ADJUSTABLE ROTARY SCRAPER TOOL
SCR-025-125 USER’S GUIDE
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Introduction

The Adjustable Rotary Scraper (part number SCR-025-125) is meant to be used exclusively for the removal of the oxidized layer on polyethylene pipes in preparation for the electrofusion process. You can use this tool for pipe-end or mid-pipe preparation.

Conventions used in this manual

This manual includes safety precautions and other important information presented in the following format:

NOTE: This provides helpful supplementary information.

IMPORTANT: This provides instructions to avoid damaging hardware or a potential hazard to the environment, for example: fuel leakage from equipment that could harm the environment.

⚠️ CAUTION: This indicates a potentially hazardous situation that could result in minor or moderate injury if not avoided. This may also be used to alert against unsafe practices.

⚠️ WARNING: This indicates a potentially hazardous situation that could result in severe injury or death if not avoided.

⚠️ DANGER: This indicates an imminently hazardous situation that will result in death if not avoided.

Questions and concerns

In case of emergency, follow the procedures established by your facility. If you have questions or concerns about safety or need assistance, use the information below to contact Franklin Fueling Systems:

Web: franklinfueling.com
Telephone:
USA and Canada: +1.608.838.8786, +1.800.225.9787
USA Technical Support: 1.800.984.6266
UK: +44 (0) 1473.243300
Mexico: 001.800.738.7610
China: +86.10.8565.4566
Operating precautions

Franklin Fueling Systems (FFS) equipment is designed to be installed in areas where volatile liquids such as gasoline and diesel fuel are present. Working in such a hazardous environment presents a risk of severe injury or death if you do not follow standard industry practices and the instructions in this manual. Before you work with or install the equipment covered in this manual, or any related equipment, read this entire manual, particularly the following precautions:

⚠️ CAUTION: The blade in the Adjustable Rotary Scraper Tool is very sharp. To help avoid personal injury when you use the scraper, handle with care and make sure you wear appropriate Personal Protective Equipment (PPE), such as eye protection and gloves (or other hand protection), that is in accordance with your work site and local and national regulations.

⚠️ CAUTION: Use only original FFS parts. Substituting non-FFS parts could cause the device to fail, which could create a hazardous condition and/or harm the environment.

⚠️ WARNING: Follow all codes that govern how you install and service this product and the entire system. Always lock out and tag electrical circuit breakers while installing or servicing this equipment and related equipment. A potentially lethal electrical shock hazard and the possibility of an explosion or fire from a spark can result if the electrical circuit breakers are accidentally turned on while you are installing or servicing this product. Refer to this manual (and documentation for related equipment) for complete installation and safety information.

⚠️ WARNING: Before you enter a containment sump, check for the presence of hydrocarbon vapors. Inhaling these vapors can make you dizzy or unconscious, and if ignited, they can explode and cause serious injury or death. Containment sumps are designed to trap hazardous liquid spills and prevent environmental contamination, so they can accumulate dangerous amounts of hydrocarbon vapors. Check the atmosphere in the sump regularly while you are working in it. If vapors reach unsafe levels, exit the sump and ventilate it with fresh air before you resume working. Always have another person standing by for assistance.

⚠️ WARNING: Follow all federal, state, and local laws governing the installation of this product and its associated systems. When no other regulations apply, follow NFPA codes 30, 30A, and 70 from the National Fire Protection Association. Failure to follow these codes could result in severe injury, death, serious property damage, and/or environmental contamination.

⚠️ WARNING: Always secure the work area from moving vehicles. The equipment in this manual is usually mounted underground, so reduced visibility puts service personnel working on it in danger from moving vehicles that enter the work area. To help prevent this safety hazard, secure the area by using a service truck (or some other vehicle) to block access to the

⚠️ WARNING: Make sure you check the installation location for potential ignition sources such as radio waves, ionizing radiation, and ultrasound sonic waves. If you identify any potential ignition sources, you must make sure safety measure are implemented.
Operation

Technical data

Diameter range: 25–125 mm (1–5”)
Scraping depth: 0.2 mm (0.15–0.25 mm)
Enclosed parts: Scraping tool, spare blade, Allen key, instruction manual, carry case

1. Tension knob
2. Quick adjustment catch
3. Support bar
4. Cross handle
5. Running shell with running wheels
6. Aluminum block for the blade holder
7. Blade holder with scraper blade
8. Feeding block
9. Knurled knob

Additional Features

- Quick adjustment: You can rapidly adjust the setting for different pipe diameters.
- Ovality compensation: The unique scraping method maintains a uniform scrape depth.
- Tiltable blade and blade wagon: The tool provides optimized guidance of the blade on curved pipes.
Required equipment

The following equipment is required:

- Adjustable Rotary Scraper Tool (SCR 025-125)
- Hand and eye protection (in accordance with your work site and local and national regulations)
- Personal Protective Equipment (PPE) appropriate for the work site
- Clamp or other device for preventing the pipe from rotating

Operating the scraper

⚠️ CAUTION: The blade in the Adjustable Rotary Scraper Tool is very sharp. To help avoid personal injury when you use the scraper, handle with care and make sure you wear appropriate Personal Protective Equipment (PPE), such as eye protection and gloves (or other hand protection), that is in accordance with your work site and local and national regulations.

