

1. JP600 Pump

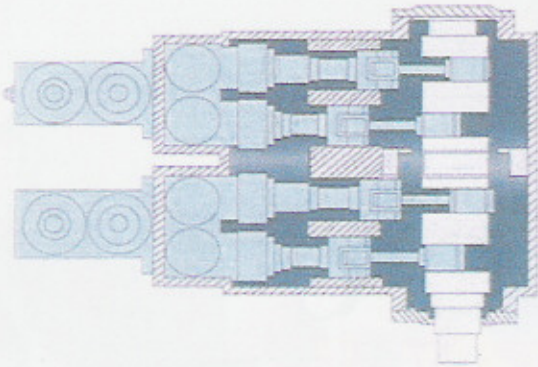
JP600 Pump specification table

Classification	Serial system	Pumping quantity	Suction diameter (inch)	Pumping diameter	Cycle	Pressure	Cylinder diameter	Pump length (m/m)	Pump width	Pump height (m/m)	Pump weight	Total weight
	4serial system	71 ~ 351 \pm 2	32A	25A	54	60	55	1050	650	1020	550kg	720kg

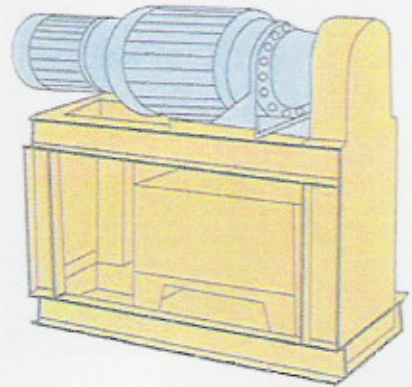
4. Comparison list between new type JP600 Pump and general chemical grouting pump(18 ℓ)

Item	New JP600 Pump	General Chemical grouting pump(use for 18 ℓ)
Usage	Chemical grouting const. method, LW const. method, Cement milk grouting const. method	Available only for use for small type chemical grouting const. method
Change of speed device structure	Strong change of speed device having change of speed handle controlling rev. of vertical motion axis connected to flange disk so that disk member controlling rev. of flange disk member may fit flange disk member.	General change of speed device is structured so that "Bebel" gear and chain pin may fit together.
Performance	Because of exact change of speed, pumping pressure & quantity are a lot with (7 ℓ -35 ℓ)x 2, & control of pumping quantity is easy.	Because of wear of Bebel gear & chain pin, pumping quantity is reduced considerably. For use of (6-18 ℓ).
Failure rate	Hardly any failure but semi-permanent. Free post service for a year.	Wear of Bebel gear & chain is significant, & they should be replaced. (Much operation fee)
Frame	Being stout & unshaken as structure of "Jannel" shape steel, working well.	Fitting of chain coupling not attaining harmony because of twisting & bending as input system.
Exterior structure	Attachment of safe cover on the motor protects change of speed & machine devices, prevents flowing in of impurities, and appearance is good. Because of solid form, exterior is minimized, & installation area is simple.	Since pump & speed reducer are lined in a single row, and since installation area of machines is large & protruded outside, cause of failure by cement and impurities is provided.

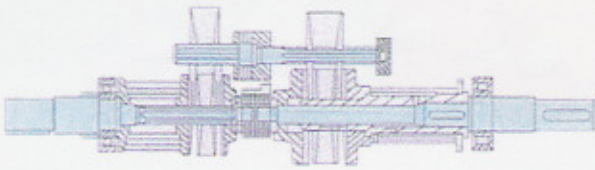
6 JP600 grouting pump and PIV change of speed device diagram



