



THE TOOL COMPANY

# 12V POWER PACKS

■ STOCK Nos. 75111  
75112

■ PART Nos. PP12VA  
PP12VA/C

## • 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 product with which it is enclosed and should be kept with it for future references.

This manual describes the purpose for which the product 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 or, before performing any kind of adjustment to the product and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

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

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



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# 12V Power Packs

■ STOCK Nos. 75111 - 12V  
75112 - 12V

■ PART Nos. PP12VA  
PP12VA/C

## CONTENTS:

Contents/Declaration of Conformity ..... 1

Specification/Guarantee ..... 2

Power Supply ..... 3

General Safety Instructions ..... 4

Additional Safety Instructions ..... 5

Getting to Know Your Power Pack ..... 6

Operation and Use ..... 7

Maintenance ..... 8-9

Trouble Shooting ..... 10



## 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:

**Stock No:-** 75111, 75112.

**Part No:-** PP12VA, PP12VA/C.

**Description:-** 12V Power Packs.

To which this declaration relates is in conformity with the following directive(s)

With reference to:

JOHN DRAPER  
Managing Director

00/0000



# SPECIFICATION

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

Stock No. ....	75111 .....	75112 .....
Part No. ....	PP12VA .....	PP12VA/C .....
Starting Current .....	400A .....	400A .....
Peak Current .....	900A .....	900A .....
Battery .....	12V Sealed Lead Acid .....	12V Sealed Lead Acid .....
Worklight .....	3.6w .....	3.6w .....
Compressor Output Max .....	N/A .....	260 P.S.I. ....



# GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 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 tool 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 or made by any personnel other than the authorised Draper warranty repair agent.

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








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 12 month period.

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


Draper Tools Limited.

# POWER SUPPLY

## CONNECTING YOUR MACHINE TO THE POWER SUPPLY: (230V ONLY)

To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewirable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. If the plug is marked with the  symbol and the fuse needs replacing, an  approved BS1362 fuse must be used of the same amp rating. If the plug is not  marked, a fuse with the  symbol,  BS Kitemark, or both  and  BS Kitemark, of the same amp rating should be used. The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist. If the fitted plug is not suitable, it should be cut off and destroyed. \*The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.

### \*WARNING:

A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet. 

### WARNING: THIS APPLIANCE IS DOUBLE INSULATED. (230V ONLY):

The mains lead is coloured Blue – Neutral & Brown – Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

### WARNING: THIS APPLIANCE IS DOUBLE INSULATED. (110 V ONLY):

The mains lead is coloured Blue – Neutral & Brown – Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

### EXTENSION LEAD CHART:

Extension lead sizes shown assure a voltage drop of not more than 5% at rated load of tool.

Ampere rating (on Name plate)	3	6	10	13
Extension cable length (Metres)	Wire Size mm <sup>2</sup>			
7.5	0.75	0.75	1.0	1.25
15	0.75	0.75	1.0	1.5
22.5	0.75	0.75	1.0	1.5
30	0.75	0.75	1.25	1.5
45	0.75	0.75	1.5	2.5



# GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

## WARNING:

Please read the following instructions carefully, failure to do so could lead to serious personal injury. When using electric tools, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before operating this product and save these instructions.

## 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. KNOW YOUR POWER TOOL

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

### 2. KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floors must not be slippery due to oil or sawdust.

### 3. AVOID DANGEROUS ENVIRONMENTS

Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.

### 4. KEEP CHILDREN AWAY

All visitors should be kept a safe distance from work area.

### 5. STORED TOOLS

When not being used, all tools should be stored in a dry, locked cupboard and out of the reach of children.

### 6. WEAR PROPER CLOTHING

Do not wear loose clothing, neckties or jewellery (rings, wristwatches) to catch in moving parts. NONSLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

### 7. USE SAFETY GOGGLES (Head Protection)

Wear CE approved safety goggles at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also, use face or dust mask if application is dusty and ear protectors (plugs or muffs) during extended periods of operation.

