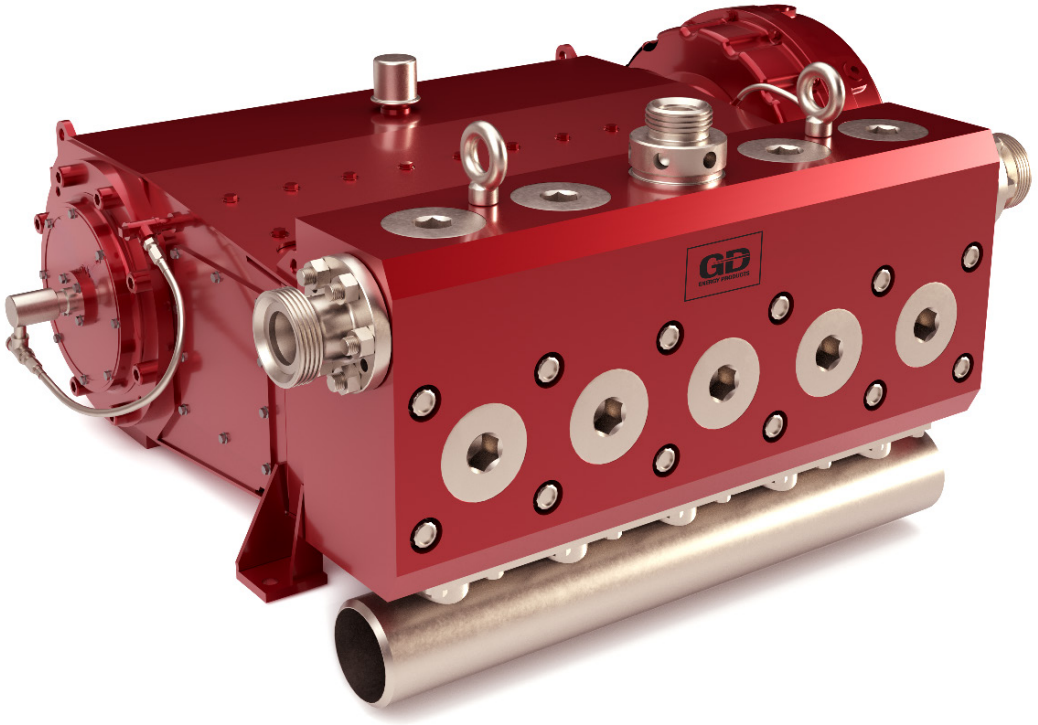
GD 1000Q HD

CONTINUOUS DUTY PUMP

The GD 1000Q HD is designed with an exceptional high rod load for 500HP continuous duty service. Robust design and the industry's best fluid end technology, make the GD 1000Q HD the preferred pump for oil & gas, mining, industrial and other demanding applications.



SPECIFICATIONS

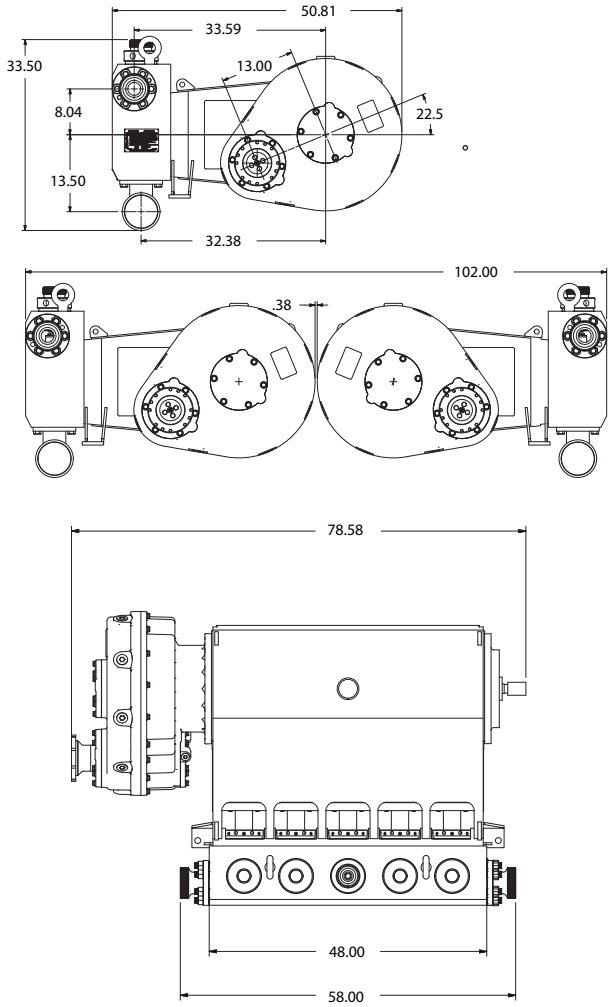
Maximum Input	500 BHP
Maximum RPM	270 RPM
No. of Plungers	5
Stroke Length	6 in (152 mm)
Plunger Load	53,000 lb (235,756 N)
Pump Weight	7,000 lb (3,175 kg)
Gear Ratio	4.6:1