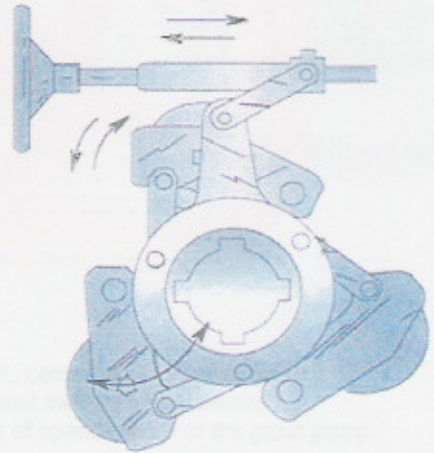
◆ New type JP600 Pump interior cross section



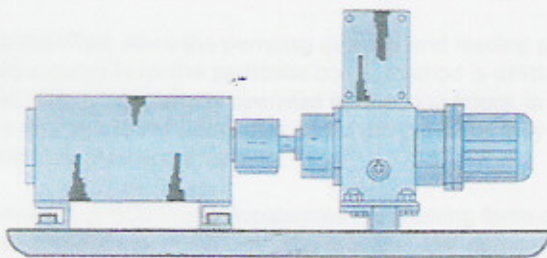
◆ JP600 Pump assembly diagram



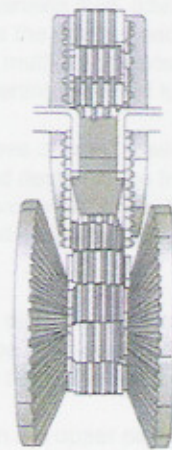
◆ Change of speed device mounted on the new type JP600 Pump diagram



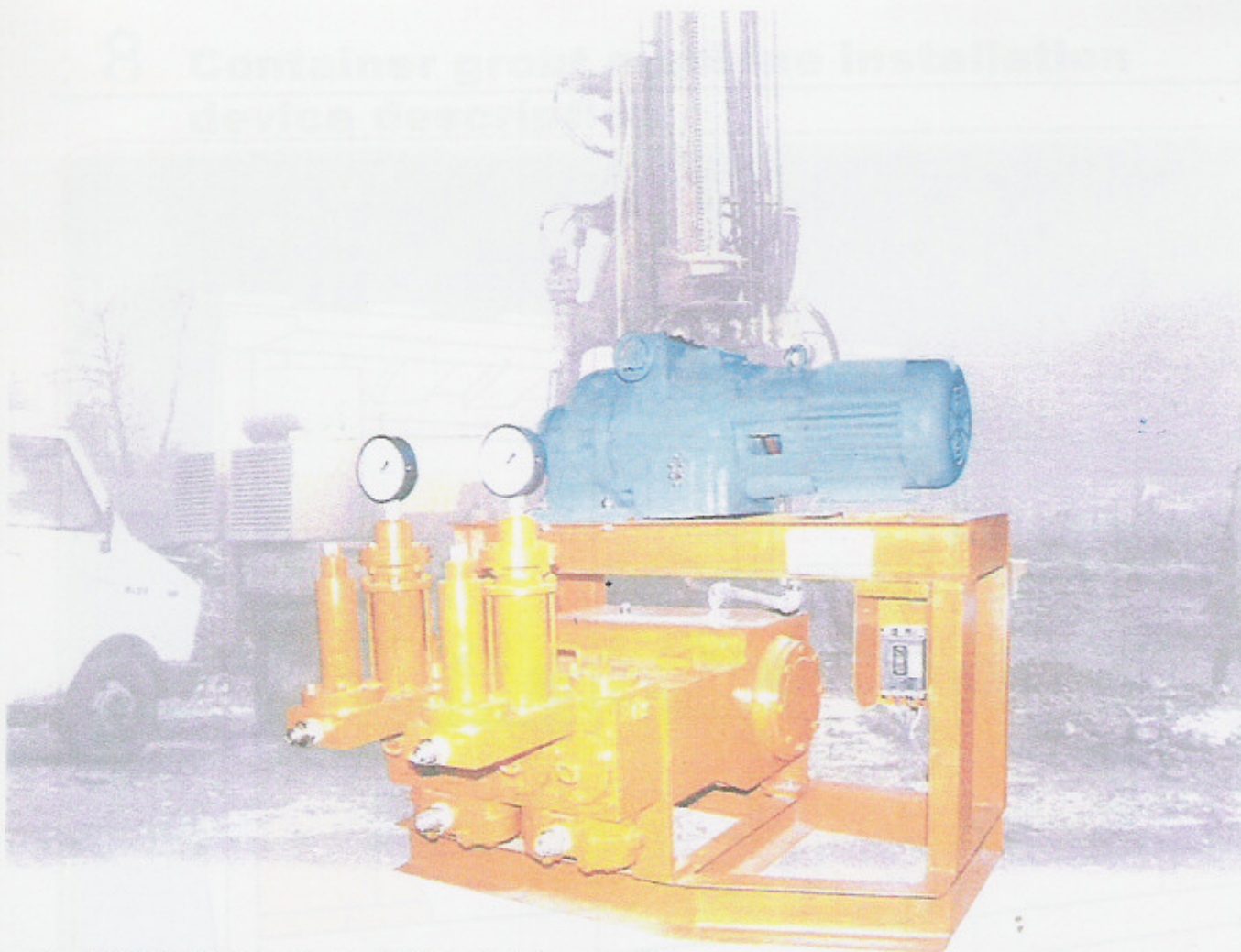
◆ Change of speed handle structure mounted on the JP600 Pump diagram



