CHICAGO INVENTORY
04.2024

# YAMAWA GENERAL CATALOG

[ JIS • ANSI • DIN ]

2023-2024

100th
Thanks & To the Future with You

CHICAGO SUPPLEMENTAL INVENTORY
DON'T SEE IT?
GIVE US A CALL!
847.593.6000

Think threads with
YAMAWA
SINCE 1923

SALES@PIONEERNA.COM
YAMAWA BY PIONEER
WWW.PIONEERNA.COM

YAMAWA Product Search and Tap Calculator Tool

# A handy application for quick search

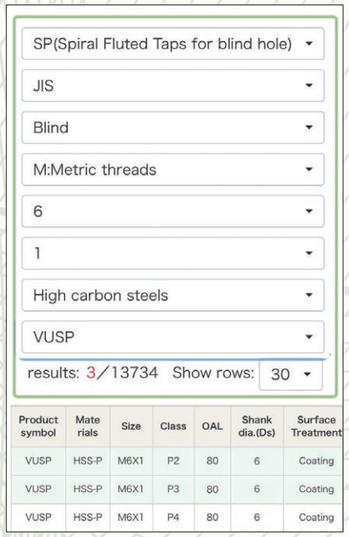
An easy-to-use application for helping you quickly and smoothly find products and information from anywhere, anytime

**App Store** **Google Play**

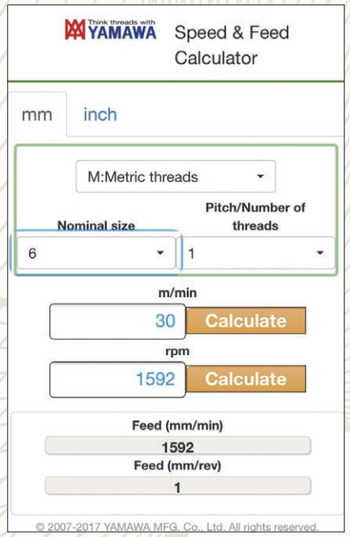
**Download now**

## Quickly find the right tap and tapping conditions!

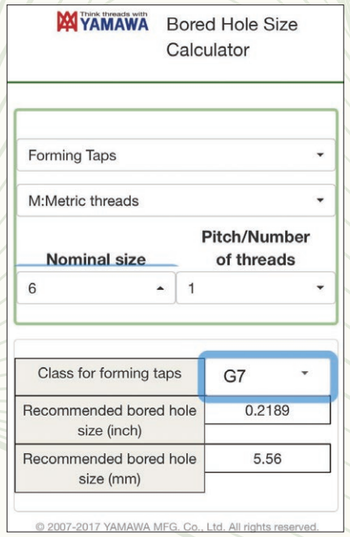
Easily find the right tap for the intended use.



Use the handy calculator to convert a recommended tapping speed into revolution speed/feed.



Use the handy tool to calculate a recommended bored hole size for a specific thread size.




## Find products on your smartphone wherever you are.

### At a production site

If you need a new tap on-site, search for it on your smartphone right away.

### In a design department

Input search parameter to find the best suited tap for your design drawing from many of YAMAWA products.

### At a trading company

If you find it difficult to search through many products, use the tool on your smartphone to narrow down the product candidates.

## Explanation of material icons

| | | | |
|---|---|---|---|
| AL | Aluminum | NA | Nickle base alloys |
| AS | Alloy steels | BS | Brass |
| CS | Carbon steels | BC | Brass castings |
| TS | Tool steels | PB | Bronze |
| CI | Cast irons | AA | Aluminum alloy castings |
| CA | Cast steels | ZA | Zinc alloy castings |
| SS | Stainless steels | MA | Magnesium alloy die castings |
| TI | Titanium alloys | TR | Thermal refined steels |



Think threads with YAMAWA

## Explanation of icons

| | | | | | |
|---|---|---|---|---|---|
| HSS | High speed steel | | For blind hole with through coolant hole | | Spiral pointed tap through hole use |
| HSS-Co | High speed steel (Cobalt HSS) | | For through hole with radial coolant hole | | Hand tap through hole use |
| HSS-P | Powder HSS | LH Left hand | For left hand thread | | Hand tap blind hole use |
| HF | Ultra micro grain cemented carbide | Synchro nized | For synchronized feeding | | Spiral fluted tap through hole use |
| Alloy steel | Alloy steel | 5 | Number of threads on chamfer | | Spiral fluted tap blind hole use |
| OX Oxide | Oxidizing | LH | Center drills left hand cut | | Low spiral fluted tap blind hole use |
| NI Nitride | Nitriding | <2D | Cutting length | | Low spiral fluted tap blind hole use specially for horizontal tapping |
| NX Nitride+Oxide | Nitriding/Oxidizing | | | Stainless steels ステンレス鋼 5~10 (m/min) | Specification Tapping Speeds |
| Coating | Coated | | | | |



Think threads with YAMAWA

"Reliable screw threads" is YAMAWA's theme.

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

YAMAWA BY PIONEER

# LINEUP

## SPIRAL FLUTED TAPS


Z-PRO DIN Length VUSP CS AS SS TS CI AL AA ..... 9
Z-PRO DIN Length VUSP CH CS AS SS TS CI AL AA ..... 11
ANSI Length ZELX SS SP CS AS SS ..... 12
ANSI Length ZELX TI SP TI ..... 17
ANSI Length ZELX NI SP CS SS NA ..... 20
ANSI Length ZELX TI LHSP TI ..... 23
Z-PRO DIN Length HSVP CS TR AS SS CA ..... 25
DIN Length PM-SP CS TR ..... 27
DIN Length AL-SP BS BC PB AL AA MA ZA ..... 28
ANSI Length ISP CS ..... 30
DIN Length SP CS ..... 31
DIN Length SP OX CS ..... 37
DIN Length SP (FOR ALLOY) AS CS ..... 42


## SPIRAL POINTED TAPS


Z-PRO DIN Length VUPO CS AS SS TS CI AL AA ..... 44
ANSI Length ZELX SS PO CS AS SS ..... 46
ANSI Length ZELX NI PO CS SS NA ..... 50
ANSI Length PM-PO CS TR ..... 53
DIN Length AL-PO BS BC PB AL AA MA ZA ..... 55
DIN Length PO CS ..... 57
DIN Length PO OX CS ..... 62


## HAND TAPS


ANSI Length ZELX MOLD TR TS ..... 68
DIN Length HT CS ..... 69


## ROLL TAPS


Z-PRO DIN Length MHRZ CS AS TR ..... 79
DIN Length HP-RZ CS AS TR SS AA ..... 81


## SPECIAL THREAD TAPS

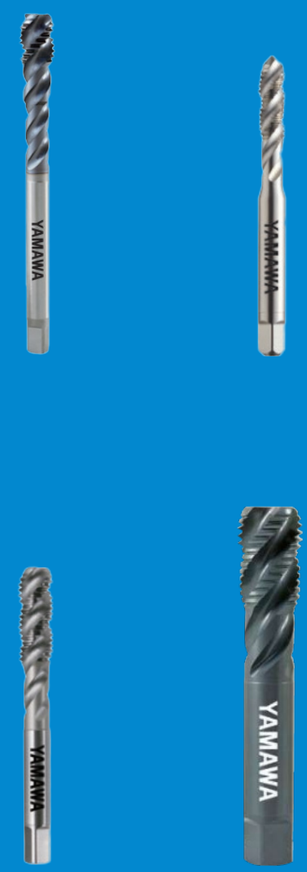

ANSI Length ZELX NI SP STI CS SS NA ..... 85
ANSI Length ZELX NI PO STI CS SS NA ..... 87
DIN Length PO STI BS BC PB AL AA MA ZA ..... 89
DIN Length PO OX STI CS ..... 91

YAMAWA BY PIONEER

# LINEUP

## SPIRAL FLUTED TAPS

DON'T SEE IT?
GIVE US A CALL!
847.593.6000




- VUSP
- VUSP CH
- ZELX SS SP
- ZELX TI SP
- ZELX NI SP
- ZELX TI LHSP
- HSVP
- PM-SP
- AL-SP
- ISP
- SP
- SP OX
- SP (FOR ALLOY)





| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

Z-PRO DIN Length

# VUSP

Z-PRO
Coated Spiral Fluted Taps

### Specification

HSS-P | Coating | <2D

- Durability is improved by premium powder HSS and special coating.
- Chip ejection efficiency is improved and cutting resistance is reduced by the unique cutting edge shape, achieving a good internal thread and long tool life.

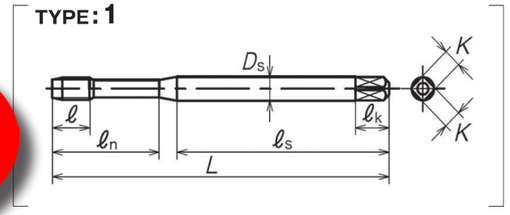
### Tapping Speeds depending on Materials

| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Alloy steels 合金鋼 | Stainless steels ステンレス鋼 | Tool steels 工具鋼 | Ductile cast irons 強靭鋳鉄 |
|---|---|---|---|---|---|---|
| 10~20 (m/min) | 10~30 (m/min) | 10~30 (m/min) | 10~20 (m/min) | 3~10 (m/min) | 5~10 (m/min) | 10~30 (m/min) |

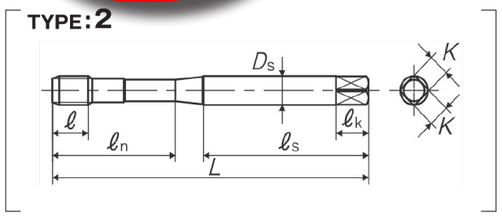
| Wrought aluminum アルミ圧延材 | Aluminum alloy castings アルミ合金鋳物 |
|---|---|
| 10~30 (m/min) | 10~35 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

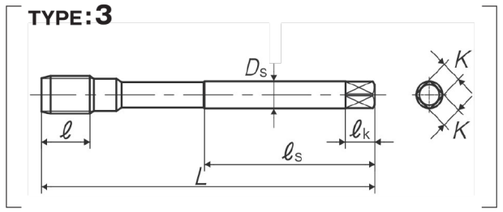
TYPE : 1




TYPE : 2




TYPE : 3




Segment : 1D

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M3 × 0.5 | D4 | 5101101035 | 2.5P | 2.205 | 0.197 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3 × 0.35 | D4 | 5101101036 | 2.5P | 2.205 | 0.197 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M4 × 0.7 | D5 | 5101101042 | 2.5P | 2.48 | 0.276 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M4 × 0.5 | D4 | 5101101043 | 2.5P | 2.48 | 0.197 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M5 × 0.8 | D5 | 5101101049 | 2.5P | 2.756 | 0.354 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M5 × 0.5 | D4 | 5101101051 | 2.5P | 2.756 | 0.236 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M6 × 1 | D6 | 5101101055 | 2.5P | 3.15 | 0.433 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 1 |
| M6 × 0.75 | D6 | 5101101056 | 2.5P | 3.15 | 0.315 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 1 |
| M6 × 0.5 | D4 | 5101101057 | 2.5P | 3.15 | 0.315 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 1 |
| M8 × 1.25 | D7 | 5101101064 | 2.5P | 3.543 | 0.472 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 2 |
| M8 × 1 | D6 | 5101101065 | 2.5P | 3.543 | 0.472 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 2 |
| M10 × 1.5 | D8 | 5101101078 | 2.5P | 3.937 | 0.512 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 2 |
| M10 × 1.25 | D6 | 5101101079 | 2.5P | 3.937 | 0.512 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 2 |
| M10 × 1 | D6 | 5101101080 | 2.5P | 3.937 | 0.512 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 2 |
| M12 × 1.75 | D8 | 5101101088 | 2.5P | 4.331 | 0.591 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 3 |
| M12 × 1.5 | D7 | 5101101089 | 2.5P | 4.331 | 0.591 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 3 |

Think threads with YAMAWA

- This product is different from JIS products in shape and dimensions, please be careful when using.



ANSI

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M12 × 1.25 | D7 | 5101101090 | 2.5P | 4.331 | 0.591 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 3 |
| M14 × 2 | D9 | 5101101100 | 2.5P | 4.331 | 0.709 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| M14 × 1.5 | D8 | 5101101102 | 2.5P | 4.331 | 0.551 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| M16 × 2 | D9 | 5101101114 | 2.5P | 4.331 | 0.709 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |
| M16 × 1.5 | D8 | 5101101116 | 2.5P | 4.331 | 0.551 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |
| M18 × 2.5 | D9 | 5101101128 | 2.5P | 4.921 | 0.787 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 3 |
| M18 × 1.5 | D8 | 5101101130 | 2.5P | 4.921 | 0.551 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 3 |
| M20 × 2.5 | D9 | 5101101141 | 2.5P | 5.512 | 0.787 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 3 |
| M20 × 1.5 | D8 | 5101101144 | 2.5P | 5.512 | 0.551 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 3 |
| M22 × 2.5 | D9 | 5101101156 | 2.5P | 5.512 | 0.787 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 3 |
| M22 × 1.5 | D8 | 5101101158 | 2.5P | 5.512 | 0.551 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 3 |
| M24 × 3 | D10 | 5101101167 | 2.5P | 6.299 | 0.984 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 3 |
| M24 × 1.5 | D8 | 5101101170 | 2.5P | 6.299 | 0.709 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 3 |
| For Unified Threads | | | | | | | | | | | | |
| No.5-40UNC | GH2 | 5101103021 | 2.5P | 2.205 | 0.197 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.5-44UNF | GH2 | 5101103022 | 2.5P | 2.205 | 0.197 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.6-32UNC | GH2 | 5101103023 | 2.5P | 2.205 | 0.276 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.6-40UNF | GH2 | 5101103024 | 2.5P | 2.205 | 0.276 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.8-32UNC | GH3 | 5101103029 | 2.5P | 2.48 | 0.276 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 1 |
| No.8-36UNF | GH3 | 5101103030 | 2.5P | 2.48 | 0.276 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 1 |
| No.10-24UNC | GH3 | 5101103039 | 2.5P | 2.756 | 0.354 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 1 |
| No.10-32UNF | GH3 | 5101103041 | 2.5P | 2.756 | 0.354 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 1 |
| No.12-24UNC | GH3 | 5101103047 | 2.5P | 3.15 | 0.354 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 1 |
| No.12-28UNF | GH3 | 5101103048 | 2.5P | 3.15 | 0.354 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 1 |
| 1/4-20UNC | GH3 | 5101103058 | 2.5P | 3.15 | 0.433 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| 1/4-20UNC | GH5 | 5101303058 | 2.5P | 3.15 | 0.433 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| 1/4-28UNF | GH3 | 5101103062 | 2.5P | 3.15 | 0.433 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| 1/4-28UNF | GH5 | 5101303062 | 2.5P | 3.15 | 0.433 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| 5/16-18UNC | GH5 | 5101103071 | 2.5P | 3.543 | 0.472 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 2 |
| 3/8-16UNC | GH5 | 5101103082 | 2.5P | 3.937 | 0.512 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 2 |
| 7/16-14UNC | GH5 | 5101103098 | 2.5P | 3.937 | 0.512 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 3 |
| 1/2-13UNC | GH5 | 5101103111 | 2.5P | 4.331 | 0.591 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 3 |
| 9/16-12UNC | GH5 | 5101103126 | 2.5P | 4.331 | 0.709 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| 5/8-11UNC | GH5 | 5101103138 | 2.5P | 4.331 | 0.709 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

Spiral Fluted Tap Series for blind hole

Z-PRO DIN Length

# VUSP CH

ANSI

Z-PRO
Coated Spiral Fluted Taps with Coolant Through Hole

## Specification

HSS-P | Coating | <2D

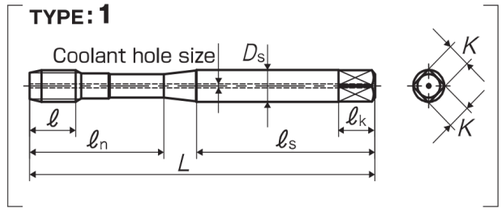
■Durability is improved by premium powder HSS and special coating.
■Chip ejection efficiency is improved and cutting resistance is reduced by the unique cutting edge shape, achieving a good internal thread and long tool life.

