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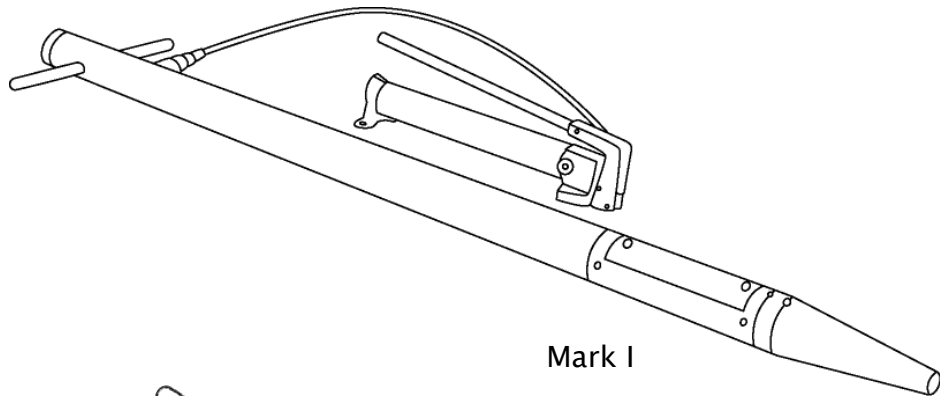
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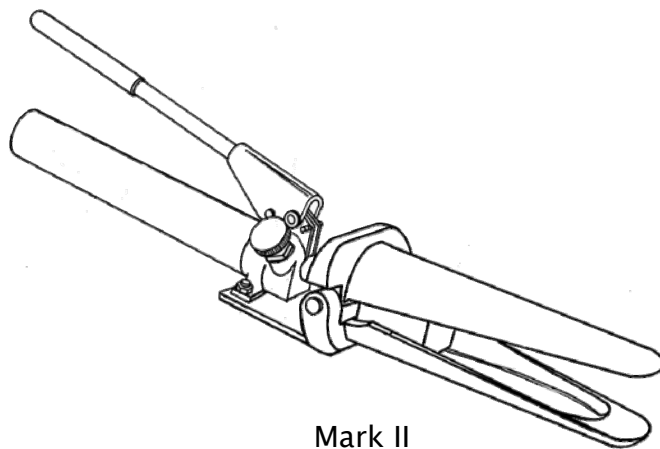
TIDLAND

Tidland Roll Saver

User Manual



Mark I



Mark II

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CAUTION



- **Keep hands clear of pinch points!**
- Follow safety procedures as outlined for use with hydraulic equipment.
- Do not use lubricants during maintenance of this product. Lubrication will cause contamination by accumulation of dust or debris in the moving parts.
- Unit repair procedures are not covered in this document. If this product cannot be made operational with the use of these instructions, contact Tidland Customer Service.

TIDLAND CUSTOMER SERVICE

1.800.426.1000
1.360.834.2345

www.maxcessintl.com

RECOMMENDED TOOLS

Mark I

Hex drive wrenches: 4, 5, 6 and 8 mm

Spanner wrench for use with the Mark I adapter: Tidland Part No. 772945 (provided in adapter kits)

Mark II

None

Also available for use with the Mark I Roll Saver: Sledge Weight (Tidland Part No. 133144)

This 9kg/20 lb sledge weight is a useful tool for driving the Mark I into difficult cores – simpler and safer than any type of sledgehammer.

MARK I ADAPTER KITS

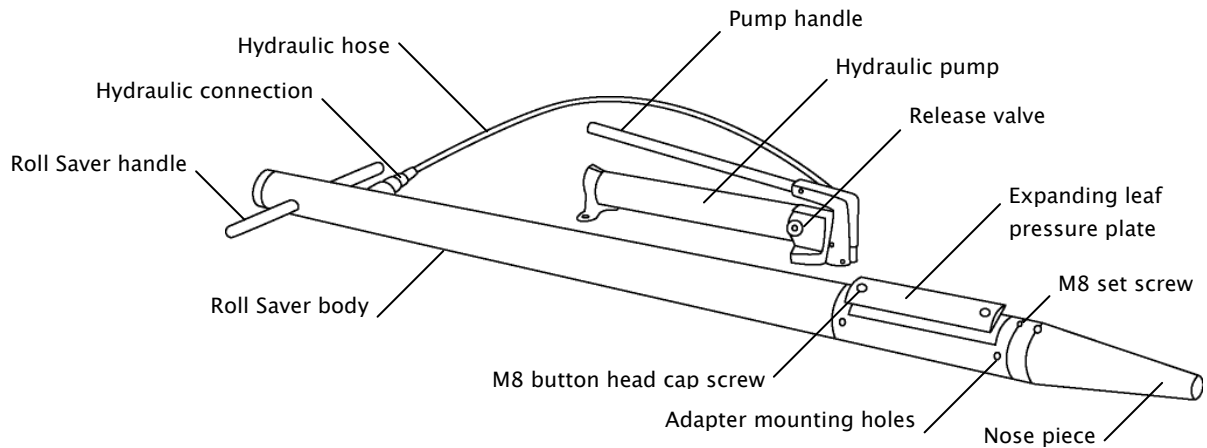
Adapter kits include nose cone, adapter leaf, necessary hardware, and a spanner wrench.

