

JUNJIN CONCRETE PUMP SERVICE INFORMATION



JSI - EN - 05- 3B - 001		Date	Feb 1st, 2005
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Written by	IL KYU, AN	Approved by	IN JAE, HWANG
Subject	M55 main cylinder		

■ Type of main cylinder for pumping

	Part Number	Specification (tube/rod×stroke)	External Dia.	Remark
M33, M37, M40 M42, M43, M50	J011600C	Φ130/Φ80×2100	Φ160	
M55	J011500	Φ140/Φ80×2100	Φ160	
JM-2100HP	J181600	Φ160/Φ90×2100	Φ190	Left / Right
	J181680			
JFS-12H	J011600C	Φ130/Φ80×2100	Φ160	
M28	J121600	Φ120/Φ63×1600		
M20	J151600	Φ110/Φ63×1400		

※ Comparing M55 to M33, M37, etc the wall thickness of cylinder tube is different even though the external diameter is the same.

■ Distinguishing M55 main cyl. from others

① Check the carve letter which is located on the end of the cylinder.(water box side)



Fig. 1 Main cylinder carve letter(J011600C, M37)

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② Check the extra electric-proximity switch port
 In case of J011500(M55 main cylinder, $\Phi 140/\Phi 80 \times 2100$), additionally 2 of ports for the electric sensing switch are installed and plugged.
 J011600C(M37 main cylinder, $\Phi 130/\Phi 80 \times 2100$) does not have those ports on the cylinder.



Fig. 2 Extra sensing ports(rod side)



Fig. 3 Extra sensing ports(piston side)

■ Theoretical pumping strokes and output volume

(Efficiency = 0.95)

	Main pump displ. per revolution	Main cylinder	PTO Gear Ratio	RPM	Strokes per min.	Maximum output	Remark
M37	250cc/rev	$\Phi 130/\Phi 80 \times 2100$	1.07(RB950)	1950	30	150m ³ /H	
M55	190×2cc/rev	$\Phi 140/\Phi 80 \times 2100$	1.07(RB962)	1800	33	170m ³ /H	
				1950	36	185m ³ /H	

- ※ The transmission gear ratio should be 1:1.(pump input speed)
- ※ An excel file which automatically calculates the theoretical output volume can be obtained by request.