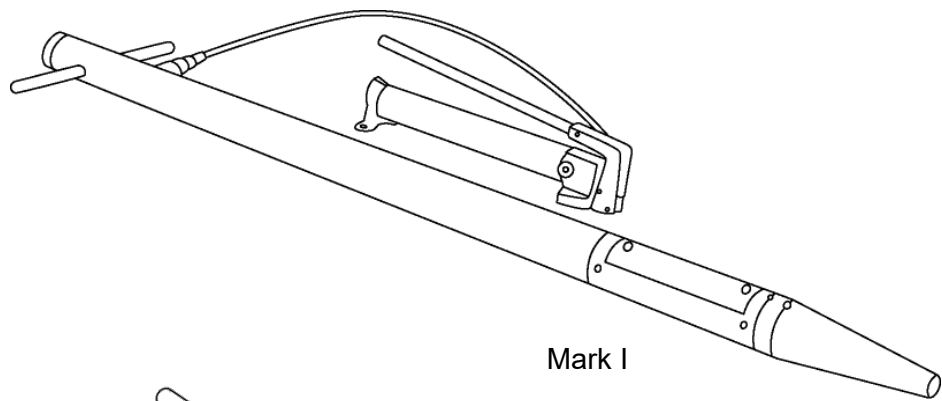




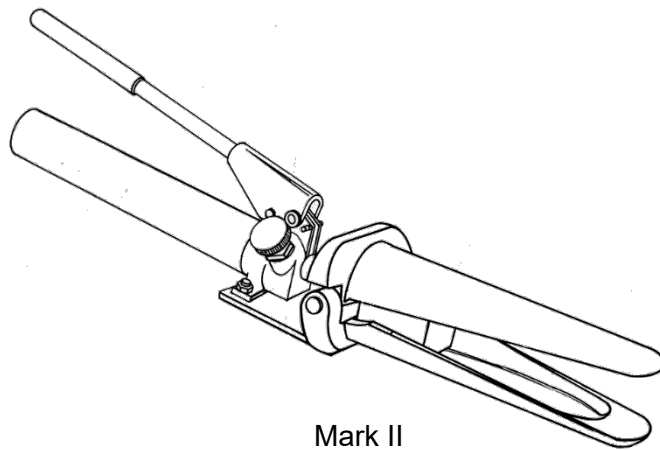
# Tidland Roll Saver

## User Manual

---



Mark I



Mark II

# CONTENTS

CONTACT US	3
RECOMMENDED TOOLS	3
MARK I ADAPTER KITS	3
SPECIFICATIONS	3
Setup .....	4
MARK II ROLL SAVER	5
Parts identification .....	5
Operation .....	5
MARK II ROLL SAVER	6
Parts identification .....	6
Operation .....	6
MARK I ADAPTERS	10
Installation .....	10
TROUBLESHOOTING	12
SPARE PARTS	12

## 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 Maxcess Customer Service.

## CONTACT US

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. Installation instructions are on page 10.

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

## 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			

## Setup

Connect the hydraulic pump hose to the fitting on the Roll Saver body.

Note: It is normal to see some movement of the hydraulic connection fitting in relation to the body.