## Tapping Speeds depending on Materials

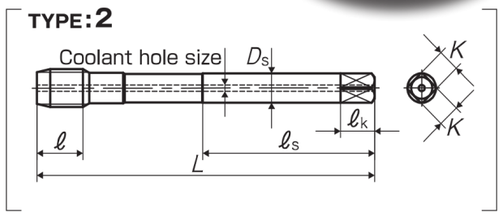
| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Alloy steels 合金鋼 | Stainless steels ステンレス鋼 | Tool steels 工具鋼 | Ductile cast irons 強靭鋳鉄 | Wrought aluminum アルミ圧延材 | Aluminum alloy castings アルミ合金鋳物 |
|---|---|---|---|---|---|---|---|---|
| 10~20 (m/min) | 10~30 (m/min) | 10~30 (m/min) | 10~20 (m/min) | 3~10 (m/min) | 5~10 (m/min) | 10~20 (m/min) | 10~20 (m/min) | 10~20 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

TYPE : 1




TYPE : 2




Segment : 1D

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | Coolant hole size (inch) | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | | | |
| 5/16-18UNC | GH5 | 5201103071 | 2.5P | 3.543 | 0.472 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 0.039 | 1 |
| 3/8-16UNC | GH5 | 5201103082 | 2.5P | 3.937 | 0.512 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 0.059 | 1 |
| 1/2-13UNC | GH5 | 5201103111 | 2.5P | 4.331 | 0.591 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 0.079 | 2 |

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

ANSI

ANSI Length

# ZELX SS SP

Spiral Fluted Taps for Stainless Steels

## Specification

HSS | 0X Oxide | <2D

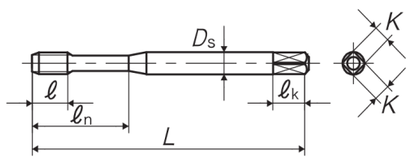
■Suitable for stainless steels, sticky and tending to work-harden, as well as chrome steels and chrome molybdenum steels. Blind hole use.

## Tapping Speed depending on Materials

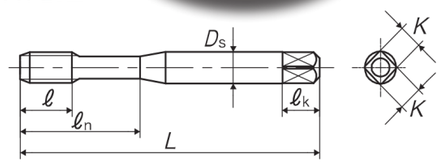
| Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Alloy steels 合金鋼 | Stainless steels ステンレス鋼 |
|---|---|---|---|
| ~10 (m/min) | ~10 (m/min) | ~10 (m/min) | ~10 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

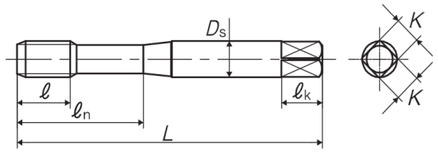
TYPE : 1



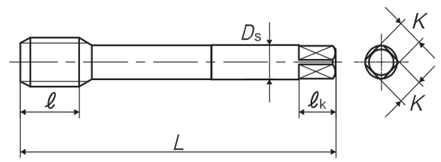

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1D

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | |
| M3 × 0.5 | D3 | Y74615 | 2.5P | 1.937 | 0.197 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3 × 0.5 | D3 | Y74015 | 1.5P | 1.937 | 0.197 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3.5 × 0.6 | D4 | Y74616 | 2.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M4 × 0.7 | D4 | Y74617 | 2.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M4 × 0.7 | D4 | Y74017 | 1.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M5 × 0.8 | D4 | Y74619 | 2.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M5 × 0.8 | D4 | Y74019 | 1.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M6 × 1 | D5 | Y74620 | 2.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M6 × 1 | D5 | Y74020 | 1.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | Y74621 | 2.5P | 2.718 | 0.433 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | Y74623 | 2.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | Y74023 | 1.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | Y74622 | 2.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | Y74022 | 1.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M10 × 1.5 | D6 | Y74625 | 2.5P | 2.937 | 0.512 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.5 | D6 | Y74025 | 1.5P | 2.937 | 0.512 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | Y74624 | 2.5P | 2.937 | 0.472 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX SS SP Spiral Fluted Taps for Stainless Steels

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M10 × 1.25 | D5 | Y74024 | 1.5P | 2.937 | 0.472 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M12 × 1.75 | D6 | Y74627 | 2.5P | 3.375 | 0.591 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.75 | D6 | Y74027 | 1.5P | 3.375 | 0.591 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D5 | Y74626 | 2.5P | 3.375 | 0.551 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D5 | Y74026 | 1.5P | 3.375 | 0.551 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M14 × 2 | D7 | Y74629 | 2.5P | 3.593 | 0.709 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| M14 × 2 | D7 | Y74029 | 1.5P | 3.593 | 0.709 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| M14 × 1.5 | D6 | Y74628 | 2.5P | 3.593 | 0.551 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| M14 × 1.5 | D6 | Y74028 | 1.5P | 3.593 | 0.551 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| M16 × 2 | D7 | Y74631 | 2.5P | 3.812 | 0.709 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| M16 × 2 | D7 | Y74031 | 1.5P | 3.812 | 0.709 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| M16 × 1.5 | D6 | Y74630 | 2.5P | 3.812 | 0.551 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| M16 × 1.5 | D6 | Y74030 | 1.5P | 3.812 | 0.551 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| M18 × 2.5 | D7 | Y74633 | 2.5P | 4.031 | 0.787 | - | 0.542 | 0.406 | 0.625 | 4 | 4 |
| M18 × 1.5 | D6 | Y74632 | 2.5P | 4.031 | 0.551 | - | 0.542 | 0.406 | 0.625 | 4 | 4 |
| M20 × 2.5 | D7 | Y74635 | 2.5P | 4.468 | 0.787 | - | 0.652 | 0.489 | 0.687 | 4 | 4 |
| M24 × 3 | D8 | Y74639 | 2.5P | 4.906 | 0.984 | - | 0.76 | 0.57 | 0.75 | 4 | 4 |
| For Unified Threads | | | | | | | | | | | |
| No.2-56UNC | GH2 | Y84623 | 2.5P | 1.75 | 0.157 | 0.437 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.3-48UNC | GH2 | Y84600 | 2.5P | 1.812 | 0.197 | 0.5 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH2 | Y84601 | 2.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH2 | Y84001 | 1.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH3 | Y84602 | 2.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH3 | Y84002 | 1.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH4 | Y84629 | 2.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH5 | Y84634 | 2.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH5 | Y84034 | 1.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-48UNF | GH2 | Y84683 | 2.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-48UNF | GH2 | Y84083 | 1.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.5-40UNC | GH2 | Y84603 | 2.5P | 1.937 | 0.236 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.5-40UNC | GH2 | Y84003 | 1.5P | 1.937 | 0.236 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH2 | Y84604 | 2.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH2 | Y84004 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH3 | Y84605 | 2.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH3 | Y84005 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH4 | Y84636 | 2.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH5 | Y84635 | 2.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH5 | Y84035 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH6 | Y84659 | 2.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH7 | Y84665 | 2.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-40UNF | GH2 | Y84684 | 2.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-40UNF | GH2 | Y84084 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-40UNF | GH3 | Y84685 | 2.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-40UNF | GH3 | Y84085 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.8-32UNC | GH2 | Y84606 | 2.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH2 | Y84006 | 1.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH3 | Y84607 | 2.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH3 | Y84007 | 1.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH4 | Y84638 | 2.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH5 | Y84637 | 2.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX SS SP Spiral Fluted Taps for Stainless Steels

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No.8-32UNC | GH5 | Y84037 | 1.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH6 | Y84660 | 2.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH7 | Y84667 | 2.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-36UNF | GH3 | Y84687 | 2.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.10-24UNC | GH2 | Y84624 | 2.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y84609 | 2.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y84009 | 1.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH5 | Y84639 | 2.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH5 | Y84039 | 1.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH6 | Y84690 | 2.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH7 | Y84669 | 2.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH2 | Y84611 | 2.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y84610 | 2.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y84010 | 1.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH4 | Y84630 | 2.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH5 | Y84640 | 2.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH5 | Y84040 | 1.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH6 | Y84662 | 2.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH7 | Y84670 | 2.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.12-24UNC | GH3 | Y84688 | 2.5P | 2.375 | 0.354 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |
| No.12-28UNF | GH3 | Y84689 | 2.5P | 2.375 | 0.276 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |
| 1/4-20UNC | GH3 | Y84613 | 2.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH3 | Y84013 | 1.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | Y84643 | 2.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | Y84043 | 1.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH7 | Y84673 | 2.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y84614 | 2.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y84014 | 1.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | Y84631 | 2.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH5 | Y84644 | 2.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH5 | Y84044 | 1.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH6 | Y84664 | 2.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH7 | Y84674 | 2.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | Y84615 | 2.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH3 | Y84015 | 1.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | Y84645 | 2.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | Y84045 | 1.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH7 | Y84675 | 2.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | Y84616 | 2.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | Y84016 | 1.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | Y84632 | 2.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | Y84646 | 2.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | Y84046 | 1.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH7 | Y84676 | 2.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | Y84617 | 2.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH3 | Y84017 | 1.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | Y84647 | 2.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | Y84047 | 1.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH7 | Y84677 | 2.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH7 | Y84077 | 1.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX SS SP Spiral Fluted Taps for Stainless Steels

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/8-24UNF | GH3 | Y84618 | 2.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | Y84018 | 1.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | Y84633 | 2.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | Y84033 | 1.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH5 | Y84648 | 2.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH5 | Y84048 | 1.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH7 | Y84678 | 2.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | Y84619 | 2.5P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH3 | Y84019 | 1.5P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH5 | Y84649 | 2.5P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH5 | Y84049 | 1.5P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH7 | Y84679 | 2.5P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | Y84620 | 2.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | Y84020 | 1.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | Y84650 | 2.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | Y84050 | 1.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH6 | Y84691 | 2.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH7 | Y84680 | 2.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH3 | Y84621 | 2.5P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH3 | Y84021 | 1.5P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | Y84651 | 2.5P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | Y84051 | 1.5P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH7 | Y84681 | 2.5P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | Y84622 | 2.5P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | Y84022 | 1.5P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH5 | Y84652 | 2.5P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH5 | Y84052 | 1.5P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH6 | Y84692 | 2.5P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH7 | Y84682 | 2.5P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 9/16-12UNC | GH3 | Y84653 | 2.5P | 3.593 | 0.709 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 9/16-12UNC | GH3 | Y84053 | 1.5P | 3.593 | 0.709 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 9/16-18UNF | GH3 | Y84654 | 2.5P | 3.593 | 0.512 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 9/16-18UNF | GH3 | Y84054 | 1.5P | 3.593 | 0.512 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 9/16-18UNF | GH5 | Y84698 | 2.5P | 3.593 | 0.512 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 5/8-11UNC | GH3 | Y84625 | 2.5P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-11UNC | GH3 | Y84025 | 1.5P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-11UNC | GH5 | Y84655 | 2.5P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-11UNC | GH5 | Y84055 | 1.5P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH3 | Y84626 | 2.5P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH3 | Y84026 | 1.5P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH5 | Y84656 | 2.5P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH5 | Y84056 | 1.5P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH7 | Y84672 | 2.5P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 3/4-10UNC | GH3 | Y84627 | 2.5P | 4.25 | 0.827 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-10UNC | GH3 | Y84027 | 1.5P | 4.25 | 0.827 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-10UNC | GH5 | Y84657 | 2.5P | 4.25 | 0.827 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-16UNF | GH3 | Y84628 | 2.5P | 4.25 | 0.591 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-16UNF | GH3 | Y84028 | 1.5P | 4.25 | 0.591 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-16UNF | GH5 | Y84658 | 2.5P | 4.25 | 0.591 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-16UNF | GH7 | Y84686 | 2.5P | 4.25 | 0.591 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX SS SP Spiral Fluted Taps for Stainless Steels

