



THE TOOL COMPANY

# 50-90mm AIR NAILER

■ STOCK No.66492

■ PART No.AN50-90

## • INSTRUCTIONS •

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS TOOL.



## GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of the power tool equipment, which should be kept with the machine.

This manual describes the purpose for which this tool has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation of the machine, before performing any kind of adjustment to the machine, and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both machine and operator safety, together with longer life of the tool itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the machine.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tool policy of continuous improvement determines the right to make modifications without prior warning.



THE TOOL COMPANY

# 50-90mm AIR NAILER

■ STOCK No.66492

■ PART No.AN50-90

## CONTENTS:

	Page No.
Contents/Declaration .....	1
Specification/Guarantee.....	2
General Safety Warnings.....	3
Getting to Know Your Air Nailer.....	4
Operation & Use .....	5-8
Maintenance/Troubleshooting .....	8
Optional Accessories .....	9



## DECLARATION OF CONFORMITY

We  
Draper Tools Ltd. Hursley Road, Chandler's Ford, Eastleigh, Hampshire.  
SO53 1YF. England.

Declare under our sole responsibility that the product:

**Part No:- AN50-90**

**Stock No- 66492**

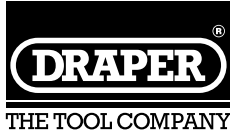
**Description:- Air Nailer Kit**

To which this declaration relates is in conformity with the following directive(s)  
**98/37/EC**

With reference to: **prEN792-13, ISO8662-1, ISO3744 & ISO11201**

JOHN DRAPER  
Managing Director

13/08/2001



# SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Part No. ....	AN50-90
Stock No. ....	66492
Operating air pressure .....	80-120PSI
Max. operating air pressure.....	120PSI
Air inlet size .....	1/4" BSP
To drive nails length .....	50-90mm
Head type .....	Round (full head)
Shank diameter .....	2.87-4.1mm
Angle .....	21°
Collated nail type.....	Plastic coated
Firing modes .....	Single shot, Bump fire
Magazine capacity .....	60pcs.
Dimensions .....	380 x 490 x 150mm
Weight.....	3.6kg
Sound pressure level .....	96 dB(A)
Sound power level .....	104 dB(A)
Vibration level .....	4.6m/s <sup>2</sup>

**ALWAYS WEAR EAR AND EYE PROTECTION**



# AIR TOOL GUARANTEE

Draper air tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for 6 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should the machine develop any fault, please return the complete tool to your nearest authorized warranty repair agent or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone (023) 8026 6355.

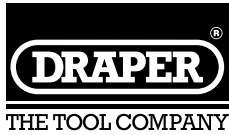
If, upon inspection, it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted to made by any persons other than the authorized Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorized.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited



## **GENERAL SAFETY INSTRUCTIONS FOR AIR TOOL PRODUCTS**

### **WARNING**

Please read the following instructions carefully, failure to do so could lead to serious personal injury.

### **IMPORTANT**

Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

1. Always wear safety goggles or glasses.
2. Always ensure machine is switched off before connecting to air supply.
3. Disconnect any machine from the air supply before changing blades or discs and before servicing any type of machine.
4. Always keep your air tool clean and lubricated. Daily lubrication is essential to avoid internal corrosion and possible failure.
5. Do not wear watches, rings, bracelets or loose clothing when using air tools.
6. Using only light weight coil hoses from a tool to the wall or compressor coupling . Do not fit quick change couplings onto the machine as vibration can cause the coupling to fail.
7. Do not overload the machine. Allow the tool to operate at it optimum speed for maximum efficiency.
8. Do not increase the air pressure above the manufacturers recommended level, as excessive overload can cause the machine casing to split. Also this creates excessive wear on moving part and may cause possible failure.
9. In the interests of safety and possible damage to the machine/operator, always ensure the machine has stopped before putting it down after use.
10. Always ensure the work piece is is firmly secures leaving both hands free to control the machine.
11. Always ensure that accessories such as blades, discs, sockets, etc. are rated/designed for use with the machine and are securely fastened correctly before connecting the machine to the air supply.
12. When grinding, sanding or cutting always wear appropriate face mask or respiratory equipment.

