

Uryu original technology

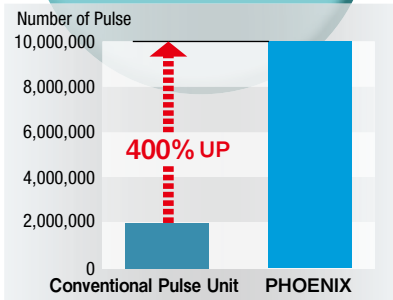
Features of PHOENIX Pulse Unit (PAT.P)

Overwhelming Performance with powerful PHOENIX!

New design with No springs helps to overcome challenges with conventional pulse tools and ensures the maximum performance of electric tool.

Long Life

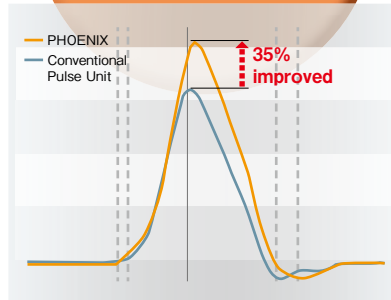
Durability improved by 400%!



Pulse Counts until Pulse Maintenance increased 400%

High Output

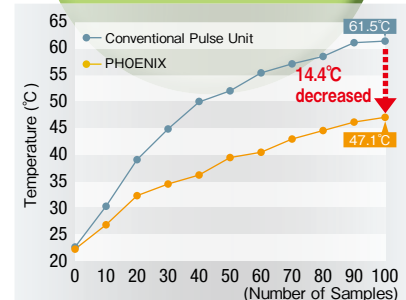
Output increased by 35%!



Output Peak Value increased by 35%

High-efficiency

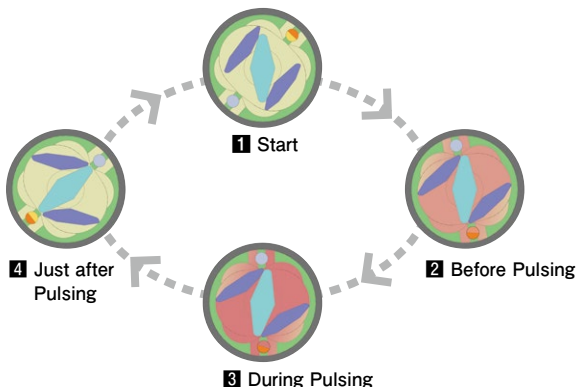
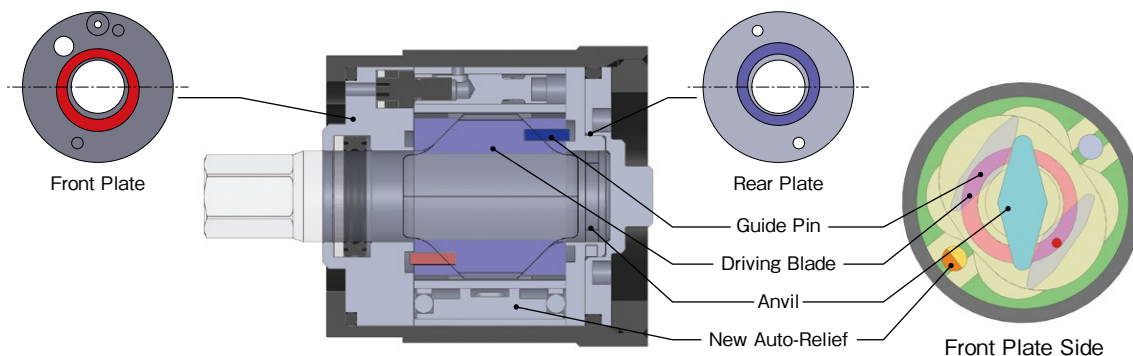
Minimizes temperature increase! No need to warm up before use!



Heat Generation during fastening decreased by 30%

*Comparison with conventional pulse tool. Calculated under URYU test condition. It varies depending on the usage condition.

