

# Swab Master Swabbing Rigs



**\*\* PREMIUM QUALITY....VALUE PRICING \*\***



*Serving the Oil & Gas Industry...Since 1925*

**Swab Rigs Available**  
16,000, 7/32", Double Drum  
Single & Tandem Axle  
New & Used Chassis  
2, 4, 6 Wheel Drive  
Trailer Mounted  
Skid Mounted "New"  
Off Shore "New"

## **TIGER GENERAL, LLC**

6867 Wooster Pike Rd.  
Medina, Ohio 44256  
USA

330-725-4949—Office  
800-433-5608—Toll Free  
330-725-6730—Fax

Contact: Mark Overholt or John Loeper  
for Additional Information

E-Mail:  
Mark or Scott @TIGERGENERALCOM

- We Offer Custom Swab Rigs for ALL Applications.
- Built To Last, Field Tested, Field Proven.....Since 1925.
- New Advanced Technology using Tiger Vision Monitoring.
- Rock Solid Support After Sale Guaranteed!!!
- We won't be the cheapest, nor the most expensive...We will deliver your best **VALUE**....



Tiger General has been the leader in the oil & gas industry since 1925 producing the finest designed, engineered and manufactured products. Tiger General with its design has field tested and proved swabbing trucks that will meet your needs. We can provide these swab rigs on either a new or used chassis from the major producers of industrial truck manufactures.

Call Tiger General today with your requirements. We are eager to serve you as we have since 1925. Tiger General only uses quality proven components in all of its manufactured products. Learn why Tiger General is your choice for Swabbing Rigs

**Rock Solid Guarantees....**

**Strong After Sales Support....**



**Toll Free 1-800-433-5608**

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# Swab Master Swab Rigs

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## Beginning in 1925



## WHAT IS SWABBING IN THE OIL & GAS INDUSTRY?

Gas and oil wells produce fluid over the life of a well. When a well is first drilled it is usually "Fraced" to help open production zones. Fracing can include water. After "Frac" the fluid are recovered by swabbing to "Kick" The Well Off. As fluids are lifted off the bottom hole pressure pushes the gas and sometimes oil up and out of the well

Though out the life of a well fluids flow back with the natural gas or oil sometimes as a well ages. The bottom hole pressures are not enough to push all the water or fluids out of the well. Production then falls off. The well must then be swabbed or lift off the fluid build up again to maintain production.

Swabbing is a process to remove fluids "Off The Production Zone" from a gas or oil well. Swabbing is an art form. The operator must have the "feel" of the machine in sink with well pressures, sounds and depth.

The swabbing process is accomplish by machines that have a winch with cable a foldable mast with pulley in top and a drive system usually truck mounted to move the equipment from well to well. Swabbing machines come in various sizes. Size or machine capacity is determined by the depth of the well being swabbed.



**Since  
1925**

Swab rig operator drives to the well to be swabbed or serviced. Usually backs the machine close to the well. The operators raises the mast with pulley and aligns the mast with the centerline of a well. The operator then lowers cable and tools into and out of a well via the winch drum.

Swab tools usually include a weight bar "Jars" and swab cup tools. A "Swab Cup" is a rubber cup used to seal off against the inside of the well bore or well pipe or well tubing.

The swab tools are used to support the swab cups. The tools are lowered into the well, down to the fluid level. Swab tools allow fluids or oil to flow up though and past the swab cups as the winch drum with cable lowers tooling into the well.

The accepted practice in the industry is to lift about 6 barrels of fluid or oil up and out of a well. This lifting of about 6 barrels of fluid is called a "Run". Some wells require one run, others many multiple "Runs".

As fluid is removed, this relieves the down hole pressures. Production gas and oil push up and out of the well. The well is "Flowing" again and then production starts again.

The swabbing winch drum has been driven or powered by an engine with transmission and chain and sprocket to turn the winch drum. This design originated in the late 1890-1910. Almost all manufactures still use this antiquated designs.

Tiger General's Swab Master designs incorporate direct to winch drum hydraulic drives. Tiger General hydraulic drives are far more efficient than old mechanical drives.

There are several factors one is efficiency. Tiger General Swab Master hydrostatic winch deliver in excess of 95% of mechanical torque efficiency. A mechanical chain winch drive system might provide higher reduction ratios but they can loose 20-30% of torque through reduction drive train inefficiencies.

Swab Master requires very little maintenance. In fact about 1/2 the maintenance of an old fashioned rig.

You get at least 15 year design life before overhaul. Then its easy and reasonable to rebuild and go again. All other rigs run about 5-8 years or less and then need to be overhauled. Tiger General Swab Master pumps and motors are rated for at least 20,000 hours before overhaul when the are maintained properly.