◆ Traditional grouting pump



◆ Traditional chain change of speed device diagram



7. JP600 Pump description(statement)

New type JP600 Pump is the grouting pump, which enables LW const., cement milk grouting const. and steel multi-stage const. methods as well as chemical grouting const method by enhancing maximum pumping quantity and pressure after improving the change of speed device of the grout pump.

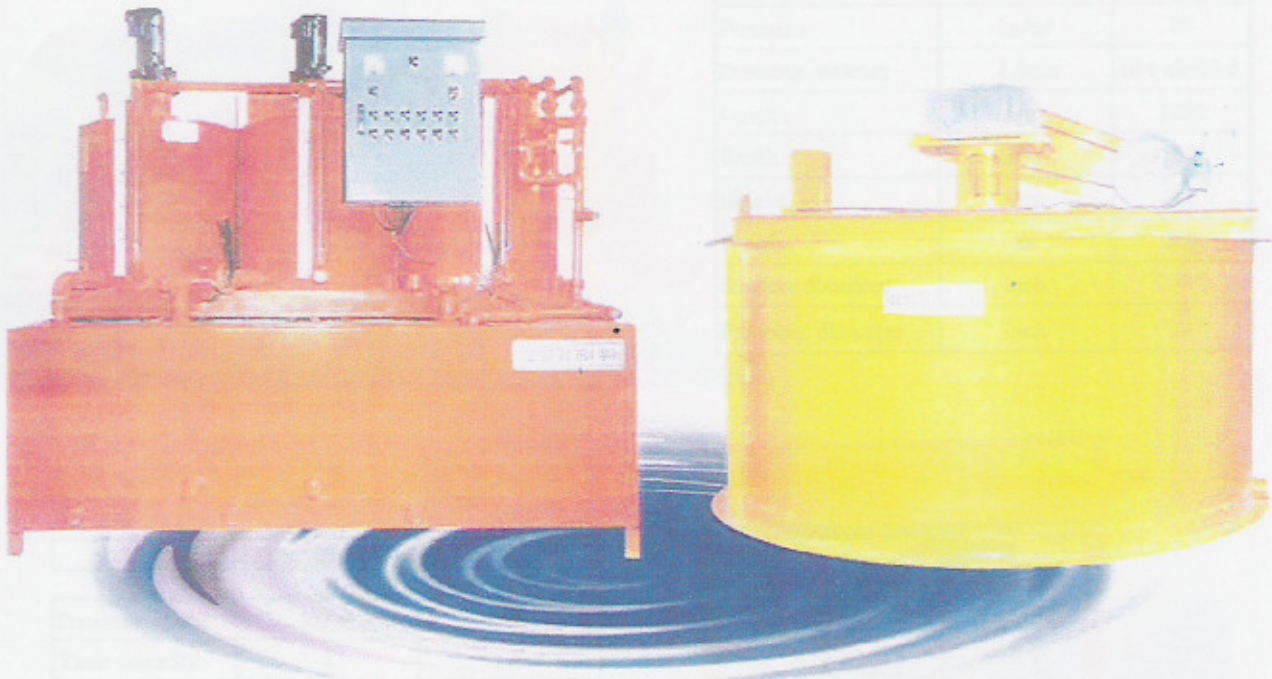
Chemical grouting const. method is the one to feed the feeding agent after kneading the agents solidified hastily and slowly combined into the target ground by combining special point device on the double tube "rod," and LW const. method is the one to feed the silicic soda and cement suspension fluid, after mixing them at the Y branch pipe, into the ground. Cement milk grouting const. method is the one to feed the cement paste through the drilled "rod" after drilling to the given depth. Steel tube multi-stage const. method is the one to reinforce the weak ground by feeding the cement milk inside by inserting the steel tube pipe.

