

# PELL HYDRASHEAR MODEL

POC2500-80  
POC2500-94  
POC2500-94AIR



## PARTS AND OPERATING INSTRUCTIONS

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MORSE-STARRETT  
HAMMER TYPE  
WIRE ROPE CUTTERS  
SEIZING BANDS

# MORSE-STARRETT PRODUCTS CO. and PELL CABLE CUTTER CO.

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HYDRAULIC CUTTERS  
FOR WIRE ROPE  
PRE-STRESSED STRAND  
REINFORCING BAR  
CHAIN

## SERVICE AND OPERATING INSTRUCTIONS POC2500-80/POC2500-94/POC2500-94AIR

**IMPORTANT: WHEN REPLACING OIL, CHECK THE PUMP SERVICE MANUAL FOR OIL SPECIFICATIONS. DO NOT USE HYDRAULIC BRAKE FLUID**

When using the cutting head, a pressure gauge must be used on your pump.

### OPERATING INSTRUCTIONS:

1. **RAISE LATCH (#33) AND OPEN SHEAR BLADE HOLDER (#43).** PLACE WIRE ROPE IN SHEAR BLADE AND CLOSE LATCH. IF LATCH WILL NOT CLOSE, BLADE IS NOT ALIGNED TO SHEAR BLADE OR GUIDES OR THE MATERIAL TO BE CUT IS OVERSIZE.

2. **BEING SURE LATCH (#33) IS IN CLOSED POSITION,** TURN POWER SWITCH TO ON POSITION. THIS WILL START BLADE FORWARD TO CUT CABLE. IMMEDIATELY AFTER COMPLETING CUT, RETURN POWER SWITCH TO OFF POSITION AND THE BLADE WILL RETURN TO RETRACTED POSITION.

3. **IF BLADE DOES NOT RETRACT WITH LATCH CLOSED,** PRY BACK WITH CLAW BAR, SCREWDRIVER OR OTHER TOOL. **DO NOT POUND WITH HAMMER!**

### SERVICING INSTRUCTIONS:

A. **IF RAM WILL NOT RETRACT INTO CYLINDER,** IT PROBABLY HAS BEEN BURRED OR DAMAGED SO THAT IT WILL NOT CLEAR THE RAM COLLAR. FILE OFF BURRS TO PERMIT CLEARANCE.

B. **TO RE-SHARPEN OR REPLACE BLADE, PUMP UNTIL BLADE PIN (#5) IS CLEAR OF RAM COLLAR.** DRIVE OUT PIN AND BLADE WILL LIFT RIGHT OUT. TO SHARPEN BLADE, USE FINE GRINDING WHEEL OR CARBORUNDUM STICK. **DO NOT SHARPEN TO A FINE EDGE!**

C. **IF THE BLADE WILL NOT PUMP OUT, ENSURE PUMP RESERVOIR HAS CORRECT AMOUNT OF OIL.** TO ADD OIL, WIPE AWAY ALL LOOSE DIRT AND REMOVE RETURN LINE FROM THE PUMP. POUR IN SUFFICIENT OIL SO THAT WHEN PUMPING, RAM WILL TRAVEL TO MAXIMUM POSITION. WHEN REFILLING, USE ONLY NEW, CLEAN OIL. (IF EQUIPPED WITH AN AIR PUMP AND RAM WILL NOT PUMP OUT, ENSURE THAT CUTTER IS ATTACHED TO PUMP WITH MINIMUM 1/2" I.D. HOSE AND MINIMUM 3/8" FITTINGS AT 100 PSI)

### D. TO REMOVE RAM FROM CYLINDER, FOLLOW STEPS BELOW - REMEMBER THE RAM COLLAR IS UNDER SPRING TENSION!!

1. REMOVE SHEAR BLADE HOLDER (#43) FROM BODY.
2. USE PROCEDURE "B" TO REMOVE BLADE (TO RE-SHARPEN).
3. REMOVE ONLY THE BOTTOM BOLT FROM THE COLLAR (TWO WILL REMAIN).
4. REMOVE HOSE & FITTINGS FROM BACK OF CUTTER.
5. PLACE 4" LONG FLAT PIECE OF STEEL 1/4" THICK ACROSS THE CENTER OF THE COLLAR, THEN CLAMP USING A LARGE C-CLAMP. PLACE IT OVER THE FLAT PIECE OF STEEL, WORKING FROM BACK TO SIDE OF CUTTER, TIGHTEN BEFORE REMOVING THE TWO REMAINING SCREWS. UNSCREW THE C-CLAMP SLOWLY UNTIL SPRING TENSION IS RELEASED.