### 8. NOISE LEVELS

Some types of machines may have high noise levels when working. In such cases ear protection must be worn.

### 9. VIBRATION LEVELS

Hand held power tools produce different vibration levels. You should always refer to the specifications and relevant Health and Safety guide.

### 10. DUST EXTRACTION

If your tool is fitted with a dust extraction fitting, always ensure that it is connected and being used with a dust extractor. Vacuum cleaners can be used if suitable for the material being extracted.

### 11. PROTECT YOURSELF FROM ELECTRIC SHOCK

When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). If you are using a power tool in extreme conditions (e.g. high humidity or generating metal dust), always use an RCD (residual current device) at the power socket.

### 12. STAY ALERT

Always watch what you are doing and use common sense. Do not operate a power tool when you are tired or under the influence of alcohol or drugs.

### 13. WHEN WORKING OUT OF DOORS

Only use extension leads designed for that purpose.

### 14. ACCESS TO MAINS SOCKET

If a stationary machine is fitted with a moulded plug and cable, the machine should not be positioned so that access to the mains socket is restricted.

### 15. DISCONNECT POWER TO THE TOOL

When not in use, before servicing and when changing accessories such as cutters, etc.

### 16. AVOID ACCIDENTAL STARTING

Make sure the switch is in the OFF position before plugging the machine into the power supply.

### 17. NEVER LEAVE MACHINE RUNNING UNATTENDED

Turn power off. Do not leave machine until it comes to a complete stop.

### 18. DO NOT ABUSE THE CORD

Never carry the tool by the power cable or pull it from the socket. Keep the power cable away from heat, oil and sharp edges. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid hazard.

### 19. NEVER STAND ON TOOL

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool, so that it is necessary to stand on the tool to reach them.

### 20. CHECK DAMAGED PARTS

Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be repaired properly or replaced by an authorized service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service facility. Do not use the tool if the switch does not turn it on and off.

### 21. KEEP GUARDS IN PLACE

And in working order.

### 22. MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grips on the tool clean, dry and free of oil and grease.

### 23. USE RECOMMENDED ACCESSORIES

Consult the owners manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

### 24. REMOVE ADJUSTING KEYS AND WRENCHES

Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

### 25. SECURE WORK

Use clamps or a vice to hold work. This frees both hands to operate the tool.

### 26. DO NOT OVERREACH

Keep proper footing and balance at all times.

### 27. USE RIGHT TOOL

Do not force the tool or attachment to do a job for which it was not designed.

### 28. DO NOT FORCE TOOL

It will do the job better and safer at the rate for which it was designed.

### 29. DIRECTION OF FEED

Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

### 30. WHEN DRILLING OR SCREWING INTO WALLS

Always make sure there is no danger of hitting any hidden power cables, water or gas pipes in the wall.

### 31. HAVE YOUR TOOL REPAIRED BY A QUALIFIED PERSON

This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

## IMPORTANT NOTE:

Residual Risk. Although the safety instructions and operating manuals for our tools contain extensive instructions on safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!



## ADDITIONAL SAFETY INSTRUCTIONS FOR BATTERY PACKS

### **WARNING:**

Please read the following carefully, failure to do so could lead to serious personal injury. When using any power tool, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before operating this product and save these instructions.

