

## WorkForce Series Mud Pump Technical Information

April 9, 2014

Model No.	WF400	WFU450	WWS500	WF700	WF1300B	WF1300C	WF1300BH	WF1600A	WF1600B	WF1600BH	WF1600L	WF1600LH	WF1600CH	WF1600S	WF2000	WF2200	WF2200B	
Power (HP)	400	450	500	700	1300	1300	1300	1600	1600	1600	1600	1600	1600	1600	2000	2200	2200	
Power (KW)	298	336	373	522	970	970	970	1194	1194	1194	1194	1194	1194	1194	1492	1641	1641	
Rump speed, Max. (SPM)	155	155	155	150	130	130	100	120	120	120	120	120	120	120	115	110	110	
Stroke (inch/mm)	8.5/215.9	8.5/215.9	8.5/215.9	8.5/215.9	11/279.4	11/279.4	11/279.4	12/304.8	12/304.8	12/304.8	11/279.4	11/279.4	11/279.4	11/279.4	13/330.2	14/355.6	14/355.6	
Gear ratio	5.7: 1	5.7: 1	5.7: 1	5.05: 1	4.67: 1	4.67: 1	4.613: 1	4.324: 1	4.324: 1	4.324: 1	4.613: 1	4.613: 1	4.613: 1	4.613: 1	4.57: 1	4.273: 1	4.273: 1	
Fluid module style	PAH	PAH Modified	Monoblock	PZ 8/9	PZ 10/11	F1000	PZ11-7500psi	F81600	SW12P-160,5000 psi	12P-160,7500 psi	PZ10/11 F/E-5000 psi	PZ 10/11 HP,7500 psi	FC1600,7500 psi	12-P160,5000 psi	12P-160 HP,7500 psi	14P-220,7500 psi	FC2200,7500 psi	
Max. liner diameter (inch)	5"	6"	5"	7"	7"	6.75"	7"	7"	7.25"	7.25"	7"	7"	7.5"	7.25"	7.25"	9" (**)	8"	
Max. pressure (PSI) with Max. liner	1837	1435	2296	1695	2806	3018	3648	3429	3197	3197	3741	3741	3259	3488	3849	2667 (**)	3376	
Max. flow rate (GPM) with Max. liner	336	484	665	637	715	665	550	720	772	772	660	660	757	708	802	1272 (**)	1005	
Minimum liner diameter (inch)	3"	3"	3"	4"	4"	4.5"	4.5"	5"	5.5"	4.5"	5"	4.5"	4.5"	5.5"	5"	5"	5"	
Max. pressure (PSI) with Min. liner	3118	3118	5000	5000	5000	5000	7500	5000	5000	5000	5000	7500	7500	5000	5000	7500	7500	
Max. flow rate (GPM) with Min. liner	121	121	121	208	233	295	227	367	444	297	337	273	273	407	381	393	393	
Valve pot size	API-4#	API-4#	API-4#	API-7#	API-7#	API-6#	API-6#	API-7#	API-6#	API-7#	API-6#	API-7#	API-6#	MOD.7	MOD.7	MOD.8	API-8#	
Suction flange	6"-150#	6"-150#	6"-150#	8"-150#	10"-150#	10"-150#	10"-150#	12"-150#	12"-150#	12"-150#	10"-150#	10"-150#	12"-150#	12"-150#	12"-150#	12"-150#	12"-150#	
Height, floor to suction flange (mm)	256	256	243	383	500	386	599	390	455	599	599	599	599	475	475	576	576	
Discharge flange	3"-5000 psi	3"-5000 psi	3"-5000 psi	4"-5000 psi	5"-5000 psi	5"-5000 psi	5"-10,000 psi	5"-5000 psi	5"-5000 psi	5"-10,000 psi	5"-50000 psi	5"-10,000 psi	5"-10,000 psi	5"-5000 psi	5"-10,000 psi	6"-10,000 psi	6"-10,000 psi	
Height, floor to discharge flange (mm)	887	887	785	1137	1294	1233	1397	1329	1165	1451	1397	1397	1397	1570	1317	1317	1317	
Pinion shaft length (mm)	---	---	---	1690	2235.2	2235.2	2896	2410	2378	2895.6	2895.6	2895.6	2895.6	2895.6	3050	3050	3050	
Pinion shaft diameter (mm)	98.43	98.43	98.43	127	190.5	190.5	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	237.8	237.8	266.7	
Pinion shaft keyway width (mm)	25.4 (1")	25.4 (1")	25.4 (1")	31.75 (1-1/4")	44.45 (1-3/4")	44.45 (1-3/4")	50.8 (2")	50 (1.9685")	50 (1.9685")	50.8 (2")	50.8 (2")	50.8 (2")	50.8 (2")	50.8 (2")	50.8 (2")	50.8 (2")	50.8 (2")	
Height, floor to pinion shaft (mm)	610	610	607	1119	1388	1388	1483	1483	1453	1453	1532	1532	1532	1602	1602	1660	1660	
Lube oil capacity (Gal/liters)	35/133	35/133	35/133	55/208	160/606	160/606	160/606	135/511	160/606	160/606	135/511	135/511	135/511	135/511	156/591	190/720	190/720	
Dimension (L*W*H), (mm)	3048*1693*2673	3048*1693*2673	2426*1987*2028	3565*2310*2214	4295*2719*2588	4295*2719*2527	4401*2896*2676	4560*2860*2623	5190*2989*2449	5190*2872*2735	4401*2896*2676	4401*2896*2676	4401*2896*2676	TSC-SP-WF1600-07-Rev.A	TSC-SP-WF1600-06-Rev.A	5350*3111*2855	6008*3270*2601	5835*3270*2601
Technical specification No.	TSC-SP-WF400-01-Rev.D	TSC-SP-WFU450-01-Rev.C	TSC-SP-WWS500-01-Rev.C	TSC-SP-WF700-01-Rev.C	TSC-SP-WF1300-01-Rev.B	TSC-SP-WF1300-02-Rev.B	TSC-SP-WF1300-03-Rev.A	TSC-SP-WF1600-01-Rev.C	TSC-SP-WF1600-04-Rev.C	TSC-SP-WF1600-02-Rev.C	TSC-SP-WF1600-03-Rev.D	TSC-SP-WF1600-05-Rev.C	TSC-SP-WF1600-07-Rev.A	TSC-SP-WF1600-06-Rev.A	TSC-SP-WF2000-01-Rev.D	TSC-SP-WF2200-01-Rev.C	TSC-SP-WF2200-02-Rev.C	
Weight, average (kg/Lbs) (*)	4600/10100	4600/10100	4300/9500	8600/19000	15500/34100	15700/34500	21,000/46,250	24500/54000	22,230/49,000	27,480/60,500	19,200/42,400	21,000/46,250	34,000/75,000	34,000/75,000	36,500/80,400	36,500/80,400	36,500/80,400	

Notes:  
 \* Average pump weight does not include accessories such as pulsation dampeners and belt sheaves.  
 \*\* For WF2200 mud pump, a special clamp design is required for 9" liner.