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/8-9UNC | GH4 | Y84695 | 2.5P | 4.687 | 0.827 | - | 0.697 | 0.523 | 0.75 | 4 | 4 |
| 7/8-14UNF | GH4 | Y84696 | 2.5P | 4.687 | 0.709 | - | 0.697 | 0.523 | 0.75 | 4 | 4 |
| 7/8-14UNF | GH6 | Y84694 | 2.5P | 4.687 | 0.709 | - | 0.697 | 0.523 | 0.75 | 4 | 4 |
| 1 -8UNC | GH4 | Y84697 | 2.5P | 5.125 | 0.984 | - | 0.8 | 0.6 | 0.812 | 4 | 4 |
| 1 -12UNF | GH4 | Y84668 | 2.5P | 5.125 | 0.709 | - | 0.8 | 0.6 | 0.812 | 4 | 4 |
| 1 1/8-7UNC | GH6 | Y84701 | 2.5P | 5.437 | 1.181 | - | 0.896 | 0.672 | 0.875 | 4 | 4 |
| 1 1/8-12UNF | GH5 | Y84702 | 2.5P | 5.437 | 0.787 | - | 0.896 | 0.672 | 0.875 | 4 | 4 |
| 1 1/4-7UNC | GH6 | Y84703 | 2.5P | 5.75 | 1.181 | - | 1.021 | 0.766 | 1 | 4 | 4 |
| 1 1/4-12UNF | GH5 | Y84705 | 2.5P | 5.75 | 0.787 | - | 1.021 | 0.766 | 1 | 4 | 4 |
| 1 3/8-6UNC | GH6 | Y84706 | 2.5P | 6.062 | 1.575 | - | 1.108 | 0.831 | 1.062 | 4 | 4 |
| 1 3/8-12UNF | GH5 | Y84707 | 2.5P | 6.062 | 0.787 | - | 1.108 | 0.831 | 1.062 | 4 | 4 |
| 1 1/2-6UNC | GH6 | Y84709 | 2.5P | 6.375 | 1.575 | - | 1.233 | 0.925 | 1.125 | 4 | 4 |
| 1 1/2-12UNF | GH5 | Y84711 | 2.5P | 6.375 | 0.787 | - | 1.233 | 0.925 | 1.125 | 4 | 4 |
| 1 3/4-5UNC | GH7 | Y84714 | 2.5P | 7 | 1.772 | - | 1.43 | 1.072 | 1.25 | 4 | 4 |
| 2 -4 1/2UNC | GH7 | Y84715 | 2.5P | 7.625 | 1.969 | - | 1.644 | 1.233 | 1.375 | 4 | 4 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square
L | ℓ | ℓn | Ds | K | ℓk

Spiral Fluted Tap Series for blind hole

ANSI Length

# ZELX TI SP

Spiral Fluted Taps for Titanium Alloys

ANSI

### Specification

HSS-P | NI Nitride | Synchronized

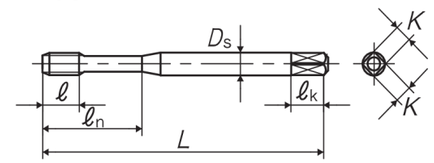
■Spiral fluted tap suitable for titanium alloys which, including titanium as the main composition, are tough, light and heat resistant.

### Tapping Speed depending on Materials

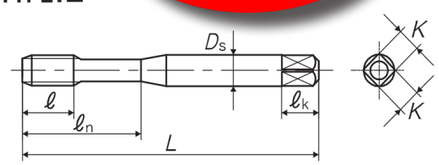
Titanium alloys チタン合金 5~10 (m/min)

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

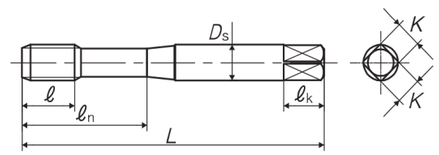
TYPE : 1



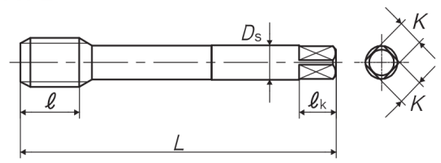

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1D

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric threads | | | | | | | | | | | |
| M2.5 × 0.45 | D3 | Y87700 | 3P | 1.812 | 0.157 | 0.5 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3 × 0.5 | D3 | Y87701 | 3P | 1.937 | 0.197 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3.5 × 0.6 | D4 | Y87702 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M4 × 0.7 | D4 | Y87703 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M5 × 0.8 | D4 | Y87704 | 3P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M6 × 1 | D5 | Y87705 | 3P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | Y87706 | 3P | 2.718 | 0.433 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | Y87708 | 3P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | Y87707 | 3P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M10 × 1.5 | D6 | Y87710 | 3P | 2.937 | 0.512 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | Y87709 | 3P | 2.937 | 0.472 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M12 × 1.75 | D6 | Y87712 | 3P | 3.375 | 0.591 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D5 | Y87711 | 3P | 3.375 | 0.551 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX TI SP Spiral Fluted Taps for Titanium Alloys

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | |
| No.2-56UNC | GH2 | Y87623 | 3P | 1.75 | 0.157 | 0.437 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH2 | Y87601 | 3P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH4 | Y87612 | 3P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH4 | Y87001 | 1.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH3 | Y87605 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH3 | Y87606 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH4 | Y87608 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH5 | Y87635 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.8-32UNC | GH3 | Y87607 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH3 | Y87007 | 1.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH4 | Y87629 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH5 | Y87637 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH6 | Y87660 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH7 | Y87667 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y87609 | 3P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y81608 | 1.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y87610 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y87010 | 1.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH4 | Y87630 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH5 | Y87640 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH6 | Y87661 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH7 | Y87670 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| 1/4-20UNC | GH3 | Y87613 | 3P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH3 | Y87628 | 1.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y87614 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y87014 | 1.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | Y87631 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH5 | Y87644 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH6 | Y87662 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH7 | Y87674 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | Y87615 | 3P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH3 | Y87695 | 1.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | Y87616 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | Y87016 | 1.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | Y87632 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | Y87646 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH6 | Y87663 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH7 | Y87676 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | Y87617 | 3P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH3 | Y87611 | 1.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | Y87618 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | Y87018 | 1.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | Y87633 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH5 | Y87648 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH6 | Y87664 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH7 | Y87678 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | Y87619 | 3P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH3 | Y81629 | 1.5P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | Y87620 | 3P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX TI SP Spiral Fluted Taps for Titanium Alloys

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/16-20UNF | GH3 | Y87020 | 1.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | Y87650 | 3P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH3 | Y87621 | 3P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH3 | Y87021 | 1.5P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | Y87626 | 3P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | Y87622 | 3P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | Y87023 | 1.5P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH5 | Y87652 | 3P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

# Spiral Fluted Tap Series for blind hole

ANSI

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

ANSI Length

# ZELX NI SP

Spiral Fluted Taps for Nickel Base Alloys

## Specification

HSS-P | NX Nitride/Oxide | Synchronized

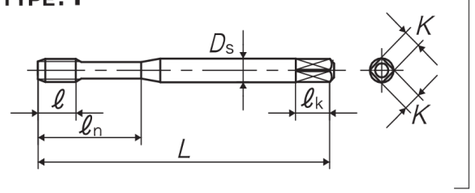
■ZELX NI SP is the spiral fluted tap for nickel base alloys which, with nickel as main composition, have much higher corrosion resistance and much higher heat resistance than steels.

## Tapping Speed depending on Materials

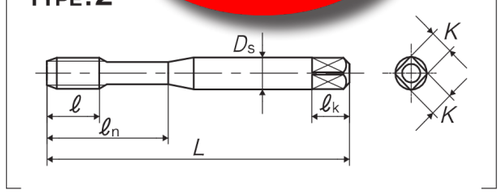
| Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Stainless steels ステンレス鋼 | Nickel base alloys ニッケル基合金 |
|---|---|---|---|
| 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~10 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

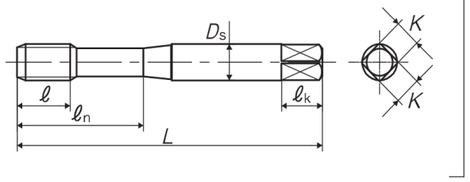
TYPE : 1



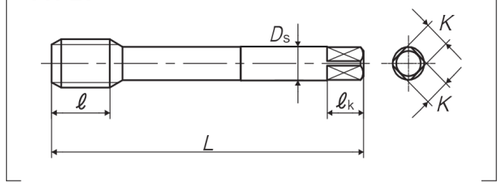

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1D

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | |
| M2.5 × 0.45 | D3 | Y88320 | 3P | 1.812 | 0.157 | 0.5 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3 × 0.5 | D3 | Y88321 | 3P | 1.937 | 0.197 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3.5 × 0.6 | D4 | Y88322 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M4 × 0.7 | D4 | Y88323 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M5 × 0.8 | D4 | Y88324 | 3P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M6 × 1 | D5 | Y88325 | 3P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | Y88326 | 3P | 2.718 | 0.433 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | Y88328 | 3P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | Y88327 | 3P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M10 × 1.5 | D6 | Y88330 | 3P | 2.937 | 0.512 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | Y88329 | 3P | 2.937 | 0.472 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M12 × 1.75 | D6 | Y88332 | 3P | 3.375 | 0.591 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D5 | Y88331 | 3P | 3.375 | 0.551 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| For Unified Threads | | | | | | | | | | | |
| No.2-56UNC | GH2 | Y87523 | 3P | 1.75 | 0.157 | 0.437 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH2 | Y87501 | 3P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH2 | Y87583 | 1.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No.4-40UNC | GH3 | Y87502 | 3P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH3 | Y87002 | 1.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH4 | Y87512 | 3P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH5 | Y87534 | 3P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH5 | Y87072 | 1.5P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.5-40UNC | GH2 | Y87504 | 3P | 1.937 | 0.236 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH2 | Y87006 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH3 | Y87505 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH3 | Y87005 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH4 | Y87508 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH5 | Y87535 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH5 | Y87035 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH6 | Y87559 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH7 | Y87565 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.8-32UNC | GH2 | Y87506 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH3 | Y87507 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH3 | Y87580 | 1.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH4 | Y87529 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH5 | Y87537 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH5 | Y87037 | 1.5P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH6 | Y87560 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH7 | Y87567 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y87509 | 3P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y87009 | 1.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH5 | Y87539 | 3P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH5 | Y87039 | 1.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH2 | Y87511 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y87510 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y81556 | 1.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH4 | Y87530 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH5 | Y87540 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH5 | Y87040 | 1.5P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH6 | Y87561 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH7 | Y87570 | 3P | 2.375 | 0.276 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| 1/4-20UNC | GH3 | Y87513 | 3P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH3 | Y87013 | 1.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | Y87543 | 3P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | Y87043 | 1.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y87514 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y87579 | 1.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | Y87531 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | Y87031 | 1.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH5 | Y87544 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH5 | Y87443 | 1.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH6 | Y87562 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH7 | Y87574 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | Y87515 | 3P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH3 | Y87015 | 1.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | Y87545 | 3P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | Y87045 | 1.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX NI SP Spiral Fluted Taps for Nickel Base Alloys

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/16-24UNF | GH3 | Y87516 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | Y87577 | 1.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | Y87532 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | Y87032 | 1.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | Y87546 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH6 | Y87563 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH7 | Y87576 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | Y87517 | 3P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH3 | Y87017 | 1.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | Y87547 | 3P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | Y87047 | 1.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | Y87518 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | Y87575 | 1.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | Y87533 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | Y87033 | 1.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH5 | Y87548 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH5 | Y87048 | 1.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH6 | Y87564 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH7 | Y87578 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | Y87519 | 3P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH3 | Y87019 | 1.5P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH5 | Y87549 | 3P | 3.156 | 0.591 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | Y87520 | 3P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | Y87573 | 1.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | Y87550 | 3P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | Y87050 | 1.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH3 | Y87521 | 3P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH3 | Y87500 | 1.5P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | Y87551 | 3P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | Y87051 | 1.5P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH7 | Y87581 | 3P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | Y87522 | 3P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | Y87022 | 1.5P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH5 | Y87552 | 3P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH7 | Y87582 | 3P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 9/16-18UNF | GH3 | Y88554 | 3P | 3.593 | 0.512 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 9/16-18UNF | GH5 | Y88542 | 3P | 3.593 | 0.512 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 5/8-11UNC | GH3 | Y87525 | 3P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 5/8-11UNC | GH3 | Y87025 | 1.5P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 5/8-11UNC | GH5 | Y87555 | 3P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 5/8-11UNC | GH7 | Y87585 | 3P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 5/8-18UNF | GH3 | Y87526 | 3P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 5/8-18UNF | GH3 | Y81508 | 1.5P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 5/8-18UNF | GH4 | Y87536 | 3P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 5/8-18UNF | GH5 | Y87556 | 3P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 5/8-18UNF | GH7 | Y87586 | 3P | 3.812 | 0.512 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 3/4-10UNC | GH3 | Y87527 | 3P | 4.25 | 0.827 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-10UNC | GH3 | Y87027 | 1.5P | 4.25 | 0.827 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-10UNC | GH5 | Y87557 | 3P | 4.25 | 0.827 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-16UNF | GH3 | Y87528 | 3P | 4.25 | 0.591 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |
| 3/4-16UNF | GH5 | Y87558 | 3P | 4.25 | 0.591 | - | 0.59 | 0.442 | 0.687 | 4 | 4 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Spiral Fluted Tap Series for blind hole

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

ANSI Length

# ZELX TI LHSP

Spiral Fluted Taps for Titanium Alloys, Through Hole Use (with LH Spiral Flutes)

ANSI

### Specification

HSS-P | NI Nitride | Synchronized

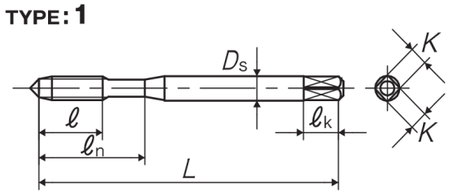
■Suitable for titanium alloys which, including titanium as the main composition, are tough, light and heat resistant.

