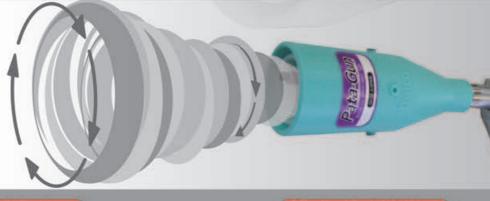


What is Pata-Gun?

Air jet mouth rotates with high speed. The rotation leads intermittent air extensively You can do dewatering and removing of dust more efficiently than the conventional Air-gun You can reduce treating time and save Air-consumption



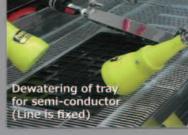
Example of application





Most proper for treating work with roughness





Simple installation



Gun-Point connection should be 1/8" thread. Otherwise the installation is not possible.



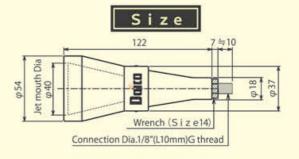
Patent 4427033/4427093

Model SPG-40 · 40G

Model: SPG-40 (Unit Type)



Connection: 1/8"G thread Weight:107g



Model:SPG-40G (with Air-Gun)



Model	Air Flow	Usable Fliud	※Air Pressure		Temperature	Weight	Using flow volume
SPG-40型	100~110NL/min.	Air, Inert gas	Air-gun 0.4~0.45Mpa	Fixed piping 0.3~0.35Mpa	10~40°C	(unit type) 107g	Air Volume 100NL/min (0.4MPa)

■ Jet mouth Dia. \rightarrow 40 φ

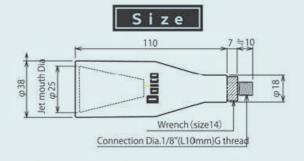
*Air pressure should be pressure during using air.

Model SPG-25·25G

Model: SPG-25 (Unit type)



Connection:1/8"G thread Weight:113g



Model SPG-25G (with Air-Gun)

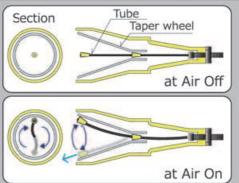


	Model	Air Flow	Usable Fliud	XAir Pressure		Temperature	Weight	Using flow volume
-	SPG-25型	100~115NL/min.	Air, Inert gas	Air-gun 0.4~0.5Mpa	Fixed piping 0.35~0.45 Mpa	10~40℃	(unit type) 113g	Air Volume 100NL/min (0.4MPa)

*Air pressure should be pressure during using air.

■ Jet mouth Dia. \rightarrow 25 φ

>>Movement explanation of Pata-Gun(at start of shock wave)

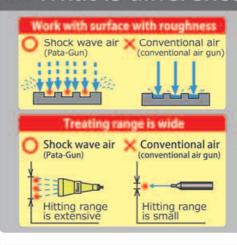


When you feed air, Tube starts to move by the pressure and to rotate along inside wall of taper wheel. When you touch jetting mouth of pata-gun by your hand, you feel intermittent hitting of air. It is Shock wave.

Shock wave generated by rotation of tube generates air impact power of same rotation as tube rotation. (SPG series: 20 rotations/sec or more)

Taper wheel (white cover) is a part which makes synchronous rotation with nozzle tube. By this synchronous rotation, you can reduce frictional resistance and protect the generation of dust and consumption.

>>What is difference between Pata-Gun and conventional Air-Gun



Pata-gun repeats air impact power due to effect of rotation shock wave nozzle and as a result you can hit and get out the remaining water in dent.

In case of conventional air gun, it pushes only by air and can not jump difference in level and as a result the water remains in dent.

In you use it with same pressure and same flow volume, pata-gun can treat more wide range by effect of rotating shock wave nozzle pata-gun shock wave.

Pata gun is air nozzle for saving energy

>> What is difference between SPG-40 and SPG-40 and SPG-25?



It should be proper when you want to treat wide range



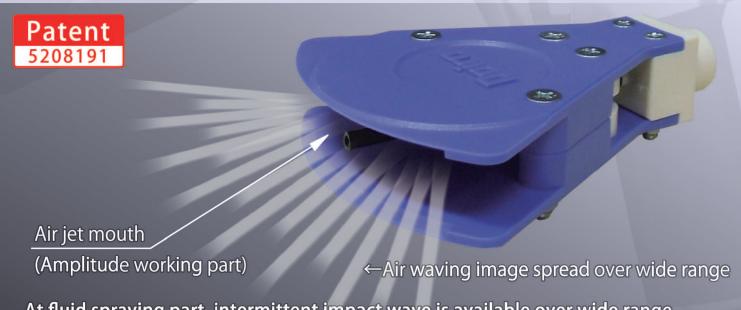
SPG-25

It should be proper when you want to hit small place at pin-point and to treat narrow range.

>> What is range of shock wave hitted? SPG-25 and SPG-40 Relation between distance and strength of shock wave Relation between dictance and Jet effective Dia SPG Farther it is from Nearer it is to 25 Distance Jet mouth, wider jet effective Dia. wider Distance jet mouth, stronger shock wave is to hitting object to hitting object Omm Mouth Dia. narrow Shock wave strong – Jan mentin Eka ф30 **640** 10mm 10_{mm} -0.2Mpa 0.2Mpa 20mm 20mm 0.2Mpa -0.2Mpa Mouth Dia. Shock wave - φ52 Φ42 -— (ağımmattı Cia — 30mm 30mm -0.17Mpa lat morali Eks — > φ57 40mm 40mm 0.16Mpa 0.17Mpa - Wint pressure-Mouth Dia. is wide. Shock wave weak φ52 = lat mouth Eta - > φ62 0.15Mpa = White pressure = 0.14Mpa ----- 50mm

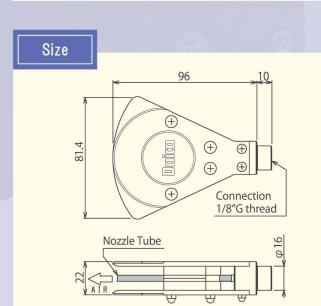
* It is our measuring value at blowing pressure of 0.4Mpa. Different value could be measured depending on environment to be used

Impact wave realizes increasing of work efficiency and energy-saving at same time.