## Hydraulic Connections

### IMPORTANT

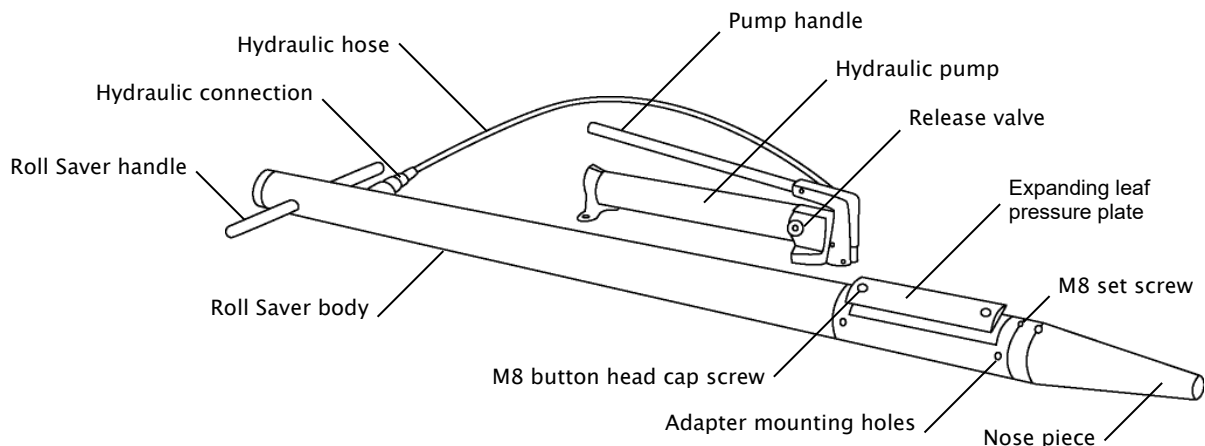
Seal all hydraulic connections with a high grade, nonhardening thread sealant. PTFE tape may also be used to seal hydraulic connections if only one layer of tape is used. Apply the tape carefully, two threads back, to prevent it from being pinched by the coupler and broken off inside the pipe end. Any loose pieces of tape could travel through the system and obstruct the flow of fluid or cause jamming of precision fit parts.

- Clean all areas around the fluid ports of the pump and cylinder. Clean all hose ends, couplers, and union ends. Remove thread protectors from the hydraulic fluid outlets and connect the hose assembly. Couple hose to cylinder.
- The use of a hydraulic pressure or tonnage gauge (not included) is strongly recommended. Remove the pipe plug from the gauge port of the valve, thread the gauge into this port and seal as noted above.

To help prevent personal injury,

- The gauge must have the same pressure rating as the pump and cylinder. Personal injury can result if the wrong gauge is used.
- Release hydraulic pressure BEFORE removing or tightening hose couplings.

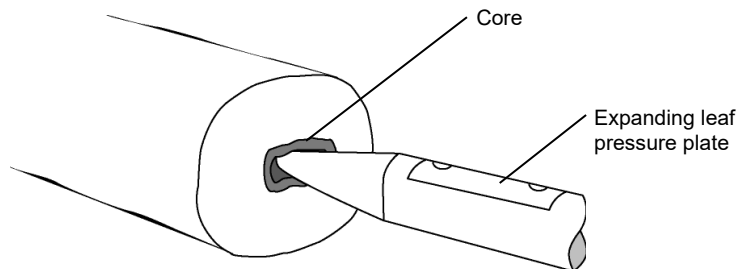
## Parts identification



## Operation

Mark I hand pumps can be operated in a horizontal position, or in a vertical position with head pointing downward.

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. Turn the valve knob counterclockwise to a closed (seated) position until hand tight.
4. Operate the hydraulic pump using the pump handle. The pressure plate will expand outward inside the core.
5. Open the release valve on the hydraulic pump to relieve the pressure, then reposition the nose piece, if necessary, further into the core.

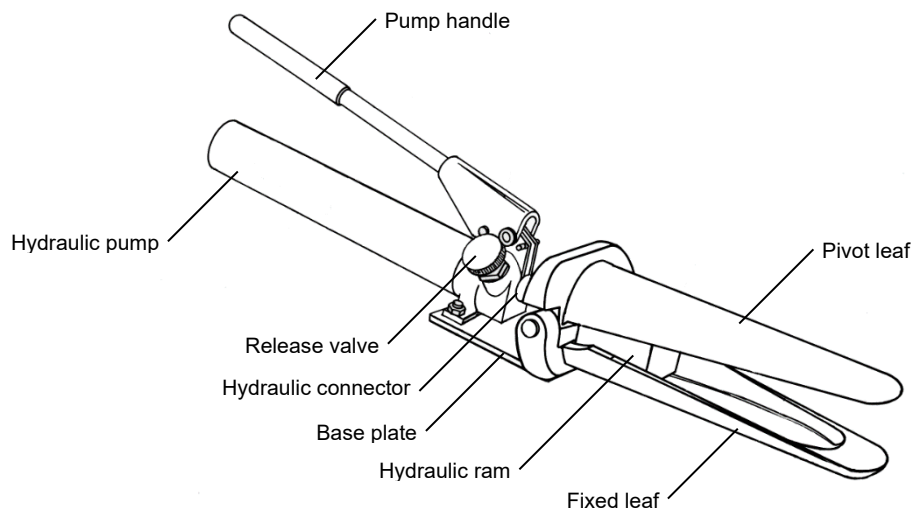
**Note:** Drive into core using sledge weight if necessary (See Spare Parts, on page 12).

