





Breaking Ground, Building Trust.™



ENERGY   
WATER WELL 

# TXD

## TELEMAST PORTABILITY AND PRODUCTION WITH RANGE III TUBULAR AUTOMATION.

The TXD is the drilling contractor's rig of choice for energy sector directional drilling and large diameter deep hole water well drilling applications requiring 200,000 lb hoist capacity.

Thanks to its patented Telemast® design, the TXD offers Range III tubular capability in a fully portable, trailer mounted package that can be set up in a matter of hours upon arrival to the drilling site. In addition, its small footprint dramatically reduces environmental impact.

LoadSafe®, Schramm's fully automated pipe handling system is an integral part of the TXD package. When combined with hydraulic roughnecks and power slips to meet specific site requirements, LoadSafe offers the highest degree of operator safety available in the industry today.

Any climate, any terrain, Schramm rigs are built your way, delivering maximum performance and reliability in the most extreme environments on earth.

- Up to 200,000 lbf ( 890 kN) hoist capacity
- Up to 32,000 lbf (142 kN) pulldown
- Range III tubular capability
- Precise hydraulic weight on bit control
- Compact 53 ft (16.2 m) transport length
- LoadSafe® automated pipe handling system included
- Rotation brake for directional drilling available
- Integral sub-base available

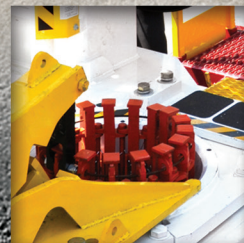


### LOADSAFE

Trailer mounted drill pipe, collar and casing handling system safely and precisely lifts tubulars from horizontal rack position into alignment with the tilting top head.



**TILTING TOP HEAD DRIVE**  
Aligns with LoadSafe® for hands free Range III tubular handling.



**POWER SLIPS**  
Eliminate manual slips to dramatically increase rig floor safety.



**HYDRAULIC ROUGHNECK**  
Accommodates tubulars with torque capacities up to 55,000 ft-lbs (74,570 N-m).





### DECK ENGINE

- Detroit Diesel DDC/MTU 12V-2000TA DDEC
- 760 bhp (567 kw) @ 1800 rpm
- 2 x 110 gallon (415 l) fuel tanks
- Air or electric start available

### COOLING

- Two core, side by side heat exchanger with variable speed cooling fan
- 130°F (54°C) ambient design temperature

### MAST

- Telescoping mast design permits long head travel and working height, yet short overall length in transport position
- Free-standing mast design
- Hydraulically operated adjustable mast feet and slip box

### TILTING TOP HEAD DRIVE

- Heavy duty, single reduction gearbox with 4 two-speed disc valve type hydraulic motors
- Infinitely variable rotation speed via HRC control
- Torque: 0-90 RPM @ 17,750 ft-lbs (24,066 N-m). 0-180 RPM @ 7,670 ft-lbs (10,399 N-m)
- Rotation Speed: 0 - 180 RPM
- Maximum operating pressure: 3,000 psi (208 bar)

### FEED SYSTEM

- 50 ft (15.24 m) head travel
- 200,000 lbf (890 kN) hoist capacity
- 100 fpm (30.5 m/min) hoist speed
- 32,000 lbf (142 kN) pulldown
- 200 fpm (61 m/min) pulldown speed

### DRILL TABLE

- Table Opening: 30 inches (762 mm) diameter with table retracted
- Hydraulically retractable slip box

### DRILL PIPE AND CASING

- Range III tubular capability
- 30 inch (762 mm) maximum diameter through the slip box

### LOADSAFE AUTOMATED PIPE HANDLING SYSTEM

- Lifts drill pipe and casing from horizontal position into alignment with tilting top head
- Racks and stores tubulars
- Positions blowout preventer
- 47 ft (14.3 m) maximum tubular length, Range III
- 30 inch (0.76 m) maximum diameter casing capability
- 5,000 lb (2,268 kg) tubular lift capacity

### WINCH

- Planetary design with spring applied hydraulic release brake
- 9,600 lbf (42.7 kN) bare drum line pull
- 150 fpm (46 m/min) bare drum line speed
- Hydraulic jib boom swing and extend
- Auxiliary winch available

### OUTRIGGERS

- Dual Front - 5 inch (127 mm) bore x 36 inch (0.91 m) stroke
- Dual Rear - 5 inch (127 mm) bore x 41 inch (1.04 m) stroke

### HYDRAULIC SYSTEM

- Open loop load sensing system
- 210 gallon (795 l) system capacity
- 7 micron filtration

### ELECTRICAL SYSTEM

- 24 volt DC electrical system

### RIG WEIGHT AND DIMENSIONS

Note: For general illustration only, varies with rig configuration

- OA length, transport: 53 ft (16.2 m)
- OA width: 9 ft 6 inches (2.9 m)
- OA height, transport: 13 ft 6 inches (4.12 m)
- Rig trailer weight: 95,000 lbs (43,091 kg)
- Pipe handling trailer weight: 40,000 lbs (18,144 kg)

### STANDARD ACCESSORIES

- Tool box, breakout wrench
- 50 hour maintenance kit

### OPTIONAL EQUIPMENT

- Rotation brake for directional drilling
- Hydraulic roughneck
- Power slips with Schramm Bowl
- Water injection and tool lubricator systems
- Hazardous area lighting package
- Integral sub-base
- CE mark for European requirements
- See your Schramm representative for additional available options

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.