PLUNGER DIAMETER		DISPLACEMENT PER REVOLUTION		DISPLACEMENT AND PRESSURE AT PUMP CRANK RPM - CONTINUOUS APPLICATION																									
				50				100				150				200				250				270					
in.	mm.	Gal/ Rev.	Liter/ Rev.	GPM	LPM	PSI	KG/Sq. CM	GPM	LPM	PSI	KG/Sq. CM	GPM	LPM	PSI	KG/Sq. CM	GPM	LPM	PSI	KG/Sq. CM	GPM	LPM	PSI	KG/Sq. CM	GPM	LPM	PSI	KG/Sq. CM		
Forged Carbon and Stainless Steel Autofrettaged Fluid Ends																													
2.75	70	0.77	2.92	39	146	8999	633	77	292	8999	633	116	438	6666	469	154	584	5000	351	193	730	4000	281	208	788	3703	260		
3	76	0.92	3.47	46	174	7562	532	92	347	7562	532	138	521	5601	394	184	695	4201	295	229	869	3361	236	248	938	3112	219		
3.5	89	1.25	4.73	62	236	5556	391	125	473	5556	391	187	709	4115	289	250	946	3086	217	312	1182	2469	174	337	1277	2286	161		
4	102	1.63	6.18	82	309	4254	299	163	618	4254	299	245	927	3151	221	326	1235	2363	166	408	1544	1890	133	441	1668	1750	123		
4.5	114	2.07	7.82	103	391	3361	236	207	782	3361	236	310	1173	2489	175	413	1564	1867	131	516	1954	1494	105	558	2111	1383	97		
INPUT POWER			BHP kW	225 168				450 336				500 373				500 373				500 373				500 373					
STROKE				in. 6	mm. 152	CYLINDERS:		5	ROD LOAD:		lbs. 53,000		kg. 24,041		GEAR BOX RATIO:		4.68:1		Note: Alternate Material Fluid Cylinders May Not Perform at These Pressure Levels										

*Contact GD Energy Products engineering for application review and approval

GD 1000Q HD
CONTINUOUS DUTY PUMP

SPECIFICATIONS



NOTE: Installation drawing shown with Next Generation fluid end geometry.
Additional drawings are available from engineering per application.

STANDARD FEATURES

- Next Generation fluid-end geometry allows back-to-back fitment and extends life; includes the patented Falcon Retainer System and interchangeable covers
- Upgraded internal components and seal housing prevent contamination
- Featuring GD Energy Products' industry leading Redline packing, valves, seats, and plungers for extended maintenance intervals
- Available in specially formulated Stainless Steel, or standard high grade Carbon Steel
- Thunder coated bearings extend power end life
- Fabricated power frame weldment with integrated crankcase and crosshead slides
- Parallel shaft gearbox with left or right side mounting positions
- Multiple gearbox input pinion positions
- Forged, heat treated alloy steel crankshaft
- Cross drilled crankshaft and connecting rod for pressurized oil flow to critical components
- Replaceable crosshead slides
- Forged SAE 4330 autofrettaged fluid end for extended field service
- Through stud fluid end design for maintenance and removal ease
- Replaceable stuffing boxes allowing convenient plunger size conversion
- Suction manifold with victaulic connections

OPTIONAL FEATURES

- DNV, ABS, PED or other third party certifications
- Splined flange for gear reducer
- Various plunger packing styles
- Additional center gauge connection
- Hydraulic torque wrench for fluid end removal
- Multiple suction manifold configurations including valve lifter options to drain chambers