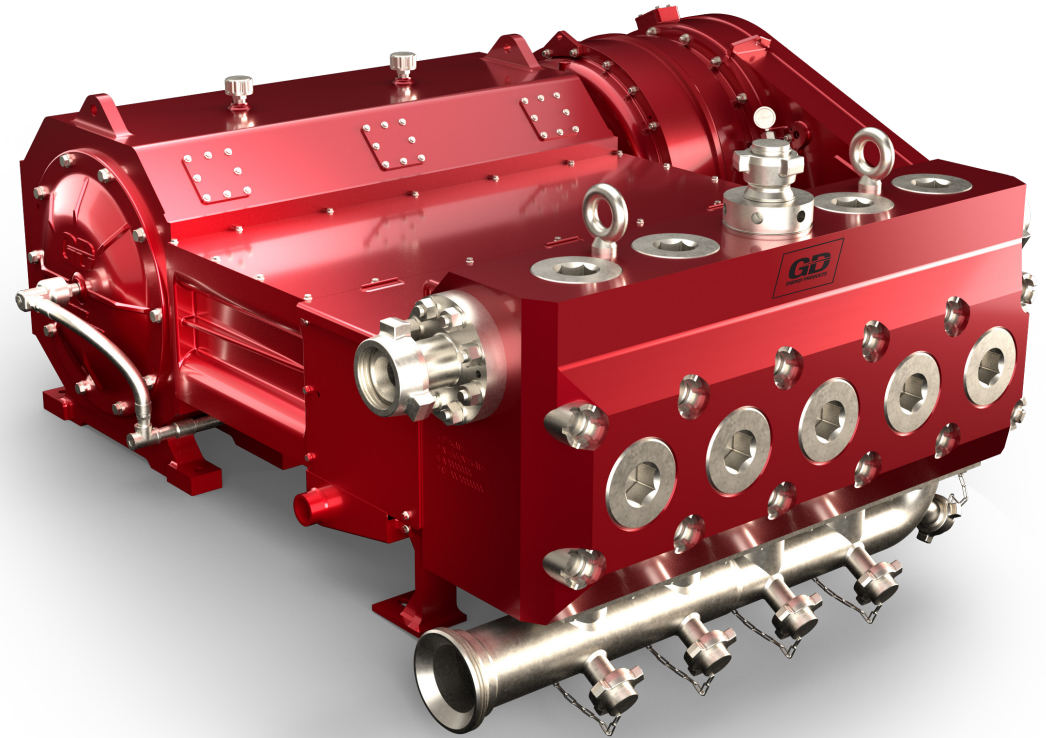


PUMPS



THUNDER 5000 HYDRAULIC FRACTURING PUMP

GD Energy Products' Thunder 5000 pump provides the industry with the breakthrough in pump longevity it's been requesting. Combining GDEP's Thunder E-Max and Thunder 3000 QNT into the ultimate 11-in stroke 5000 HP pump which can be run at 3000 HP for diesel and dual fuel applications or run at 5000 HP for electric and turbine direct applications. Next generation fluid end technology provides equivalent pressure and flow output at slower speeds which substantially increases pump life and reduces consumable expense.



SPECIFICATIONS

Maximum Input	5000 BHP (1,902 kW to 3,730 kW)
Maximum RPM	300 RPM
No. of Cylinders	5
Stroke Length	11 in. (279 mm)
Rod Load	250,000 lbs.
Pump Weight	Approx. ~ 26,000 lbs.
Gear Ratio	7.525:1 Optimized for diesel and dual fuel applications 11:232:1 Optimized for electric or turbine driven applications

