

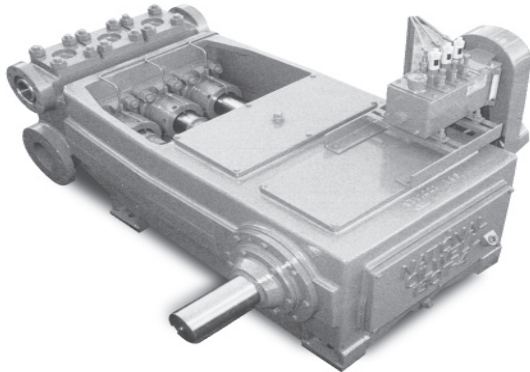
ROTATING RIGHT

# NATIONAL OILWELL 130T-4 TECHNICAL DATA SHEET

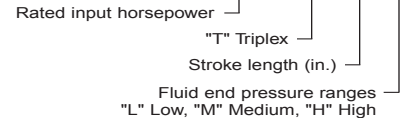


## Triplex Plunger Pump

# 130T-4



This 4" stroke pump is designed for a variety of fluid transfer applications operating at low, medium or high pressures.



### Field Connections in. (mm)

Pump Model	Discharge Connection Size	Suction Connection Size
130T-4L	2-1/2 (63.5) API-2000# RTJ	5 (127) ANSI-150 F.F.
130T-4M	1-1/2 (38.1) API-5000# RTJ	3 (76.2) ANSI-150 F.F.
103T-4H	1-1/2 (38.1) ANSI-2500 RTJ	3 (76.2) ANSI-300 F.F.

### Dimensions

Pump Type	Length	Width	Height
130T-4L	58-3/8"	48-7/8"	19-5/8"
130T-4M	56-3/8"	48-7/8"	19-5/8"
130T-4H	56-3/8"	48-7/8"	19-5/8"

## Pump Specifications

Pump Size (Max. Plunger Diameter x Stroke) in. (mm) .....3-5/8 x 4 (92.1 x 101.6)  
 Rated BHP At 450 RPM (Kw) .....130 (97)  
 Rated Plunger Load, pounds (Kg).....8,590 (3899)

### Maximum Working Pressure: PSI (kPa)

"L" Model Discharge Pressure ..... 1,750 (12,070)  
 "M" Model Discharge Pressure..... 3,111 (21,458)  
 "H" Model Discharge Pressure .....5,000 (34,470)

### Crankshaft Extension: in. (mm)

Diameter .....3-3/4 (95.25)  
 Length .....8 5/16 (211.38)  
 Keyway (Width x Depth) .....7/8 x 7/16 (22.2 X 11.1)

### Pinion Shaft Extension, if gear unit supplied (mm)

Belt Or Chain Drive: Diameter .....2-3/8 (60.33)  
 Length.....6-1/2 (165.10)  
 Keyway (Width x Depth) .....5/8 x 5/16 (15.88 x 7.94)  
 Direct Drive: Diameter .....2-3/8 (60.33)  
 Length.....6-1/2 (165.10)  
 Keyway (Width x Depth) .....5/8 x 5/16 (15.88 x 7.94)

### Oil Capacity: Gallons (L)

Crankcase .....5.5 (20.8)  
 Gear Unit (Varies with Ratio).....3 (11.4)

**Weight:** Pump Only On Wood Shipping Skids - Lbs. (Kg) .....2,360 (1070.5)  
 Gear Unit - Lbs. (Kg) .....500 (226.8)

## Standard Equipment

Aluminum Bronze Fluid End  
 Aluminum Bronze Valve Covers  
 Aluminum Bronze or Stainless Steel Stuffing Boxes  
 Bronze Stuffing Box Internals  
 Ceramic or Tungsten Carbide Plungers  
 General Service or Kevlar Plunger Packing  
 Stainless Steel Intermediate Rods  
 Fluid King Spherical Valves  
 Oil Level Dipstick  
 Crankcase Breather

## Optional Equipment

Alternate Fluid End Materials  
 Alternate Fluid End Valve Styles  
 Custom Designs For Specialized Applications

## Accessories

Bolt On Style Gear Reducers  
 2.60:1 Ratio      3.15:1 Ratio  
 3.42:1 Ratio      3.89:1 Ratio  
 4.27:1 Ratio

Packing Lubricator  
 Pulsation Dampeners  
 Relief Valves  
 Valve Service Kit  
 Complete Unitization Services

## Quick Maintenance Features

- Horizontal Design
- Large Power End Covers
- Easy Access For Bearing Adjustment
- Separate Crosshead/Plunger Construction
- Open Frame Construction
- Removable Stuffing Boxes
- Interchangeable Valves