IMPORTANT: Before you use the scraping tool, make sure the feeding block is not loose.

Preparing to scrape

1. Remove dirt and sand from the area you are going to scrape.
2. Measure and mark the area of the pipe you are going to scrape according to the UPP installation instructions.
3. Before mounting the scraper on the pipe, set the feeding block to the correct dimension setting.

<table>
<thead>
<tr>
<th>Setting for 20–63 mm dimension range</th>
<th>Setting for 75–125 mm dimension range</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image.png" alt="Setting for 20–63 mm dimension range" /></td>
<td><img src="image.png" alt="Setting for 75–125 mm dimension range" /></td>
</tr>
</tbody>
</table>

4. Turn the knurled knob 4–5 turns counterclockwise. This loosens the feeding block so that you can turn it.
5. Turn the feeding block 180° so that the required settings number points toward you when you look at the front of the tool.
6. Press the feeding block upwards until it is completely against the upper running shell.
7. Turn the knurled knob clockwise to tighten it.
Placing the scraper on the pipe

1. Press the quick adjustment catch, and open the scraper tool.

**NOTE:** On the lower end of the tools dimension range, it may be necessary to move the running shell with the running wheels. If so, loosen the cross handle, adjust the tool to a position that is suitable for the pipe dimension, and tighten the cross handle again.

2. Place the scraper on the pipe so that either the inner or the outer pairs of running wheels are touching the pipe surface.

- If you are scraping the end of a pipe, ¾ of the blade width must be seated on the pipe end.
- If you are scraping the middle of a pipe, place the scraper at the required location on the pipe. The blade should sit on the outer border of the mark you made previously.

3. Press the quick adjustment catch, and close the scraper tool.

4. Use the tension knob to clamp the pipe between the feeding wheels and running wheels. Watch the tension knob. When it is lifted about 3 mm from the end of the support bar, you have reached the correct bias.

**NOTE:** The running wheels and feeding wheels should touch the pipe without deforming it.

**IMPORTANT:** Do not overtighten the tension knob. Overtightening can damage the scraper.
Scraping the pipe

⚠️ CAUTION: The blade in the Adjustable Rotary Scraper Tool is very sharp. To help avoid personal injury when you use the scraper, handle with care and make sure you wear appropriate Personal Protective Equipment (PPE), such as eye protection and gloves (or other hand protection), that is in accordance with your work site and local and national regulations.

1. Attach a clamp, or other device, to hold the pipe in place so that it does not rotate while you are scraping it.
2. Pull the scraper toward yourself at a 45 degree angle. This allows the scraper to move down the pipe.
3. If the peel width is a maximum of ¾ of the blade width, continue moving the scraper around the pipe until you have scraped the desired area. If the scrape width is wider than ¾ of blade width, make sure you are working with correct dimension setting.
4. Remove the scraper:
   a. Open the adjustment knob.
   b. Press the quick adjustment catch to open the scraper tool.

IMPORTANT: After scraping, make sure the oxidized layer is completely removed. If not, replace the blade and scrape the pipe again. (See “Installing a new scraper blade” in the “Maintenance” chapter.)
Maintenance

To get the best performance from the scraper tool, handle it with care and keep it properly maintained. Avoid contamination by sand and dirt, and if necessary, remove any debris with a soft cloth. Use a silicone oil to lubricate the moving parts, and remove surplus oil with a cloth. To extend the life of the blade, clean the pipes you’re going to scrape before you scrape them, keep the blade clean and dry, and store the scraper in its transport case. Check the peel width often to make sure it is ¾ of the blade width.

Optimizing the scrape width

To optimize the scrape width for various pipe diameters:
1. Unscrew the black cross handle.
2. Move the running shell on the support bar according to the following table:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Suitable for dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20, 25, 32, 40 mm</td>
</tr>
<tr>
<td>2</td>
<td>50, 63 mm</td>
</tr>
<tr>
<td>3</td>
<td>50, 63, 75 mm</td>
</tr>
<tr>
<td>4</td>
<td>75, 90 mm</td>
</tr>
<tr>
<td>5</td>
<td>110, 125 mm</td>
</tr>
</tbody>
</table>
3. Use an Allen wrench to adjust the set screw.

Installing a new scraper blade

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You will need to replace the scraper blade periodically. Order SCR-BLADE-025-225 Scraper Tool Blade (cemented carbide) for Adjustable Rotary Scraper Tools. To install a new blade:

1. Use a 2.5 mm Allen wrench to open the screw that holds the scraper blade on its holder.
2. Remove the old blade.
3. Place the new scraper blade on the blade holder.
4. Insert and lock the screw. The blade should be held against the stop at the blade holder.
Intentionally Blank