Swabbing Operation



Swab Rig Winch & Drum System



Swabbing Cup

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# Swab Master Swab Rigs

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**Swab Master 16,000 Swab Rig**



Our Swab Master Swab Rigs are engineered and designed using the finest field tested and proven technology using carefully thought out use of the power plant and chassis design.



Tiger General has continues to innovate its products using cutting edge technology like highly efficient hydraulic motors which give better control and longer lasting components to allow you years of service.



Tiger General prides itself on its highly clean designed, engineered and efficient use of hydraulic plumbing and cooling systems. This allows for years of trouble free reliability.



All Swab Master Rigs can be equipped with enclosed operators cabs and can be outfitted with the latest innovation....**Tiger Vision**



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**Contact Mark Overholt or John Loeper today! Let's discuss your specific requirements and needs!**



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# Swab Master Offshore Swab Rigs

**\*\* PREMIUM QUALITY....VALUE PRICING \*\***



**Innovative...  
Modular...  
Transportable...  
Swab Rig for Off  
Shore and Remote  
operations**



SINCE 1925, TIGER GENERAL LLC HAS BEEN MANUFACTURING PREMIUM SWAB RIGS THAT ARE WORKING AROUND THE WORLD. YOU GET PREMIUM, WELL ENGINEERED SWAB MASTER RIGS THAT HAVE BEEN FIELD PROVEN TO WORK HARD AND LIVE LONG PRODUCTIVE LIVES.

OUR NEWEST MACHINES ARE SPECIFICALLY DESIGNED TO WORK ON OFF SHORE DRILLING RIGS AND PRODUCTION PLATFORMS. THE DESIGN INCORPORATES OUR FIELD PROVEN DIRECT DRIVE PISTON HYDRAULIC WINCHES. THE NEW OFF SHORE SWAB MASTER MACHINES ARE MODULAR DESIGNED TO EASILY UN-PACK TO FIT HELICOPTER CAPABILITIES. ALL SYSTEMS HAVE BACKUPS FOR -O- DOWN TIME.

YOUR SWAB MASTER MACHINES ARE BACKED UP WITH ROCK SOLID AFTER SALE SUPPORT AND WARRANTIES. ONLY TIGER GENERAL PRODUCES DIRECT DRIVE PISTON HYDRAULIC MACHINES WITH HYDRAULIC BRAKING. ONLY TIGER GENERAL EXCLUSIVELY PROVIDES "TIGER VISION" ELECTRONIC DEPTHOMETER, LOAD CELLS AND MUCH MORE TO HELP YOU GET MAXIMUM EFFICIENCY



**Since  
1925**

TODAY THERE ARE ABOUT 27,000 WELLS THAT PRODUCTION HAS FALLEN OFF FROM LOADED UP WELLS. THESE WELLS CAN BE SWABBED AND WILL COME ROARING BACK TO PRODUCTION VERY ECONOMICALLY. IF YOU HAVE LOADED UP OFF SHORE WELLS. CALL MARK OVERHOLT NOW !!!

CALL OR EMAIL MARK OVERHOLT FOR MORE DETAILS 330 725 4949 X 122 MEDINA OHIO USA

[MARK@TIGERGENERAL.COM](mailto:MARK@TIGERGENERAL.COM)

ALSO SEE

[WWW.TIGERGENERAL.COM](http://WWW.TIGERGENERAL.COM)

**OFF SHORE, TIGER GENERAL SWAB MASTER DOUBLE DRUM  
CAM TRAC SWABBING MACHINE**

**RATING 16,000 FT 6 BARRELS OF DEAD FLUID PER RUN**

#### **MAIN DRIVE SYSTEM:**

JOHN DEERE 275 HP @ 2400 RPM 6-CYLINDER DIESEL ENGINE MODEL ES30145.

2- SUNSTRAND 130 SERIES ON 20% SPEED UP PUMP MOUNT.

#### **DRAW WORKS/DRUM:**

FRAME: 4"X 4" SQUARE TUBING, "LADDER STYLE" REINFORCED, INNER FRAME. SHIELD & STAINLESS TRAY. DISK BRAKES. MOTORS TORQUE ARM MOUNTED. FRAME. SIZE; 100" WIDE, 52" DEEP, 70" HIGH  
2- \*FLEET ANGLE AUTO SPOOLING DEVICE. 20" SHEAVES WITH DRIP OILERS.