# GETTING TO KNOW YOUR AIR NAILER

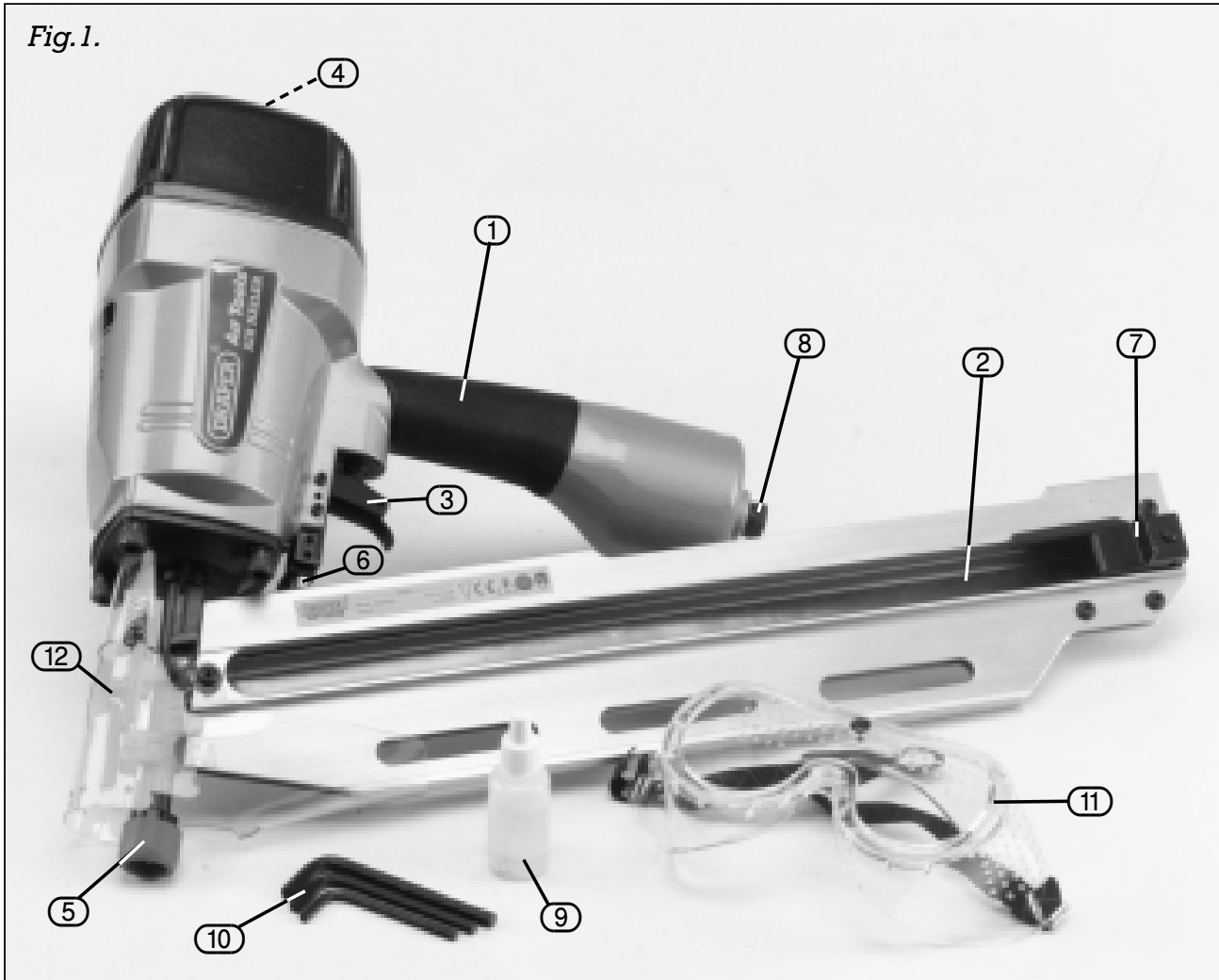


Fig.1.