E. **IF YOU FEEL YOU ARE HAVING EXCESSIVE BLADE BREAKAGE,** CAREFULLY EXAMINE YOUR DIES. IF THE DIE SET IS CRACKED OR BROKEN, THEY PERMIT SMALL PIECES OF STEEL TO WEDGE IN BETWEEN THE BLADE AND DIES AND EXCESSIVE BLADE BREAKAGE WILL OCCUR. IF THE DIES ARE BROKEN OR CRACKED, EXAMINE THE SHEAR BLADE HOLDER. OCCASIONALLY SHEAR BLADE HOLDERS ARE BENT DUE TO EXCESSIVE PRESSURE DEVELOPED WHEN THE OPERATOR HAS ATTEMPTED TO CUT SOLID BAR STOCK. IF IT IS DIFFICULT TO OPEN THE SHEAR BLADE HOLDER, THE PROBLEM COULD BE THE HINGE OR LATCH PINS ARE BENT. IF THE SHEAR BLADE HOLDER IS BENT, EXCESSIVE BREAKAGE OF THE DIES WILL OCCUR.

F. **WE USE A HOLLOW SPLIT BLADE PIN IN THE HYDRASHEAR.** WHEN ATTEMPTING TO REMOVE THE BLADE PIN, DO NOT ATTEMPT TO DRIVE IT OUT WITH THE USE OF A NAIL OR SMALL PIECE OF WIRE. USE A PUNCH OR A BLUNT OBJECT WHICH WILL CLOSELY FIT THE BLADE PIN HOLE. THIS HOLE IS 3/16" DIAMETER. A NAIL IS SATISFACTORY IF THE POINT IS REMOVED. FOR PUMP SERVICE AND WARRANTY, SEE YOUR PUMP MANUAL.

**DUE TO THE WORK HARDENING OF USED CABLE, THE OPERATING LIFE OF THE BLADE MAY BE GREATLY REDUCED.**

**A PRESSURE GAUGE MUST BE USED WHEN OPERATING CUTTING HEAD WITH PUMP.**





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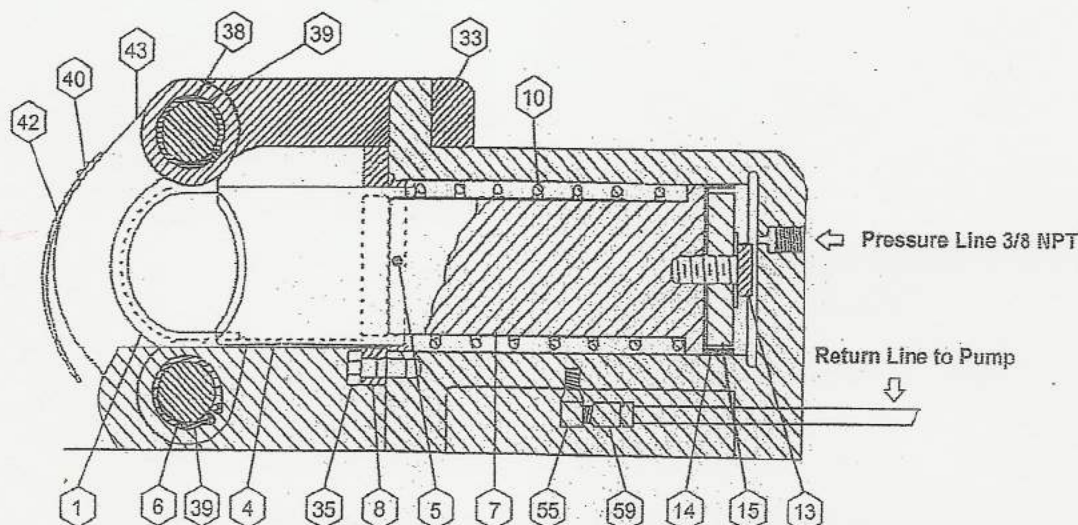
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Model POC 2500

Operating & Service Instructions



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## MODEL POC2500 2-1/2" CAPACITY CUTTER REPLACEMENT PARTS CHART AND DESCRIPTION

POC2500-1	Dies (set)	POC2500-33	Latch
POC2500-4	Blade	POC2500-35	Collar screw (3)
POC2500-5	Blade pin	POC2500-38	Latch pin
POC2500-6	Hinge pin	POC2500-39	Snap rings (4)
POC2500-7	Ram	POC2500-40	Guard screw (2)
POC2500-8	Ram collar	POC2500-42	Guard plate
POC2500-10	Retracting spring	POC2500-43	Shear blade holder
POC2500-13	Ram retaining screw	POC2500-55	1/4" NPT elbow
POC2500-14	Cup leather w/O-ring	POC2500-59	1/4" NPT valve
POC2500-15	Cup retainer		

If repair or parts for your pump are required, consult your local hydraulic service center or pump manufacturer.