As specified, since the pumping quantity and feeding pressure vary in various types of const. method, the grout pump fit for the particular const. method is used. When the change of speed device of the traditional chemical grout pump is operated for the long hours, in case the chain extends somewhat, it may bring about the damage to the Bebel disk and chain pin since they may not fit together as well as the revolution ratio is considerably inaccurate.

Since the JP600 Pump accelerates the wearing force of the "connisk" and flange disk members considerably, and allow its use in the chemical grouting, LW, cement milk grouting and steel pipe multi-stage const. methods. Therefore, its use enables the reduction of required expenses of preparing pump device for each const. method.

Since JP600 Pump installs the change of speed device connected to the chain on the upper part of supporting body of above mentioned pump member, it is the very useful one to minimize the installation area of the pump.

1.1 Various types of agitators and "Agiretor"



□ Feature

**For the use of the chemical grouting
(used in two ways with three set system "Agiretor")**

For the use for LW const. method

For the use for the general milk feeding

JSP and RJP(used in two ways with "Agiretor")

Manufacture by receiving orders following various types of const. method

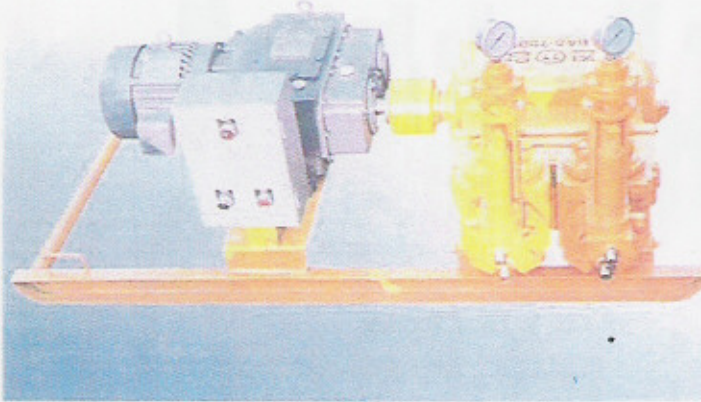
Various types of mixers specification

Items / Class	Three set system agitator (used in two ways with "Agiretor")	Two set system agitator (used in two ways with "Agiretor")	Mixer
Data	Z10Lxd300Wxd1950H	Z10Lxd300Wxd1950H	
Tank capacity	250 t.x3	2500 t.x2	100 t.
Motor & geared motor	1HPx2P=3-Gear motor 3 120 type Wof speed reducer 50:1=1 3HPx1P=monitor 1	2HPx4P=3-Gear motor 2 100 type Wof speed reducer 50:1=1 3HPx1P=monitor 1	Above 1HP-4P
Number of revolution	360 R.P.M	360 R.P.M	3600~500 R.P.M
Weight	550kg	500kg	70kg~
Electricity	Selecting control panel 220V-380V	Selecting control panel 220V-380V	220V-380V

