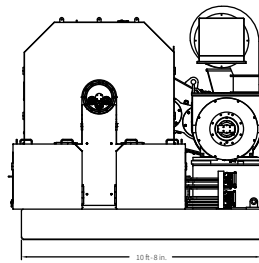
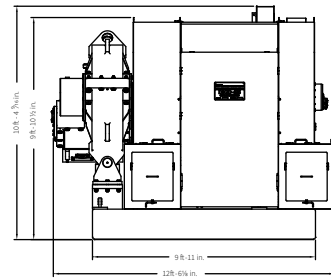
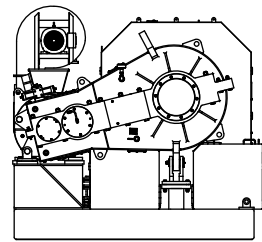
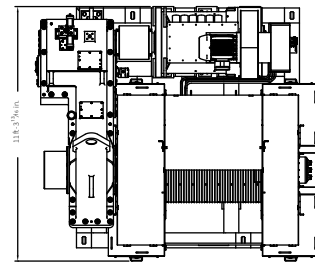
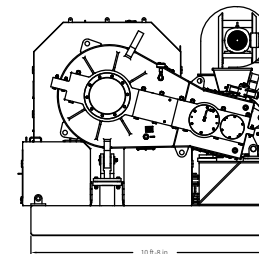
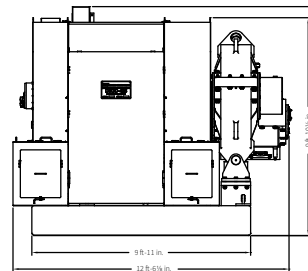
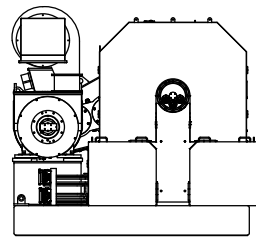
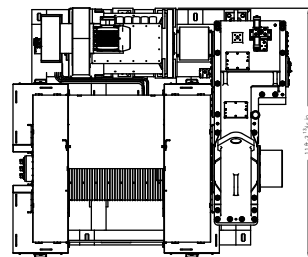


DSGD-CX425 drawworks

 DSGD-425 drawworks
Gearbox driller's side

 DSGD-425 drawworks
Gearbox off-driller's side


The DSGD-CX425 drawworks is designed specifically to increase hoisting speeds while reducing cost, footprint and weight. With a new two-speed, low inertia gearbox, the drawworks is compatible with 1500 hp, 1800 hp, and 2000 hp motors that can be interchanged based on your drilling requirements. The drawworks also provides a modular design which allows for flexibility of gearbox placement to suit the rig floor.

Features and benefits:

- High strength, low inertia, drum assembly
- Low inertia gearbox
- Left hand or right hand gearbox flexibility
- Gearbox design eliminates need for lube oil cooler
- High torque, high speed, motor for quicker tripping speeds
- New brake calipers designed for ease of maintenance
- Floating calipers designed for ease of alignment and greater misalignment tolerance
- Redundant brake calipers and discs for increased safety
- Mounting pads can be located by the customer with welding procedure supplied by NOV
- Control panels can also be located by the customer to provide flexibility in rig layout
- No air intensifier or receiver required while maintaining drawworks brake integrity
- Covers and guards designed for ease of maintenance

Summary

Drilling performance

	Short tons	Metric Tons
Maximum load @ 10 lines	425	385
Maximum load @ 12 lines	500	454
Max continuous power	2000 HP	1492 kW
Max. con. torque @ 800 RPM	13130 ft. lbs.	17802 Nm

Technical Specifications

Mechanical design

Service	Drilling	
Area classification	Non-hazardous	
Design temp	+32 - +104	0 - +40
Drum diameter	34 in.	863.6 mm
Drum length	52 in.	1320.8 mm
Drill line diameter	1 3/8 in.	
Max block travel 10 lines and 4 layers	141 ft	42.9 m
Max block travel 12 lines and 5 layers	153 ft	46.6 m
Gear ratio high gear	1:12	
Gear ratio low gear	1:7	
Main braking system	AC motor	
Park and emergency brake	Disc brakes	
Number of brake discs	2	
Number of brake calipers	3 air operated fail safe calipers	
Brake disc cooling	Air cooling	
Assembled weight without AC motor	50,400 lbs	22,868 kg
Gearbox		
Number of gears	2	
Lube oil system	Self-contained splash system	
Gear shift mechanism	Remote air operated	
Lube oil volume requirement	45 US gallons	