| Core diameter | | Kit number |
|---------------|-----------|---------------------|
| mm | inches | |
| 70-76 | 2.75-3.00 | no adapter required |
| 102 | 4.00 | 700026 |
| 127 | 5.00 | 700034 |
| 152 | 6.00 | 129871 |
| 172 | 6.75 | 522363 |

Installation instructions are on page 7.

MARK I ROLL SAVER

Parts identification

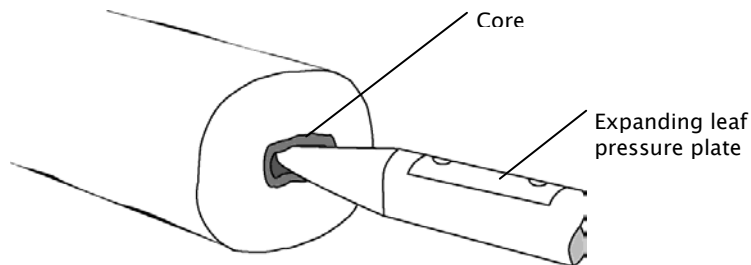


Setup

Connect the hydraulic pump hose to the Roll Saver body.

Operation

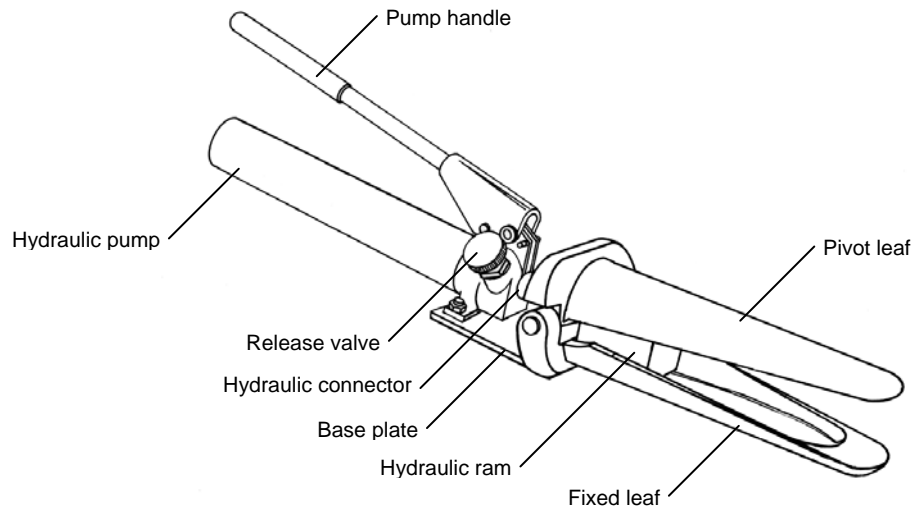
1. Place the roll on its side.
2. Ease the Roll Saver into the crushed core, ensuring that the pressure plate is located to open against the crushed core area.



3. Operate the hydraulic pump using the pump handle. The pressure plate will expand outward inside the core.
4. Open the release valve on the hydraulic pump to relieve the pressure, then reposition the nose piece, if necessary, further into the core.
Note: Drive into core using sledge weight if necessary (See Spare Parts, page 9).
5. Repeat steps 3–4 until the roll is completely restored.
Note: It is important to periodically "shock-set" the roll. While the pressure plate is expanded inside the core, strike the roll hard along the roll circumference with a mallet or heavy stick to release the internal stresses.
6. When the roll is restored, open the release valve on the Roll Saver, relieve the pressure and remove the Roll Saver from the core.

MARK II ROLL SAVER

Parts identification



Operation

1. To ease the Roll Saver into the crushed roll:
2. With jaw leaves closed, close the release valve on the hydraulic pump.
3. Position the jaws as far as they will go into the crushed roll.
4. Pump the handle until the jaws open.
5. Open the release valve to close the jaws.
6. Repeat Steps 1–4 until the Roll Saver is completely inside the crushed roll.
7. With the jaws closed, rotate the Roll Saver so the jaws push out in the direction of the maximum crush.

