

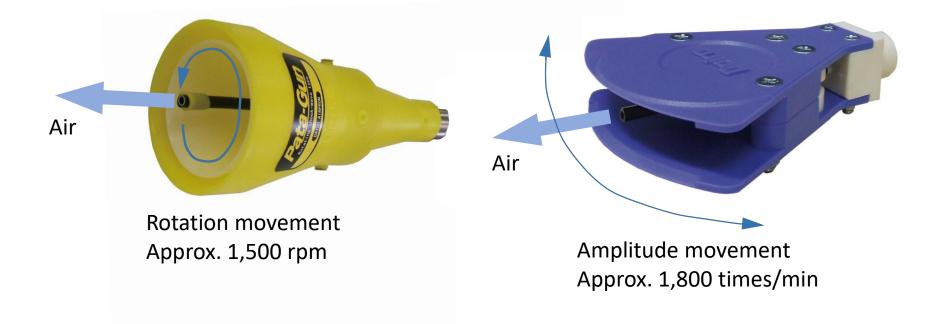
Shock wave jet air nozzle



What is PATA GUN ?

New Air Nozzle

Air jet exit rotates or operates with amplitude at high speed. It strikes powerful shock wave air over a wide area.



PATA GUN 3 Models



Basic wide range type Rotating shock wave type SPG-40





Amazing points of PATA GUN 1: STRONG

Intermittent slapping shock wave air enhances the blow effect

(Example) Comparison of spraying on Clay surface





Amazing points of PATA GUN

2: Fast Work

Fast and reliable work due to wide processing width

(Example) De-watering comparison of printing screen





Conventional Air Blow Gun

- It takes much time.
- Not reliable
- (Water and Foreign matter remain)

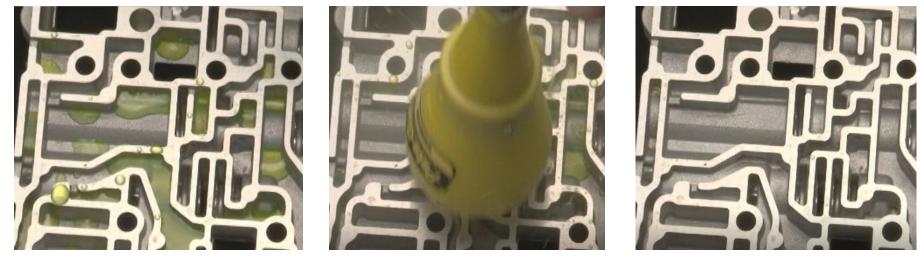
PATA GUN

- Fast Work
- Reliable

Amazing points of PATA GUN 3:Very effective on uneven surface(凹凸)

Air hits from various directions, so it reaches deep in unevenness (凹凸)

(Example) Oil removal from automotive cutting parts



Before

In blow process

After

Amazing points of PATA GUN 4:Tapping(Hammering) Effect

Powder and dust can be removed instantly with the beat effect of shock wave

(Example) Removal of abrasive powder from headlight resin parts







Before

In blow process

After

Amazing points of PATA GUN 5:Earth-Friendly-1

Consumption Energy comparison in the same air consumption with conventional nozzles



3.6 tons reduction of CO2 emissions in one year (Due to comparison in our company)

Compressor 1.5kw CO2 emissions of 1.365t in one year Compressor 5.5kw CO2 emissions of 5.005t in one year

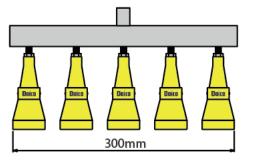
Effective range 15mm

☆The above CO2 emissions are assumed to be 250 days a year for 8 hours a day. The calculation of CO2 emissions uses the emission coefficient of 0.455kg-CO2 / kwh for fiscal 2018 published by Tokyo Electric Power Company of Japan.

Amazing points of PATA GUN

5:Earth-Friendly-2

Consumption Energy comparison of Blow processing of 300mm width with conventional nozzle



13 t reduction of CO2 emissions in one year (Due to comparison in our company)

SPG-40 x 5pcs

Compressor 22kw CO2 emissions of 20.02t in one year

300mm

Resin Nozzle x 6 pcs

Compressor 7.5kw CO2 emissions of 6.825t in one year

%The above CO2 emissions are assumed to be 250 days a year for 8 hours a day. The calculation of CO2 emissions uses the emission coefficient of 0.455kg-CO2 / kwh for fiscal 2018 published by Tokyo Electric Power Company of Japan.

Case study (automobile-related factory)

O Removal of oil and chips from aluminum die-cast parts

Oust removal and Dewatering before abrasive powder removal and painting after deburring of resin parts around lights and interior

© Dewatering after washing of related parts such as wipers, wheels, oil filters etc.

O Dust removal of electronic devices

O Detaching resin parts from injection molds and removing flash

Customer(Automobile related)

OToyota

ONissan Motor

OHonda Engineering

OMitsubishi Heavy Industries

[©]Toyota Industries Corporatio

OAisin Seiki

Kaizen Example

ODenso
Stanley Electric
NGK
Koito Manufacturing
Ichiko Industry
Japan Wiper Blade
Tokyo Roki
and many others

© Certain electrical equipment manufacturer: Work time was reduced to 1/6 in dust removal processing of connectors.

© Certain automaker: In removing water-based oil and chips from the cylinder block of the engine, taking out the oil to the next process was reduced by half. Rejected products due to remaining chips are reduced by 20%.

© Certain headlight component manufacturer: Work time was reduced to one-third in removing abrasive powder after deburring resin parts.

© Certain headlight component maker: The work time for dewatering after cleaning the resin lens is reduced to less than 1/10. Labor costs also have been reduced significantly by automating operations.