*Manufacture by receiving orders for large capacity of the agitator in the above specification
(Agitators of various const. method of JSP)

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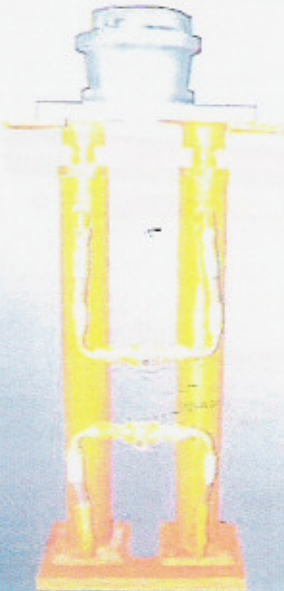
Grout pump, Unit, cylinder



CHEMICAL GROUT PUMP		
Required horse power	HP-P	3HP-4P
Pressure	kg/cm ²	35
Pumping volume	ℓ/min	18 ℓ x2=36 ℓ
Length	mm	1250
Width	mm	850
Height	mm	700
Weight	kg	350
Suction diameter	inch	(3/4")
Pumping diameter	inch	(1/2")

HYDRAULIC UNIT

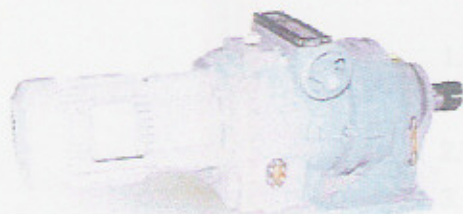
Pressure used	kg/cm ²	300
Tank capacity	ℓ	120
Pump capacity	cc/sec	20
Motor	HP-P	7.5-6 grade
Width	mm	450
Length	mm	730
Height	mm	920



CYLINDER

Stroke	mm	m500
Pressure used		2x2
Speed	mm/sec	15
Breadth	mm	200
Width	mm	420
Height	mm	820

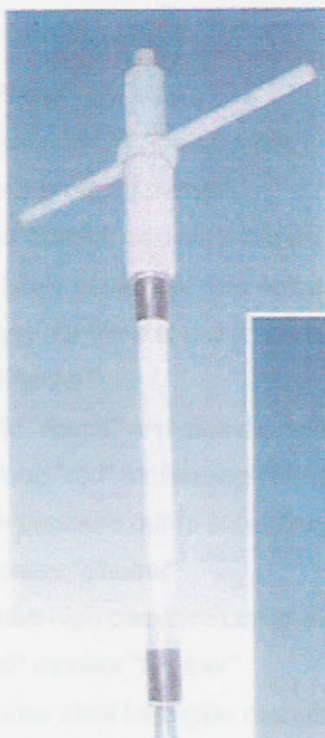
14 Change of speed device, "parker" and subsidiary parts



◆ Transmission(New model)



◆ PIV transmission



◆ Handle "parker"



◆ Air "parker"



◆ Air tank

◆ High pressure compressor

□ DRS-25-60/60A

For L.W., Chemical, Cement milk

This device, as the one able to be used for the multi-purpose such as L.W., chemical, cement milk and so on, is the practical apparatus, which was improved and complemented from the existing models.

- * Calculation range
- * Flow volume: 0-60 ℓ /min
- * Pressure: 0-60kg/cm²

* Applied const. method

1. L.W., 2. Chemical 3. Cement milk 4. Other various types of feeding const. method

* Power: AC220V \pm 10%, 60Hz single phase, within 150VA

*Exit and pumping(emitting) opening

□ Aperture: 25mm(1")

□ Size:Main body-about W400xH700xD438mm

□ Weight: about 63 kg

*For consolidated feeding: Attach to pressure setting

External control and alarm(0-60 kg / cm²)