### Tapping Speed depending on Materials

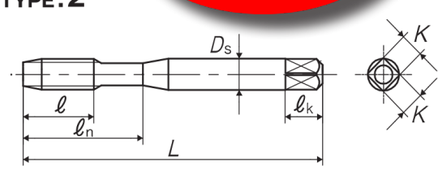
Titanium alloys チタン合金 5~10 (m/min)

DON'T SEE IT? GIVE US A CALL! 847.593.6000

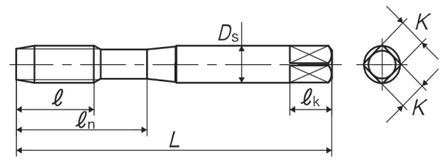
TYPE: 1



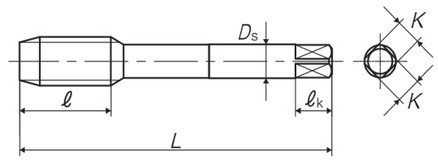

TYPE: 2




TYPE: 3




TYPE: 4




Segment : 1T

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | |
| M2.5 × 0.45 | D3 | Y85700 | 5P | 1.812 | 0.295 | 0.5 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3 × 0.5 | D3 | Y85701 | 5P | 1.937 | 0.374 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3.5 × 0.6 | D4 | Y85702 | 5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M4 × 0.7 | D4 | Y85703 | 5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M5 × 0.8 | D4 | Y85704 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M6 × 1 | D5 | Y85705 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | Y85706 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | Y85708 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | Y85707 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M10 × 1.5 | D6 | Y85710 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | Y85709 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M12 × 1.75 | D6 | Y85712 | 5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D5 | Y85711 | 5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| For Unified Threads | | | | | | | | | | | |
| No.2-56UNC | GH2 | Y85623 | 5P | 1.75 | 0.256 | 0.437 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH2 | Y85601 | 5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.5-40UNC | GH2 | Y85603 | 5P | 1.937 | 0.374 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX TI LHSP Spiral Fluted Taps for Titanium Alloys, Through Hole Use（with LH spiral flutes）

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No.6-32UNC | GH3 | Y85605 | 5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH5 | Y85635 | 5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.8-32UNC | GH3 | Y85607 | 5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH4 | Y85629 | 5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH5 | Y85637 | 5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH6 | Y85660 | 5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH7 | Y85667 | 5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y85609 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH5 | Y85639 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y85610 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH4 | Y85630 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH5 | Y85640 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH6 | Y85661 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH7 | Y85670 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| 1/4-20UNC | GH3 | Y85613 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | Y85643 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y85614 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | Y85631 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH5 | Y85644 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH6 | Y85662 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH7 | Y85674 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | Y85615 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | Y85645 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | Y85616 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | Y85632 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | Y85646 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH6 | Y85663 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH7 | Y85676 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | Y85617 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | Y85647 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | Y85618 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | Y85633 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH5 | Y85648 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH6 | Y85664 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH7 | Y85678 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | Y85619 | 5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH5 | Y85649 | 5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | Y85620 | 5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | Y85650 | 5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH3 | Y85621 | 5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | Y85651 | 5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | Y85622 | 5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH5 | Y85652 | 5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 5/8-11UNC | GH3 | Y85625 | 5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH3 | Y85626 | 5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 3/4-10UNC | GH3 | Y85627 | 5P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 4 |
| 3/4-16UNF | GH3 | Y85628 | 5P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 4 |



Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Spiral Fluted Tap Series for blind hole

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

Z-PRO DIN Length

# HVSP

Z-PRO
Hybrid Value Spiral Fluted Taps for Steels

ANSI

### Specification

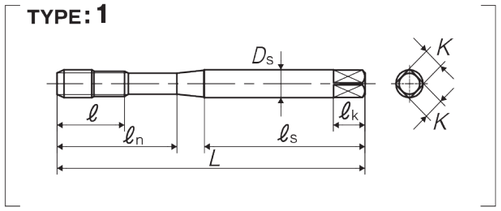
HSS | OX Oxide

■The HVSP is a spiral flute tap for blind hole tapping where problems existed in chipping the cutting chamfer. It enables trouble free perfect threading.

### Tapping Speeds depending on Materials

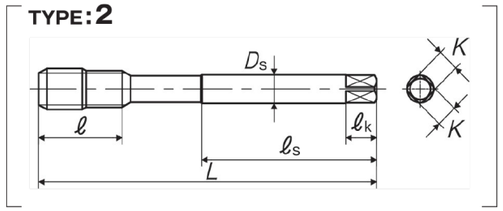
| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Alloy steels 合金鋼 | Thermal refined steels 調質鋼 | Stainless steels ステンレス鋼 | Cast steels 鋳鋼 |
|---|---|---|---|---|---|---|
| 3~12 (m/min) | 3~12 (m/min) | 3~12 (m/min) | 3~12 (m/min) | ~5 (m/min) 25~35HRC | ~5 (m/min) | 3~12 (m/min) |

TYPE : 1

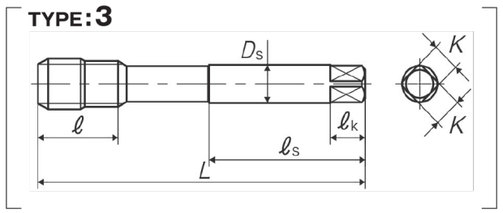



DON'T SEE IT?
GIVE US A CALL!
847.593.6000

TYPE : 2




TYPE : 3




Segment : 1D

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M3 × 0.5 | D4 | SS3.0G4EEXJ | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3 × 0.35 | D4 | SS3.0D4EEXJ | 2.5P | 2.205 | 0.256 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M4 × 0.7 | D5 | SS4.0I5EEXJ | 2.5P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M4 × 0.5 | D4 | SS4.0G4EEXJ | 2.5P | 2.48 | 0.354 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M5 × 0.8 | D5 | SS5.0K5EEXJ | 2.5P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M5 × 0.5 | D4 | SS5.0G4EEXJ | 2.5P | 2.756 | 0.354 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M6 × 1 | D6 | SS6.0M6EEXJ | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 1 |
| M6 × 0.75 | D6 | SS6.0J6EEXJ | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 1 |
| M6 × 0.5 | D4 | SS6.0G4EEXJ | 2.5P | 3.15 | 0.354 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 1 |
| M8 × 1.25 | D7 | SS8.0N7EEXJ | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 1 |
| M8 × 1 | D6 | SS8.0M6EEXJ | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 1 |
| M10 × 1.5 | D8 | SS010O8EEXJ | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 1 |
| M10 × 1.25 | D7 | SS010N7EEXJ | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 1 |
| M10 × 1 | D6 | SS010M6EEXJ | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 1 |
| M12 × 1.75 | D8 | SS012P8EEXJ | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 2 |
| M12 × 1.5 | D7 | SS012O7EEXJ | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 2 |
| M12 × 1.25 | D7 | SS012N7EEXJ | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 2 |



Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## HVSP Z-PRO Hybrid Value Spiral Fluted Taps for Steels

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M14 × 2 | D9 | SS014Q9EEXJ | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 2 |
| M14 × 1.5 | D8 | SS014O8EEXJ | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 2 |
| M16 × 2 | D9 | SS016Q9EEXJ | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 2 |
| M16 × 1.5 | D8 | SS016O8EEXJ | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 2 |
| M18 × 2.5 | D9 | SS018R9EEXJ | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 2 |
| M18 × 1.5 | D8 | SS018O8EEXJ | 2.5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 2 |
| M20 × 2.5 | D9 | SS020R9EEXJ | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 3 |
| M20 × 1.5 | D8 | SS020O8EEXJ | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 3 |
| M22 × 2.5 | D9 | SS022R9EEXJ | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 3 |
| M22 × 1.5 | D8 | SS022O8EEXJ | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 3 |
| M24 × 3 | D9 | SS024S9EEXJ | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 3 |
| M24 × 1.5 | D8 | SS024O8EEXJ | 2.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 3 |
| M27 × 3 | D10 | SS027SOEEXJ | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 3 |
| M27 × 1.5 | D8 | SS027O8EEXJ | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 3 |
| M30 × 3.5 | D10 | SS030TOEEXJ | 2.5P | 7.087 | 1.732 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 3 |
| M30 × 3 | D10 | SS030SOEEXJ | 2.5P | 7.087 | 1.732 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 3 |
| M30 × 1.5 | D8 | SS030O8EEXJ | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 3 |
| M33 × 3.5 | D10 | SS033TOEEXJ | 2.5P | 7.087 | 1.732 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 3 |
| M33 × 3 | D10 | SS033SOEEXJ | 2.5P | 7.087 | 1.732 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 3 |
| M36 × 4 | D10 | SS036UOEEXJ | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 3 |
| M36 × 3 | D10 | SS036SOEEXJ | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 3 |
| M39 × 4 | D10 | SS039UOEEXJ | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 3 |
| M39 × 3 | D10 | SS039SOEEXJ | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 3 |
| M42 × 4.5 | D10 | SS042VOEEXJ | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 3 |
| M42 × 3 | D10 | SS042SOEEXJ | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 3 |
| M48 × 5 | D11 | SS048W-EEXJ | 2.5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 3 |
| M48 × 3 | D10 | SS048SOEEXJ | 2.5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 3 |
| For Unified Threads | | | | | | | | | | | | |
| 1 -8UNC | 2BX | SSU16XYEEXCJ | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 3 |
| 1 -12UNF | 2BX | SSU16SYEEXCJ | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 3 |
| 1 1/8-7UNC | 2BX | SSU18YYEEXCJ | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 3 |
| 1 1/8-8UN | 2BX | SSU18XYEEXCJ | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 3 |
| 1 1/8-12UNF | 2BX | SSU18SYEEXCJ | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 3 |
| 1 1/4-7UNC | 2BX | SSU20YYEEXCJ | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 3 |
| 1 1/4-8UN | 2BX | SSU20XYEEXCJ | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 3 |
| 1 1/4-12UNF | 2BX | SSU20SYEEXCJ | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 3 |
| 1 3/8-6UNC | 2BX | SSU22ZYEEXCJ | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 3 |
| 1 3/8-8UN | 2BX | SSU22XYEEXCJ | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 3 |
| 1 3/8-12UNF | 2BX | SSU22SYEEXCJ | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 3 |
| 1 1/2-6UNC | 2BX | SSU24ZYEEXCJ | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 3 |
| 1 1/2-8UN | 2BX | SSU24XYEEXCJ | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 3 |
| 1 1/2-12UNF | 2BX | SSU24SYEEXCJ | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 3 |
| 1 3/4-5UNC | 2BX | SSU280YEEXCJ | 2.5P | 8.661 | 2.559 | - | 4.409 | 1.43 | 1.072 | 1.25 | 4 | 3 |
| 1 3/4-8UN | 2BX | SSU28XYEEXCJ | 2.5P | 8.661 | 2.559 | - | 4.409 | 1.43 | 1.072 | 1.25 | 4 | 3 |
| 1 3/4-12UN | 2BX | SSU28SYEEXCJ | 2.5P | 8.661 | 2.559 | - | 4.409 | 1.43 | 1.072 | 1.25 | 4 | 3 |
| 2 -4 1/2UNC | 2BX | SSU329YEEXCJ | 2.5P | 9.843 | 2.874 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 3 |
| 2 -8UN | 2BX | SSU32XYEEXCJ | 2.5P | 9.843 | 2.874 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 3 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |



DIN Length

# PM-SP

## Spiral Fluted Taps for Hard-to-Machine Materials

ANSI

### Specification

HSS-P | DIN Length

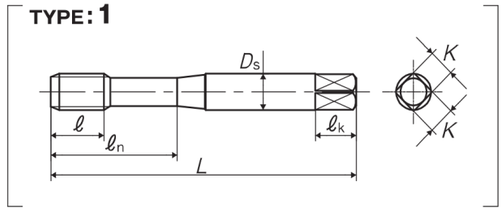
■Spiral fluted tap suitable for tapping hard steels with hardness between 25-45HRC such as forgings and thermal refined steels of high carbon steels and alloy steels, and mold steels.

### Tapping Speeds depending on Materials

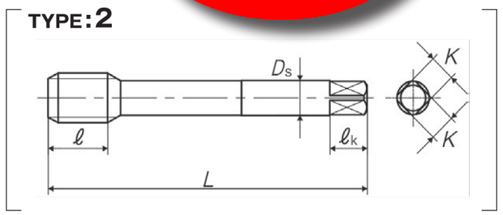
| High carbon steels 高炭素鋼 | Thermal refined steels 調質鋼 | Thermal refined steels 調質鋼 |
|---|---|---|
| 5~10 (m/min) | ~5 (m/min) | ~5 (m/min) |
| | 25~35HRC | 35~45HRC |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

TYPE : 1




TYPE : 2




Segment : 1D

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | |
| 5/16-18UNC | GH4 | SAU05O4DPB | 2.75P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 1 |
| 5/16-24UNF | GH4 | SAU05M4DPB | 2.75P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 1 |
| 3/8-16UNC | GH4 | SAU06P4DPB | 2.75P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 1 |
| 3/8-24UNF | GH4 | SAU06M4DPB | 2.75P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 1 |
| 7/16-14UNC | GH6 | SAU07Q6DPB | 2.75P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 2 |
| 7/16-20UNF | GH4 | SAU07N4DPB | 2.75P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 2 |
| 1/2-13UNC | GH6 | SAU08R6DPB | 2.75P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 2 |
| 1/2-20UNF | GH4 | SAU08N4DPB | 2.75P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 2 |
| 5/8-11UNC | GH6 | SAU10U6DPB | 2.75P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 2 |
| 5/8-18UNF | GH4 | SAU10O4DPB | 2.75P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 2 |
| 3/4-10UNC | GH6 | SAU12V6DPB | 2.75P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 2 |
| 3/4-16UNF | GH6 | SAU12P6DPB | 2.75P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 2 |
| 1 -8UNC | GH7 | SAU16X7DPB | 2.75P | 5.125 | 1.496 | - | 0.8 | 0.6 | 0.812 | 3 | 2 |
| 1 -12UNF | GH6 | SAU16S6DPB | 2.75P | 5.125 | 1.496 | - | 0.8 | 0.6 | 0.812 | 3 | 2 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

ANSI

DIN Length

# AL-SP

## Spiral Fluted Taps for Aluminum

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

### Specification

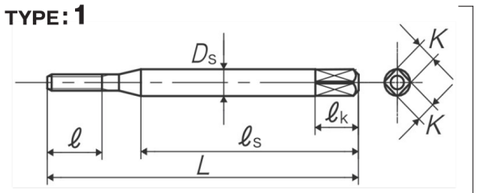
HSS | NI Nitride | <2D

■In aluminum die casting and aluminum casting tapping, AL-SP solves such problems as chip jamming, chip clogging, and torn threads.