6. 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.

7. When the roll is restored, open the release valve on the Roll Saver, relieve the pressure and remove the Roll Saver from the core.

## Parts identification



## Operation

Mark II hand pumps can be operated in a horizontal position, or in a vertical position with head pointing downward.

To ease the Roll Saver into the crushed roll:

1. With jaw leaves closed, close the release valve on the hydraulic pump. Turn the valve knob counterclockwise to a closed (seated) position until hand tight only.
2. Position the jaws as far as they will go into the crushed roll.
3. Pump the handle until the jaws open.
4. Open the release valve by turning the knob clockwise, then close the jaws by hand if needed.
5. Repeat Steps 1-4 until the Roll Saver is completely inside the crushed roll.
6. 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.

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

## Preventative Maintenance

**Any repair or servicing that requires dismantling the pump must be performed in a dirt-free environment by a qualified technician.**

### Lubrication

- Apply lubricant regularly to all pivot and rubbing points.
- Use a good grade of No. 10 motor oil or grease. Do not use dry lubricants.

### Bleeding Air From the System

Air can accumulate in the hydraulic system during the initial set-up or after prolonged use, causing the cylinder to respond slowly or in an unstable manner.

To remove the air:

1. Position the cylinder at a lower level than the pump and turn the cylinder rod end down.
2. Extend and retract the cylinder several times without putting a load on the system. Air will be released into the pump reservoir. Follow the fluid level instructions for your model type to release the air from the reservoir and top off the fluid supply.

### Bleeding Air From the Pump

**When the pump is first put into use, or after refilling the pump's reservoir it may be necessary to bleed any trapped air from the pump. If this is not done the pump will not function properly (will not build pressure or has very spongy operation).**

To bleed air from the pump:

1. Turn the pressure control knob counterclockwise (CCW) and operate the pump handle up and down approximately twenty times.
2. Turn the pressure control knob clockwise (CW) to its full stop position.

The pump should now be bled of air and ready to use.

## Hydraulic Fluid Level

Cylinder(s) must be fully retracted before checking the fluid level. Release all system pressure before breaking any hydraulic connection in the system.

Check the hydraulic fluid level in the reservoir periodically. Use a funnel with a filter to add hydraulic fluid if needed.

For Mark II model:

1. Place the pump in a vertical position with the pump head facing upward.
2. Unscrew and remove the pump head from the reservoir. The fluid level within the reservoir should come to the fluid level mark indicated on the reservoir body decal.
3. Before replacing the pump head, visually inspect the O-ring which seals the pump head/reservoir assembly.
4. Replace this O-ring if it is worn or damaged.
5. Reinstall pump head to reservoir and tighten securely.
6. Check for leaks.

For Mark I model:

1. Remove the filler cap.  
The fluid level should come to the bottom edge of the filler hole when the pump is level and resting horizontally on its base and the cylinders are retracted. (see Figure 2).

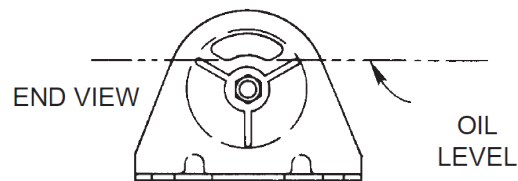


Figure 2



## Draining And Flushing the Reservoir

Drain, clean and replenish the reservoir with high-grade, approved Power Team hydraulic fluid yearly or more often if necessary. The frequency of fluid change will depend upon the general working conditions, severity of use and overall cleanliness and care given the pump.