Note: It is important to periodically shock-set the roll. While the pressure plate is expanded inside the core, strike the roll hard along the roll circumference with a mallet or heavy stick to release the internal stresses.

8. When the roll is restored, open the release valve on the Roll Saver to close the jaws.
9. Remove the Roll Saver from the core.

MARK I ADAPTER

For adaptation to 4", 5" or 6' Cores

(See page 9 for part numbers.)

Before installing adapter:



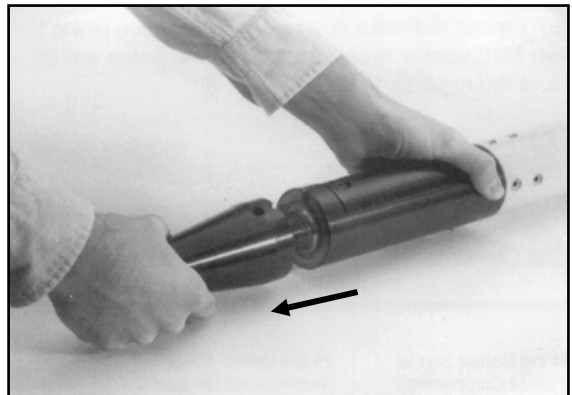
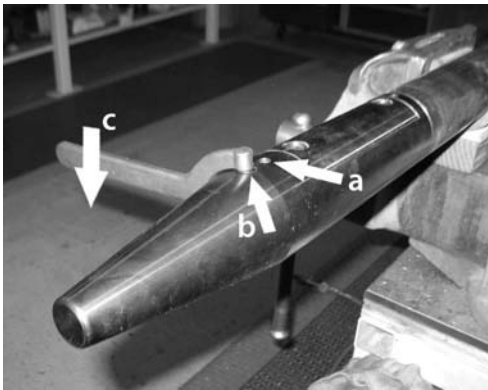
Disconnect the hydraulic pump from the Roll Saver body.

Remove the stock nose piece and expanding leaf pressure plate components.

Installing the adapter

Remove the stock nose piece

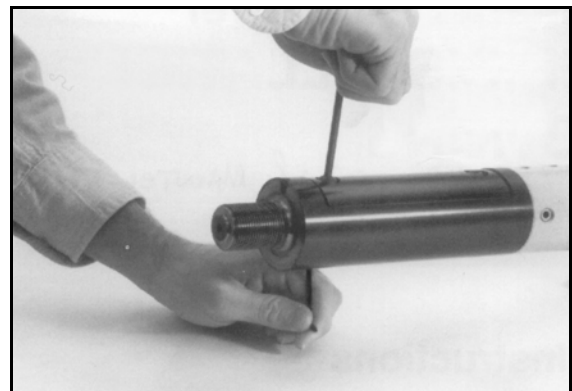
1. Remove the M8 setscrew (a) from the Roll Saver nose piece.
2. Using the spanner wrench provided in your adapter kit, unscrew the nose piece from the Roll Saver body. Insert wrench pin (b) as shown and push handle down (c) to turn the nose piece in the counterclockwise direction.
3. Pull the nose piece off of the body.



Remove the stock leaf pressure plate

4. Remove the expanding leaf pressure plate from the body by removing the two M8 button head cap screws.

Note: The screws are threaded into guide bolts in the Roll Saver body. There is a slot in the guide bolt head with corresponding holes on the underside of the body. To keep the guide bolt from rotating while removing the screw, insert a pin or rod into its corresponding hole, making sure that the pin seats into the slot in the guide bolt.

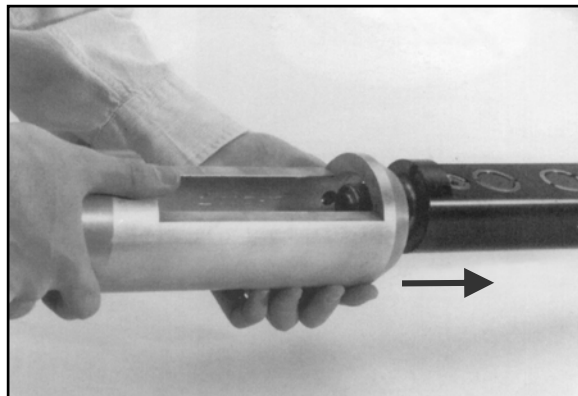


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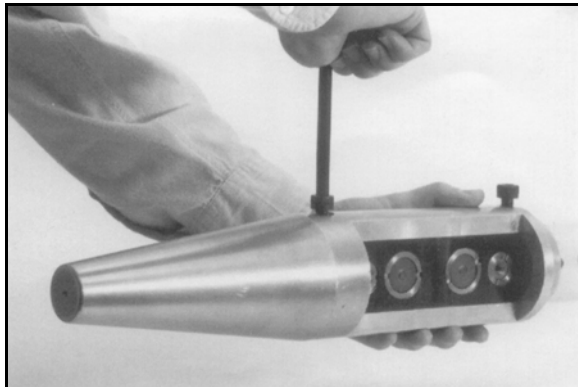
MARK I ADAPTER