Newly Developed PHOENIX Pulse Unit



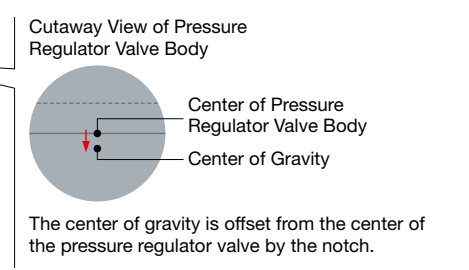
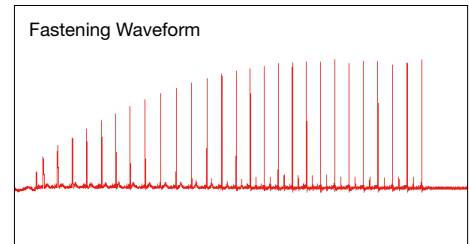
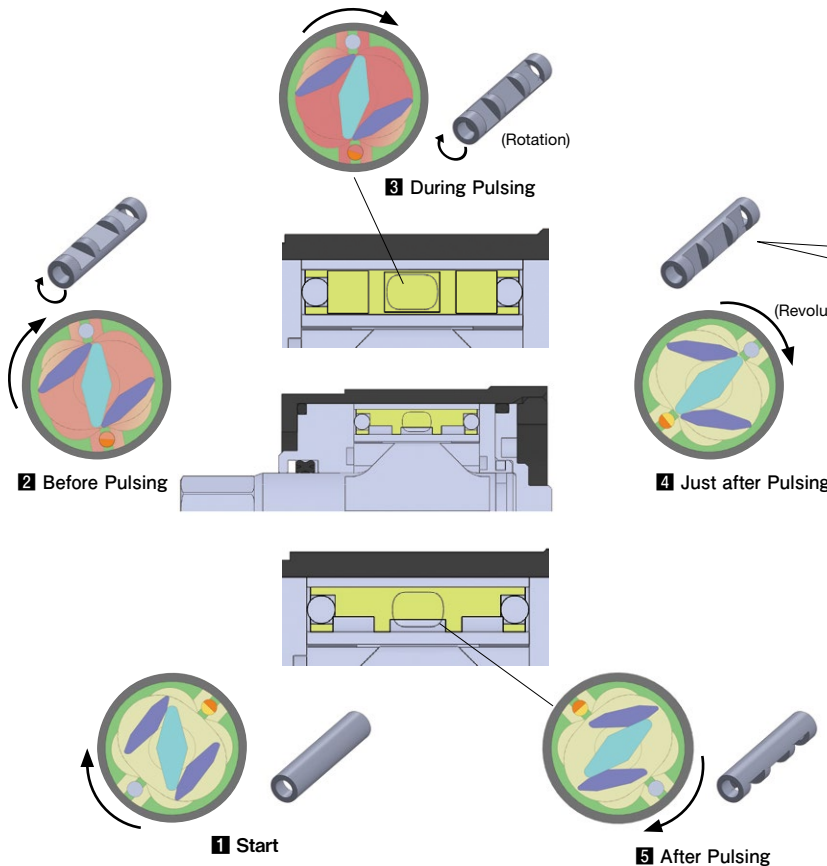
Guide pins provided on one side of each driving blade are connected to the 180° decentered guide (groove) on the rear/front plate and oil inside the pulse unit and guide pins holds the driving blades.

In addition, the driving blade is controlled on a regular track via decentered guide (groove) and guide pin. One impulse per rotation can be made by sealing the pulse unit per rotation.

Features of Newly Developed Auto-Relief (PAT.P)

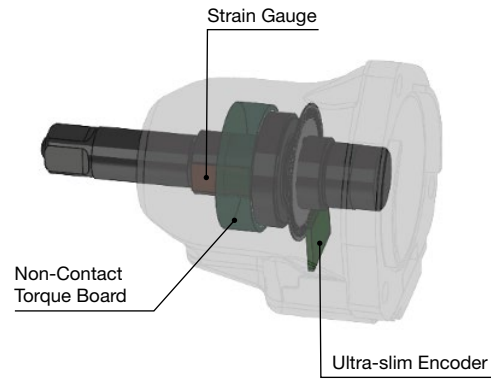
High-quality Fastening Accuracy with Ideal Waveform

Newly developed auto-relief (PAT.P) makes the fastening possible with smooth and ideal fastening waveform without being affected by oil degradation.



Notches created on the pressure regulator valve body offsets the center of gravity, and the rotational motion of the pulse and the inertial force at blowing activate the auto-relief. The notches on the pressure regulator valve body become bypass for oil, and the bypass is fully opened by centrifugal force due to rotation (revolution) when not pulsing, but the pressure regulator valve body rotates due to inertia when pulsing, and shut off the bypass unit. This new design makes the fastening waveform ideal without torque spike.

Newly Developed Small Torque & Angle Sensor



Small and power saving torque and angle sensor are employed for battery-powered tool. Torque measurement employs non-contact gauge type and angle measurement employs ultra-slim encoder. Small, but strong against vibration and noise. Very reliable sensor.