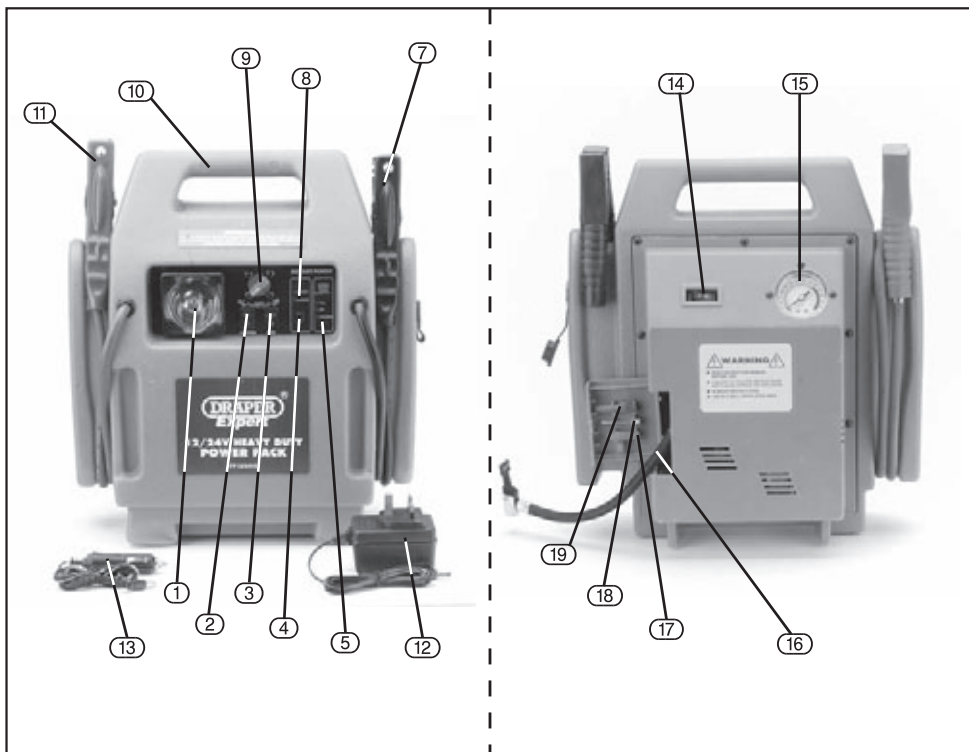
### **IMPORTANT:**

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 in contacting us in writing and we will advise you.

Working in the vicinity of a lead acid battery is dangerous, batteries generate explosive gases during normal battery operation. For this reason, it is of utmost importance, if you have any doubt, that each time before use using the power pack, you read this manual and follow the instructions exactly.

1. When working near a lead-acid battery, someone should be within range of your voice, close enough to come to your aid.
2. Have plenty of fresh water and soap nearby in case battery acid comes in contact with skin, clothing or eyes.
3. Wear complete eye and clothing protection. Avoid touching eyes when working with batteries.
4. If battery acid does come in contact with skin, clothing wash immediately with soap and water. If acid enters the eyes immediately flood eye with cool running water for at least 15 minutes and get medical attention immediately.
5. Never smoke or allow a spark or flame in the vicinity of battery or engine.
6. Be extra cautious to reduce risk of dropping a metal tool onto a battery. It could spark or short circuit the battery or, any other electrical part possibly causing an explosion.
7. When working with a lead-acid battery, remove personal metallic items such as rings, bracelets, necklaces and watches. A lead-acid can produce a short-circuit current high enough to weld a ring, or the like to metal, which may cause severe burns.
8. Use this battery pack for charging or boosting lead-acid batteries only. Do not use for charging dry-cell batteries that are commonly used with home appliances. For example, radios, torches etc. These batteries may explode and cause injury to persons and damage to property.
9. Never charge or boost a frozen battery.
10. Never allow clamps to touch one another or to contact the same piece of metal to prevent arcing.
11. Do not recharge the power pack with a damaged charger. Replace immediately.
12. Do not submerge in water.
13. Do not operate near flammables such as petrol, paraffin or thinners.

