



TD181

Rev. A

01/19

HYDRAULIC CHAIN CUTTER CCP0075



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1. SAFETY REQUIREMENTS

GENERAL CONSIDERATIONS

The SIMPLEX hydraulic cutters have been designed in accordance with our quality standards and ISO 9001 rules.



The cutter must be used in accordance with the relevant instructions described in the manual. The user must be aware of the inherent risks when handling high pressure hydraulic devices and ensure that a safe working environment and safe systems of work are in place before operating the equipment.

The tool is designed only for the operations described in this manual. The manufacturer is not responsible for any damage caused by incorrect operation of the tool.

SAFETY PRINCIPLES

1. This manual must be always available to the operator and all safety and operational instructions must be followed.
2. The operator should be trained about the machine operation and the corresponding safety rules regarding prevention of accidents and protection of the environment.
3. The operator must wear personal protective equipment like helmet, glasses, gloves, boots, protective clothing, etc.



Helmet



Glasses



Gloves



Boots



Protective Clothing

4. All personnel must keep fingers, hands and other body parts away from the cutter blade to prevent serious personal injury.
5. Do not modify the tool in any way.
6. Follow suggested maintenance operations periodically as recommended in this manual.
7. All repairs should be performed by a qualified technician with genuine SIMPLEX parts. For further information, contact your nearest SIMPLEX authorized service center.
8. After operation, the tool should be cleaned and stored in a clean, dry and secure location.

GENERAL SAFETY INSTRUCTIONS



Before use, visually inspect the tool and accessories for any damage. If any damage is found, do not use the tool until repaired. Ensure that all the components of the hydraulic system can support the maximum pressure.

Before operation, make sure the operator is on solid footing in a well-lit area.



Manufacturer's rating is the maximum allowable limit. Good practice encourages using the tool below the manufacturer's rating.



Keep the tool away from flames and heat, such as during welding.

- Before performing any maintenance procedures, press the release button to relieve pressure and return the blade to the fully retracted position.
- Do not exceed equipment ratings.
- After operation, clean the tool and store it in a clean, dry and secure location.

2. TECHNICAL DATA

GENERAL SPECIFICATIONS

| Specification | Model CCP0075 | |
|---|---------------|--------|
| | Imperial | Metric |
| Push capacity (@ 10150 psi or 700 bar) | 15.2 Ton | 135 kN |
| Length* | 19.3 in | 489 mm |
| Height* | 6.4 in | 162 mm |
| Width* | 3.0 in | 76 mm |
| Maximum Jaw Opening* | 0.8 in | 20 mm |
| Weight | 12.8 lb | 5.8 Kg |

* Due to rounding, the dimensions listed in this chart may be slightly different than the dimensions shown in the diagrams in Section 6.

CUTTING CAPACITIES

| Bar | | | |
|-----------|----|------------------|------|
| Diameter* | | Tensile Strength | |
| in | mm | ksi | MPa |
| 0.75 | 19 | 102 | 700 |
| 0.59 | 15 | 145 | 1000 |
| 0.51 | 13 | 203 | 1400 |
| 0.43 | 11 | 232 | 1600 |

* Maximum diameter bar that can be cut at the different tensile strengths.

| Chain | | |
|-----------|----|--------|
| Diameter* | | Grades |
| in | mm | |
| 0.75 | 19 | 28-43 |
| 0.55 | 14 | 60-80 |

* Maximum diameter chain that can be cut at the different chain grades.



3. OPERATION

1. Using the stationary handle, hold the tool in the upright position (cutting head facing up).
2. Move the blade forward by operating the integrated pump handle. Continue pumping until the blade reaches the end of its stroke.
3. Press the release button and check that the blade returns to its initial position.
4. Insert the chain in the gap between the fixed and movable blades (max. 0.75 inch or 19 mm).
5. Operate the integrated pump handle to advance the blade. Continue until the chain is fully cut.
6. After cutting is completed, press the release button to move the blade back.
7. Remove any traces of chain material before making another cut.

4. MAINTENANCE

REPLACEMENT OF BLADES

Note: Refer to Section 6 of this manual for parts list and item numbers. To help prevent damage to the tool, always perform blade replacement procedures in a clean and dry work area.

A. FIXED BLADE:

1. Loosen and remove the stud (16).
2. Push the old blade (15) out using a nail inserted through the hole in the cutting head. Remove the old blade.
3. Apply Loctite 242 to the threads of the stud (16).
4. Insert a new blade (15). Reinstall and tighten the stud (16) to secure the blade.