- |                             |                       |
|-----------------------------|-----------------------|
| 1. Hand grip.               | 7. Magazine latch.    |
| 2. Magazine.                | 8. Air inlet.         |
| 3. Trigger.                 | 9. Mini oil can.      |
| 4. 360° Rotating Exhaust.   | 10. Hexagon wrenches. |
| 5. Safety lever.            | 11. Safety goggles.   |
| 6. Shot mode selection nut. | 12. Spark deflector.  |

## OPERATION & USE

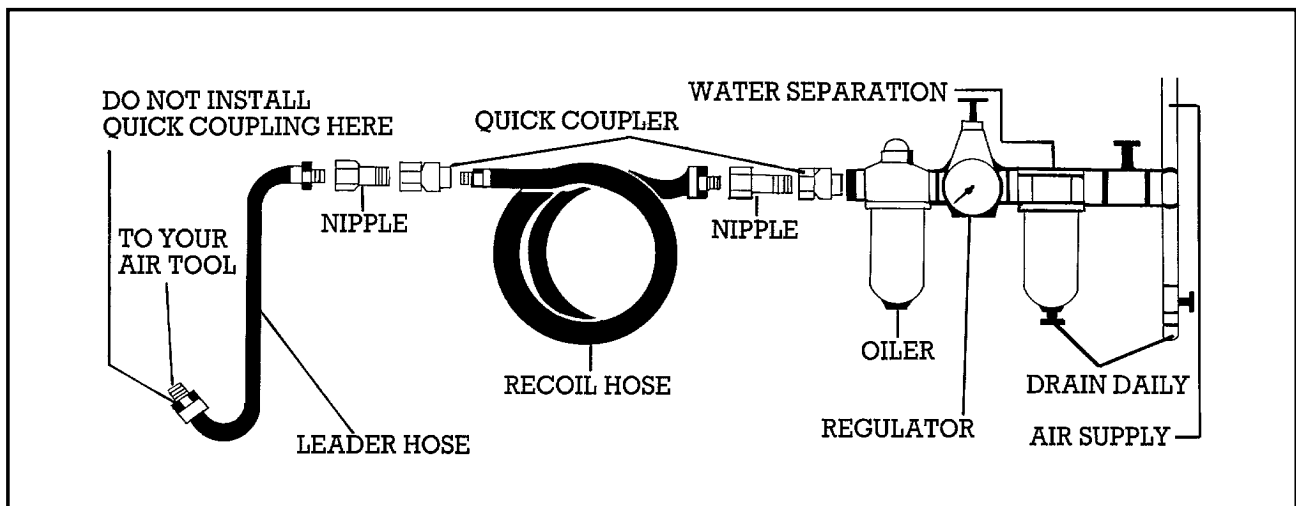
### AIR SUPPLY

This nailer operates at a maximum of 120PSI and should be controlled via a combined regulator, oil and water separator such as the Draper 4222/3 unit which with proper maintenance will ensure a constant supply of dry air and lubricating oil at all times. See illustration below. Always check machine operating pressure before use.

Water in the compressor tank will cause serious corrosion to your air tools and should be drained daily to avoid excessive water in your air supply. Dirty wet air rapidly shorten the life of your air tool.

If you are using an air tool on a hose over 25ft. long, it is advisable to increase the bore of the hose to the next larger size available, ie.  $\frac{1}{4}$ " increases to  $\frac{3}{8}$ ". This will ensure adequate pressure and volume of air to power the machine.

### RECOMMENDED AIR SUPPLY



### FITTING THE WHIP HOSE CONNECTION

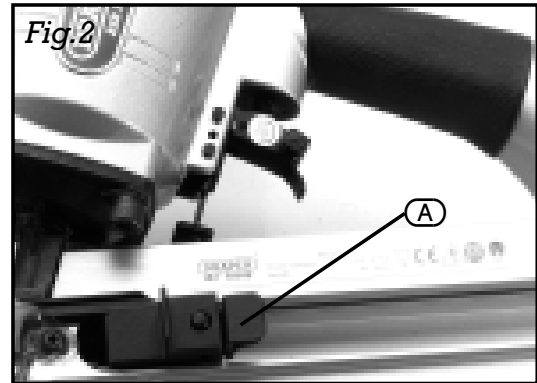
To connect the nailer to an airline, a  $\frac{1}{4}$ " BSP male whip hose will be required (Draper Stock No.54438). Wind a length of PTFE tape (Draper Stock No.63389) around the thread and tightly secure the hose in place for an airtight connection.

