insert into the rear of the nozzle



StepSix

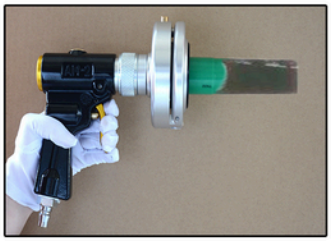
Close face plate with nozzle by squeezing face plate against main body until locked into position.

AM-1 & AM-2 General Operation



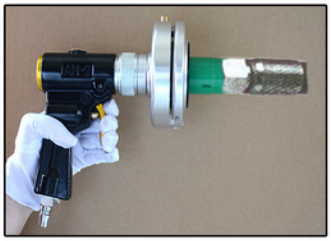
Step Seven

Connect the air supply by a quick release 10mm（3/8”）or 12m(1/2”）coupling.
The minimum air pressure required is 600kPa/85psi and a maximum of 700kPa/100psi of regulated air.
The air source can be from a standard 10-15cfm compressor or a suitable air or inert gas bottle.
Nozzles above 50mm or longer distances may require greater cfm capacity.
Never Use Oxygen as an air source.



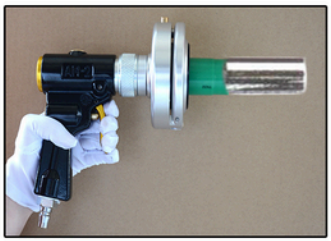
Step Eight

Before operating the AM-2 pellet launcher, check to ensure the exit end of the hose/Tube or Pipe to be cleaned is contained an a pellet catcher or pointing in a safe direction WARNING; This is important as some pellets (eg.Grinding) and contamination that may be expelled may cause injury.



Step Nine

Place the nozzle firmly into or against the Hose, Tube or Pipe to be cleaned to ensure a firm seal is achieved.
Depress the trigger until the pellet emerges from the exit end. If the trigger is release or the air supply cut off before the pellet exits, it will remain in the Hose, tube or pipe until the trigger is depressed again with the correct air supply connected.
The use dpellet can help to diagnose the cleanliness and condition of the hose tube or pipe being cleaned.



Safety

When operating the Pellet Launcher there are some basic safety rules you must follow.

- **AIways wear safety glasses.**
- **Wear protective clothing, gloves and respiratory protection as required.**
- **Never point the launcher at another person or yourself.**
- **Ensure that the hose,tube or pipe from which the contaminates will be ejected is contained in a pellet catcher and or pointed in a safe direction.**
- **Check that the air supply is fitted correctly and always turn off the air supply before disconnecting the line.**
- **Regularly maintain the pellet Launcher and accessories.**

Maintenance

Basic maintenance of your pellet launcher and accessories will ensure smooth operation. Simple steps are as follows;

- **Store pellet launcher and nozzles in the case provided**
- **Keep pellet launcher and nozzles clean,soap and warm water are adequate to keep the nozzles clean.**
- **Use a small amount of lubricant on all O-rings.**
- **A mal amount of oiI in the air inlet will usually stop a leaking trigger**
- **Always store the pellets in boxes away from direct sunlight or fluorescent light as the pellets are subject to deterioration and discolouration under these conditions.**

ProbIem Solving

ProbIem： Pellet remains lodged in hose,tube or pipe.

Solution：

1. Operate the unit from the other end without using a pellet.
2. Check if the air pressure is adequate.
3. Check that the hose fittings from the air source are the recommended size.
4. Clear first， then consider using smaller pellet.
5. Check for line restrictions i.e. Contraction and expansion of line.
6. Once the pellet is recovered check it for tears.This may indicate a foreign obstruction.
7. Check that the line has no other outlets of offshoots.

Problem ： PeIlet will not enter hose,tube or pipe.

Solution：

1. Ensure that the tube entry is not restricted.
2. Check if air pressure is adequate.
3. Blast air only through the system.
4. Check the pellet is the recommended size.
5. Try a smaller pellet.

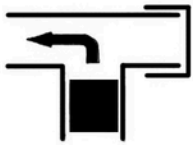
Problem: NozzIe does not slide easily into Pellet Launcher

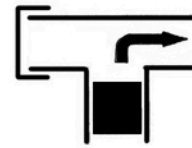
Solution：

1.Lubricate the o-ring

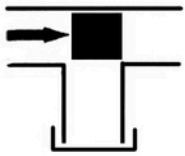
Problem SoIving

T Piece

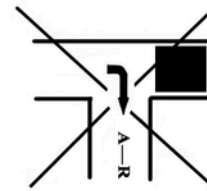




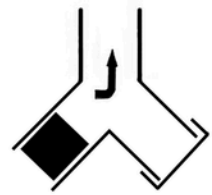
Always fire into a T piece and block off the opposite end to the side you want to clean



If you cannot close or cap one end of the T piece,close the lower inlet and fire across the top.



<u>Please not:</u>The pellet must hit the wall of the pipe to turn; it will not turn by itself



a)Always fire into one of the two ends in the continuing line.
b)Then fire from the other end into the continuing line.
c) Follow the same procedure as for a T piece.

