

# IFP IM3100/IM5100/IM7600 MOTOR PERFORMANCE DATA



Average Data at 2000psi / 138 bar  
Oil Viscosity - 150 SUS (32 CST)

## IM3100

Speed rpm	1" Gear			1 1/4" Gear			1 1/2" Gear			1 3/4" Gear			2" Gear		
	Displ.	1.97	in3/rev	Displ.	2.46	in3/rev	Displ.	2.96	in3/rev	Displ.	3.45	in3/rev	Displ.	3.94	in3/rev
	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp
	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp
	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw
800	10	575	7.5	12	737.5	9.5	14	900	11.5	16	1040	13.3	18	1180	15
	38	64.8	5.6	45.6	83.1	7.1	53.2	101.4	8.6	60.8	117.1	9.9	68.4	132.9	11.2
1200	14	570	11	16.5	730	14	19	890	17	21.5	1030	19.8	24	1170	22.5
	53.2	64.2	8.2	62.7	82.2	10.4	72.2	100.2	12.7	81.7	116.0	14.7	91.2	131.8	16.8
1600	17	565	14.5	20.5	722.5	18.5	24	880	22.5	23.3	1020	25.8	22.5	1160	29
	64.6	63.6	10.8	77.9	81.4	13.8	91.2	99.1	16.8	88.4	114.9	19.2	85.5	130.6	21.6
2000	20	555	17.5	24.5	707.5	22.5	29	860	27.5	34	995	31.8	39	1130	36
	76	62.5	13	93.1	79.7	16.8	110.2	96.8	20.5	129.2	112	23.7	148.2	127.3	26.9

## IM5100

Speed rpm	1" Gear			1 1/4" Gear			1 1/2" Gear			1 3/4" Gear			2" Gear			2 1/4" Gear			2 1/2" Gear		
	Displ.	2.55	in3/rev	Displ.	3.19	in3/rev	Displ.	3.83	in3/rev	Displ.	4.46	in3/rev	Displ.	5.10	in3/rev	Displ.	5.74	in3/rev	Displ.	6.38	in3/rev
	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp
	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp
	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw
800	11	730	9	13.5	935	11.5	16	1140	14	18.8	1335	16.3	21.5	1530	18.5	24	1715	21.3	26.5	1900	24
	41.8	82.2	6.7	51.3	105.3	8.6	60.8	128.4	10.4	13.9	105.3	12.1	81.7	172.3	13.8	91.2	193.1	15.9	100.7	214	17.9
1200	16	720	13.5	19.5	920	17.3	23	1120	21	27	1307.5	24.5	31	1495	28	34.3	1682.5	31.8	37.5	1870	35.5
	60.8	81.1	10.1	74.1	103.6	12.9	87.4	126.1	15.7	102.6	147.2	18.3	117.8	168.4	20.8	130.2	189.5	23.7	142.5	210.6	26.5
1600	20.5	710	17.5	25.5	905	2.3	30.5	1100	27	35.5	1285	32	40.5	1470	37	45.3	1645	41	50	1820	45
	77.9	81.0	13.1	96.9	101.9	16.6	115.9	123.9	20.1	134.9	144.7	23.9	153.9	165.5	27.6	172.0	185.2	30.6	190	205.0	33.6
2000	25.5	670	21	31.8	855	26.8	38	1040	32.5	44	1225	38.5	50	1410	44.5	56	1575	49.8	62	1740	55
	96.9	75.5	15.7	120.7	96.3	20.0	144.4	117.1	24.2	167.2	138.0	28.7	190.0	158.8	33.2	212.8	177.4	37.1	235.6	195.9	41

## IM7600

Speed rpm	1" Gear			1 1/4" Gear			1 1/2" Gear			1 3/4" Gear			2" Gear		
	Displ.	4.10	in3/rev	Displ.	5.12	in3/rev	Displ.	6.15	in3/rev	Displ.	7.17	in3/rev	Displ.	8.20	in3/rev
	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp
	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp
	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw
800	19.5	1100	14.5	23.8	1400	18.3	28	1700	22	31.3	1985	25.5	34.5	2270	29
	74.1	123.9	10.8	90.3	157.7	13.6	106.4	191.4	16.4	118.8	223.5	19	131.1	255.6	21.6
1200	26.5	1090	20	32.3	1385	25.5	38	1680	31	43.5	1970	36.8	49	2260	42.5
	100.7	122.7	14.9	122.6	156.0	19	144.4	189.2	23.1	165.3	221.9	27.4	186.2	254.5	31.7
1600	34	1040	26	41.8	1345	33.5	49.5	1650	41	56.8	1935	48.3	64	2220	55.5
	129.2	117.1	19.4	158.7	151.5	25.0	188.1	185.8	30.6	215.7	217.9	35.9	243.2	250	41.4
2000	41	970	30.5	50.3	1285	40.3	59.5	1600	50	69	1890	59	78.5	2180	68
	155.8	109.2	22.8	191.0	144.7	30	226.1	180.2	37.3	262.2	212.8	44	298.3	245.5	50.7
Speed rpm	2 1/4" Gear			2 1/2" Gear			2 3/4" Gear			3" Gear					
	Displ.	9.22	in3/rev	Displ.	10.25	in3/rev	Displ.	11.27	in3/rev	Displ.	12.30	in3/rev			
	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp	Input Flow	Output Torque	Output Hp			
	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp	gpm	in/lbs	Hp			
	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw	l/m	Nm	kw			
800	38.3	2600	33.3	42	2930	37.5	45.8	3315	42.3	49.5	3700	47			
	145.4	292.8	24.8	159.6	330.0	28.0	173.9	373.3	31.5	188.1	416.7	35.1			
1200	54.5	2580	48.5	60	2900	54.5	66.25	3380	60.8	72.5	3860	67			
	207.1	290.5	36.2	228	326.6	40.7	251.8	380.6	45.3	275.5	434.7	50.0			
1600	71	2530	63.5	78	2840	71.5	86	3205	80.5	94	3570	89.5			
	269.8	284.9	47.4	296.4	319.8	53.3	326.8	360.9	60	357.2	402	66.8			
2000	87.5	2470	77.5	96.5	2760	87	105.8	3095	98	115	3430	109			
	332.5	278.2	57.8	366.7	310.8	64.9	401.9	348.5	73.1	437	386.3	81.3			