At fluid spraying part, intermittent impact wave is available over wide range due to high speed amplitude. As a result you can remove water and dust save air consumption more efficiently than conventional air blow gun and you can reduce the process time.





Model:PGO-91G(with Air-Gun)



Material

Outer Case: POM resin (Polyacetal)

Nozzle Tube: Soft urethane

Screw part: SUS304

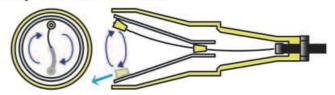
Air Flow	Usable Fluid	Air Pressure		temperature
90~120 NL/min.	Air, Inert gas	Air-Gun 0.4~0.45MPa.	Fixed piping 0.35~0.4MPa.	10~40℃

* In order to improve performance, product specifications may be changed.

The reason why Pata Gun is called as "Eco Gun"

Energy saving data for Model SPG-40 by our comparison.

[The priciple of Pata Gun]



Pata Gun is the products which expand the range of airblow of jetting exit due to high speed rotation along inside of cover.the range is expanded, but the effect can not be reduced. Air can be increased rather due to impackt shock wave.

The difference of effective range from conventional air gun

(comparison of dewatering for printing screen) Although Air Volume is same 4:1. Saving of JY200,000.-By Pata Gun 1 pc. Only Electric charge 1/3 or less per year.



In Dewatering of 60mm range Air consumption:

Necessary capacity of compressor:

1.5 K W

Electric Charge/year:

JY75,000. -

As for life of Pata Gun, we have performance of 3,000 hours or more and it is still under progress as of April 2009. The life is up to the using condition and environment. Anyway try 1 pc.



400L/min. **Necessary capacity**

of compressor: 5.5 K W

Electric Charge/year:

JY275,000. -



Effective range Approx.

Calculation condition of Electric Charge: JY20.-/kWh, 10hours/day 250days/year. Compressor is upto modand hence we calculate it safety wise.

The difference of Airblow of conveyer with 300mm width compared with conventional air gun

Electric charge 1/4! You save JY825,000.-

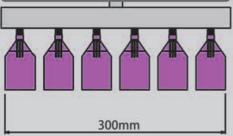


Air Consumption >>> 0.4MPa.)

Necessary capacity of Compressor >>> **5.5KW**

Electric Charge >> JY275,000.-

Conventional resin nozzle



Resin Nozzle x 6pcs

3000L/min. <<< Air Consumption

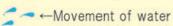
22KW <<< Necessary capacity of Compressor

JY1,100,000.-<< Electric Charge

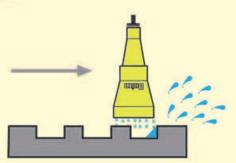
Important (Know How how to use Pata-gun) Use it better and work more ef ficiently

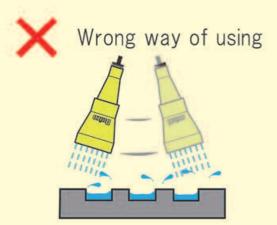
Good and bad example when you do dewatering with Pata-Gun

←Shock wave air



Correct way of using





- 1 Never swing Pata-Gun, otherwise the effect is going down
- 2 Shift it holizontally and slowly to constant direction without swinging
- ③ Recommendation distance between Pata-Gun and the object will be 10mm ∼ 20mm (longest 80mm)

[Application of Pata-Gun SPG series supplied]

>> General field

- -Cleaning of various filter materials
- -Cleaning of recycle commodity
- -Dewatering of printing screen after the washing process
- -Cleaning of Aluminium Fin of radiator and heat exchanger
- -Dewatering of surface roughness for dual lattice of reusable shipping carton
- -Agitation drying of granular resin material -Dewatering of filter etc for air conditioner after the cleaning
- -Cleaning of car seats
- -Cleaning of machine tool
- -Dewatering of resin products before the painting

>> Electronics field

- -Dewatering of transfer tray of semiconductor after the cleaning
- -Removal of dust and particles for mount board.
- -Prevention of solder drooping of circuit board after taking out it from solder tank
- -Others

>> Automobile field

- -Removal of sand in foudry factory
- -Deoiling and Dewatering of Diecasting products
- Deoiling and Dewatering after drilling and tapping of Engine etc
- -Removal of excessive anti-rust preparations for preservation and drawing oil after press forming process -De-burring afer metal machining process
- -De-burring of resin forming products like head light parts, instrument panel etc
- -Removal of grinding powder for resin forming products like head light parts, instrument panel etc
- -Dewatering of resin forming products like head light parts, instrument panel etc

>> Food Field

- -Dewatering of concavity for three-dimentional packing of food
- -Dewatering of grip part of mineral water bottle
- -Dewatering of food before the date priting
- -Removal and Dewatering of dirt of chain/net-conveyer
- -Throwing of dust of working clothes
- -Dewatering of food tray after the cleaning
- -Others

* Specification is subject to change without notice due to improvement of quality

(Spare Parts)

There are thefollowing spare parts for 2 types of SPG type.

PGO - 91 has no spare parts.