## GETTING TO KNOW YOUR POWER PACK



- |                               |   |
|-------------------------------|---|
| ① Worklight.                  | ⑪ Positive Clamp (Red).                         |
| ② Worklight On/Off Switch.    | ⑫ 230V AC Charger Adapter.                      |
| ③ Battery Status Test Switch. | ⑬ 12V DC Charger Lead (PP12VA/C only).          |
| ④ Charger Socket.             | ⑭ Compressor On/Off.                            |
| ⑤ Battery Status Indicators.  | ⑮ Compressor Gauge.                             |
| ⑥ 12V Output.                 | ⑯ Air Line.                                     |
| ⑦ Negative Clamp (Black).     | ⑰ Nozzle for Small Gauge.                       |
| ⑧ Charge Status Indicator.    | ⑱ Nozzle for Balls (Football, Basketball etc.). |
| ⑨ On/Off Switch.              | ⑲ Nozzle for Inflatables.                       |
| ⑩ Transit Handle.             |   |

**UNPACKING:** After removing the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the power pack and contact the dealer from whom it was purchased.

The packaging materials (plastic bags, polystyrene etc.) must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.

# OPERATION AND USE

## RECHARGING PROCEDURES:

We recommend that you charge the battery for 24 hours when you first unpack the product. Check the power level of the power pack with the test switch. The Green LED will illuminate to indicate that battery is full.

To recharge the battery via the plug-in mains charger, plug the power pack into the mains charger unit and let charge for up to 16 hours if completely discharged. Most recharges can take around 8 hours. Do not leave on charge for more than 72 hours.

To charge the battery with the in-car charger, plug one end of the DC cable into the power packs charging socket and the other end into the vehicles lighter socket (The vehicles engine should be running) Charge for about 1 to 2 hours.

Once charging the green charges light will come on.

## OPERATION:

Always carry out the following checks before connecting the power pack to the battery.

**ENSURE** the vehicle ignition and **ALL** ancillary equipment i.e. Lights, radio etc is switched **OFF**.

**ENSURE** the vehicle battery is rated at 12volts and that the battery is not damaged in anyway.

**ENSURE** the battery terminals are perfectly clean and the clamps are firm and perfectly secure.

**REMOVE** vehicle battery filler plugs and check electrolyte level. If necessary, top up with distilled water.

1. Ensure that the vehicle ignition is switched off.
2. Also ensure that the switch on the power pack is also switched OFF.
3. Connect the positive (Red +) clamp to the positive terminal of the vehicles battery. (Fig 1)
4. Attach the negative (Black -) clamp to the engine block or frame of vehicle. Make sure that the cables are not in the path of moving parts or hot components. Also keep clamps away from any fuel lines. (Fig 2)
5. Switch the power switch on the power pack to the "ON" position.
6. Make sure that no-one is near the battery, then start the car.
7. Once the vehicle has started, disconnect the negative (Black -) clamp.
8. Then, disconnect the positive (Red +) clamp.





## OPERATION AND USE

### OPERATION CONTINUE:

9. Replace the clamps into the storage areas.
10. Place the power pack on charge until full again.

**NOTE:** should the vehicle refuse to start within 6 seconds, do not persist. Let the power pack battery cool for three minutes before attempting to start the vehicle again. Should this recommendation not be followed, damage to the unit may occur.

### USING THE AIR COMPRESSOR:

For inflating tyres, attach the air hose to the tyre by pressing the connector down firmly on the tyre adapter and locking in place by pushing the connector locking lever through 90 degrees. (Fig 3)

(Fig 4) Switch on the compressor (A) The gauge (B) will indicate the air pressure.

There are three adaptors that are supplied which will allow the compressor to be used for inflating air beds, footballs and other inflatory items. Select appropriate adaptor and push the threaded end firmly into the air hose connector, locking it in place by turning the connector lever through 90 degrees.



Fig.3.



Fig.4.



# MAINTENANCE

Always inspect the power pack fully before use to ensure the cables are in good condition, and the clamps are clean and free from corrosion. Have them replaced if any damage is apparent.

Keep clean by wiping with a dry cloth. **DO NOT** use solvents as this can seriously damage this product.