Drilling motor

Output horsepower continuous	2000HP	1492 kW
Max continues torque @800 RPM	13130 ft. lbs	17802 Nm
Voltage	575 - 690 V	
Rated current	1950 Amps	
Motor encoder	HTL 1024 PPM	
Temperature measurement	2 ea PT-100 in each winding (1 for spare)	
AC motor heater	Optional	

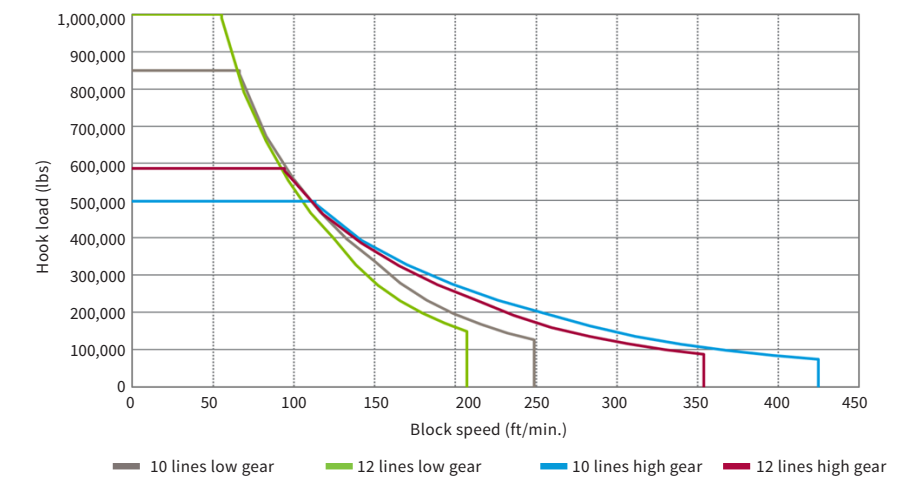
External utility requirements

Air requirement	135 SCFM Intermittent (10 second duration) 11.3 SCFM Average
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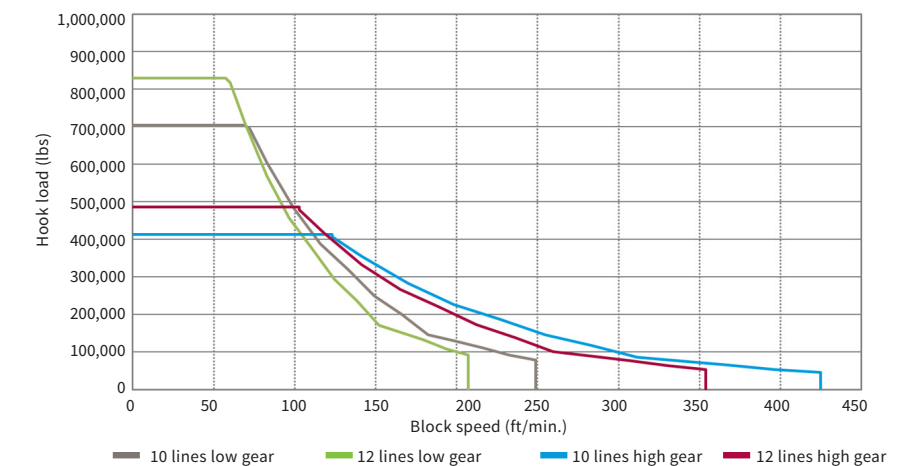
Drawing reference

General Arrangement Drawing	17774939-GAD Driller's Side Gear Box 17774940-GAD Off Driller's Side Gear Box
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DSGD-425 drawworks | 2000 hp motor



DSGD-425 drawworks | 1800 hp motor



DSGD-425 drawworks | 1500 hp motor