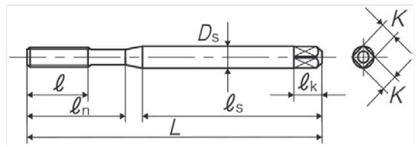
### Tapping Speed depending on Materials

| Brass 黄銅 | Brass castings 黄銅鋳物 | Bronze 青銅 | Wrought aluminum アルミ圧延材 | Aluminum alloy castings アルミ合金鋳物 | Magnesium alloy die castings マグネシウム合金鋳物 | Zinc alloy castings 亜鉛合金鋳物 |
|---|---|---|---|---|---|---|
| 10~25 (m/min) | 10~25 (m/min) | 10~25 (m/min) | 10~25 (m/min) | 10~25 (m/min) | 10~25 (m/min) | 10~25 (m/min) |

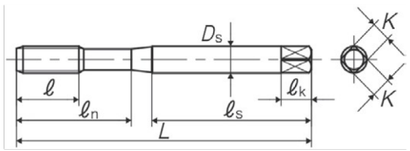
TYPE : 1



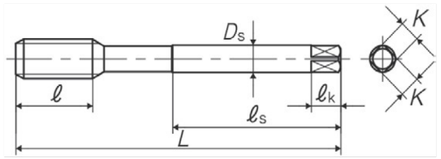

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1D

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M3 × 0.5 | D3 | 386528M | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3.5 × 0.6 | D4 | 386529M | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M4 × 0.7 | D4 | 386530M | 2.5P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M5 × 0.8 | D4 | 386531M | 2.5P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M6 × 1 | D5 | 386532M | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | 386533M | 2.5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | 386535M | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | 386534M | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M10 × 1.5 | D6 | 386537M | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | 386536M | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M12 × 1.75 | D6 | 386540M | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.5 | D5 | 386539M | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D5 | 386538M | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## AL-SP Spiral Fluted Taps for Aluminum

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | | |
| No.2-56UNC | GH2 | 386500M | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH2 | 386501M | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH2 | 386502M | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH3 | 386503M | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.8-32UNC | GH3 | 386504M | 2.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| No.10-24UNC | GH3 | 386505M | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.10-32UNF | GH3 | 386506M | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| 1/4-20UNC | GH3 | 386507M | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | 386508M | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | 386509M | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | 386511M | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | 386512M | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | 386513M | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | 386514M | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | 386515M | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | 386516M | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | 386517M | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | 386518M | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | 386519M | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | 386520M | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH5 | 386521M | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | 386522M | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | 386523M | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH3 | 386524M | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | 386525M | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | 386526M | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH5 | 386527M | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

ANSI Length

# ISP

## Spiral Fluted Taps for General Purpose

### Specification

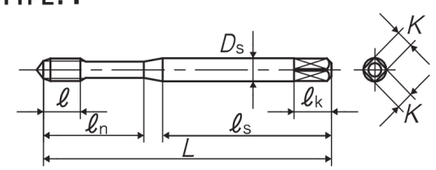
HSS | 0X Oxide | <2D

■Suitable for low speed tapping of steels. For manual use and drilling machine use.

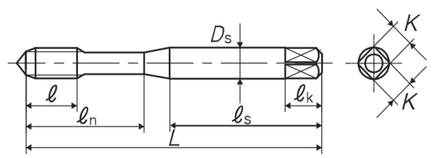
### Tapping Speed depending on Materials

Low carbon steels 低炭素鋼 ~5 (m/min)

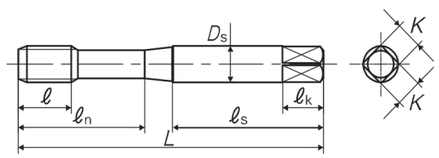
TYPE:1




TYPE:2




TYPE:3




Segment : 1C

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | | |
| No.6-32UNC | - | UAUN6JXHEX | 2.5P | 2 | 0.374 | 0.669 | 1.201 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.8-32UNC | - | UAUN8JXHEX | 2.5P | 2.125 | 0.374 | 0.866 | 1.339 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.10-24UNC | - | UAUNAMXHEX | 2.5P | 2.375 | 0.512 | 0.866 | 1.339 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| 1/4-20UNC | - | UAU04NXHEX | 2.5P | 2.5 | 0.591 | 1.024 | 1.22 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | - | UAU05OXHEX | 2.5P | 2.718 | 0.669 | 1.004 | 1.378 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | - | UAU06PXHEX | 2.5P | 2.937 | 0.748 | 1.059 | 1.496 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| For Unified Threads (In blister package) | | | | | | | | | | | | |
| No.6-32UNC | - | UAUN6JXHEXR | 2.5P | 2 | 0.374 | 0.669 | 1.201 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.8-32UNC | - | UAUN8JXHEXR | 2.5P | 2.125 | 0.374 | 0.866 | 1.339 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.10-24UNC | - | UAUNAMXHEXR | 2.5P | 2.375 | 0.512 | 0.866 | 1.339 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| 1/4-20UNC | - | UAU04NXHEXR | 2.5P | 2.5 | 0.591 | 1.024 | 1.22 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | - | UAU05OXHEXR | 2.5P | 2.718 | 0.669 | 1.004 | 1.378 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | - | UAU06PXHEXR | 2.5P | 2.937 | 0.748 | 1.059 | 1.496 | 0.381 | 0.286 | 0.437 | 3 | 3 |

Blister Package

・This product is different from JIS products in shape and dimensions, please be careful when using.

ANSI
DON'T SEE IT? GIVE US A CALL! 847.593.6000
Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

DIN Length

# SP

## Spiral Fluted Taps

### Specification

HSS

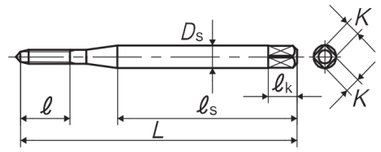
■Spiral flutes continuously curl the chips and discharge them back toward the shank of the tap. Spiral flute taps are the most suitable for blind hole processing.

### Tapping Speed depending on Materials

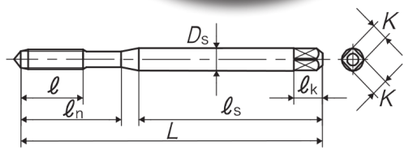
Medium carbon steels 中炭素鋼 5~10 (m/min)

High carbon steels 高炭素鋼 5~10 (m/min)

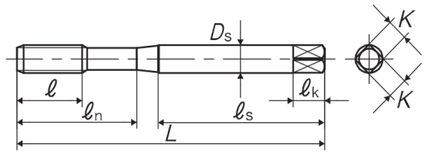
TYPE:1



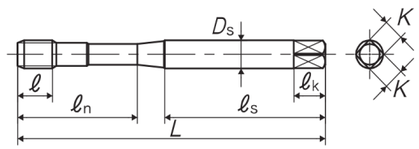

TYPE:2



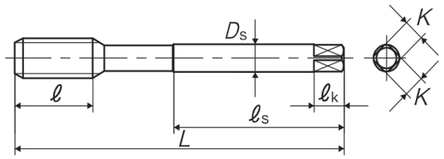

TYPE:3



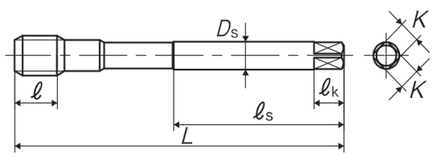

TYPE:4




TYPE:5




TYPE:6




Segment : 1C

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M2 × 0.4 | D3 | SS2.0E3NEB | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| M2.2 × 0.45 | D3 | SS2.2F3NEB | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| M2.5 × 0.45 | D3 | SS2.5F3NEB | 2.5P | 2.205 | 0.354 | 0.693 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| M2.6 × 0.45 | D3 | SS2.6F3NEB | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| M3 × 0.5 | D3 | SS3.0G3NEB | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3.5 × 0.6 | D4 | SS3.5H4NEB | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

ANSI
DON'T SEE IT? GIVE US A CALL! 847.593.6000
Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

# Spiral Fluted Tap Series for blind hole

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## SP Spiral Fluted Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M4 × 0.7 | D4 | SS4.0I4NEB | 2.5P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M5 × 0.8 | D4 | SS5.0K4NEB | 2.5P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M6 × 1 | D5 | SS6.0M5NEB | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | SS7.0M5NEB | 2.5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 0.75 | D4 | SS7.0J4NEB | 2.5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 0.5 | D4 | SS7.0G4NEB | 2.5P | 3.543 | 0.394 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 4 |
| M8 × 1.25 | D5 | SS8.0N5NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | SS8.0M5NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 0.75 | D4 | SS8.0J4NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 0.5 | D4 | SS8.0G4NEB | 2.5P | 3.543 | 0.394 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 4 |
| M9 × 1.25 | D5 | SS9.0N5NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M9 × 1 | D5 | SS9.0M5NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.5 | D6 | SS010O6NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | SS010N5NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1 | D5 | SS010M5NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 0.75 | D4 | SS010J4NEB | 2.5P | 3.937 | 0.512 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 4 |
| M11 × 1.5 | D6 | SS011O6NEB | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| M12 × 1.75 | D6 | SS012P6NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1.5 | D6 | SS012O6NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1.25 | D6 | SS012N6NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1 | D5 | SS012M5NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M14 × 2 | D7 | SS014Q7NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1.5 | D6 | SS014O6NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1.25 | D6 | SS014N6NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1 | D5 | SS014M5NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M16 × 2 | D7 | SS016Q7NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M16 × 1.5 | D6 | SS016O6NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M16 × 1 | D5 | SS016M5NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M18 × 2.5 | D7 | SS018R7NEB | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 5 |
| M18 × 2 | D7 | SS018Q7NEB | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 5 |
| M18 × 1.5 | D6 | SS018O6NEB | 2.5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 6 |
| M18 × 1 | D5 | SS018M5NEB | 2.5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 6 |
| M20 × 2.5 | D7 | SS020R7NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 5 |
| M20 × 2 | D7 | SS020Q7NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 5 |
| M20 × 1.5 | D6 | SS020O6NEB | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 6 |
| M20 × 1 | D5 | SS020M5NEB | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 6 |
| M22 × 2.5 | D7 | SS022R7NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| M22 × 2 | D7 | SS022Q7NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| M22 × 1.5 | D6 | SS022O6NEB | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 6 |
| M22 × 1 | D5 | SS022M5NEB | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 6 |
| M24 × 3 | D8 | SS024S8NEB | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 5 |
| M24 × 2 | D7 | SS024Q7NEB | 2.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M24 × 1.5 | D6 | SS024O6NEB | 2.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M24 × 1 | D5 | SS024M5NEB | 2.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M25 × 1.5 | D6 | SS025O6NEB | 2.5P | 6.299 | 1.063 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 6 |
| M26 × 1.5 | D6 | SS026O6NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 3 | D8 | SS027S8NEB | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| M27 × 2 | D7 | SS027Q7NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1.5 | D6 | SS027O6NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |


・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## SP Spiral Fluted Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M27 × 1 | D5 | SS027M5NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 2 | D7 | SS028Q7NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1.5 | D6 | SS028O6NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1 | D5 | SS028M5NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M30 × 3.5 | D9 | SS030T9NEB | 2.5P | 7.087 | 1.732 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M30 × 2 | D7 | SS030Q7NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1.5 | D6 | SS030O6NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1 | D5 | SS030M5NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M32 × 2 | D7 | SS032Q7NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1.5 | D6 | SS032O6NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1 | D5 | SS032M5NEB | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M33 × 3.5 | D9 | SS033T9NEB | 2.5P | 7.087 | 1.732 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| M33 × 2 | D7 | SS033Q7NEB | 2.5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1.5 | D6 | SS033O6NEB | 2.5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1 | D5 | SS033M5NEB | 2.5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M36 × 4 | D9 | SS036U9NEB | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 3 | D8 | SS036S8NEB | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 2 | D7 | SS036Q7NEB | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1.5 | D6 | SS036O6NEB | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1 | D5 | SS036M5NEB | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M39 × 4 | D9 | SS039U9NEB | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 3 | D8 | SS039S8NEB | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 2 | D7 | SS039Q7NEB | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1.5 | D6 | SS039O6NEB | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1 | D5 | SS039M5NEB | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M42 × 4.5 | D10 | SS042VONEB | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 5 |
| M42 × 2 | D7 | SS042Q7NEB | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1.5 | D6 | SS042O6NEB | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1 | D5 | SS042M5NEB | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M45 × 4.5 | D10 | SS045VONEB | 2.5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 3 | D8 | SS045S8NEB | 2.5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 2 | D7 | SS045Q7NEB | 2.5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1.5 | D6 | SS045O6NEB | 2.5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1 | D5 | SS045M5NEB | 2.5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M48 × 5 | D11 | SS048W-NEB | 2.5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 3 | D9 | SS048S9NEB | 2.5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 2 | D7 | SS048Q7NEB | 2.5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1.5 | D7 | SS048O7NEB | 2.5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1 | D6 | SS048M6NEB | 2.5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| For Unified Threads | | | | | | | | | | | | |
| No.2-56UNC | GH1 | SSUN2E1NEB | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH2 | SSUN2E2NEB | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-64UNF | GH1 | SSUN2D1NEB | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-64UNF | GH2 | SSUN2D2NEB | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.3-48UNC | GH1 | SSUN3F1NEB | 2.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-48UNC | GH2 | SSUN3F2NEB | 2.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-56UNF | GH1 | SSUN3E1NEB | 2.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-56UNF | GH2 | SSUN3E2NEB | 2.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |


