

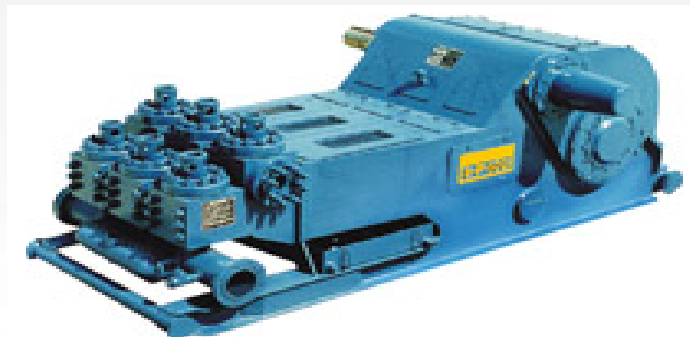


## FD-500 Triplex Mud Pump

National Oilwell Varco's FD-500 Mud Pump is rated at 500 input horsepower (373 kW) at 165 strokes per minute, with a 7 1/2-inch (191 mm) stroke.

Multiple liner sizes allow pressures and volumes to handle circulation requirements in deep drilling applications.

<b>Specifications</b>	
<b>General Specifications</b>	
<b>Nominal Horse power Rating, HP (kw) @ 165 SPM</b>	<b>500 (373)</b>
<b>Size Maximum Liner by Stroke, in (mm)</b>	<b>6 3/4" x 7 1/2" (171 x 191)</b>
<b>Gear Type</b>	<b>Herringbone</b>
<b>Gear Ratio</b>	<b>4.38:1</b>
<b>Suction Manifold Fem. Thd.</b>	<b>8</b>
<b>Discharge Outlet, in (mm)</b>	<b>4" (102) Fem. Pipe Thd.</b>
<b>Rated Pump Speed, spm</b>	<b>165</b>
<b>Dimensions and Weight</b>	
<b>Overall Length, ft (mm)</b>	<b>12' 0" (3,658)</b>
<b>Overall Width Including Shaft Ext., ft (mm)</b>	<b>6' 2" (1,880)</b>
<b>Overall Height (Less P.D), ft (mm)</b>	<b>5' 0 3/4" (1,543)</b>
<b>Skid Width, ft (mm)</b>	<b>4' 9" (1,448)</b>
<b>Pinion Shaft Dia., in (mm)</b>	<b>5 1/2" (140)</b>
<b>Extension Length, in (mm)</b>	<b>10" (254)</b>
<b>Keyway, in (mm)</b>	<b>1 1/4" x 5/8" (32 x 16)</b>
<b>Approx. Weight, lbs (kg)</b>	<b>18,657 (8,463)</b>