### IMPORTANT

Clean the exterior of the pump first. After draining and flushing the reservoir, drain and clean the other hydraulic system components (hoses, cylinders, etc.) before connecting them to the pump again. This will help prevent contaminated fluid from entering the pump.

For Mark II model:

1. Unthread and separate the pump head from the reservoir. Drain the reservoir of the used hydraulic fluid.
2. Flush out reservoir with a small amount of clean hydraulic fluid. Clean the pump intake filter.

Removing the filter from the pump assembly could result in its breakage. Attempt to clean it as well as possible with it installed.

3. Refill the reservoir and reassemble the pump head to the reservoir.
4. Tighten securely.
5. Check for leaks.

For Mark I model:

1. Remove the filler cap. Drain the hydraulic fluid through filler hole.
2. Remove the nut from the tie rod. Separate the reservoir from the pump body. Clean the reservoir and filter.

Removing the filter from the pump assembly could result in its breakage. Attempt to clean it as well as possible while installed.

3. Reassemble and fill the reservoir with Power Team hydraulic fluid.
4. Replace the filler cap.

# MARK I ADAPTER

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

(See page 12 for part numbers.)

### Before installing adapter:

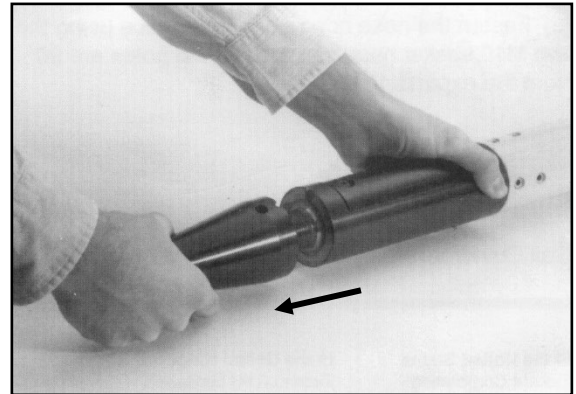
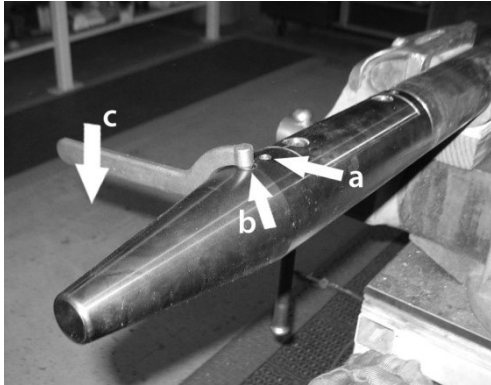


Disconnect the hydraulic pump from the Roll Saver body.  
Remove the stock nose piece and expanding leaf pressure plate components.

