

## Hydraulic services

With over 40 years' experience with fluid power systems, and engineering expertise in all disciplines, Sparrows has the in-house capability to project manage and carry out design, manufacture, inspection, troubleshooting, and repair of your hydraulic components.

### REPAIR SERVICES

Having built working relationships with major hydraulic OEMs, Sparrows is a certified Dana / Brevini, Braden, SKF Lincoln and Linde authorized service center offering troubleshooting and repair on the following components:

- Hydraulic pumps and motors
- Hydraulic valves
- Cylinders
- Conveyor drives and rollers
- Swing gear boxes.



### Hydraulic test stand

With our 450hp hydraulic test stand located in Houston, Texas and 250hp test stand in Slidell, Louisiana, our technicians can test and certify your equipment back to OEM standards.

The test stand capabilities allow us to set pressures, flows, and control functions prior to completion and ensure proper field installation, giving you confidence that your components can operate in the most challenging conditions.

Main image: 450hp test stand in Houston. Inset image: 250hp test stand in Slidell.

## ENGINEERING DESIGN SERVICES

Our large engineering team is well equipped to advise on design and consult, troubleshooting and system analysis, as well as:

- System upgrade and modification
- System diagnostic checks
- Failure mode, effects, and criticality analysis (FMECA)
- As-built surveys and data gathering
- Obsolescence review and component repair / refurbishment.

## RENTAL SERVICES

We can supply an extensive range of rental equipment for specific projects and temporary solutions including:

- Hydraulic Power Units (HPUs)
- Filter skids
- Flushing carts
- Particle counters
- System diagnostic recorders.

## OTHER SERVICES AVAILABLE

- Hose integrity management
- Field labor support
- Hydraulics training
- Fabrication and machining of components
- NDT services (MPI, UT, LP, eddy current, E-Mag).

## HYDRAULIC CYLINDER REPAIR SHOP CAPACITY

We have a full cylinder repair and replacement capability in-house with cylinder teardown and honing tables installed at our Houston, Texas and Slidell, Louisiana facilities, allowing us to provide hydraulic services throughout the gulf coast. Our equipment capability includes:

- Repair and test to many industry specifications including NFPA, ISO, API, DNV and ABS
- Up to 20' stroke
- Breakdown up to 17" diameter collar OD
- Hone up to 20" diameter barrel OD
- Testing up to 5,000 psi.

## MACHINE SHOP CAPABILITIES

With manual machine shops in both Houston and Slidell, our highly skilled machinists can tackle any repair project, reduce customer downtime, and make any new or replacement parts. Our equipment capability includes:

- 50T hydraulic press
- Portable Align Bore Machine (up to 24" inside diameter with 8' bar)
- Large vertical rotary table (48" - 54" OD x 40" long)
- Small and large lathe (12" – 31" over bed swing, 8ft to 24ft bed lengths, 4½" thru bore).



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