

StrataStar™ SS-5





GEFCO SS-5

An Astec Industries Co.

E N V I R O N M E N T A L A N D G E O T E C H N I C A L D R I L L I N G R I G

SPECIFICATIONS

Power Source	Deck engine. EPA Tier 4 Final 74HP. Diesel engine with flanged pump drive connection to accommodate hydraulic pumps to power rig components & functions.
Frame	Structural steel constructed, electrically welded. Includes all rig components to support jacks, auger racks, mast support frame and rest, and related accessories. Rear operator's platform provided. Platform swings up and secures for transit.
Hydraulic Circuit	Complete with hydraulic reservoir, filters and oil cooler.
Mast	Raised and lowered by a single hydraulic cylinder. Consists of a primary mast constructed of 8 in. square tubing with a 5,000 ft./lb. torque rotary top head attached with 72 in. of feed travel. Single stage/dump. Mast slides hydraulically toward ground via secondary feed to allow angle drilling from vertical to 30°, off vertical in various degree increments.
Crown Block	Contains sheaves for winch and cathead rope. Mounted on top of primary mast. Crown block extension (optional) extends the mast 5 ft. above primary mast to facilitate tool handling and drive sampling.
Tophead	Hydrostatic drive through 4 speed transmission provides four drilling speeds in forward and reverse with infinite control between 0 and maximum RPM in each range. Thru spindle bore, quick disconnect adapter to accommodate a variety of drill rod connections. Pressurized lubrication of all gears and bearings. Eight speed tophead available as an option.
Slide Base	Hydraulic actuated, allowing mast unit to move 16 in. on-off hole.
Feed: Pulldown and Retract	Hydraulic cylinders/cable give 16,000 lbs. maximum hoist and 12,000 lbs. maximum pulldown. Controls located in operator's panel include necessary gauges and valves to give accurate responsive control to feed hoist, pulldown and holdback.
Control Panel	Located on left side of drill rig and includes all controls for hydraulic functions and necessary gauges to monitor drilling performance.
Emergency Shutdown	Panic stop control is provided to stop all rig functions.
Auger Centralizer	Positioned on primary mast foot to assist in guiding auger in drilling. Various optional bushings up to 6-5/8 ID auger are available.
Auger and Rod Storage Racks	Located on deck.
Hydraulic Leveling Jacks	4-36" stroke hydraulic leveling jacks provided with integral lock check valves, each independently controlled.
Auxiliary Winch	4,500 and 2,000 lb. capacity options. Mounted on primary mast with 50 ft. of 3/8 in. cable and safety hook.
Water/Grout Pump	Progressive Models 3L4 or 3L6 optional. Other options available upon request.
Cathead	Hydraulic driven, mounted on rig frame to assist in drive sampling. Mounted with separate emergency stop at the cathead to shut down cathead operation instantly. 2,500 lb. capacity.
Sample Driver	Hydraulic winch for drive sampling with 140 lb. safety hammer or in-hole hammer.
Auger Drive Adapter	1 5/8 in. hex universal joint. 2 in. hex U-joint and H.S.A. box adapter optional.
Tool Storage	Tool box provided for equipment storage; above or below deck, depending on mounting.
Mounting	Truck or rubber track drive.
Water Tank	Optional
8,000 ft./lb. Rotary Hydraulic	Optional 8,000 ft./lb. torque rotary top head in lieu of 5,000 ft./lb. top head.

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2215 SOUTH VAN BUREN · ENID, OK 73703 · PHONE 580.234.4141 · domsales@gefco.com · intsales@gefco.com · www.gefco.com