・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## SP Spiral Fluted Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No.4-40UNC | GH1 | SSUN4H1NEB | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-40UNC | GH2 | SSUN4H2NEB | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-48UNF | GH1 | SSUN4F1NEB | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-48UNF | GH2 | SSUN4F2NEB | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH1 | SSUN5H1NEB | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH2 | SSUN5H2NEB | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH1 | SSUN5G1NEB | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH2 | SSUN5G2NEB | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-32UNC | GH1 | SSUN6J1NEB | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH2 | SSUN6J2NEB | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH3 | SSUN6J3NEB | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH4 | SSUN6J4NEB | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-40UNF | GH1 | SSUN6H1NEB | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-40UNF | GH2 | SSUN6H2NEB | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.8-32UNC | GH2 | SSUN8J2NEB | 2.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| No.8-32UNC | GH3 | SSUN8J3NEB | 2.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| No.8-36UNF | GH2 | SSUN8I2NEB | 2.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| No.8-36UNF | GH3 | SSUN8I3NEB | 2.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| No.10-24UNC | GH2 | SSUNAM2NEB | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.10-24UNC | GH3 | SSUNAM3NEB | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.10-32UNF | GH2 | SSUNAJ2NEB | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.10-32UNF | GH3 | SSUNAJ3NEB | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.12-24UNC | GH2 | SSUNCM2NEB | 2.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 3 | 2 |
| No.12-24UNC | GH3 | SSUNCM3NEB | 2.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 3 | 2 |
| No.12-28UNF | GH2 | SSUNCK2NEB | 2.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 3 | 2 |
| No.12-28UNF | GH3 | SSUNCK3NEB | 2.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 3 | 2 |
| 1/4-20UNC | GH2 | SSU04N2NEB | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH3 | SSU04N3NEB | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | SSU04N5NEB | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH11 | SSU04N-EEB | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH2 | SSU04K2NEB | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | SSU04K3NEB | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | SSU04K4NEB | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH11 | SSU04K-EEB | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH2 | SSU05O2NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH3 | SSU05O3NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | SSU05O5NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH11 | SSU05O-EEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH2 | SSU05M2NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | SSU05M3NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | SSU05M4NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | SSU05M5NEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH11 | SSU05M-EEB | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | SSU06P3NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH4 | SSU06P4NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | SSU06P5NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH11 | SSU06P-EEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH2 | SSU06M2NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | SSU06M3NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## SP Spiral Fluted Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/8-24UNF | GH4 | SSU06M4NEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH11 | SSU06M-EEB | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | SSU07Q3NEB | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-14UNC | GH4 | SSU07Q4NEB | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-14UNC | GH5 | SSU07Q5NEB | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH2 | SSU07N2NEB | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH3 | SSU07N3NEB | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH5 | SSU07N5NEB | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 1/2-13UNC | GH3 | SSU08R3NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH4 | SSU08R4NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH5 | SSU08R5NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH11 | SSU08R-EEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH2 | SSU08N2NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH3 | SSU08N3NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH5 | SSU08N5NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH11 | SSU08N-EEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 9/16-12UNC | GH3 | SSU09S3NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-12UNC | GH4 | SSU09S4NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-12UNC | GH5 | SSU09S5NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH3 | SSU09O3NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH4 | SSU09O4NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH5 | SSU09O5NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 5/8-11UNC | GH3 | SSU10U3NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH4 | SSU10U4NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH5 | SSU10U5NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH11 | SSU10U-EEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH3 | SSU10O3NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH4 | SSU10O4NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH5 | SSU10O5NEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH11 | SSU10O-EEB | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 3/4-10UNC | GH3 | SSU12V3NEB | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-10UNC | GH5 | SSU12V5NEB | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-10UNC | GH11 | SSU12V-EEB | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH3 | SSU12P3NEB | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH4 | SSU12P4NEB | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH5 | SSU12P5NEB | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH11 | SSU12P-EEB | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 7/8-9UNC | GH4 | SSU14W4NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-9UNC | GH5 | SSU14W5NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-9UNC | GH6 | SSU14W6NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-14UNF | GH3 | SSU14Q3NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-14UNF | GH4 | SSU14Q4NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-14UNF | GH6 | SSU14Q6NEB | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 1 -8UNC | GH4 | SSU16X4NEB | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH5 | SSU16X5NEB | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH6 | SSU16X6NEB | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH3 | SSU16S3NEB | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH4 | SSU16S4NEB | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH5 | SSU16S5NEB | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## SP Spiral Fluted Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 -12UNF | GH6 | SSU16S6NEB | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 1/8-7UNC | GH4 | SSU18Y4NEB | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-7UNC | GH6 | SSU18Y6NEB | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH4 | SSU18S4NEB | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH5 | SSU18S5NEB | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/4-7UNC | GH4 | SSU20Y4NEB | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-7UNC | GH6 | SSU20Y6NEB | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-12UNF | GH4 | SSU20S4NEB | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-12UNF | GH5 | SSU20S5NEB | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 3/8-6UNC | GH5 | SSU22Z5NEB | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-6UNC | GH6 | SSU22Z6NEB | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-12UNF | GH4 | SSU22S4NEB | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-12UNF | GH5 | SSU22S5NEB | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 1/2-6UNC | GH5 | SSU24Z5NEB | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-6UNC | GH6 | SSU24Z6NEB | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-12UNF | GH4 | SSU24S4NEB | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-12UNF | GH5 | SSU24S5NEB | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



Spiral Fluted Tap Series for blind hole

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

DIN Length

# SP OX

Spiral Fluted Taps,Oxidized

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

ANSI

### Specification

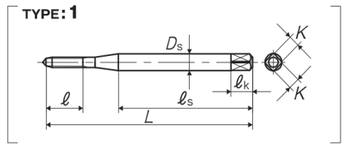
HSS | OX Oxide

### Tapping Speed depending on Materials

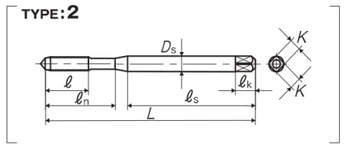
| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 |
|---|---|---|
| 5~10 (m/min) | 5~10 (m/min) | 5~10 (m/min) |

■The SP OX is a spiral flute tap for blind hole tapping. These taps have an applied oxidation treatment to prevent chip welding on the surface of the taps threaded portion. They are suitable for thread processing of soft steel materials where the chips easily weld to the tap like low carbon.

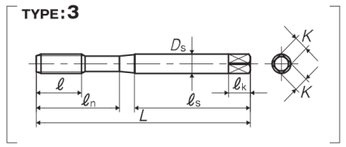
TYPE:1



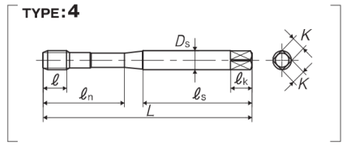

TYPE:2



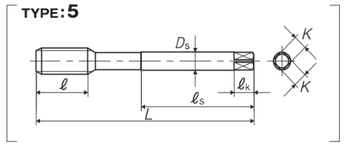

TYPE:3



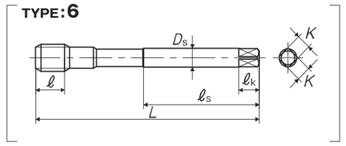

TYPE:4




TYPE:5




TYPE:6




Segment : 1C

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M2 × 0.4 | D3 | SS2.0E3NEX | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| M2.2 × 0.45 | D3 | SS2.2F3NEX | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| M2.5 × 0.45 | D3 | SS2.5F3NEX | 2.5P | 2.205 | 0.354 | 0.693 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| M2.6 × 0.45 | D3 | SS2.6F3NEX | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| M3 × 0.5 | D3 | SS3.0G3NEX | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3.5 × 0.6 | D4 | SS3.5H4NEX | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M4 × 0.7 | D4 | SS4.0I4NEX | 2.5P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M5 × 0.8 | D4 | SS5.0K4NEX | 2.5P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M6 × 1 | D5 | SS6.0M5NEX | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | SS7.0M5NEX | 2.5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 0.75 | D4 | SS7.0J4NEX | 2.5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 0.5 | D4 | SS7.0G4NEX | 2.5P | 3.543 | 0.394 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 4 |
| M8 × 1.25 | D5 | SS8.0N5NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | SS8.0M5NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 0.75 | D4 | SS8.0J4NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 4 |
| M8 × 0.5 | D4 | SS8.0G4NEX | 2.5P | 3.543 | 0.394 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 4 |
| M9 × 1.25 | D5 | SS9.0N5NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M9 × 1 | D5 | SS9.0M5NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.5 | D6 | SS010O6NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | SS010N5NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## SP OX Spiral Fluted Taps,Oxidized

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M10 × 1 | D5 | SS010M5NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 0.75 | D4 | SS010J4NEX | 2.5P | 3.937 | 0.512 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 4 |
| M11 × 1.5 | D6 | SS011O6NEX | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| M12 × 1.75 | D6 | SS012P6NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1.5 | D6 | SS012O6NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1.25 | D6 | SS012N6NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1 | D5 | SS012M5NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M14 × 2 | D7 | SS014Q7NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1.5 | D6 | SS014O6NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1.25 | D6 | SS014N6NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1 | D5 | SS014M5NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M16 × 2 | D7 | SS016Q7NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M16 × 1.5 | D6 | SS016O6NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M16 × 1 | D5 | SS016M5NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M18 × 2.5 | D7 | SS018R7NEX | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 5 |
| M18 × 2 | D7 | SS018Q7NEX | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 5 |
| M18 × 1.5 | D6 | SS018O6NEX | 2.5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 6 |
| M18 × 1 | D5 | SS018M5NEX | 2.5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 6 |
| M20 × 2.5 | D7 | SS020R7NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 5 |
| M20 × 2 | D7 | SS020Q7NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 5 |
| M20 × 1.5 | D6 | SS020O6NEX | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 6 |
| M20 × 1 | D5 | SS020M5NEX | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 6 |
| M22 × 2.5 | D7 | SS022R7NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| M22 × 2 | D7 | SS022Q7NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| M22 × 1.5 | D6 | SS022O6NEX | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 6 |
| M22 × 1 | D5 | SS022M5NEX | 2.5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 6 |
| M24 × 3 | D8 | SS024S8NEX | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 5 |
| M24 × 2 | D7 | SS024Q7NEX | 2.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M24 × 1.5 | D6 | SS024O6NEX | 2.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M24 × 1 | D5 | SS024M5NEX | 2.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M25 × 1.5 | D6 | SS025O6NEX | 2.5P | 6.299 | 1.063 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 6 |
| M26 × 1.5 | D6 | SS026O6NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 3 | D8 | SS027S8NEX | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| M27 × 2 | D7 | SS027Q7NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1.5 | D6 | SS027O6NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1 | D5 | SS027M5NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 2 | D7 | SS028Q7NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1.5 | D6 | SS028O6NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1 | D5 | SS028M5NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M30 × 3.5 | D9 | SS030T9NEX | 2.5P | 7.087 | 1.732 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M30 × 2 | D7 | SS030Q7NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1.5 | D6 | SS030O6NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1 | D5 | SS030M5NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M32 × 2 | D7 | SS032Q7NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1.5 | D6 | SS032O6NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1 | D5 | SS032M5NEX | 2.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M33 × 3.5 | D9 | SS033T9NEX | 2.5P | 7.087 | 1.732 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| M33 × 2 | D7 | SS033Q7NEX | 2.5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1.5 | D6 | SS033O6NEX | 2.5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1 | D5 | SS033M5NEX | 2.5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## SP OX Spiral Fluted Taps,Oxidized

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M36 × 4 | D9 | SS036U9NEX | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 3 | D8 | SS036S8NEX | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 2 | D7 | SS036Q7NEX | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1.5 | D6 | SS036O6NEX | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1 | D5 | SS036M5NEX | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M39 × 4 | D9 | SS039U9NEX | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 3 | D8 | SS039S8NEX | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 2 | D7 | SS039Q7NEX | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1.5 | D6 | SS039O6NEX | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1 | D5 | SS039M5NEX | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M42 × 4.5 | D10 | SS042VONEX | 2.5P | 7.874 | 2.047 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 5 |
| M42 × 2 | D7 | SS042Q7NEX | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1.5 | D6 | SS042O6NEX | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1 | D5 | SS042M5NEX | 2.5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M45 × 4.5 | D10 | SS045VONEX | 2.5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 3 | D8 | SS045S8NEX | 2.5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 2 | D7 | SS045Q7NEX | 2.5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1.5 | D6 | SS045O6NEX | 2.5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1 | D5 | SS045M5NEX | 2.5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M48 × 5 | D11 | SS048W-NEX | 2.5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 3 | D9 | SS048S9NEX | 2.5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 2 | D7 | SS048Q7NEX | 2.5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1.5 | D7 | SS048O7NEX | 2.5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1 | D6 | SS048M6NEX | 2.5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| For Unified Threads | | | | | | | | | | | | |
| No.2-56UNC | GH1 | SSUN2E1NEX | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH2 | SSUN2E2NEX | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-64UNF | GH1 | SSUN2D1NEX | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-64UNF | GH2 | SSUN2D2NEX | 2.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.3-48UNC | GH1 | SSUN3F1NEX | 2.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-48UNC | GH2 | SSUN3F2NEX | 2.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-56UNF | GH1 | SSUN3E1NEX | 2.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-56UNF | GH2 | SSUN3E2NEX | 2.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-40UNC | GH1 | SSUN4H1NEX | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-40UNC | GH2 | SSUN4H2NEX | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-48UNF | GH1 | SSUN4F1NEX | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-48UNF | GH2 | SSUN4F2NEX | 2.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH1 | SSUN5H1NEX | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH2 | SSUN5H2NEX | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH1 | SSUN5G1NEX | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH2 | SSUN5G2NEX | 2.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-32UNC | GH1 | SSUN6J1NEX | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH2 | SSUN6J2NEX | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH3 | SSUN6J3NEX | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH4 | SSUN6J4NEX | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-40UNF | GH1 | SSUN6H1NEX | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-40UNF | GH2 | SSUN6H2NEX | 2.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.8-32UNC | GH2 | SSUN8J2NEX | 2.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| No.8-32UNC | GH3 | SSUN8J3NEX | 2.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| No.8-36UNF | GH2 | SSUN8I2NEX | 2.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

# Spiral Fluted Tap Series for blind hole

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## SP OX Spiral Fluted Taps,Oxidized

