

T500XD

WALKING PAD TELEMAST® RIG

ENERGY

SERIES



Breaking Ground, Building Trust.™

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Built to API Q1, 8C, 7K and 4F standards, this revolutionary land based rig focuses on oil & gas pad drilling applications with total depth in excess of 15,000 feet (4,572 m). Setting new standards with full 360° walking portability, an integral sub-base allows fast moves from hole to hole without the traditional limits of two axis pad mounted designs. The T500XD also offers full communication connectivity to third party data acquisition providers that utilize internet or dedicated satellite communication systems to remote operation centers.

With horizontal and directional drilling in mind, the T500XD has the best in class 35,000 ft.-lbs. (47,454 N-m) of top drive torque, a third party directional steering interface and 80,000 lbs. (36,287 kg) of hydraulic pulldown capacity that can precisely control down on bit and extend horizontal lateral capacity at shallow depths without relying on gross drill string weight alone.

The T500XD is remarkably compact, transporting major equipment in only ten truckloads, a fraction of its nearest competition. Fewer truckloads mean a smaller rig site footprint and faster rig-up, along with less wear and tear on local highways, communities and the environment.



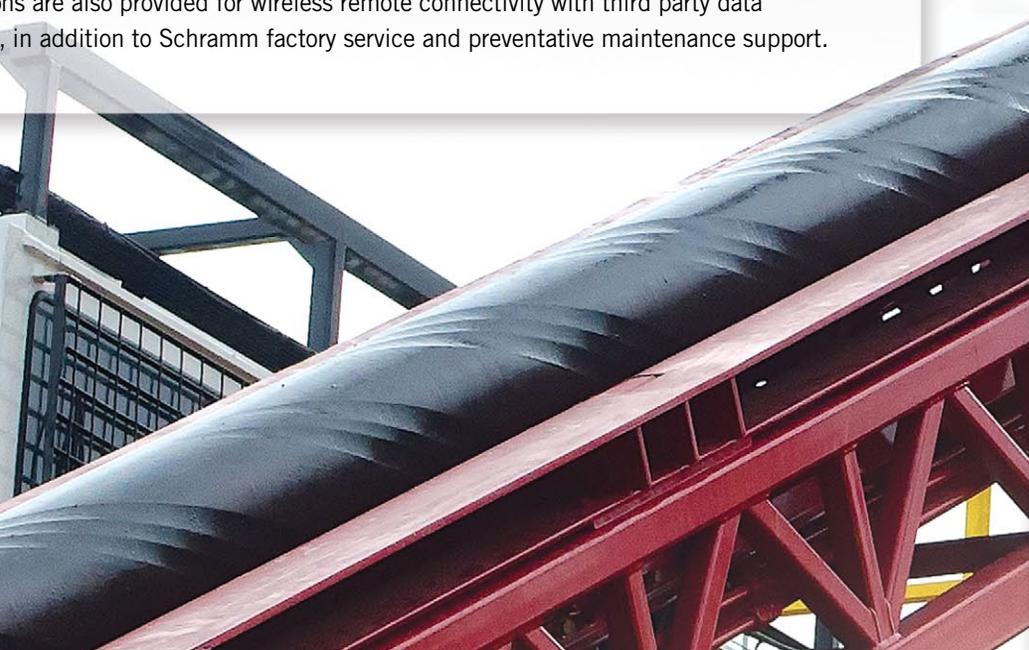


LOADSAFE® XD provides class leading automated pipe handling for drill pipe, drill collars and casing. For maximum safety, intuitive joystick controllers are used to lift tubulars from the horizontal position and precisely mate to top drive spindle. Hydraulically powered adjustable holding clamps provide effortless make-up or break-out of tool joints.

Hydraulic pipe racks are included to feed or discharge Range II or Range III tubulars on both sides of LoadSafe XD system. Swing arms for the racks conveniently transport as an integral part of the skid system.

SENSORS are controlled from a spacious climate controlled environment for the driller operators. The control room is positioned to provide excellent visibility of the rig floor with multiple camera systems monitoring BOP and LoadSafe areas.

Most drilling and tripping functions for the rig and LoadSafe. The main drilling displays include hook load, weight on bit, top drive position, rotation torque and more. Options are also provided for wireless remote connectivity with third party data systems, in addition to Schramm factory service and preventative maintenance support.



HYDRAULIC ROUGHNECK

is remotely controlled to make and break connections hands-free. Full adjustability easily accommodates variances in the landed height of the drill string.

