DOWNHOLE VIDEO DIAGNOSTICS
FISHING AND MILLING
CHEMICALS AND DISPLACEMENTS
WELLBORE CLEANOUT TOOLS

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### DOWNHOLE VIDEO DIAGNOSTICS

Cutting Edge Video Technology for the Oil and Gas Industry

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>REAL TIME</th>
<th>MEMORY</th>
<th>E-LINE</th>
<th>SLICK LINE</th>
<th>HAND HELD / UMBILICAL</th>
<th>COILED TUBING</th>
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<tbody>
<tr>
<td>Downhole Video Memory (DVDm) with LiteSabre®</td>
<td></td>
<td>✓</td>
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<tr>
<td>Downhole Video Coiled Tubing (DVDct) with LiteSabre®</td>
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<td>Video Validation &amp; Extraction Tool (Vvax)</td>
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<td>Video Validation Tool (VVT)</td>
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<td>Downhole Video Shallow Water (DVDsw)</td>
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<td>Downhole Video E-Line (DVDe) with LiteSabre®</td>
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</tbody>
</table>

SEE THE DIFFERENCE
World Class Wellbore Cleanout Tools

Abrado’s full line of wellbore cleanout tools should be utilized to remove drilling mud or other debris that can increase nonproductive time (NPT), operating costs, and health, safety and environmental (HSE) risks.

BRUSHES • SCRAPERS
MAGNETS • CIRCULATING TOOLS
BOP CLEANOUT TOOLS
SPECIALTY TOOLS
VIDEO ONBOARD TOOLS

Downhole & Surface Magnets

MAGTRAPS™ DOWNHOLE MAGNETS
Abrado offers proprietary downhole magnetic retrieval tools. MAGTRAPS range in size from 1 11/16" OD to 9" OD, with temperature ratings to 600F. Applications range from coiled tubing to deep water workstrings. These are rare earth magnets with 100 year shelf life that are easy to clean and handle.

MUDVIPER™ SURFACE MAGNETS
Utilizing patented “shed skin” technology, our single & multi phased ditch magnets are designed to remove ferrous metal debris as part of the fluid surface treatment system. This patented design greatly reduces any HSE issues commonly experienced with conventional ditch magnets.
Abrado has the most comprehensive line of fishing and rental tools in the industry.

We offer our customers a combination of the right tools, experienced personnel, service quality second to none, and a committed HSE philosophy.

- Crossovers
- Open hole or cased hole fishing tools
- Milling tools
- Overs shots, Spears and Grapples
- Internal/External engagement tools
- Internal/External cutting tools
- Wash over
- Specialty tools for Thru Tubing operations
- Wellbore cleanup Magnets and Venturi
- Fishing jars and accelerators
- Reverse Packages
- Packer milling and retrieving
- Safety Clamps
- Brushes & Scrapers
- Safety Joints
- Mud Motors & Accessories
- Stabilizers
- Baskets (Junk, Washover Boot, Finger Type, Reverse Circulating)
- Spiders and Slips
- API Bowl Casing and Tubing
- Die Collar, Box Taps, and Die Nipples
- Drifts or Rabbits-Casing & Tubing
- Elevators
- Power Tongs
- Wash Pipe
- Drill Collars
- Handling Tools
- Drill Bits
- Cone Type Rock Bits
- Impression Blocks

Abrado provides a proprietary proven range of section milling tools with the ability to section mill 7” casing out to 30” casing.

**MEDUSA™ VS**
- Single, multiple or triple string casing section milling
- Pilot Milling
- Cutter design ensures no harm to outer casing string
- Self centralizing
- Window lengths of 200’+
- Deepwater ready
- Can be designed to fit specific well needs

**SCR1000™**

Unrivalled Experience in Downhole Fishing

Abrado has the most comprehensive line of fishing and rental tools in the industry. We offer our customers a combination of the right tools, experienced personnel, service quality second to none, and a committed HSE philosophy.
Abrado's VERICLEAN® Surface and Downhole chemical product line utilizes the latest surfactant chemistry coupled with the latest modeling software for unequaled displacement results, first time, every time.

### VERICLEAN® - UNEQUALED DISPLACEMENT RESULTS EVERY TIME

<table>
<thead>
<tr>
<th>VERICLEAN® PRODUCT</th>
<th>SURFACE</th>
<th>TUBULARS</th>
<th>LOST CIRCULATION</th>
<th>HIGH TEMP APPLICATIONS</th>
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<td>VC 101</td>
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<td>✔️</td>
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<tr>
<td>VC RIG WASH</td>
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Abrado's VERICLEAN® Surface and Downhole chemical product line utilizes the latest surfactant chemistry coupled with the latest modeling software for unequaled displacement results, first time, every time.

### TOTAL MANAGED DISPLACEMENT SERVICES (TMDS™)

Our TMDS™ solution offers:

- In house project management
- Location project management
- Engineered approach to meet specific wellbore characteristics
- Procedure writing and analysis, including: drilling, completions, workover and decommissioning
- Process improvement / peer review / lessons learned
- In house lab testing
**Section Milling**

- Single, multiple or triple string casing section milling
- Pilot Milling
- Cutter design ensures no harm to outer casing string
- Self centralizing
- Window lengths of 200’+
- Deepwater ready
- Can be designed to fit specific well needs

**Downhole Video & Wellbore Cleanout**

**VVAX TOOL**

- Reverse circulating vacuum tool for debris removal and capture with inbuilt memory “video onboard” to visually validate the job performed
- Downloadable 30 FPS color video on surface
- Limit non-productive rig time – save at least one round trip and make better informed decisions

**Downhole Video**

**COMBO TOOL LiteSabre®**

- Can convert from E-Line with side view to memory mode
- Run on slickline, coiled tubing and wellbore tractors with the simple switch to a battery.
- Programmed with recording length(s) and desired light intensity levels to produce color, full motion, 30 FPS HD video when returned to surface.

**Chemicals & Displacements**

**VERICLEAN® 200X**

- Proprietary displacement chemical system
- Environmentally friendly – may be discharged overboard after passing a static sheen test
- Displacement blends used for pre-job, transition, cleaning, polishing and carrier fluids
- No solvents or priority pollutants are present
- Effective with WBM, OBM or SBM
- Proven deepwater displacement effectiveness with less circulation time and less volume needed - equals cost savings.
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