



Pump Repair Services

# Reducing Downtime Through Convenient Pump Repair Services



## Weir SPM offers the services to keep your pumps where they belong...

### In the field.

Weir SPM is committed to providing our customers with the resources needed to maximize the efficiency of their Weir SPM products, thus increasing productivity during their operation.

Well service pumps undergo great stresses during operation, particularly under harsh pumping environments. Therefore care must be taken to make sure the pumps are maintained properly and repaired when needed.

Weir SPM's professionally trained technicians perform complete pump repair services for all makes and models of well service pumps. Each pump repair service center can provide a wealth of services to allow the customer to have their equipment repaired as quickly as possible with added convenience.



Weir SPM offers pump repair services at various locations around the globe, strategically positioned to minimize the time pumps are unavailable.

Weir SPM also offers a fleet of Mobile Recertification units that can provide fluid end maintenance and basic pump repair services at the customers' site for increased convenience and fast problem solving solutions.



Weir SPM Mobile Recertification Units allow for convenient solutions to select pump repair issues in the field.

### Full Service Pump Repair Facilities:

- Fort Worth, TX
- Odessa, TX
- Red Deer, AB, Canada
- Aberdeen, Scotland



### Pump Repair Procedures Include:

- Disassembly of all components
- Inspection, including magnetic particle
- Evaluation of Repair
- Cost Estimates
- Repair utilizing skilled Weir SPM technicians
- Testing and power up
- Documentation to verify product quality
- Repaint



All repaired pumps are tested to full power before returning to the customer.

## Weir SPM's Newest Pump Repair Service

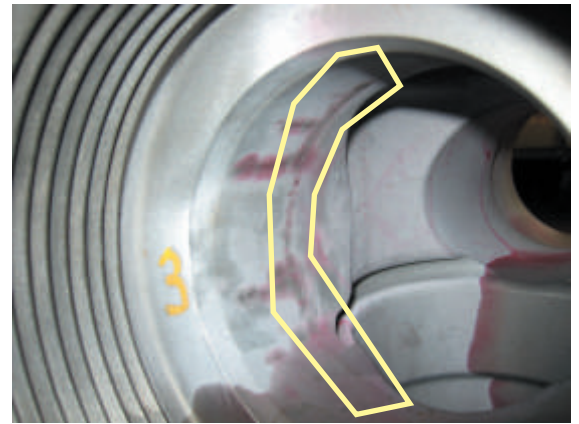
### Fluid End Repair Services

In the past, the only option for operators with cracked, washed or eroded fluid ends was to simply discard them. In an effort to offer customers an alternative to disposing of their equipment, Weir SPM has developed a process to return used blocks as reconditioned fluid ends in "like-new" condition. Weir SPM has been implementing this process in select areas with great success. Now, all customers will have the opportunity to evaluate the status of their fluid cylinders and have options of whether to replace or refurbish.

#### Refurbishment Process Includes:

- Fluid cylinders completely cleaned and bead-blasted. (A chemical hot tank dip is required for excessively dirty cylinders.)
- Visual inspection of seat taper bores, valve lift wash areas, packing bores, suction bores, discharge bores, and mounting flange for fretting.
- 100% die penetration examination on the fluid cylinder internals.
- 100% wet fluorescent magnetic particle inspection on all thread bores.
- Examination of all bores and thread bore connections.
- Examination of all valve seat bores and stand off dimensions.
- Record of all visual findings and dimensional data on formatted reports.
- Finalized reports for presentation to customer.
- Customer evaluation to decide on scope of work demanded.

Weir SPM's fluid end repair services can repair problems such as cracks in fluid cylinder bores, as seen to the right.

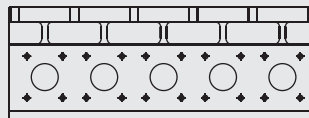


#### Program Advantages:

- Fast turnaround.
- Cost efficient alternative to purchase of new block.
- Extends life of fluid ends.
- In depth reports given on status of cylinder and repairs made.
- Complete examination of fluid cylinder, including tests that cannot be performed in the field.

### Fluid End Repair Areas of Inspection

#### Suction Manifold Face



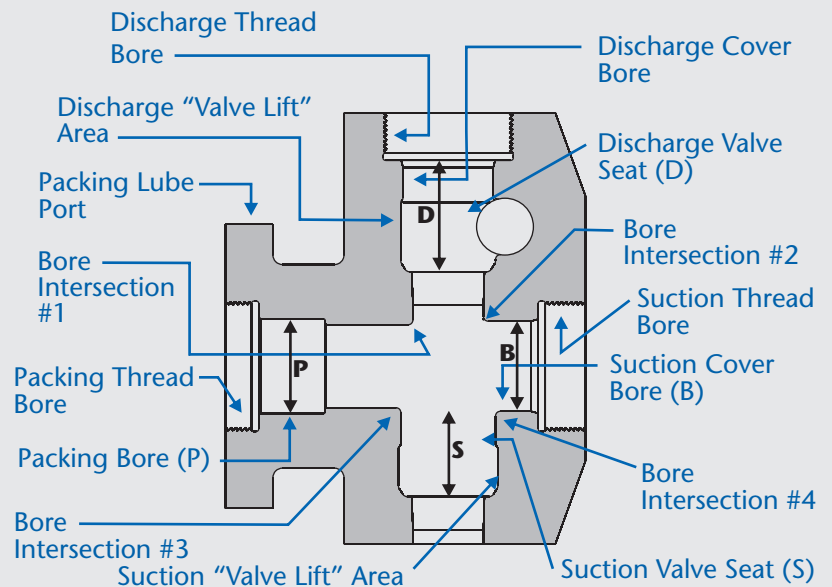
#### L.H. Discharge Port



#### R.H. Discharge Port



#### Fluid End Inspection Process



## Pump Training

Weir SPM offers pump schools to train your employees on the proper use, installation and upkeep of Weir SPM pumps. Held on site, or at a Weir SPM location, these schools are a great opportunity for your employees to learn how to maximize the productivity and life of your Weir SPM pumps.



## Mobile Recertification Units

Weir SPM has a fleet of Mobile Recertification Units that are currently providing on site service throughout the United States, Mexico, Middle East, Russia and Far Eastern Countries. The MRU's are designed and manufactured to provide a wide variety of services to the customer at their location, including various pump repair services by trained Weir SPM field pump specialists. MRUs can also perform recertification procedures on accompanying flow control products.



### Pump Services:

- Replacement of fluid end expendables
- Fluid end inspection
- Fluid end magnetic particle inspection
- Pump inspection
- Basic power end repair
- Training - maintenance & operation
- Pump and pump part sales

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