Pellet and nozzle matching table

PART No	METRIC SIZE	IMPERIAL SIZE	RECOMMENDED	RECOMMENDED
HOSE NOZZLES			HOSE WITHOUT	HOSE WITH
HN06	6mm	¼"	S/M 7mm	M 7mm
HN08	8mm	5/16"	S/M10mm	M10mm
HN10	10mm	3/8"	S/M12mm	M12mm
HN13	13mm	½"	S/M16mm	M16mm
HN16	16mm	5/8"	S/M20mm	M20mm
HN19	19mm	¾"	S/M26mm	M22mm
HN25	25mm	1"	S/M33mm	M33mm
HN32	32mm	1 ¼"	S/M40mm	M40mm
HN38	38mm	1 ½"	S/M50mm	M50mm
HN50	50mm	2"	S/M60mm	M60mm
JIC & TUBE NOZZLES			TUBE	JIC COUPLINGS
TN05	5mm	3/16"	S 5mm	
JN06	6mm	¼"		M 7mm
JN08/TN06	8mm/6mm	5/16" ; ¼"	S/M/A 7mm	M 7mm
TN08	8mm	5/16"	S/M/A 10mm	M 10mm
JN10	10mm	3/8"		M 12mm
TN10	10mm	3/8"	S/M/A 12mm	M 12mm
TN12	12mm		S/M/A 12mm	
JN13/TN13	13mm	½"	S/M/A 16mm	M 16mm
TN15	15mm		S/M/A 18mm	
JN16/TN16	16mm	5/8"	S/M/A 20mm	M 20mm
TN18	18mm		S/M/A 20mm	
JN19/TN19	19mm	¾"	S/M/A 22mm	M 22mm
TN20	20mm		S/M/A 26mm	
JN25/TN22	25mm/22mm	1" ; 7/8"	S/M/A 33mm	M 26mm
JN32/TN25	32mm/25mm	1 ¼" ; 1"	S/M/A 40mm	M 33mm
TN28	28mm		S/M/A 33mm	
TN30	30mm		S/M/A 35mm	
TN32	32mm	1 ¼"	S/M/A 40mm	M 40mm
TN35	35mm		S/M/A 45mm	
JN38/TH38	38mm	1 ½"	S/M/A 50mm	M 50mm
TN42	42mm		S/M/A 55mm	
JN50/TN50	50mm	2"	S/M/A 60mm	M 60mm
TN60	60mm		S/M/A 65mm	
BSP NOZZLES				BSP COUPLINGS
BN06	6mm	¼"		M 7mm
BN10	10mm	3/8"		M 12mm
BN13	13mm	½"		M 16mm
BN16	16mm	5/8"		M 20mm
BN19	19mm	¾"		M 22mm
BN25	25mm	1"		M 33mm
BN32	32mm	1 ¼"		M 40mm
		GRINDING	PELLETS	
TN10	10mm	3/8"	7mm	
TN13	13mm	½"	10mm	
TN16	16mm	5/8"	14mm-16mm	
TN19	19mm	¾"	18mm	
TN22	22mm	7/8"	22mm-26mm	
TN25	25mm	1	26mm	
TN32	32mm	1"	33mm	
TN38	38mm	1 ¼"	40mm	
TN50	50mm	2"	50mm	

(S) STANDARD (M) MULTI PURPOSE (A) ABTASIVE
This chart indicates recommended pellet sizes
however larger or smaller pellets may be appropriate in some instances

Pellet Introduce

Pellets clean by being compressed against the internal surface of the hose,tube or pipe.

There are four types of pellets currently available:

- **Standard (S) - for all hose,tube and pipe without fittings**
- **MuIti Purpose (M) - for complex assemblies,hoses with fittings and eliminates fine particles of contamination**
- **Abrasive (A)-for tube or pipe where there is a build up of contamination, rust or mill scale**
- **Grinding (G)-for tube or pipe where there is a greater build up of contamination, rust or scale.**

Pellets range in size from 5mm-120mm



MPP



NSP



NAP



GP

Pellet introduce



MPP

Coupling foam projectile are made from Flexible polyurethane foamThe main application is the cleaning of assemblies hoses with fittings and to eliminate fine particles of contamination.



SMPP

Coupling foam projectile are made from Flexible polyurethane foamThe main application is the cleaning of assemblies hoses with fittings and to eliminate fine particles of contamination.



NSP

Standard foam projectile are made from reconstituted flexible polyurethane foam. The main application is the cleaning of all Hose Tube and Pipe without fittings.

Pellet introduce

Abrasive foam projectile are made



from reconstituted flexible polyurethane

foam with an abrasive pad attached

The main application is the cleaning of

all Tube and Pipe without fittings

where there is a build up of contamination

NAP

surface rust or mild scale.

Grinding foam projectile are made from



flexible polyurethane foam with aluminium

oxide adhered to the circumference of the

pellet.The main application is the cleaning

build up of contamination surface rust or

mild scale.Recommended sizes are

GP

surface rust or mild scale.