## OPERATION & USE

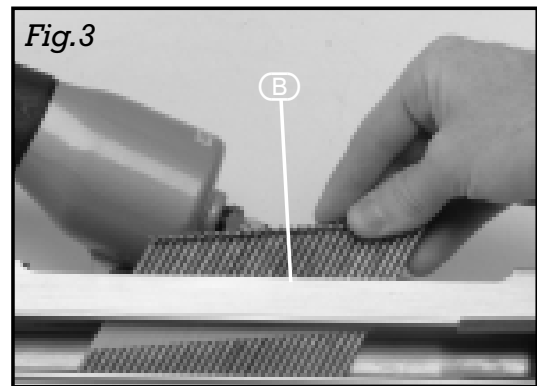
### LOADING THE MAGAZINE (Fig.2 - 4)

Note: Always disconnect the tool from the air supply before any adjustments or maintenance is carried out.

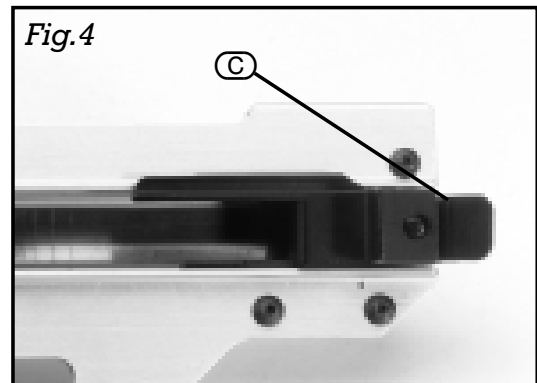
Pull the magazine latch (A) back to the rear of the magazine until it engages and locks in place.



Load the nails (50-90mm) in through the rear of the magazine at point (B). Fig.3.  
See Page 9 for the list of nails available.



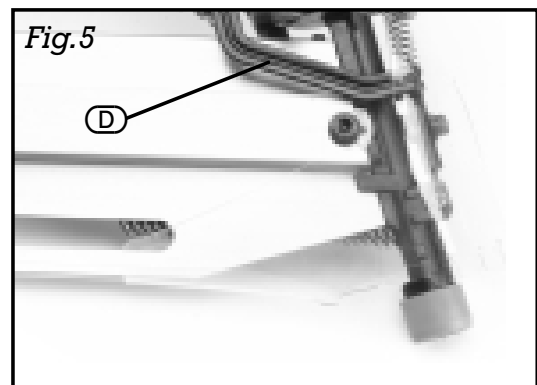
To release, pull the latch towards the rear of the magazine. Lift catch (C) and slowly allow the spring action to push the nails into place. Fig.4.



### CHECKING THE SAFETY LEVER (Fig.5 & 6)

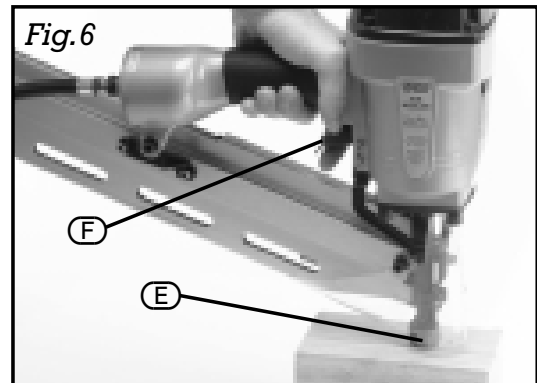
Note: The air nailer is fitted with a trigger lock. When the magazine is empty or nearing empty, the safety lever becomes enabled, stopping the firing operation.

Disconnect from the air supply. Ensure the magazine is empty and lock the magazine latch to the rear. The safety lever (D) should move in or out without any obstruction. To test the safety lever is working correctly, connect the tool to the air supply.