#### **DRUM:**

DIRECT DRIVE, HYDRAULIC. DRUM SIZE: 40" DIA X 50" WIDE. 10" OD X 8" I.D. BARREL, 1" THICK, 10 GUSSET, REIN-FORCED FLANGES, 3 15/16" MAIN SHAFT, IDLE END. SEAL MASTER FLANGE BEARING. PATENTED "FREE FALL" BYPASS VALVE. CAPACITY, 17,000 FT. OF 9/16" CABLE. NORMAL OPERATING DEPTH 16,000 FT. \*NOTE: CABLE SIZE AND LENGTH. EFFECT PERFORMANCE. OUR SYSTEM ALLOWS FOR CHANGES TO DELIVER THE POWER & SPEED YOU REQUIRE. JUST ASK.

#### **BRAKES:**

HYDROSTATIC BRAKES FOR DOWN HOLE CONTROL. HYDRAULIC DISK TYPE. CARLISLE BRAND.

2- M-4 SERIES 4 PISTON CALIPER WORKING ON 20" ROTOR. AIR ACTIVATED. FOR HOLDING & EMERGENCY.



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# Swab Master Offshore Swab Rigs

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## **SANDLINE DRUM DRIVE**

HAGGLUNDS, RADIAL PISTON MOTOR. CAM TRACK DESIGN. 230 CUBIC INCHES, PRODUCES 16,780 FT. LBS. AT 5,500 PSI. MAX TORQUE, 18,306 FT LBS TORQUES AT 6,000 PSI. RATED SPEED 195 RPM'S MAX RPM=275 RPM'S. PUMPS; TWIN SUNSTRAND "H" SERIES 10.08 CUBIC INCH, EACH, DISPLACEMENT. 20.16 CU.IN/REV = 190 GPM @ 2,200 RPM. \*SEE PERFORMANCE SHEETS HAGGLUNDS IS A SWEDISH COMPANY, DIVISION OF THE BOSCH REXROTH GROUP. ROCK SOLID AFTER SALE SUPPORT

## **MAIN HYDRAULIC PLUMBING SYSTEM**

MAIN DRIVE, HYDRAULIC STEEL TUBING WITH SAE "O" RING, SAE .37 DEG JIC FITTINGS WHEREVER POSSIBLE, CODE 62 FLANGE FITTINGS. PREMIUM HOSE IN OTHER AREAS. PIPE FITTINGS ON SUCTION SIDE. 50 GALLON STEEL RESERVOIR WITH CLEAN OUT DOOR. ANTI-SWIRL, SITE GAUGE WITH THERMOMETER, VENT. 190 SQ. IN. OIL COOLER WITH FAN. AUTO COOLER BYPASS VALVES. PATENTED FREE-FALL " BYPASS VALVE. 2 SUCTION FILTERS ON PUMPS, ONE 50 GPM RETURN LINE FILTER. 7/32" WIRE LINE DRUM

**DRUM:** SIZE: 35" DIA X 36 1/2" WIDE INSIDE. 12" X 1" WALL BARREL. 1" THICK STEEL END PLATES WITH 8 GUSSETS PER END, REINFORCED. OVERALL LENGTH DRUM 48" , 3-7/16" MAIN SHAFT WITH SEAL MASTER MP 55 PILLOW BLOCK BEARING.



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**DRUM CAPACITY:** 79,000 FT 7/32. 14,400 FT. OF 7/16". 11,000 FT. 1/2". 8,766 FT. 9/16" CABLE. NORMAL OPERATING DEPTH 17,000 FEET WITH 7/32 LINE IN 2". WITH STD HYDRAULICS. \*\* FLEET ANGLE SPOOLING DEVICE WITH 20" SHEAVE. ALUMINUM BRONZE SPOOLING BUSHING WITH OILIER. MANUAL ASSIST.

**BRAKES:** HYDRAULIC DISK TYPE. CARLISLE BRAND M-4 SERIES 4 PISTON CALIPER WORKING ON 20 X 3/4" ROTOR. LEVER ACTIVATED AT OPERATORS AREA. AUXILIARY HYDROSTATIC BRAKES. AUXILIARY FREE FALL HYDROSTATIC MODULATING BRAKE VALVE.

## **7/32 DRUM DRIVE**

HAGGLUNDS, RADIAL PISTON MOTOR. CAM TRACK DESIGN. 122 CUBIC INCHES, PRODUCES 8,948 FT. LBS. AT 5,500 PSI. MAX TORQUE, 9,760 FT LBS TORQUES AT 6,000 PSI. RATED SPEED 195 RPM'S MAX RPM=275 RPM'S. PUMPS, SUNSTRAND 90 SERIES 7.93 CUBIC INCH, DISPLACEMENT. 75 GPM @ 2,200 RPM. \*SEE PERFORMANCE SHEETS. HAGGLUNDS IS A SWEDISH COMPANY, DIVISION OF THE BOSCH REXROTH GROUP. ROCK SOLID AFTER SALE SUPPORT. \* 30% MORE USABLE POWER THAN CHAIN DRIVE DRUMS. PATENTED "FREE FALL" BYPASS VALVE. AND HYDROSTATIC BRAKE.