### 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.

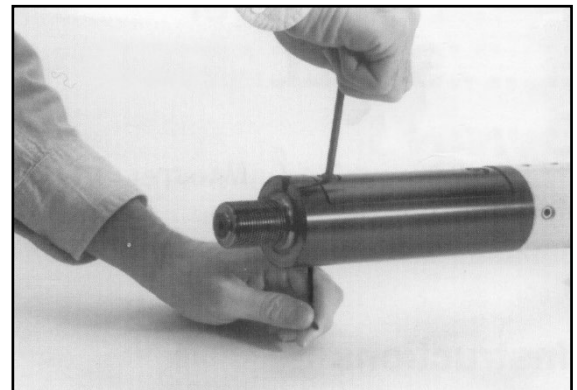


#### Remove the stock leaf pressure plate

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

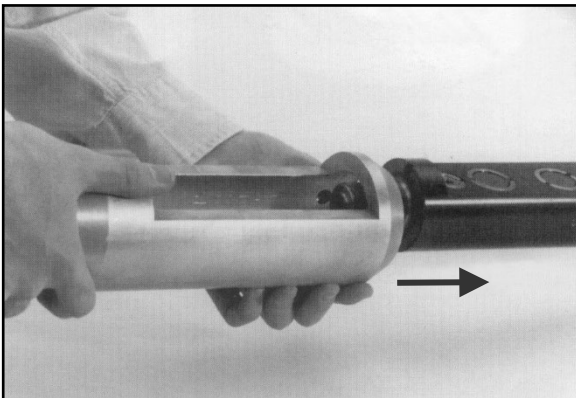
**Note:** The screws are threaded into guide bolts in the Roll Saver body. There is a slot in the guide bolt head with corresponding holes on the underside of the body. To keep the guide bolt from rotating while removing the screw, insert a pin or rod into its corresponding hole, making sure that the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

Continued on next page

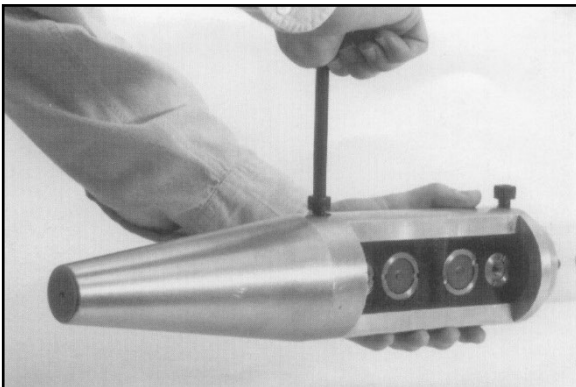


## Installing the adapter (continued)

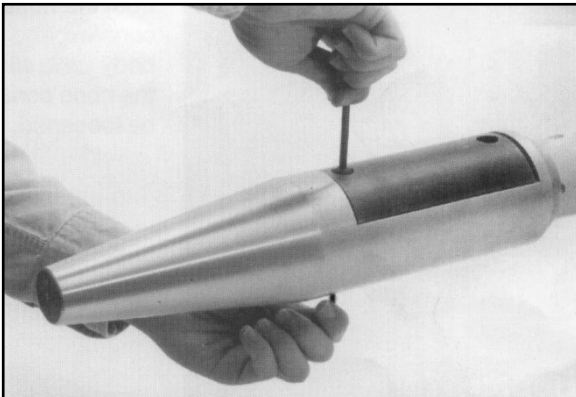
5. After removing stock leaf pressure plate and nose piece, slide the adapter onto the Roll Saver body.
6. Align the adapter on the Roll Saver body so that the pistons, facing upward, show through the slot in the adapter.



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 operating 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.	10
Cannot install Mark I adapter pressure plate leaf	Stock leaf not removed	Remove stock leaf.	10
Mark I pressure plate does not expand.	Hydraulics not connected	Connect hydraulic pump to Roll Saver body.	4
Mark II jaws do not open	Release valve open	Close release valve.	6

## SPARE PARTS

The metric hardware is listed here for reference.  
Call Maxcess for assistance with replacement parts.

Description	Part number
Mark I Roll Saver	700042
M8 X 1.25 X 8 LG – Setscrew Knurl Cup	–
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



**AMERICAS**  
Tel +1.360.834.2345  
Fax +1.360.834.5865  
sales@maxcessintl.com  
www.maxcessintl.com

**EUROPE, MIDDLE EAST  
AND AFRICA**  
Tel +49.6195.7002.0  
Fax +49.6195.7002.933  
sales@maxcess.eu  
www.maxcess.eu

**CHINA**  
Tel +86.756.881.9398  
Fax +86.756.881.9393  
info@maxcessintl.com.cn  
www.maxcessintl.com.cn

**INDIA**  
Tel +91.22.27602633  
Fax +91.22.27602634  
india@maxcessintl.com  
www.maxcess.in

**JAPAN**  
Tel +81.43.421.1622  
Fax +81.43.421.2895  
japan@maxcessintl.com  
www.maxcess.jp

**KOREA, TAIWAN,  
AND SE ASIA**  
asia@maxcessintl.com  
www.maxcess.asia