POWER BOWL & SLIPS

utilize hydraulics to raise split slips up to 13-3/8 inch (33.97 cm) diameter, in

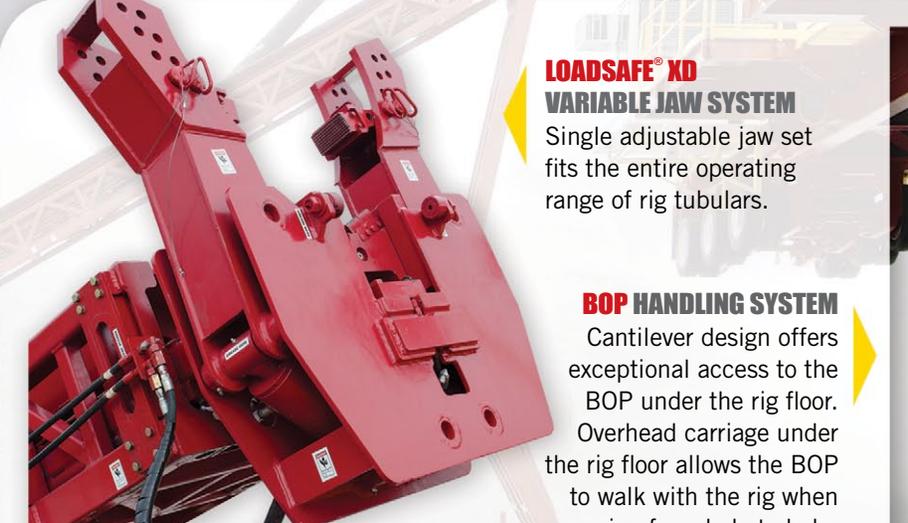


SIMPLY PUT, THIS RIG GETS IT DONE. FAST.

From intelligently streamlined transport and set up, to faster hole to hole moves, to enhanced power and advanced technology to drill more efficiently, everything about the T500XD was conceived from the ground up to work faster, work safer, and get the job done sooner. And like all Schramm rigs, the T500XD is built with the exceptional quality and meticulous attention to detail that drillers around the world have relied on for more than a century.

ional stability and a compact footprint. The sub structure
king system are operated by a radio control module.

lved 360° walking system allows the rig to accurately
k moves from hole to hole while operating on pad drill
sites. Unlike traditional rigs on rails that only
allow movement from left to right and front to
back, the T500XD has a walking system that lifts
the entire rig off the ground, allowing it to turn
and rotate 360°. The walking system consists of
(4) hydraulically operated pad systems that are
located within each corner of the sub-base.
Lift cylinders raise the rig 6 inches (15 cm) off
the ground. Slide cylinders move the machine
12 inches (30 cm) in any direction in 5°
increments



**LOADSAFE® XD
VARIABLE JAW SYSTEM**

Single adjustable jaw set
fits the entire operating
range of rig tubulars.

BOP HANDLING SYSTEM

Cantilever design offers
exceptional access to the
BOP under the rig floor.
Overhead carriage under
the rig floor allows the BOP
to walk with the rig when

T500XD

SPECIFICATIONS



POWER UNIT

- (2) MTU 12V-2000 engines, 760 bhp (567 kw) @ 1,800 rpm with electric start
- (2) Dual core, side by side cooling package, 130°F (54.4°C) ambient rating
- (2) 220 gallon (930 l) diesel fuel tanks
- (2) Hydraulic pump systems, with each including (8) piston pumps and (1) gear type pump
- (1) 1,000 gallon (3,785 l) hydraulic tank with (18) twin element filters

SUB-BASE AND WALKING SYSTEM

- Floor Height: 22 ft. (6.7 m)
 - Clearance: 19 ft. (5.8 m) under table bushing
 - Ground Pressure:
 - Dead Load: 26 psi (1.8 bar)
 - Live Load: 57 psi (3.9 bar)
 - Walking, mast down: 41 psi (2.8 bar)
- A dedicated diesel engine, hydraulic pump and 750 gallon (2,839 l) hydraulic tank are included with the system

TELEMAST® SYSTEM

- Top Head Travel: 56 ft. (17.07 m)
- Hook Load: 500,000 lbs. (227,227 kg) actual
- Hoist Speed (both Engines):
 - 0-130,000 lbs. @ 136 fpm (0 - 58,967 kg @ 41m/min)
 - 101,000 - 285,000 lbs. @ 106 fpm (45,813 - 129,274 kg @ 32 m/min)
 - 286,000 - 305,000 lbs. @ 100 fpm (129,727 - 138,346 kg @ 30 m/min)
 - 306,000 - 419,000 lbs. @ 76 fpm (138,799 - 190,055 kg @ 23 m/min)
 - 420,000 - 500,000 lbs. @ 64 fpm (190,509 - 226,796 kg @ 20 m/min)
- Pulldown Capacity: 80,000 lbs. (36,363 kg)
- Pulldown Speed: 0-180 fpm (0 - 55 m/min) loaded, 0-200 fpm (0 - 61 m/min) free head