## **BATTERY REPLACEMENT:**

1. Unscrew all the screws that hold on the back panel.
2. Lift off the cover plate to expose the battery compartment.
3. Lift out the battery from the battery compartment, detaching the heavy duty cables and all other cables from the battery terminals.
4. Taking great care not to short across the battery terminals, connect the positive (RED +) Heavy duty cable and other cables with red sheath, to the battery terminal indicator with the red panel and the + markings.
5. Connect the black heavy duty cables to the other battery terminal.
6. Gently slide the new battery back into position in it's compartment, again taking care not to short across on any components inside the battery power pack.
7. Replace the back cover and secure with all the screws.

## **CHANGING THE LIGHT BULB:**

1. Gently Squeeze the sides of the lens bezel together to disengage the clips at either side, and pull the lens and bezel out.
2. Unscrew and remove the bulb and screw in the replacement.
3. Push the lens and bezel back into place.



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## TROUBLE SHOOTING

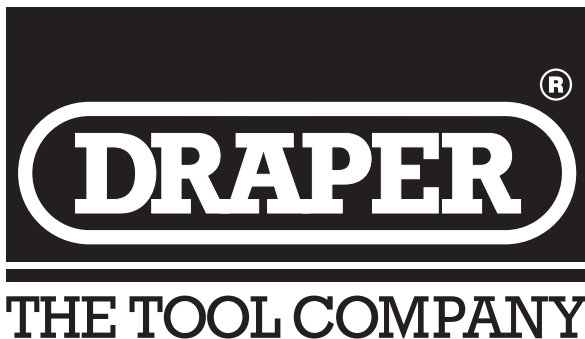
- PROBLEM:** One or two charge indicator lights come on, I plug in the charger for 24 hours and is no change in status of lights.
- SOLUTION:** Check charger to see if it is charging. Charger should be warm. Some chargers have a fuse at the plugs tip. Check fuse by unscrewing the tip of the plug. Replace if necessary.
- PROBLEM:** Charger works well but still no change in status of charge indicator lights.
- SOLUTION:** Possible defective battery or faulty breaker. Try using a device (such as a light) with a lighter plug on it to see if it works. Should it work, power pack breaker is OK and the battery is the problem.
- PROBLEM:** No charger indicator lights come on, but when the wall charger is plugged into the power pack, the lights come on.
- SOLUTION:** The internal battery of the power pack needs to be replaced.
- PROBLEM:** Power pack is fully charged but has no power.
- SOLUTION:** Check where the wire meets the jaw on the booster clip. Make sure they are well crimped.
- PROBLEM:** When trying to use an accessory through the cigarette lighter outlet on the power pack, clicking is heard from inside the power pack.
- SOLUTION:** The accessory is drawing more than 12 amps, causing the internal circuit breaker to cycle ON and OFF. There maybe a problem with the accessory (such as a short circuit) that is causing the overload condition. Check accessory before continuing.



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## QUESTIONS & ANSWERS

- QUESTION:** How many jump starts can a fully charged power pack do before needing to be recharged?
- ANSWER:** 0 - 30. Factors are temperature, general condition of vehicle, engine type and size.
- QUESTION:** Can the power pack's battery be replaced?
- ANSWER:** Yes. NOTE: The battery is a consumable item and is not covered by the warranty.
- QUESTION:** Can the power pack be recycled?
- ANSWER:** Yes, the environment was one of our main concerns in the development and designing of the power pack. Most battery outlets can dispose of this product at its life's end.
- QUESTION:** What is the ideal in-use storage temperature of the power pack?
- ANSWER:** Room temperature. The power pack will also operate at temperatures below zero, however, its power will be lessened. Intense heat will active self-discharge. **Power pack must be recharged before initial use.**
- QUESTION:** I have a regular battery charger, can I use it to recharge the power pack?
- ANSWER:** No, only the plug-in-wall charger or the in-car-charging lead should be used.
- QUESTION:** Is the power pack idiot-proof?
- ANSWER:** No. Jump starting and other instructions must be followed.



**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@drapertools.com](mailto:sales@drapertools.com)

YOUR DRAPER STOCKIST

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