### HEAD OFFICE:

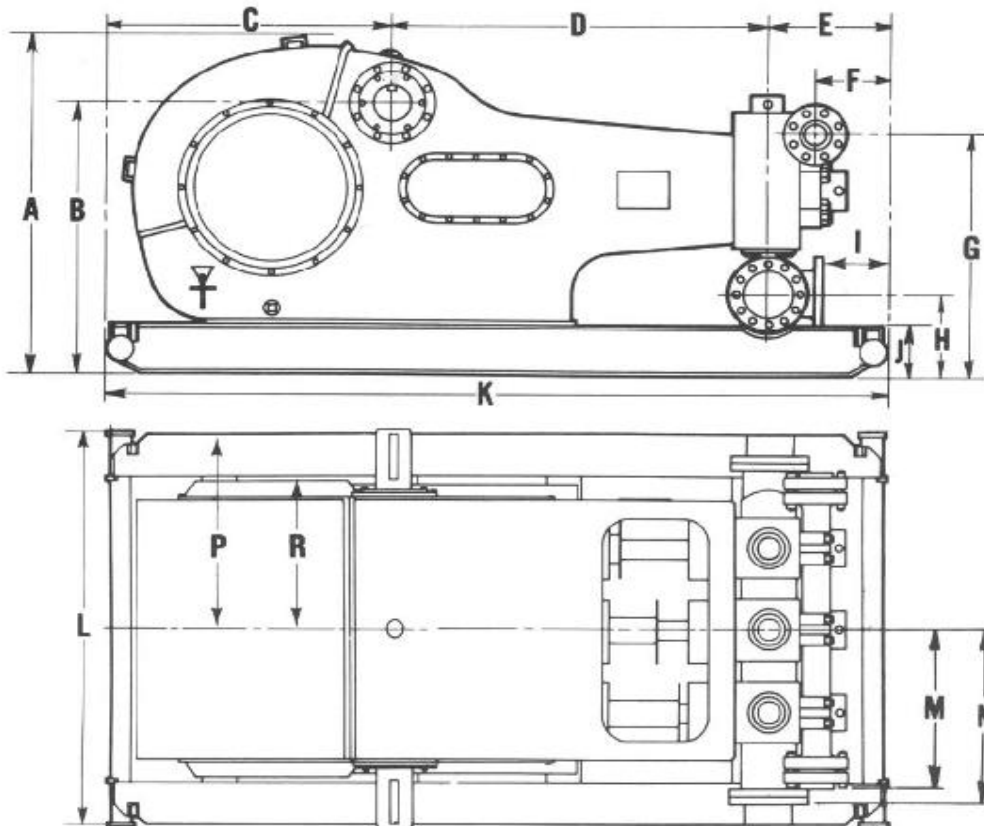
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Performance Data									
Liner size, inches (mm)	6-3/4" (171)	6-1/2" (165)	6-1/4" (159)	6" (152)	5-1/2" (140)	5" (127)	4-1/2" (114)	4" (102)	
Max. Discharge Pressure, psi (kg/cm <sup>2</sup> )	1341 (94)	1447 (102)	1565 (110)	1699 (119)	2024 (142)	2440 (172)	3025 (213)	3818 (268)	
Pump Speed, spm	Input HP, HP (kW)	GPM** (LPM**)	GPM** (LPM**)	GPM** (LPM**)	GPM** (LPM**)	GPM** (LPM**)	GPM** (LPM**)	GPM** (LPM**)	GPM** (LPM**)
165*	500* (373*)	575 (2176)	533 (2017)	493 (1866)	454 (1718)	381 (1442)	316 (1196)	255 (965)	202 (765)
160	484 (361)	558 (2111)	517 (1957)	478 (1809)	440 (1665)	370 (1401)	306 (1158)	248 (939)	196 (742)
150	454 (339)	522 (1976)	485 (1836)	448 (1696)	413 (1563)	347 (1313)	287 (1086)	232 (878)	184 (696)
140	424 (316)	488 (1847)	452 (1711)	419 (1586)	385 (1457)	323 (1223)	268 (1014)	216 (818)	171 (647)
130	393 (293)	452 (1711)	420 (1590)	389 (1472)	358 (1355)	301 (1139)	249 (942)	201 (761)	159 (602)
120	363 (271)	418 (1582)	388 (1469)	359 (1359)	330 (1249)	277 (1048)	230 (871)	186 (704)	147 (556)
110	333 (248)	383 (1450)	355 (1344)	329 (1245)	303 (1147)	254 (961)	210 (795)	170 (643)	135 (511)
Volume/Stroke, gal. (Liters)		3.48 (13.2)	3.23 (12.2)	2.99 (11.3)	2.75 (10.4)	2.31 (8.7)	1.91 (7.2)	1.55 (5.9)	1.22 (4.6)

\*Rated maximum input horsepower and speed

\*\*Based on 90% Mechanical and 100% Volumetric Efficiency



**Dimension, ft in (mm)**

A	5' 0 3/4" (1,543)
B	3' 11" (1,194)
C	4' 3 3/8" (1,305)
D	5' 5 3/4" (1,670)
E	3' 0 3/4" (933)
F	2' 2 7/8" (683)
G	3' 8 1/2" (1,130)
H	1' 3 5/16" (389)
J	10" (254)
K	12' 0" (3,658)
L	4' 9" (1,448)
M	4' 7 1/4" (1,403)
N	--
O	6' 2" (1,907)
P	--

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