TILTING TOP DRIVE

- Power: 950 bhp (708 kw)
- Rotation Speed: 0-140 RPM
- Rotation Torque: Up to 35,000 ft-lbs (47,454 N-m)
- Swivel: 3 inch (7.6 cm) cartridge style
- Fluid Pressure Rating: 5,000 psi (345 bar)

RIG FLOOR

- 37.5 inch (0.95 m) false table adapter and a 27.5 inch (0.7 m) Master Bushing
- 22 ft. (6.7 m) floor height
- 19 ft. (5.79 m) under table clearance

HYDRAULIC ROUGHNECK

- Clamping Range: 4.5 - 9.625 inches (11.43 - 24.45 cm) diameter
- Clamping Force: Adjustable up to 61,500 lbs @ 3,000 psi (273 kn @ 208 bar)
- Make/Break Torque: 60,000 ft-lbs @ 3,500 psi (81,349 N-m @ 241 bar)

Rig performance is directly related to conditions encountered in the field. Rig specifications presented here illustrate equipment performance under factory test conditions. Schramm, Inc. continuously improves its products and reserves the right to change specifications, design, prices and terms at any time without notification or obligation. These specifications do not extend any warranty, expressed or implied, nor do they or Schramm, Inc. make or imply any representation of the machine's merchantability or fitness for a particular purpose.

LOADSAFE® XD PIPE HANDLING

- Built-in holding clamps with variable capacity from 4 - 24 inches (10 - 61 cm) allow for make-up or break-out of tool joints from the top drive spindle
- Capacity: Range III
- Maximum Lift Capacity: 10,000 lbs. (4,536 kg)
- Average Trip Time: 1,500+ f/h (457+ m/h)

MAIN WINCH

- Bare Drum Pull: 9,600 lbf. (42.7 kN)
- Bare Drum Line Speed: 150 fpm (46 m/min)
- Hydraulic jib boom swing and extend

STANDARD ACCESSORIES

- Water injection system, 35 gpm (132.4 lpm) @ 1,000 psi (69 bar)
- DTH lubricator up to 5 gph (19 lph) @ 1,000 psi (69 bar)
- Air manifold for air drilling operations
- Air/mud fluid lines, 4 inch (10 cm) stand pipe and traveling hose for 5,000 psi (345 bar) operation
- Explosion proof 240V lighting for nighttime operation (customer supplied generators)
- BOP handling system, carriage and trolley rated 40,000 lbs. (18,144 kg)

OPTIONAL EQUIPMENT

- Dual fuel drive
- AC drive
- Secondary winches and jib boom
- Multiple water injection systems
- CE mark for European requirements

ESTIMATED TRANSPORT WEIGHTS AND DIMENSIONS

- Note: Principal truckloads are for general illustration only, varies with rig configuration.
- Power Unit @ 75,000 lbs. (34,019 kg) - 50 x 10 x 12 ft. (15.2 x 3 x 3.7 m)
- Sub-Base 1 @ 109,000 lbs. (49,442 kg) - 54 x 10 x 9.5 ft. (16.5 x 3 x 2.9 m)
- Sub-Base 2 @ 96,000 lbs. (43,545 kg) - 54 x 10 x 8.6 ft. (16.5 x 3 x 2.6 m)
- Sub-Base 3 @ 58,190 lbs. (26,395 kg) - 54 x 10 x 10 ft. (16.5 x 3 x 3 m)
- Telemast Trailer & Tag Dolly @ 162,000 lbs. (73,482 kg) - 74 x 10 x 13.5 ft. (22.5 x 3 x 4.1 m)
- LoadSafe XD @ 46,500 lbs. (21,092 kg) - 53 x 8.5 x 6 ft. (16.2 x 2.6 x 1.8 m)
- Control Room & Rig Floor @ 93,000 lbs. (42,184 kg) - 56.5 x 10 x 13.5 ft. (17.2 x 3 x 4.1 m)
- Auxiliary Equipment @ 58,000 lbs. (26,308 kg) - variable

API certifies Schramm's quality management system to be in compliance with API Q-1 standards. API also licenses Schramm to monogram products API-4F, API-8C and API-7K as applicable.