B. MOVABLE BLADE:

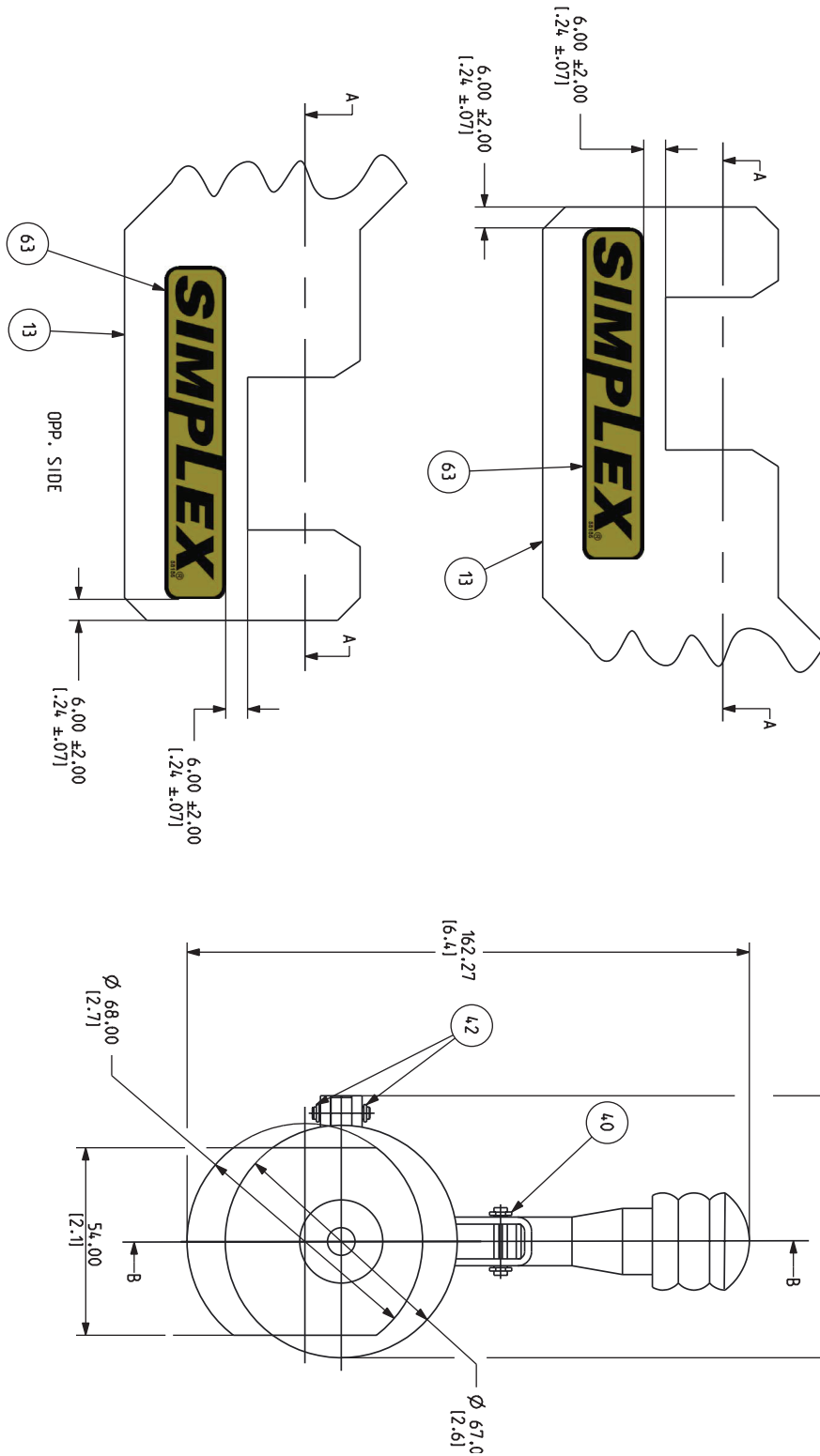
1. Loosen and remove the studs (16), on both sides of the piston (24).
2. Loosen the stud (28).
3. Firmly grasp the cutting head. Unscrew the cutter body (11) from the cutting head (13).
4. Loosen and remove the screw (17). Remove the old blade (14).
5. Mount a new blade (14).
6. Apply Loctite 242 thread sealant to the threads of the screw (17). Then, reinstall and tighten the screw (17) to secure the blade.
7. Thread the cutter body (11) fully into the cutting head (13). Tighten the stud (28).
8. Apply Loctite 242 thread sealant to the threads of the studs (16). Then, reinstall the studs on both sides of the piston (24).
9. Adjust the clearance between the piston (24) and the studs (16).
Note: The studs (16) act as a piston guide. Turn each stud in or out as needed to adjust the clearance. There must be sufficient clearance to allow the piston (24) to slide freely, but with a minimal amount of lateral movement. Clearance should be even on both sides of the piston.