## OPERATION & USE

Push the safety lever (E) against a scrap piece of wood, without pulling the trigger (F). The tool must not fire. Should this happen, the tool must be replaced immediately. Hold the tool away from the piece of wood and the safety lever should return to its original position. Pull the trigger, the tool must not fire. Should this happen the tool must be replaced immediately. Press the lever in against a scrap piece of wood and pull the trigger. The tool should fire. This is correct.

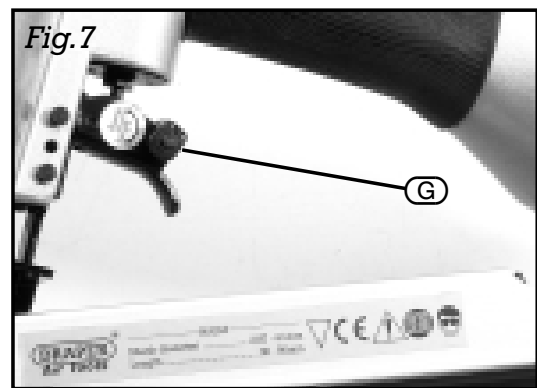


### **FIRING ADJUSTMENT** (Fig.7)

**The AN50-90 has two firing modes:**

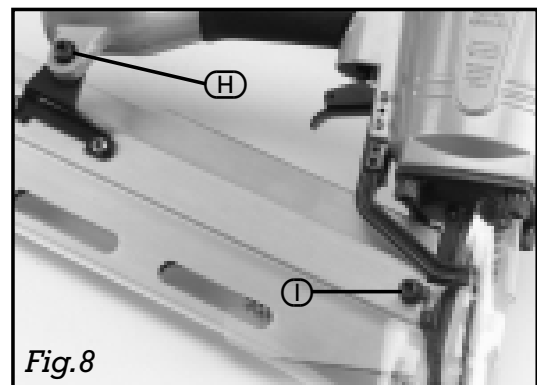
**SINGLE SHOT:** This allows the trigger to be pulled once after the safety lever has been activated. Push down catch (G) and position to the left.

**BUMP SHOT:** This allows the trigger to be pulled and the nails fired by activating the safety lever. Push down catch (G) and position to the right.

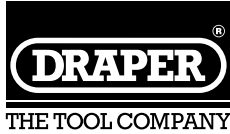


### **CLEARING A JAM** (Fig.8)

In the unlikely event of a nail becoming jammed, disconnect the air supply and remove nuts (H) and (I) and remove the magazine. Once access to the chamber has been cleared, remove the obstruction and reconnect the magazine correctly and secure the nuts.







# MAINTENANCE

Some air tools have inbuilt regulators which can be used to control speed/torque performance, on machines without inbuilt regulators this can be done by varying the pressure of your air supply regulator.

## MAINTENANCE:

Every day, before use, remove the tool from the air line, use an oil can and pour the equivalent of a tablespoon of suitable oil into the machine (through the air intake). Operate at low speed to ensure lubrication of all moving parts. If machine is in constant use or is to be used for long periods of time a combination filter/lubricator must be fitted in the system. At all times the system must be fitted with an air filter.

**Recommended oils are Shell Tellus 22, Duckhams Zircon 32 or Castrol AWS32. Do not use normal engine oil or similar.**

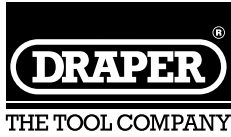
**Please note: failure to comply with the above Maintenance/Operating Instructions could invalidate the Guarantee.**



