

Appendix VI

Photos and Specifications of GSLM
Drill Rig

SPEED STAR 185K

WELL. DONE.

*Manufacturer of the most complete
line of drilling rigs in the industry.*



SPECIFICATIONS

MOUNTING	Heavy-duty 5-axle carrier powered by 550 HP (410 kw) turbo-charged diesel engine.
TRANSMISSION	Fuller 18-speed transmission and drop box, four 445/65R22 highway tread front tires, twelve 11 x 22.5 on/off highway tread rear tires, power steering, air brakes, one man full vision off-set cab and dual 125 gallon (943 L) fuel tanks. Front Tandem: 48,000 lbs. (21,773 kg) Rear Tandem: 85,000 lbs. (38,556 kg) Total: 133,000 lbs. (60,329 kg)
MAST	51 ft. (15.5 m) vertical working space above breakout table. Maximum working capacity: 185,000 lbs. (83,916 kg).
TOPHEAD	140,000 in-lbs. (15,818 Nm) of drilling torque. Rotation speeds of 0 - 100 RPM. 3" (76 mm) diameter fluid course.
PULLDOWN	Maximum pulldown capacity of 30,000 lbs. (13,608 kg). Cylinder cable feed rate of 0 - 209 FPM (84 mpm).
HOIST CAPABILITIES & SPEEDS	Hoist capacity to 185,000 lbs. (83,916 kg). Hoist speed to 140 FPM (42.7 mpm).
HYDRAULIC LEVELING JACKS	Four 60" (1,524 mm) stroke leveling jacks, two at rear on centerline of borehole and two behind carrier cab, all independently controlled.
AUXILIARY WINCH	8,000 lbs. (3,628 kg) capacity, hydraulically driven with jib boom. 200 ft. (61 m) of 5/8" (15.8 mm) wireline. Line speed 70 FPM (21.3 mpm).
WALKWAYS	Full length both sides of rig. Fold for travel.

OPTIONAL EQUIPMENT

LIGHTING SYSTEM	Six 48" fluorescent lights and two 500-watt (0.5 kw) quartz flood lights mounted in mast, powered by a diesel generator.
WATER INJECTION	40 GPM (152 LPM) triplex pump with foam injector.
LUBRICATOR	17 gallon (64.1 L) reservoir, capacity electrically controlled.
PIPE LOADER	Hydraulically actuated for loading drill pipe and collars.
BREAKOUT TONGS	Cylinder actuated. 2-3/8" (60 mm) to 10-3/4" (273 mm) diameter capacity.
MUD PUMPS	Various sizes available up to 7-1/2" x 10" (191 mm x 254 mm) duplex maximum output of 637 GPM (2,411 L/m) @ 255 PSI (1,757 kPa). Maximum 574 PSI (3,954 kPa) with 5" (127.0) liners.
AIR COMPRESSOR	Various compressors available up to a rated capacity of 1,000 CFM @ 350 PSI (25.5 CMM @ 24 bars).
SANDREEL	Hydraulically driven 8,000 lbs. (3,628 kg) capacity with up to 2,000 ft. of 3/8" (610 m x 9.5 mm) line.
PIPE RACKING BOARD	Capacity of 5,000 ft. (1,525 m) drill pipe and corresponding drill collars.

GEFCO reserves the right to amend these specifications at any time without notice. GEFCO makes no warranties, expressed or implied, other than our standard written warranty.