## **SWAB DRUM BACKUP SYSTEM**

PERKINS 100 HP @2400 RPM DIESEL ENGINE, HYDRAULIC PUMP TO POWER PLANITARY HYDRAULIC DRIVE POWER UNIT TO ENGAGE IF MAIN SYSTEM FAILS. ALSO POWERS AUX HYDRAULIC SYSTEM.

## **MAST**

TELESCOPIC 8" X 8" X 3/8" BASE SECTION. 7" X 7" X 3/8" MOVING SECTION. BREAK OVER STYLE TO SAVE SPACE. 50 FT TALL EXTENDED. CAN TELESCOPIC TO ANY OTHER POSITION. DUAL 20" CROWN SHEAVES. UP AND DOWN SETTINGS. CROWN SHEAVE COVER. CROWN FRAME DRAIN

## **AUXILIARY HYDRAULIC:**

FOR HYDRAULIC CYLINDERS, 7.4 GPM PIGGYBACK PUMP ON BACK OF MAIN PUMP. MULTI BANK 1/2" PORT SPOOL VALVE TO ACTIVATE HYDRAULIC CYLINDERS. LOCK VALVES ON STABILIZERS.

## **OPERATOR'S CONTROL CABIN**

50" LONG, 84" HIGH, 96" WIDE ALUMINUM AND FIBERGLASS. HYDRAULIC CYLINDERS TO RAISE AND LOWER AS NECESSARY FOR BETTER VIEWING. AIR CONDITIONED

## **CONTROLS**

ELECTRONIC 12 VOLT WIRE CONTROLS, AND MANUAL CONTROLS.

## **DIMENSIONS**

350" LONG (29.16 FT) 102" WIDE (8'6" FT) 135" HIGH (11.25 FT) \*ESTIMATED WEIGHT 30,000# MODULAR DESIGN. WILL BREAK DOWN INTO THREE LIFTS. PROVISIONS FOR CRANE LIFT CAGE AROUND RIG. "D" RING TIE



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# Swab Master Tiger Vision with Logging

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## Tiger Vision with Logging

The swabbing rig operator might make our run or many runs to "lean up", "unload" or "dry up" the fluids in the well. A "run" is one cycle in and out of the well.

All wells act or react differently. In the past the swabbing rig operator guessed, based upon his personal experience, where fluid is. Usually by sounds and seeing a little slack in the cable as to when fluid is "Hit" he might use a hand depth counter, but that is dangerous because another person needs to hold the hand wheel on the moving cable. Tiger Vision eliminates the danger of possible personal injury from an operator getting caught in the moving cable while using hand counter wheel.

Tiger Vision and Tiger Logging helps you get max loads every run. Tiger Vision takes the guessing out to avoid those runs that come up empty. Tiger Vision is a new tool to increase efficiency and safety, by delivering down hole information that will aid the operator, engineers and well owners.

Each Action is Logged and Time Stamped:

1. Start in to well
2. Where fluid is Hit (Load Indicator, Shows Unloading)
3. Shows Line Speed
4. Logs location depth where fluids located (Weight Loads)
5. Logs location depth of where start back out of well
6. Logs depth and loads
7. If insufficient loads at start back up, logs going back down deeper to get max payloads.
  1. Logs new start up point depth
  2. Logs when back up to top or starting point
  3. Logs times at all points



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Beginning when you get to well sight, start Swab Master Rig when you start the rig the clock starts to run to log time of operations at start or top of well, zero out depthometer and start falling into the well.

As the tools fall into the well, the system displays depth and loads as tools fall into the well. The weight or load indicator shows increases as more cable weight falls into the well.

When the tools "Hit" fluid, the weight indicator changes before any other indicators. The logging system notes this point. Now the operator knows exactly how deep he is into the well. The log notes, where fluid is hit and is noted at each run. This is very important information to the well owner or operator to evaluate down hole or well status information.

Now with this information, the operator decides how much further to go into the well, or how long a column of fluid to "Get" or lift up and out of the well. The depthometer tells the operator where the tools are in the well.

**EXAMPLE:** The operator might decide, (Based Upon Experience) to "Get" 1000 FT of fluid in 2" tubing, with Tiger Vision, there operator can go exactly 1000 FT into the fluid. Then start back out or up and out of the well with the column of fluid. Unloading the fluid out the discharge line at the top of the well. Tiger Vision logging notes the depth where fluid first hit, how far down to stop or up point, load pulled at start point, depth to top of the well.