Installing the adapter (continued)

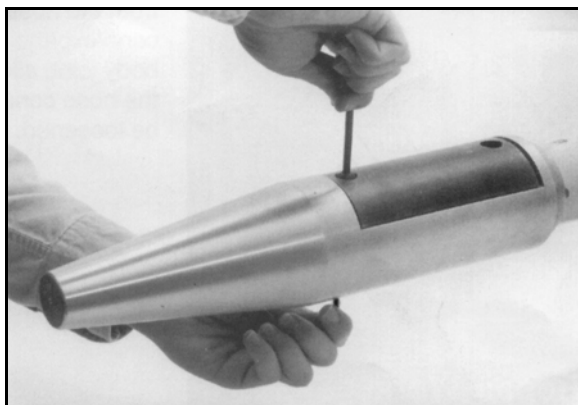
5. After removing stock leaf pressure plate and nose piece, slide the adapter onto the Roll Saver body.
6. Align the adapter on the Roll Saver body so that the pistons, facing upward, show through the slot in the adapter.



7. Fasten the adapter to the Roll Saver body with M10 socket head cap screws (supplied with adapter) as shown.
Note: The 4 inch adapter is supplied with M10 button head cap screws.



8. Fasten the adapter expanding leaf pressure plate to the Roll Saver body guide bolts using M8 socket head cap screws (supplied with adapter). Insert the pin in the corresponding hole to prevent the guide bolts from turning while bolts are tightened.



See page 5 for operation instructions.

TROUBLESHOOTING

| Problem | Possible cause | Recommended solution | Page |
|---|------------------------------|--|------|
| Mark I adapter will not fit onto Roll Saver body | Stock nose piece not removed | Remove stock nose piece. | 7 |
| Cannot install Mark I adapter pressure plate leaf | Stock leaf not removed | Remove stock leaf. | 7 |
| Mark I pressure plate does not expand. | Hydraulics not connected | Connect hydraulic pump to Roll Saver body. | 5 |
| Mark II jaws do not open | Release valve open | Close release valve. | 6 |

Spare parts

The metric hardware is listed here for reference.

Call Tidland Customer Service for assistance with replacement parts.

| Description | Part number |
|---|-------------|
| Mark I Roll Saver | 700042 |
| M8 X 1.25 X 8 LG - Setscrew Knurl Cup Pt | - |
| M8 X 1.25 X 25 LG - Button Hd Cap Screw | - |
| Guide Bolt | 700006 |
| Mark I Hydraulic Hand Pump | 700013 |
| Sledge Weight | 133144 |
| Mark I Adapter - 4" | 700026 |
| M8 x 1.25 x 35 LG - Soc Hd Cap Screw | - |
| M10 x 1.50 x 16 LG - Btn Hd Cap Screw | - |
| Mark I Adapter - 5" | 700034 |
| M8 x 1.25 x 45 LG - Soc Hd Cap Screw | - |
| M10 x 1.50 x 20 LG - Soc Hd Cap Screw | - |
| Mark I Adapter - 6" | 129871 |
| M8 x 1.25 x 50 LG - Soc Hd Cap Screw | - |
| M10 x 1.50 x 30 LG - Soc Hd Cap Screw | - |
| Mark II Roll Saver | 700066 |
| Mark II Roll Saver Repair Kit | 126627 |
| Spanner wrench (included with adapter kits) | 772945 |

SPECIFICATIONS

| | Mark I Roll Saver | | Mark II Roll Saver | |
|--------------------------|---|------------------|-----------------------------------|------------------------------------|
| Core ID | 70–76 mm | 2.75–3.00 inches | 70–76 mm | 2.75–3.00 inches |
| Penetration | *915 mm | *36 inches | 250 mm | 10 inches |
| Weight (body only) | 17 kg | 37 lbs | N/A | N/A |
| Weight (with pump) | 26 kg | 57 lbs | 9 kg | 19 lbs |
| Hydraulic pressure | 700 bar | 10,150 psi | 621 bar | 9,000 psi |
| For roll diameters up to | 1.8 m | 70 inches | 1025 mm diameter, 902 mm width | 45 inch diameter, 36 inch width |
| Expansion | Approximately 1/4 inch above nominal core | | | |



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AND SOUTH AMERICA**
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