04/05



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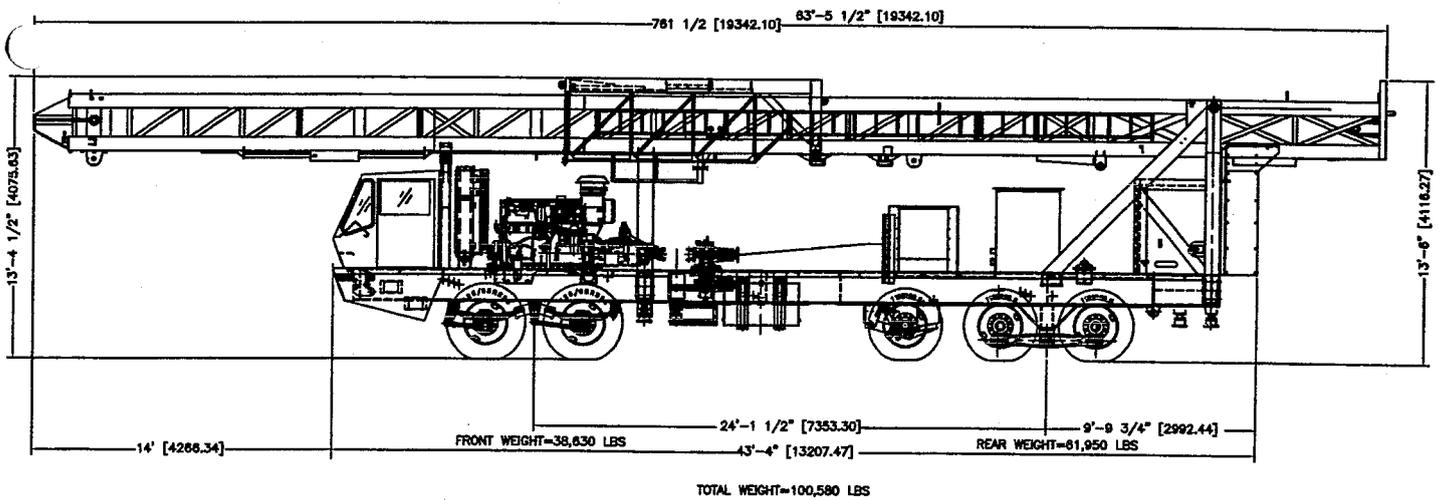
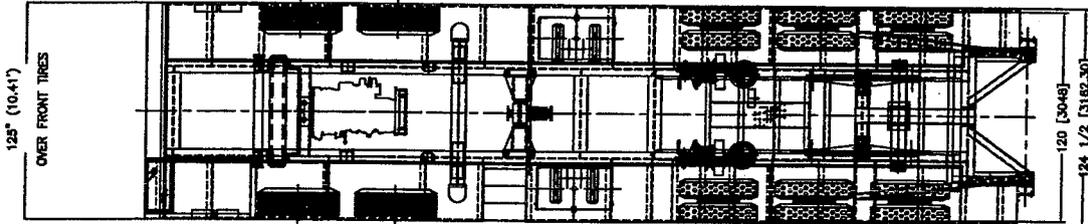
GEFCO

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185K SPECIFICATIONS

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185K SPECIFICATIONS

GENERAL DIMENSIONS:

Length (Mast Down)	63'-5 1/2"
Height (Mast Down)	13.6"
Width	
Length (Mast Up)	
Height (Mast Up)	
Working Height (Bushing to Tophead)	51'-0"
Table Opening	26.5" bushings removed

CARRIER:

KIMBLE

Power Unit	Caterpillar C15 Electronic
Transmission	18 Speed Fuller
H.P. Rating	550 @ 1800 R.P.M.
Bore and Stroke	5.4" x 6.3"(137mm x 165mm)
Displacement	893 cu. In. (14.6 liters)
Cooling System Cap.(Engine)	5.5 Gal (20.8 liters)
Crankcase Oil Cap.(Filter not included)	10 Gal (38 liters)
Electrical System (Starting)	12 Volt
Electrical System (Running)	12 Volt
Alternator	75 AMP minimum
Air Filter	2- Stage, Dry Type
Maximum RPM	1800
Minimum Idle RPM	600 to 700 (Engine Operation Only)
Recommended for Drilling Operation	1800
Transmission for Drilling Operation	
Steering Axles (2) Rating	24,000 lbs. (10,909 Kg.)
Rear Drivers (2)	65,000 lbs. (21,600 Kg.)
Non-Drive Pusher Rated	20,000 lbs. (9,090 Kg.)
Fuel Tank Cap.	(2) 125 Gal. Tanks (947 liter)
Front Tires	465/65R22.5
Steel Hub Bud Wheels	11.00 x 22.5
Rear Tires	11.00 x 22.5

NOTE: Power Unit equipped with electrical shutdown safety system, low oil pressure and high temperature (oil & water) shut down.