At the up point, the operator will start out or up about 20 FT, then check the Tiger Vision weight indicator to see if he has optimum load. If not the operator can decide to go back down further to get max load of fluids per run.

This is very important because all wells are different. Some have gas pressure "Help" others do not. Some have a mixture of fluids and gas mixed in the length of the column. With Tiger Vision you know loads and take appropriate action to get or lift maximum loads at each run.

Without Tiger Vision the operator can only guess how much load or length of column of fluid. If a well is "Gassy" or has "Gas Help" the operator will not know if he could have lifted a longer heavier column or not until it unloads at the top and finds led fluid and more gas than expected. Then it is too late.

When its too late to get maximum loads on future runs the operator will guess again until all fluid is out of the well. Tiger Vision allows the operator to get max loads and therefore "Unload" or "Dry Up" the well with fewer runs and less operator time. Therefore less cost to the well owner.

As tools are lowered into the well, line speed data helps the operator maintain safe speed rate into the well. This helps prevent "Bird Caging" the cable.

If the well "Kicks Off" while the operator is coming out of the well the weight indicator will show the operator a potential blow out situation sooner than any other method. This allows the operator more time to "Shut the Well In" before the tools are blow out of the well.

You can count on Tiger General to provide the newest and most advanced technology to meet the needs of the oil and gas Industry.

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# Swab Master Skid Mount/Off Shore

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## Features & Benefits

Tiger General has developed a transportable crown for use with the skid mount rig. This allows the operator to position the crown over the well more precisely to maximize performance for the skid mounted cable drum.



Tiger has designed the remote control console for the complete operation of the skid mounted swab rig. The skid mount can be out fitted with the new Tiger Vision.



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1925

## Features & Benefits

Tiger General has designed for remote locations a new skid mounted swab rig to meet the needs of the industry and the remote well areas like Offshore...Only 21,000lbs and Ready to Work!

The skid unit is equipped with the Tiger Automatic spooling device with the drum capacity of 16,000ft of 9/16th cable in a compact package.

The skid package is powered and includes a 275hp John Deer Diesel Engine. We provide a Big Oversized Oil Cooler to ensure long reliable operations.

This compact packaged Skid Unit can be transported by truck, trailer, winch truck, boat and by air. The unit is self contained and only weights 21,000lbs with a overall size which makes itself easy to transport to any site.

Tiger General uses the finest in Direct Drive Piston Hydraulic drive motors for maximum power & speed with low maintenance.



**"Best Pricing, Best Value.....Always!**

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## Swab Master Swabbing Rigs

Family Owned  
Since 1925



### Why Tiger General Deliver's Your Best Value!

1. Family run business for over 85 years
2. Honesty & Integrity
3. Tiger General people are understanding & easy to work with
4. Prompt attention to problem solving
5. Competitive pricing, financing and leasing
6. Personal attention from the owner
7. Clean, durable, well-engineered, long life proven designs
8. Rock solid guarantees—Strong after sales support
9. Offering the finest products in the industry
10. Gain comfort & security by doing business with Tiger General, LLC

### About Tiger General, LLC

Since 1925 Tiger General, LLC and the Overholt family has been building swabbing rigs, oil and gas well service rigs, building truck bodies and equipment, truck maintenance and modifications, machine shop services, welding and fabricating, designing and building special truck equipment and engineered products.

**"Our mission today is to provide our fine customers with the very best, well engineered products and services"**

**Tiger General, LLC**  
6867 Wooster Pike  
Medina, Ohio 44256

Tiger General provides the number #1 hydraulic drive swabbing rigs, double drum hydraulic drive rigs, trailer or skid rigs as well as our newest off shore modular remote location service rigs.

Tiger also offer's a complete line of Vacuum Trucks, Winch Trucks and the finest in hauling trailers from Clement. If you are hauling scrap, sand and stone, big rock or need a frameless dump trailers we have what you need.

After the sale support is very important to us. You can count on Tiger's Rock Solid Guarantee Support with back up parts and service. We resolve any issues quickly and fairly.

**800-433-5608—Toll Free**  
**330-725-4949—Business Line**  
**330-725-6730—Fax Line**

Tiger General, LLC people are true professionals. They are sincere, honest well educated and very hard working. They know their business and enjoy doing great quality work. We have been selling and building top shelf products since 1925. Call the fine people at Tiger General, LLC to get the full range of services you deserve. We look forward to serving your needs & requirements.



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