# TROUBLE SHOOTING

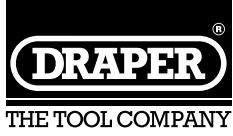
PROBLEMS	POSSIBLE CAUSES	REMEDIES
Tool runs at normal speed but loses speed under load	<ul style="list-style-type: none"> <li>■ Motor parts worn.</li> <li>■ Cam clutch worn or stick due to lack of lubricant.</li> </ul>	<ul style="list-style-type: none"> <li>■ Lubrication clutch housing.</li> <li>■ Check for excess clutch oil. Clutch cases need only be half full. Overfilling can cause drag on high speed clutch parts, ie. a typical oiled/lubricated wrench requires ½ ounce of oil</li> <li><b>GREASE LUBRICATED NOTE:</b> Heat usually indicates insufficient grease in chamber. Severe operating conditions may require more frequent lubrication.</li> </ul>
Tool runs slowly. Air flows slightly from exhaust.	<ul style="list-style-type: none"> <li>■ Motor parts jammed with dirt particles.</li> <li>■ Power regulator in closed position.</li> <li>■ Air flow block by dirt.</li> </ul>	<ul style="list-style-type: none"> <li>■ Check air inlet filter for blockage.</li> <li>■ Pour air tool lubricating oil into air inlet as per instructions.</li> <li>■ Operate tool in short bursts quickly reversing rotation back and forth where applicable.</li> <li>■ Repeat above as needed. If this fails return to service centre.</li> </ul>
Tools will not run. Air flows freely from exhaust.	<ul style="list-style-type: none"> <li>■ One or more motor vanes stuck due to material build up.</li> </ul>	<ul style="list-style-type: none"> <li>■ Pour air tool lubricating tool into air inlet.</li> <li>■ Operate tool in short bursts of forward and/or reverse rotation where applicable.</li> <li>■ Tap motor housing gently with plastic mallet.</li> <li>■ Disconnect supply. Free motor by rotating drive shank manually where applicable.</li> <li>■ If tool remains jammed return to service centre.</li> </ul>
Tool will not shut off.	<ul style="list-style-type: none"> <li>■ 'O' ring throttle valve dislodged from seat inlet valve.</li> </ul>	<ul style="list-style-type: none"> <li>■ Replace 'O' ring or return to service centre.</li> </ul>

**Note: Repairs should be carried out by a qualified person.  
DRAPER HELPLINE (023) 8049 4344.**

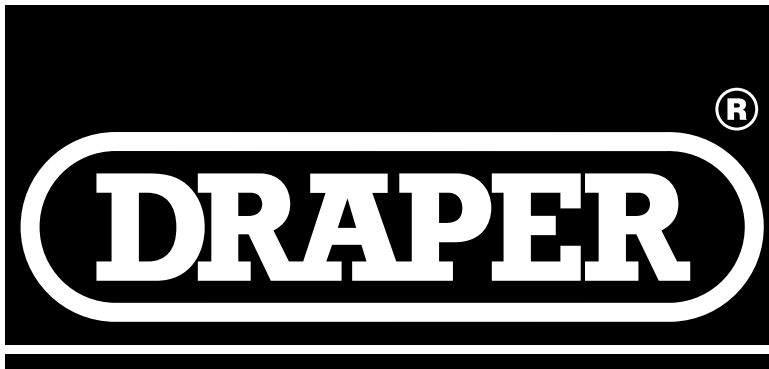


## OPTIONAL ACCESSORIES

<b>STOCK No.</b>	<b>PART No.</b>	<b>DESCRIPTION</b>	<b>LENGTH</b>	<b>PACK QUANTITY</b>
66864	AAFN50	2500 NAILS 50mm	50mm	2500
66865	AAFN57	2500 NAILS 57mm	57mm	2500
66866	AAFN64	2000 NAILS 64mm	64mm	2000
66867	AAFN65	2000 NAILS 65mm	65mm	2000
66869	AAFN70	2000 NAILS 70mm	70mm	2000
66870	AAFN75	2000 NAILS 75mm	75mm	2000
66871	AAFN83	2000 NAILS 83mm	83mm	2000
66872	AAFN90	2000 NAILS 90mm	90mm	2000



**NOTES**



## THE TOOL COMPANY

**DRAPER TOOLS LIMITED,**  
Hursley Road, Chandler's Ford, Eastleigh, Hants. SO53 1YF. U.K.  
Helpline: (023) 8049 4344.  
Sales Desk: (023) 8049 4333.  
General Enquiries: (023) 8026 6355.  
Fax: (023) 8026 0784.



<http://www.draper.co.uk>

e-mail: [sales@draper.co.uk](mailto:sales@draper.co.uk)

YOUR DRAPER STOCKIST

©Published by Draper Tools Ltd.  
No part of this publication may be reproduced,  
stored in a retrieval system or transmitted in  
any form or by any means, electronic, mechanical  
photocopying, recording or otherwise without prior  
permission in writing from Draper Tools Ltd.