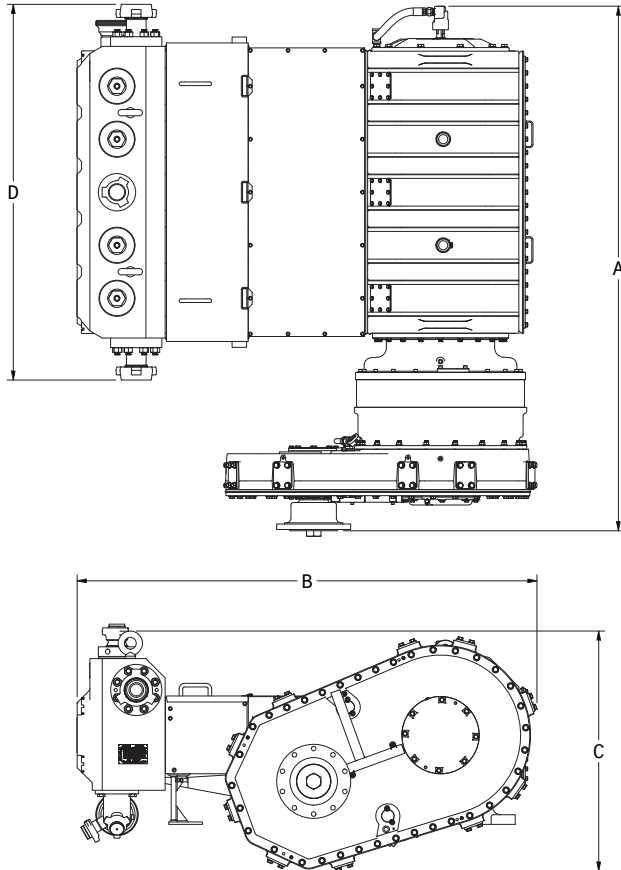
DISPLACEMENT @PUMP RPM - INTERMITTENT SERVICE

PLUNGER DIAMETER	DISPLACEMENT PER REVOLUTION		DISPLACEMENT @PUMP RPM - INTERMITTENT SERVICE																				
			7.525:1 Input Speed		11.232:1 Input Speed		7.525:1 Input Speed		11.232:1 Input Speed		7.525:1 Input Speed		11.232:1 Input Speed										
			376	562	753	1123	1505	2246	1881	2808	2258	3370											
		50				100				200				250				300					
in.	mm.	Gallons	m ³	GPM	m ² /hr	PSI	bar	GPM	m ² /hr	PSI	bar	GPM	m ² /hr	PSI	bar	GPM	m ² /hr	PSI	bar	GPM	m ² /hr	PSI	bar
4	102	2.992	0.0113	150	34	19894	1372	299	68	19894	1372	598	136	12889	889	748	170	10312	711	898	204	8593	592
4.5	114	3.787	0.0143	189	43	15719	1084	379	86	15719	1084	757	172	10184	702	947	215	8147	562	1136	258	6789	468
5	127	4.675	0.0177	234	53	12732	878	467	106	12732	878	935	212	8249	569	1169	265	6599	455	1402	319	5499	379
5.5	140	5.657	0.0214	283	64	10523	725	566	128	10523	725	1131	257	6818	470	1414	321	5454	376	1697	385	4545	313
5.75	146	6.183	0.0234	309	70	9628	664	618	140	9628	664	1237	281	6238	430	1546	351	4990	344	1855	421	4158	287
6	152	6.732	0.0255	337	76	8842	610	673	153	8842	610	1346	306	5729	395	1683	382	4583	316	2020	459	3819	263
6.5	165	7.901	0.0299	395	90	7534	519	790	179	7534	519	1580	359	4881	337	1975	449	3905	269	2370	538	3254	224

THUNDER 5000

HYDRAULIC FRACTURING PUMP

SPECIFICATIONS



GB Ratio	A	B	C	D
	in.	in.	in.	in.
7.525:1	108.82	95.37	49.78	77.94
11.232:1	112.41	94.42	43.18	72.50

STANDARD FEATURES

- Optimized crankshaft design for minimal vibrations
- Falcon twist in spring retainer technology for rapid valve changes with no alignment requirements or special tools
- Optimized fluid end design provides more than 2x life of competing pumps
- Stainless steel fluid end for superior corrosion resistance
- Standard GDEP fluid end internals
- Plunger, stuffing box and packing nuts are Thunder-specific
- 11" stroke length allows for slower speeds reducing consumable costs and increasing pump life
- Reduces downtime with modern design upgrades to improve serviceability in the field
- Next generation fluid end technology showcasing stainless steel construction and innovative geometry to minimize stress
- Utilizes GD Energy Products' innovative Redline Series Consumables to extend fluid end life in the harshest conditions
- 24/7 aftermarket service and support anytime and anywhere you need it

OPTIONAL FEATURES

- DNV, ABS, PED or other third party certifications
- Splined flange for gear reducer
- Dual discharge flanges
- Various plunger packing styles
- Additional center gauge connection
- Hydraulic torque wrench for fluid end removal
- Customizable suction manifolds