## Continuous Duty Performance Data (Volumes Indicated Are Displacement of Incompressible Fluid)

### English Units

Plunger Dia. In.	Plunger Area Sq. In.	BPD Per RPM	GPM Per RPM	Max. Press. PSI	200 RPM*		250 RPM		300 RPM		350 RPM		400 RPM		450 RPM	
					BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM
<b>130T-4L</b>																
2 1/2	4.9088	8.7465	0.2550	1750	1749	51.00	2187	63.75	2624	76.50	3061	89.25	3499	102.00	3936	114.75
2 3/4	5.9396	10.5833	0.3086	1446	2117	61.71	2646	77.14	3175	92.57	3704	107.99	4233	123.42	4762	138.85
3	7.0686	12.5950	0.3672	1215	2519	73.44	3149	91.80	3778	110.16	4408	128.52	5038	146.88	5668	165.24
3 1/4	8.2958	14.7816	0.4310	1036	2956	86.19	3695	107.74	4434	129.29	5174	150.83	5913	172.38	6652	193.93
3 1/2	9.6212	17.1431	0.4998	893	3429	99.96	4286	124.95	5143	149.94	6000	174.93	6857	199.92	7714	224.91
<b>130T-4M</b>																
2	3.1416	5.5978	0.1632	2735	1120	32.64	1399	40.80	1679	48.96	1959	57.12	2239	65.28	2519	73.44
2 1/4	3.9761	7.0847	0.2066	2161	1417	41.31	1771	51.64	2125	61.97	2480	72.29	2834	82.62	3188	92.95
<b>130T-4H</b>																
1 1/2	1.7672	3.1487	0.0918	4862	630	18.36	787	22.95	945	27.54	1102	32.13	1259	36.72	1417	41.31
1 3/4	2.4053	4.2858	0.1250	3572	857	24.99	1071	31.24	1286	37.49	1500	43.73	1714	49.98	1929	56.23
Brake Horsepower Required:					58		72		87		101		116		130	

### Metric Units

Plunger Dia. mm	Plunger Area Sq. cm.	M <sup>3</sup> /D Per RPM	Liters Per RPM	Max. Press. kPa	200 RPM*		250 RPM		300 RPM		350 RPM		400 RPM		450 RPM	
					M <sup>3</sup> /D	L/Min.	M <sup>3</sup> /D	L/Min.	M <sup>3</sup> /D	L/Min.	M <sup>3</sup> /D	L/Min.	M <sup>3</sup> /D	GPM	M <sup>3</sup> /D	L/Min.
<b>130T-4L</b>																
64	31.6694	1.3906	0.9652	12,066	278	193.04	348	241.29	417	289.55	487	337.81	556	386.07	626	434.33
70	38.3200	1.6826	1.1679	9,970	337	233.57	421	291.97	505	350.36	589	408.75	673	467.14	757	525.54
76	45.6040	2.0025	1.3899	8,377	400	277.97	501	347.46	601	416.96	701	486.45	801	555.94	901	625.43
83	53.5213	2.3501	1.6311	7,143	470	326.23	588	407.79	705	489.34	823	570.90	940	652.46	1058	734.02
89	62.0721	2.7256	1.8917	6,157	545	378.35	681	472.94	818	567.52	954	662.11	1090	756.70	1227	851.28
<b>130T-4M</b>																
51	20.2684	0.8900	0.6177	18,858	178	123.54	222	154.43	267	185.31	311	216.20	356	247.08	400	277.97
57	25.6522	1.1264	0.7818	14,900	225	156.36	282	195.45	338	234.54	394	273.63	451	312.72	507	351.81
<b>130T-4H</b>																
38	11.4010	0.5006	0.3475	33,523	100	69.49	125	86.87	150	104.24	175	121.61	200	138.99	225	156.36
44	15.5180	0.6814	0.4729	24,629	136	94.59	170	118.23	204	141.88	238	165.53	273	189.17	307	212.82
Kilowatts Required:					43		54		65		75		87		97	

\* For operations below 200 RPM, an auxiliary lubrication system is required.

Volume is based on 100% volumetric efficiency. Brake horsepower is based on 90% mechanical efficiency



**Head Office:**  
6120 Davies Road  
Edmonton, AB  
T6E 4M9

Phone: (780) 485-2010 • Toll Free: (866) 707-7867  
Fax: (780) 485-1938  
• Calgary • Drayton Valley • Lethbridge  
[www.rotatingright.com](http://www.rotatingright.com)