5. ADDITIONAL INFORMATION

All information, illustrations and specifications in this operation manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

Equipment operators and installers shall be responsible for ensuring that a safe working environment and safe systems of work are in place before operating the equipment.

Simplex declares that this product has been tested and conforms to applicable standards and complies with all CE requirements.



| ITEM NUMBER | DESCRIPTION | QTY |
|-------------|-----------------------------------|-----|
| 1 | HANDLE | 1 |
| 2 | LEVER | 1 |
| *3 | O-RING 29.74 x 3.53 | 1 |
| *4 | COLLAR 8 x 14 x 7 | 1 |
| 5 | INJECTOR GUIDE NUT | 1 |
| *6 | O-RING 8.73 x 1.78 | 1 |
| 7 | PISTON | 1 |
| 8 | PIN | 2 |
| 9 | BALL 5.5 | 1 |
| *10 | COLLAR 40 x 50 x 7.5 | 1 |
| 11 | BODY | 1 |
| *12 | O-RING 60.04 x 1.78 | 1 |
| 13 | CUTTING HEAD | 1 |
| **14 | MOVABLE BLADE | 1 |
| **15 | FIXED BLADE | 1 |
| 16 | ALLEN STUD M12 x 16 DIN 913 | 3 |
| 17 | ALLEN SCREW M6 x 25 DIN 912 12.9 | 1 |
| 18 | ALLEN SCREW M8 x 30 DIN 912 12.9 | 1 |
| *19 | COPPER WASHER | 1 |
| 20 | SPRING TIE | 1 |
| 21 | ALLEN SCREW M8 x 16 WITH HOLE 3.5 | 1 |
| *22 | GUIDE RING 50 x 45 x 9.7 | 1 |
| *23 | O-RING 37.69 x 3.53 | 1 |
| 24 | PISTON | 1 |
| 25 | RETURN SPRING | 1 |
| 26 | RETURN VALVE SCREW | 1 |
| 27 | RETURN SPRING | 1 |
| 28 | ALLEN STUD M4 x 5 | 2 |
| 29 | INDRAFT SPRING | 1 |
| 30 | INDRAFT VALVE SCREW | 1 |
| 31 | BRASS NETTING FILTER | 1 |
| 32 | NETTING HOLDER COLLAR | 1 |
| 33 | OBTURATOR SCREW | 1 |
| 34 | NUT | 1 |
| 35 | TANK WASHER | 1 |
| 36 | TANK SCREW | 1 |
| 37 | TANK RUBBER | 1 |
| 38 | BALL 4 | 1 |
| *39 | COPPER WASHER 14 x 10 x 1.5 | 1 |
| 40 | SECURITY RING 6 DIN6799 | 4 |
| 41 | SPRING TIE | 1 |
| 42 | SECURITY RING 3.2 DIN6799 | 2 |

| ITEM NUMBER | DESCRIPTION | QTY |
|-------------|--------------------------|-----|
| *43 | O-RING 6.75 x 1.78 | 1 |
| 44 | HANDLE | 1 |
| 45 | ALLEN STUD M10 x 10 | 1 |
| *46 | BALL 3 | 1 |
| 47 | STUD M6 x 6 | 1 |
| 48 | STANDARD WASHER FOR M3 | 1 |
| 49 | SPRING | 1 |
| 50 | TANK COVER TUBE | 1 |
| 51 | RESTRICTOR VALVE SPRING | 1 |
| 52 | BALL BUTTON | 1 |
| 53 | SECURITY VALVE BODY | 1 |
| 54 | BUTTON LEVER | 1 |
| 55 | UNLOADING BUTTON | 1 |
| 56 | BUTTON PIN | 1 |
| *57 | O-RING 2.9 x 1.78 | 1 |
| *58 | BALL 7.5 | 1 |
| *59 | BALL 5.5 | 1 |
| 60 | BALL 4 | 1 |
| *61 | SEGMENT | 1 |
| 63 | SIMPLEX DECAL #88187 | 2 |
| 65 | SIMPLEX DECAL #DD2589226 | 1 |

*Included in service kit CCP0075K

**Included in blade kit CC0075BK

SIMPLEX