

YAMAWA Version up Series

# N+PO *Version up* Further evolutions of YAMAWA PO taps



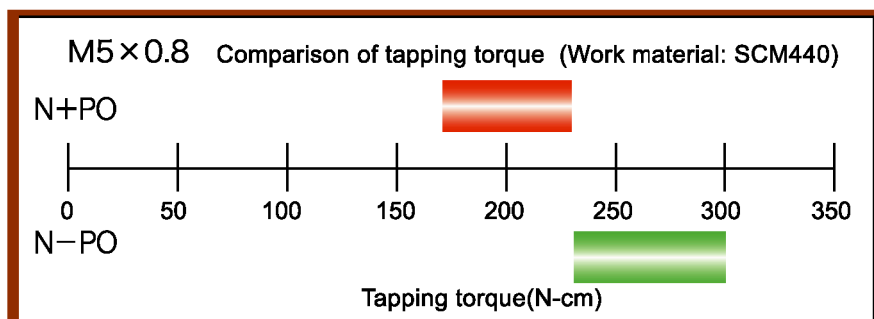
## YAMAWA VERSION UP Spiral Pointed Taps (N+PO)

Now, high speed, high precision tapping and precision tool holders are widely applicable for thread tapping. Yamawa Version Up Spiral Pointed Taps (N+PO) are designed with a special Tap's blank and geometry of thread portion to achieve the extension of the tool life. The production range of N+PO is from M3 to M6.

### The feature of Version Up Spiral Pointed Taps (N+PO)

- Taps are specially designed with lesser run-out of tap and new blank for high speed and high precision tapping.
- Chamfer portion of tap is specially designed to reduce the tapping load of each chamfer thread. It results in lesser tapping torque and improvement of wear resistance.

#### Tapping torque data after 1,000 holes tapping



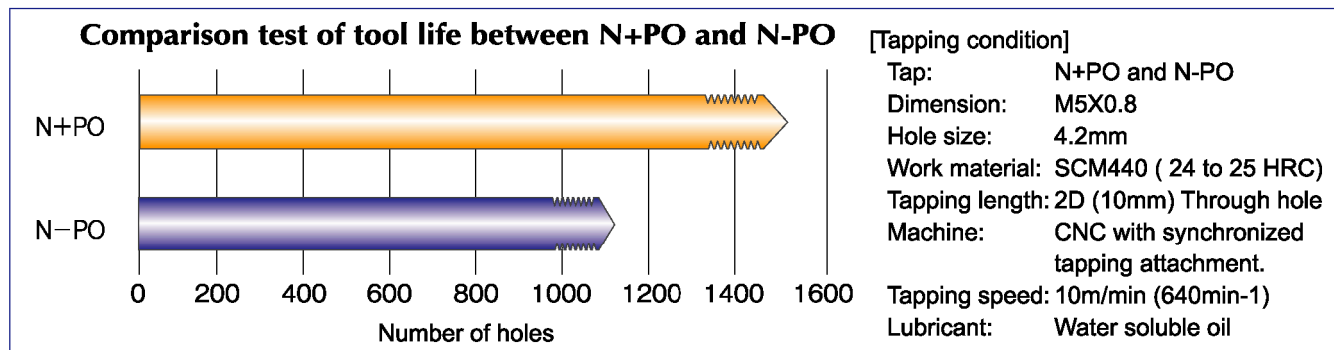
Tapping condition data is on the backside.



## Version Up Spiral Pointed Taps

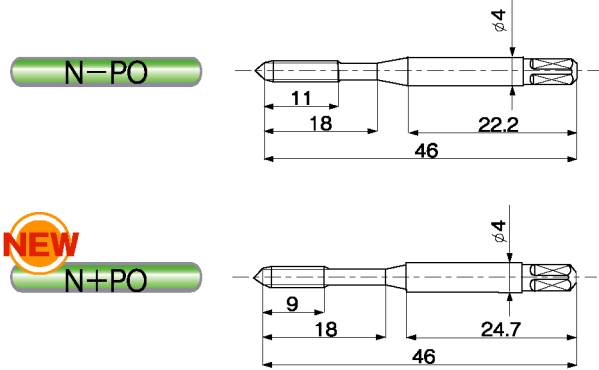
### Feel the performance of version up PO taps!! Improvement of your operating efficiency!!

N+PO is designed with various advanced geometries to enhance the tapping performance. Chart shows the result that the tool life of N+PO is 30% longer than that of N-PO comparing between N+PO and N-PO under following tapping conditions.

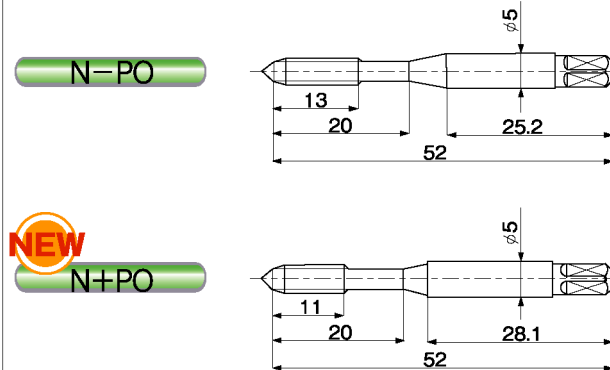


### Tap figures

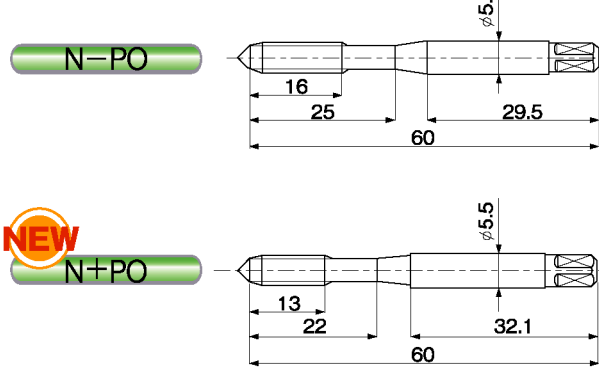
#### M3×0.5



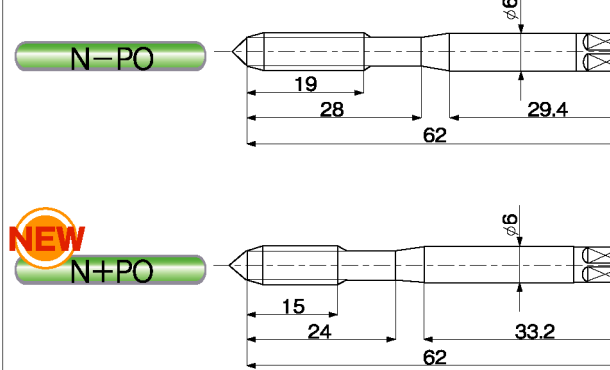
#### M4×0.7



#### M5×0.8



#### M6×1



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