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# Uniprep 1 Rotary Scraping Tools

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## Operating Instructions

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**Product Code: 01-02-001, 01-02-002**

**01-03-001, 01-03-002**

Revision: 02

# 01. Introduction

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## General Description

The pipe preparation tool is designed to provide a fusible surface on any polyethylene pipe material (new, weathered or previously installed). In accordance with Gas Industry Standards GIS/PL2-5 Part 5 Electrofusion ancillary tools.

These products (Uniprep 1 + 2 Rotary Scraping Tools) have been manufactured, inspected and tested in accordance with the ISO9001 quality control systems and procedures in place at Caldervale Technology Ltd, Dewsbury.



## Important!

This tool should be used in accordance with the pipe manufacturers' recommendations and in line with local codes of practice.

This manual outlines the operation of the pipe surface preparation tooling for the scraping of polyethylene (PE) pipe and forms a part of the product to which it relates. It should be kept for the life of the product. Any amendments issued by Caldervale Technology Ltd should be incorporated in the text. The manual should be passed to any subsequent holder or user of this product.

## Before Using

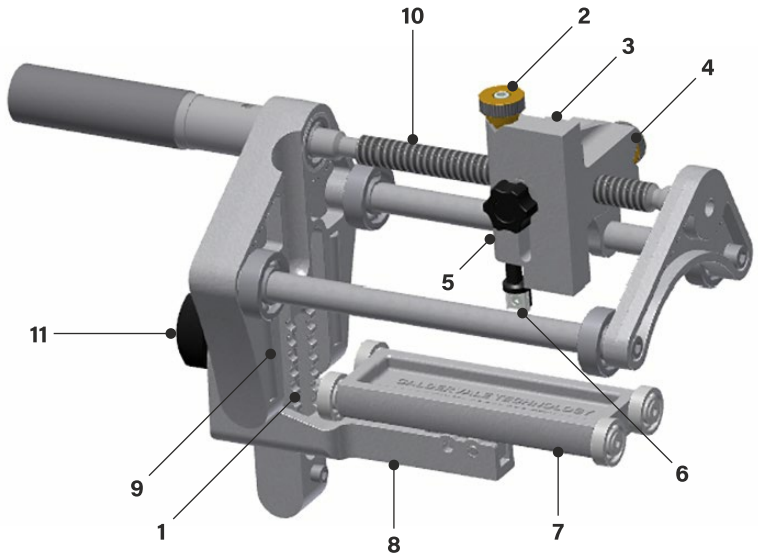
It is important to ensure all component parts are present and in serviceable condition. In addition, the condition of the cutting / peeling tip should be checked for damage or excessive wearing.

## 02. Safety Instructions

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1. Read and understand the whole instruction booklet before using the tool.
2. It is imperative that all possible precautions are made to avoid unexpected pipe movement when the tool is being used.
3. Never use the tool on pipes that are not within the specified dimensions.
4. The tool tip holder spring tension is factory set and **MUST NOT** be tampered with, without adequate training or instruction.
5. Operatives should wear eye protection, gloves, safety headwear and footwear when using the equipment.
6. A single scrape / pass cannot be guaranteed to provide 100% preparation, where this is required users are advised to consider making 2 scrapes around the pipe.

## 03. Operation



### Instructions for use

1. Ensure that the pipe end is cut square (No more than 2° out of square), is free of burrs and the section to be scraped does not have any deep scores.
2. Mark the pipe outer wall at a point 50% of the length of the coupler plus 10mm.
3. Release the tool post cartridge by loosening the tool post adjustment nut (5), position the tool post cartridge (3) to its highest position and temporarily retighten (5).
4. Lower the underarm (8) by unscrewing the wing nut (11) which will allow you to push underarm (8) forward against the spring allowing you to lower the arm (8) down the ladder rack (1).

5. Position the scraper onto the pipe with the tool resting on the axle wheels and with the undercarriage (7) inside the bore of the pipe. The end of the pipe should touch the pipe stop (9).
6. Fix the tool in its operating position by pushing & lifting the under arm (8) back up the ladder (1) until the undercarriage wheels are touching against the inner wall of the pipe, now screw in wing nut (11) until the wheels on the undercarriage (7) are firmly in contact with the pipe wall.
7. Slowly rotate the scraper around the pipe 2 or 3 times to ensure that it is positioned correctly adjusting the underarm clamping screw (11) to ensure a secure but at the same time ease of rotation.
8. Pull and twist a quarter turn the quick release thumb nut (4) to allow the tool post carriage to move freely along the feed screw (10). Remove the protection cap from the cutter (6) and position the cutter (6) above the mark previously made on the pipe indicating the length or scrape required, a further quarter turn of the thumb nut (4) will engage the feed screw-drive nut with the feed screw (10).
9. Pull & twist a quarter turn the cutter lifting thumb nut (2) to lift the cutter tip up, this also applies pressure via the tool tip spring. Release the tool post adjustment nut (5) and **slide the tool post (3) down until the cutter is approximately 1mm from the pipe wall surface**, now retighten the tool post adjustment nut (5) to fix the tool post in its correct operating position.
10. A further quarter turn of the cutter lifting thumb nut (2) will lower the cutter on to the pipe wall surface and the correct pressure will be applied to the tip (6) via the tool tip spring.
11. Rotate the scraping tool around the pipe in a steady clockwise direction. The cutter will travel towards the pipe end removing a continuous strip of PE the process may be halted from time to time to remove surplus peel.

## 04. Removal After Completion

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1. On completion, the scraped section should be inspected for areas of un-scraped pipe. If necessary, the pipe can be scraped again.
2. To remove the scraper, loosen the tool post locking screw (5) and raise the tool post clear of the pipe and retighten (5). Loosen the underarm pressure screw (11) to release the undercarriage wheels and remove the scraper from the pipe. Refit the protective cover to the cutter tip when not in use.



### Storage

#### **IMPORTANT! When not in use always:**

1. Store the tool in the tool box.
2. Ensure the tool tip tension is released.
3. Ensure the tool is clean and dry before storage.

### Routine Maintenance

1. Check for correct movement and operation and lubricate moving parts at regular intervals before using.
2. It is important to ensure all component parts are present and in serviceable condition. In addition, the condition of the cutting / peeling tip should be checked for damage or excessive wearing.
3. The cutter tip can be replaced. Spares are indicated in the parts diagram.