



T685

REVERSE CIRCULATION RIG

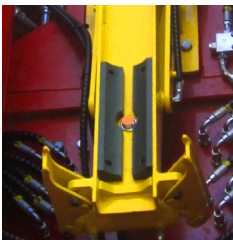
- GRADE CONTROL
- EXPLORATION
- WATER WELL

The Schramm T685 is a world proven, heavy duty, heavy pullback drill rig equipped with an on-board compressor. The T685 is ideal for down-the-hole hammer, air rotary, mud rotary and dual tube techniques.

Separate drill rig subframe design permits stable mounting on standard trucks, crawler undercarriage, or on special purpose vehicles. Dual-motor, high capacity, single reduction top head drive rotation and efficient pipe handling systems make this series a match for the toughest drilling projects.

Any climate, any terrain, built your way, delivering maximum performance and reliability in the most extreme environments.

- 74,000 lb (33,566 kg) pullback (90,000 lb optional)
- 45° - 90° sliding angle mast
- Swing out control panel
- Hands free power breakout and pipe handling
- 12" hands free table opening (standard)



ROD RETENTION
Integrated rod retention grippers for operator safety.



MAST LOCKING
Mast mechanically locks at five degree increments (45°-90°) for increased safety and stability.



POWER BREAKOUT
Hands free power breakout used to safely make and break connections.

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SPECIFICATIONS

DECK ENGINE

- MTU 12V-2000 (Tier I): 850 bhp (634 kW) or CAT C27 (Tier 2): 950 bhp (708 kW)
- Engine canopy fire suppression system
- 950 litre fuel tank (steel or aluminium)

COOLING

- Aluminium V-Pack, 55°C ambient design temperature

MOUNTING

- Truck or crawler options

COMPRESSOR

- Sullair 20/12 STR (2 stage):
1350 cfm @ 350 psi, 1150 cfm @ 500 psi

TOP HEAD

- Schramm dual motor rotary head
- OMVW 500 motors (other options available)
- Heavy duty nylon head slides

MAST & FEED SYSTEM

- Operating angle: 45° - 90°
- Mechanically locks in 5° increments
- Mast slide travel: 2,243 mm
- Head travel: 9,144 mm
- Feed cylinder: (2) 5 1/2" bore x 2 3/4" rod x 180" stroke
- Top head driven by two hydraulic cylinders through HD roller chain
- Pullback capacity: 74,000 lbs. (33,566 kg)
- Pulldown capacity: 35,270 lbs. (16,000 kg)
- Fixed or adjustable mast foot of 595-895mm

BREAKOUT & SPANNERS

- Metzke compact MB550 dual breakout (other options available)
- Top & bottom pneumatic spanners (other options available)

SLIPS TABLE

- 12" dual acting hydraulic slips table (other options available)
- Supplied with inserts

ROD HANDLING & STORAGE

- KL DA554 rod handler
- Dual rod kickers (other options available)
- Direct hydraulic control (optional remote control)
- Tilting rod bin: 5x9 (45 rods, 4.5") Max. 10t capacity (other options available)

WALKWAYS & SAFETY

- Hydraulically operated passenger side walkway
- Rotation guard
- Service bulkhead for remote greasing and fluid drain
- Fire suppression 105L loss in pressure system
- 9kg dry chemical extinguisher (2)
- Mast access platform

JIB BOOM/SURVEY WINCH

- Exploration Jib Boom, 500 kg WLL

- Survey winch

HYDRAULIC SYSTEM

- Seven (7) hydraulic pumps: six (6) variable volume and one (1) fixed displacement
- Hydraulic circuits filtered and protected by relief valves

AIR & MUD LINES

- 1.5" air/mud lines rated to 1000 psi
- Full length hose socks
- Engineered whip checks
- Auxiliary air & booster lines

WATER INJECTION SYSTEM

- FMC E0143C water pump (optional under-deck Dynaset)
- 3 way diverting valve for wash down, water injection & dust suppression

TOOL LUBRICATOR

- Positive displacement, air operated piston type pump
- Oil flow: 0-5 gal/hr (0-19 l/hr)
- 68.5 litre capacity

CONTROL PANEL

- Hinged control panel mounted LHS at rear of rig
- Fitted with overhead protection

LIGHTING & ELECTRICAL SYSTEM

- 24 volt DC electrical system
- LED lighting
- Three (3) emergency stops

RIG WEIGHT & DIMENSIONS

Note: Approximate only; varies with rig configuration.

- OA length - transport: 12,000 mm
- OA width: 2,800 mm
- OA height - transport: 4,590 mm
- Approximate weight - 43,000 kg (truck dependent)

STANDARD ACCESSORIES

- Tool box, 250 hr service kit

OPTIONAL EQUIPMENT

- Rod bin walkway
- Schramm Drillers Monitoring System
- Rod Retention
- Sequenced rotation guard
- 750 kg Jib Boom
- Tilting Head Assembly
- Energy Chain (E-Chain) hose management
- Other water pumps

Rig performance is directly related to conditions encountered in the field. Rig specifications presented here are theoretical values based on a 100% efficiency factor. Schramm, Inc. 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.

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