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No.8-36UNF | GH3 | SSUN8I3NEX | 2.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| No.10-24UNC | GH2 | SSUNAM2NEX | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.10-24UNC | GH3 | SSUNAM3NEX | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.10-32UNF | GH2 | SSUNAJ2NEX | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.10-32UNF | GH3 | SSUNAJ3NEX | 2.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.12-24UNC | GH2 | SSUNCM2NEX | 2.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 3 | 2 |
| No.12-24UNC | GH3 | SSUNCM3NEX | 2.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 3 | 2 |
| No.12-28UNF | GH2 | SSUNCK2NEX | 2.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 3 | 2 |
| No.12-28UNF | GH3 | SSUNCK3NEX | 2.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 3 | 2 |
| 1/4-20UNC | GH2 | SSU04N2NEX | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH3 | SSU04N3NEX | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | SSU04N5NEX | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH11 | SSU04N-EEX | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH2 | SSU04K2NEX | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | SSU04K3NEX | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | SSU04K4NEX | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH11 | SSU04K-EEX | 2.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH2 | SSU05O2NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH3 | SSU05O3NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | SSU05O5NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH11 | SSU05O-EEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH2 | SSU05M2NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | SSU05M3NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | SSU05M4NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | SSU05M5NEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH11 | SSU05M-EEX | 2.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | SSU06P3NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH4 | SSU06P4NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | SSU06P5NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH11 | SSU06P-EEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH2 | SSU06M2NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | SSU06M3NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | SSU06M4NEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH11 | SSU06M-EEX | 2.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | SSU07Q3NEX | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-14UNC | GH4 | SSU07Q4NEX | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-14UNC | GH5 | SSU07Q5NEX | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH2 | SSU07N2NEX | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH3 | SSU07N3NEX | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH5 | SSU07N5NEX | 2.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 1/2-13UNC | GH3 | SSU08R3NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH4 | SSU08R4NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH5 | SSU08R5NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH11 | SSU08R-EEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH2 | SSU08N2NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH3 | SSU08N3NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH5 | SSU08N5NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH11 | SSU08N-EEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 9/16-12UNC | GH3 | SSU09S3NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-12UNC | GH4 | SSU09S4NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |


・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## SP OX Spiral Fluted Taps,Oxidized

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/16-12UNC | GH5 | SSU09S5NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH3 | SSU09O3NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH4 | SSU09O4NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH5 | SSU09O5NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 5/8-11UNC | GH3 | SSU10U3NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH4 | SSU10U4NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH5 | SSU10U5NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH11 | SSU10U-EEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH3 | SSU10O3NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH4 | SSU10O4NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH5 | SSU10O5NEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH11 | SSU10O-EEX | 2.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 3/4-10UNC | GH3 | SSU12V3NEX | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-10UNC | GH5 | SSU12V5NEX | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-10UNC | GH11 | SSU12V-EEX | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH3 | SSU12P3NEX | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH4 | SSU12P4NEX | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH5 | SSU12P5NEX | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH11 | SSU12P-EEX | 2.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 7/8-9UNC | GH4 | SSU14W4NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-9UNC | GH5 | SSU14W5NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-9UNC | GH6 | SSU14W6NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-14UNF | GH3 | SSU14Q3NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-14UNF | GH4 | SSU14Q4NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-14UNF | GH6 | SSU14Q6NEX | 2.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 1 -8UNC | GH4 | SSU16X4NEX | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH5 | SSU16X5NEX | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH6 | SSU16X6NEX | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH3 | SSU16S3NEX | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH4 | SSU16S4NEX | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH5 | SSU16S5NEX | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH6 | SSU16S6NEX | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 1/8-7UNC | GH4 | SSU18Y4NEX | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-7UNC | GH6 | SSU18Y6NEX | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH4 | SSU18S4NEX | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH5 | SSU18S5NEX | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/4-7UNC | GH4 | SSU20Y4NEX | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-7UNC | GH6 | SSU20Y6NEX | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-12UNF | GH4 | SSU20S4NEX | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-12UNF | GH5 | SSU20S5NEX | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 3/8-6UNC | GH5 | SSU22Z5NEX | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-6UNC | GH6 | SSU22Z6NEX | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-12UNF | GH4 | SSU22S4NEX | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-12UNF | GH5 | SSU22S5NEX | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 1/2-6UNC | GH5 | SSU24Z5NEX | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-6UNC | GH6 | SSU24Z6NEX | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-12UNF | GH4 | SSU24S4NEX | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-12UNF | GH5 | SSU24S5NEX | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |


・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

# Spiral Fluted Tap Series for blind hole

ANSI

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

DIN Length

## SP

Spiral Fluted Taps for Alloy Steels

### Specification

HSS | OX Oxide

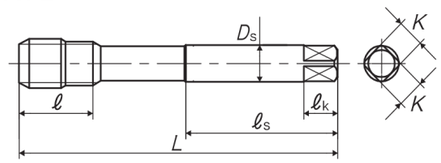
### Tapping Speed depending on Materials

| Alloy steels 合金鋼 | High carbon steels 高炭素鋼 |
|---|---|
| 5~10 (m/min) | 5~10 (m/min) |

■SP taps are spiral flute taps for alloy steel and high carbon steel. They have an improved chip discharge performance and are ideal for reducing tapping torque. They are also ideal for large diameter blind hole tapping.

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

TYPE : 1




Segment : 1C

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | | |
| 1 -8UNC | 2BX | SSU16XYEEXJ | 2.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 1 |
| 1 1/8-8UN | 2BX | SSU18XYEEXJ | 2.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 1 |
| 1 1/4-8UN | 2BX | SSU20XYEEXJ | 2.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 1 |
| 1 3/8-8UN | 2BX | SSU22XYEEXJ | 2.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 1 |
| 1 1/2-8UN | 2BX | SSU24XYEEXJ | 2.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 1 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

YAMAWA BY PIONEER

# LINEUP

## SPIRAL POINTED TAPS

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

VUPO
ZELX SS PO
ZELX NI PO
PM-PO
AL-PO
PO
PO OX

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

# Spiral Pointed Tap Series for through hole

ANSI

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

Z-PRO DIN Length

## VUPO

Z-PRO Coated Spiral Pointed Taps

### Specification

HSS-P | Coating | <2D

- Durability is improved by premium powder HSS and special coating.
- Chip ejection efficiency is improved and cutting resistance is reduced by the unique cutting edge shape, achieving a good internal thread and long tool life.

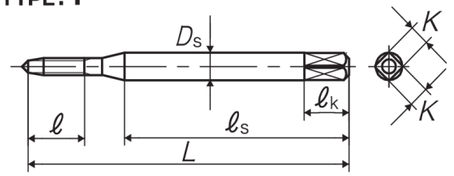
### Tapping Speeds depending on Materials

| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Alloy steels 合金鋼 | Stainless steels ステンレス鋼 | Tool steels 工具鋼 | Ductile cast irons 強靭鋳鉄 |
|---|---|---|---|---|---|---|
| 10~30 (m/min) | 10~30 (m/min) | 10~30 (m/min) | 10~30 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 10~35 (m/min) |

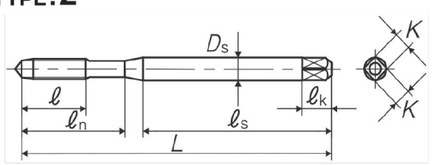
| Wrought aluminum アルミ圧延材 | Aluminum alloy castings アルミ合金鋳物 |
|---|---|
| 10~35 (m/min) | 10~35 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

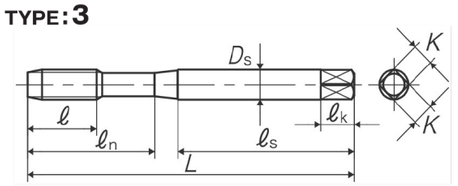
TYPE : 1



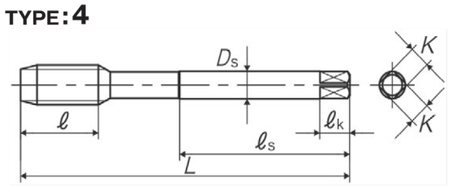

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1F

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M2 × 0.4 | D4 | 5102101021 | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| M2.2 × 0.45 | D4 | 5102101024 | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| M2.3 × 0.4 | D4 | 5102101026 | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| M2.5 × 0.45 | D4 | 5102101029 | 5P | 2.205 | 0.354 | 0.693 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| M2.6 × 0.45 | D4 | 5102101032 | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| M3 × 0.5 | D4 | 5102101035 | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3 × 0.35 | D4 | 5102101036 | 5P | 2.205 | 0.256 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M4 × 0.7 | D5 | 5102101042 | 5P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M4 × 0.5 | D4 | 5102101043 | 5P | 2.48 | 0.354 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M5 × 0.8 | D5 | 5102101049 | 5P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M5 × 0.5 | D4 | 5102101051 | 5P | 2.756 | 0.354 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M6 × 1 | D6 | 5102101055 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M6 × 0.75 | D6 | 5102101056 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M6 × 0.5 | D4 | 5102101057 | 5P | 3.15 | 0.354 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M8 × 1.25 | D7 | 5102101064 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D6 | 5102101065 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M10 × 1.5 | D8 | 5102101078 | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D7 | 5102101079 | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1 | D6 | 5102101080 | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M12 × 1.75 | D8 | 5102101088 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.5 | D8 | 5102101089 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D7 | 5102101090 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M14 × 2 | D9 | 5102101100 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 4 |
| M14 × 1.5 | D8 | 5102101102 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 4 |
| M16 × 2 | D9 | 5102101114 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 4 |
| M16 × 1.5 | D8 | 5102101116 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 4 |
| M18 × 2.5 | D9 | 5102101128 | 5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 4 |
| M18 × 1.5 | D8 | 5102101130 | 5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 4 |
| M20 × 2.5 | D9 | 5102101141 | 5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 4 |
| M20 × 1.5 | D8 | 5102101144 | 5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 4 |
| M22 × 2.5 | D9 | 5102101156 | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 4 |
| M22 × 1.5 | D8 | 5102101158 | 5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 4 |
| M24 × 3 | D10 | 5102101167 | 5P | 6.299 | 1.457 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 4 |
| M24 × 1.5 | D8 | 5102101170 | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 4 |
| For Unified Threads | | | | | | | | | | | | |
| No.5-40UNC | GH2 | 5102103021 | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH2 | 5102103022 | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-32UNC | GH3 | 5102103023 | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-40UNF | GH2 | 5102103024 | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.8-32UNC | GH3 | 5102103029 | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.8-36UNF | GH2 | 5102103030 | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.10-24UNC | GH3 | 5102103039 | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.10-32UNF | GH3 | 5102103041 | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.12-24UNC | GH3 | 5102103047 | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| No.12-28UNF | GH3 | 5102103048 | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| 1/4-20UNC | GH5 | 5102103058 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | 5102103062 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH5 | 5102103071 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | 5102103074 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH5 | 5102103082 | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | 5102103085 | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH5 | 5102103098 | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | 5102103101 | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH5 | 5102103111 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH5 | 5102103115 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 9/16-12UNC | GH5 | 5102103126 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 9/16-18UNF | GH5 | 5102103129 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 5/8-11UNC | GH5 | 5102103138 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH5 | 5102103142 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 3/4-10UNC | GH5 | 5102103161 | 5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 4 |
| 3/4-16UNF | GH5 | 5102103164 | 5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 4 |
| 7/8-9UNC | GH6 | 5102103181 | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 4 |
| 7/8-14UNF | GH6 | 5102103184 | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 4 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

ANSI

ANSI Length

# ZELX SS PO

## Spiral Pointed Taps for Stainless Steels

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

### Specification

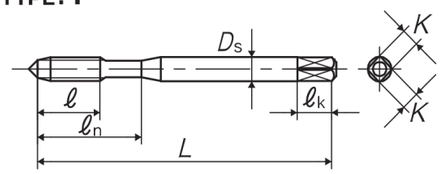
HSS | OX Oxide

■Suitable for stainless steels tending to cause work harden and sticky, as well as chrome steels and molybdenum steels. Through hole use.

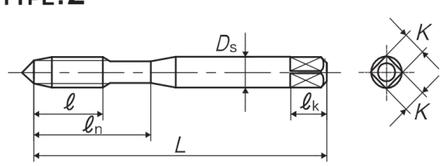
### Tapping Speed depending on Materials

| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Alloy steels 合金鋼 | Stainless steels ステンレス鋼 |
|---|---|---|---|---|
| ~10 (m/min) | ~10 (m/min) | ~10 (m/min) | ~10 (m/min) | ~10 (m/min) |

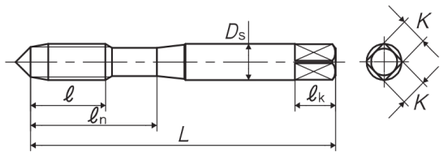
TYPE : 1



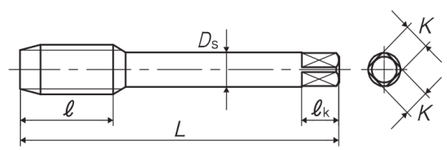

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1F

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | |
| M3 × 0.5 | D3 | Y72615 | 4.5P | 1.937 | 0.374 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3.5 × 0.6 | D4 | Y72616 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M4 × 0.7 | D4 | Y72617 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M5 × 0.8 | D4 | Y72619 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M6 × 1 | D5 | Y72620 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | Y72621 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | Y72623 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | Y72622 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M10 × 1.5 | D6 | Y72625 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | Y72624 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M12 × 1.75 | D6 | Y72627 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D5 | Y72626 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M14 × 2 | D7 | Y72629 | 4.5P | 3.593 | 0.984 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| M14 × 1.5 | D6 | Y72628 | 4.5P | 3.593 | 0.984 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| M16 × 2 | D7 | Y72631 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| M16 × 1.5 | D6 | Y72630 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| M18 × 2.5 | D7 | Y72633 | 4.5P | 4.031 | 1.083 | - | 0.542 | 0.406 | 0.625 | 3 | 4 |



| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M18 × 1.5 | D6 | Y72632 | 4.5P | 4.031 | 1.083 | - | 0.542 | 0.406 | 0.625 | 3 | 4 |
| For Unified Threads | | | | | | | | | | | |
| No.2-56UNC | GH2 | Y82623 | 4.5P | 1.75 | 0.256 | 0.437 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH3 | Y82624 | 4.5P | 1.75 | 0.256 | 0.437 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.3-48UNC | GH2 | Y82600 | 4.5P | 1.812 | 0.295 | 0.5 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH2 | Y82601 | 4.5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH3 | Y82602 | 4.5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH4 | Y82612 | 4.5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH5 | Y82634 | 4.5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-48UNF | GH2 | Y82683 | 4.5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.5-40UNC | GH2 | Y82603 | 4.5P | 1.937 | 0.374 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH2 | Y82604 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH3 | Y82605 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH4 | Y82608 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH5 | Y82635 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH6 | Y82659 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH7 | Y82665 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-40UNF | GH2 | Y82684 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-40UNF | GH3 | Y82642 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.8-32UNC | GH2 | Y82606 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH3 | Y82607 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH4 | Y82629 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH5 | Y82637 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH6 | Y82660 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH7 | Y82667 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-36UNF | GH2 | Y82686 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y82609 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH5 | Y82639 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH6 | Y82690 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH7 | Y82669 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH2 | Y82611 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y82610 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH4 | Y82630 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH5 | Y82640 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH6 | Y82661 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH7 | Y82670 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.12-24UNC | GH3 | Y82688 | 4.5P | 2.375 | 0.571 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |
| No.12-28UNF | GH3 | Y82689 | 4.5P | 2.375 | 0.571 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |
| 1/4-20UNC | GH3 | Y82613 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | Y82643 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH6 | Y82590 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH7 | Y82673 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y82614 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | Y82631 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH5 | Y82644 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH6 | Y82662 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH7 | Y82674 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | Y82615 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | Y82645 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH7 | Y82675 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |



Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX SS PO Spiral Pointed Taps for Stainless Steels

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/16-24UNF | GH3 | Y82616 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | Y82632 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | Y82646 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH6 | Y82663 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH7 | Y82676 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | Y82617 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | Y82647 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH7 | Y82668 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | Y82618 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | Y82633 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH5 | Y82648 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH6 | Y82664 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH7 | Y82678 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | Y82619 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH5 | Y82649 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | Y82620 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | Y82650 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH6 | Y82691 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH7 | Y82680 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH3 | Y82621 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | Y82651 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH7 | Y82681 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | Y82622 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH5 | Y82652 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH6 | Y82692 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH7 | Y82682 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH9 | Y82685 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 9/16-12UNC | GH3 | Y82653 | 4.5P | 3.593 | 0.984 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 9/16-18UNF | GH3 | Y82654 | 4.5P | 3.593 | 0.984 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 9/16-18UNF | GH5 | Y82666 | 4.5P | 3.593 | 0.984 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 5/8-11UNC | GH3 | Y82625 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-11UNC | GH5 | Y82655 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH3 | Y82626 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH4 | Y82636 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH5 | Y82656 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH6 | Y82694 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH7 | Y82591 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 3/4-10UNC | GH3 | Y82627 | 4.5P | 4.25 | 1.201 | - | 0.59 | 0.422 | 0.687 | 3 | 4 |
| 3/4-10UNC | GH5 | Y82657 | 4.5P | 4.25 | 1.201 | - | 0.59 | 0.422 | 0.687 | 3 | 4 |
| 3/4-16UNF | GH3 | Y82628 | 4.5P | 4.25 | 1.201 | - | 0.59 | 0.422 | 0.687 | 3 | 4 |
| 3/4-16UNF | GH5 | Y82658 | 4.5P | 4.25 | 1.201 | - | 0.59 | 0.422 | 0.687 | 3 | 4 |
| 3/4-16UNF | GH7 | Y82592 | 4.5P | 4.25 | 1.201 | - | 0.59 | 0.422 | 0.687 | 3 | 4 |
| 7/8-9UNC | GH4 | Y82695 | 4.5P | 4.687 | 1.339 | - | 0.697 | 0.523 | 0.75 | 3 | 4 |
| 7/8-14UNF | GH4 | Y82696 | 4.5P | 4.687 | 1.339 | - | 0.697 | 0.523 | 0.75 | 3 | 4 |
| 7/8-14UNF | GH6 | Y82699 | 4.5P | 4.687 | 1.339 | - | 0.697 | 0.523 | 0.75 | 3 | 4 |
| 1 -8UNC | GH4 | Y82697 | 4.5P | 5.125 | 1.496 | - | 0.8 | 0.6 | 0.812 | 3 | 4 |
| 1 -12UNF | GH4 | Y82679 | 4.5P | 5.125 | 1.496 | - | 0.8 | 0.6 | 0.812 | 3 | 4 |
| 1 1/8-7UNC | GH6 | Y82700 | 4.5P | 5.437 | 1.535 | - | 0.896 | 0.672 | 0.875 | 4 | 4 |
| 1 1/8-12UNF | GH5 | Y82701 | 4.5P | 5.437 | 1.535 | - | 0.896 | 0.672 | 0.875 | 4 | 4 |
| 1 1/4-7UNC | GH6 | Y82702 | 4.5P | 5.75 | 1.535 | - | 1.021 | 0.766 | 1 | 4 | 4 |


・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX SS PO Spiral Pointed Taps for Stainless Steels

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 1/4-12UNF | GH5 | Y82703 | 4.5P | 5.75 | 1.535 | - | 1.021 | 0.766 | 1 | 4 | 4 |
| 1 3/8-6UNC | GH6 | Y82705 | 4.5P | 6.062 | 1.811 | - | 1.108 | 0.831 | 1.062 | 4 | 4 |
| 1 3/8-12UNF | GH5 | Y82706 | 4.5P | 6.062 | 1.811 | - | 1.108 | 0.831 | 1.062 | 4 | 4 |
| 1 1/2-6UNC | GH6 | Y82707 | 4.5P | 6.375 | 1.811 | - | 1.233 | 0.925 | 1.125 | 4 | 4 |
| 1 1/2-12UNF | GH5 | Y82708 | 4.5P | 6.375 | 1.811 | - | 1.233 | 0.925 | 1.125 | 4 | 4 |
| 1 3/4-5UNC | GH7 | Y82709 | 4.5P | 7 | 1.929 | - | 1.43 | 1.072 | 1.25 | 4 | 4 |
| 2 -4 1/2UNC | GH7 | Y82710 | 4.5P | 7.625 | 1.929 | - | 1.644 | 1.233 | 1.375 | 4 | 4 |


・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com
Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

ANSI

ANSI Length

# ZELX NI PO

## Spiral Pointed Taps for Nickel Base Alloys

### Specification

HSS-P | NX Nitride+Oxide | Synchronized

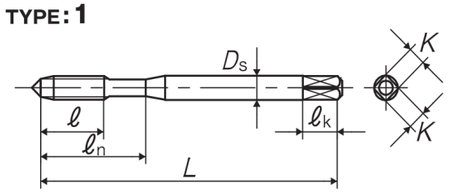
■ZELX NI PO is the spiral pointed tap for nickel base alloys which, with nickel as main composition, have much higher corrosion resistance and much higher heat resistance than steels.

### Tapping Speed depending on Materials

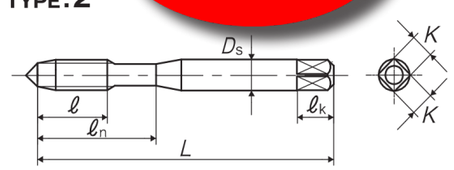
| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | Stainless steels ステンレス鋼 | Nickel base alloys ニッケル基合金 |
|---|---|---|---|
| 5~10 (m/min) | 5~10 (m/min) | 5~10 (m/min) | 5~10 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

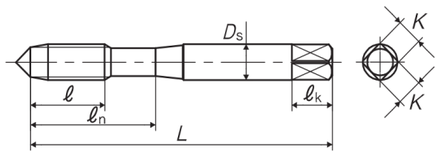
TYPE : 1



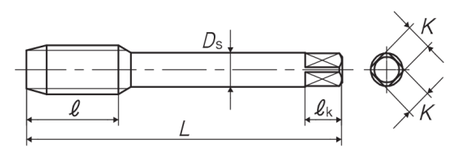

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1F

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | |
| M2.5 × 0.45 | D3 | Y87320 | 4.5P | 1.812 | 0.295 | 0.5 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| M3 × 0.5 | D3 | Y87321 | 4.5P | 1.937 | 0.374 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M3.5 × 0.6 | D4 | Y87322 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M4 × 0.7 | D4 | Y87323 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| M5 × 0.8 | D4 | Y87324 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| M6 × 1 | D5 | Y87325 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | Y87326 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | Y87328 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | Y87327 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M10 × 1.5 | D6 | Y87330 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | Y87329 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M12 × 1.75 | D6 | Y87332 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D5 | Y87331 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| For Unified Threads | | | | | | | | | | | |
| No.2-56UNC | GH2 | Y85523 | 4.5P | 1.75 | 0.256 | 0.437 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH2 | Y85501 | 4.5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH3 | Y85502 | 4.5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No.4-40UNC | GH4 | Y85504 | 4.5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.5-40UNC | GH2 | Y85503 | 4.5P | 1.937 | 0.374 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH3 | Y85505 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH4 | Y85524 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH5 | Y85535 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH7 | Y85511 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-40UNF | GH2 | Y85512 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.8-32UNC | GH3 | Y85507 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH4 | Y85529 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH5 | Y85537 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH6 | Y85560 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH7 | Y85567 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y85509 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-24UNC | GH5 | Y85539 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH2 | Y85541 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y85510 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH4 | Y85530 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH5 | Y85540 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH6 | Y85561 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH7 | Y85570 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| 1/4-20UNC | GH3 | Y85513 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | Y85543 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y85514 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | Y85531 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH5 | Y85544 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH6 | Y85562 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH7 | Y85574 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | Y85515 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | Y85545 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH7 | Y85553 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | Y85516 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | Y85532 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | Y85546 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH6 | Y85563 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH7 | Y85576 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | Y85517 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | Y85547 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | Y85518 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | Y85533 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH5 | Y85548 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH6 | Y85564 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH7 | Y85578 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | Y85519 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH5 | Y85549 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | Y85520 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | Y85550 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH3 | Y85521 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | Y85551 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH7 | Y85581 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | Y85522 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX NI PO Spiral Pointed Taps for Nickel Base Alloys

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/2-20UNF | GH5 | Y85552 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH7 | Y85582 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 5/8-11UNC | GH3 | Y85525 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-11UNC | GH5 | Y85555 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-11UNC | GH7 | Y85585 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH3 | Y85526 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH5 | Y85556 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH7 | Y85586 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 3/4-10UNC | GH3 | Y85527 | 4.5P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 4 |
| 3/4-10UNC | GH5 | Y85557 | 4.5P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 4 |
| 3/4-16UNF | GH3 | Y85528 | 4.5P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 4 |
| 3/4-16UNF | GH5 | Y85558 | 4.5P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 4 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



Spiral Pointed Tap Series for through hole

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

ANSI Length

# PM-PO

## Spiral Pointed Taps for Hard-to-Machine Materials

ANSI

### Specification

HSS-P

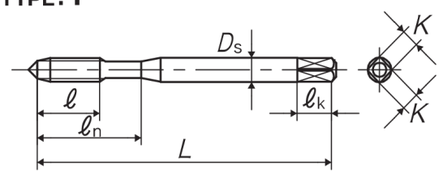
■Spiral pointed tap suitable for high hardness steels of 35～45HRC such as forgings and thermal refined steels of high carbon steels and alloy steels, and die steel. Through hole use.

### Tapping Speeds depending on Materials

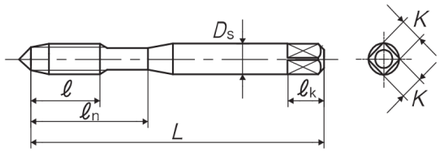
| High carbon steels 高炭素鋼 | Thermal refined steels 調質鋼 | Thermal refined steels 調質鋼 |
|---|---|---|
| 5~10 (m/min) | 5~10 (m/min) | ~5 (m/min) |
| | 25~35HRC | 35~45HRC |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

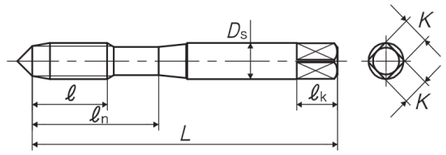
TYPE:1



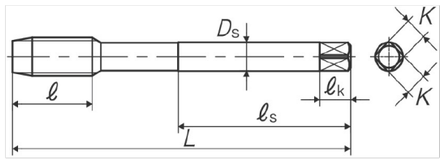

TYPE:2




TYPE:3




TYPE:4




Segment : 1F

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | |
| No.6-32UNC | GH3 | PAUN6J3DPB | 5.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.6-40UNF | GH3 | PAUN6H3DPB | 5.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.8-32UNC | GH3 | PAUN8J3DPB | 5.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 2 | 1 |
| No.8-36UNF | GH3 | PAUN8I3DPB | 5.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 2 | 1 |
| No.10-24UNC | GH3 | PAUNAM3DPB | 5.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 2 | 1 |
| No.10-32UNF | GH3 | PAUNAJ3DPB | 5.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 2 | 1 |
| No.12-24UNC | GH3 | PAUNCM3DPB | 5.5P | 2.375 | 0.571 | 0.937 | 0.22 | 0.165 | 0.281 | 2 | 1 |
| No.12-28UNF | GH3 | PAUNCK3DPB | 5.5P | 2.375 | 0.571 | 0.937 | 0.22 | 0.165 | 0.281 | 2 | 1 |
| 1/4-20UNC | GH4 | PAU04N4DPB | 5.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | PAU04K4DPB | 5.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH5 | PAU05O5DPB | 5.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH5 | PAU05M5DPB | 5.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH6 | PAU06P6DPB | 5.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH5 | PAU06M5DPB | 5.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH6 | PAU07Q6DPB | 5.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | PAU07N5DPB | 5.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH6 | PAU08R6DPB | 5.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH6 | PAU08N6DPB | 5.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## PM-PO Spiral Pointed Taps for Hard-to-Machine Materials

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/16-12UNC | GH6 | PAU09S6DPB | 5.5P | 3.593 | 0.984 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 9/16-18UNF | GH6 | PAU09O6DPB | 5.5P | 3.593 | 0.984 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 5/8-11UNC | GH7 | PAU10U7DPB | 5.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 5/8-18UNF | GH6 | PAU10O6DPB | 5.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 3/4-10UNC | GH7 | PAU12V7DPB | 5.5P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 4 |
| 3/4-16UNF | GH6 | PAU12P6DPB | 5.5P | 4.25 | 1.201 | - | 0.59 | 0.442 | 0.687 | 3 | 4 |
| 7/8-9UNC | GH7 | PAU14W7DPB | 5.5P | 4.687 | 1.339 | - | 0.697 | 0.523 | 0.75 | 3 | 4 |
| 7/8-14UNF | GH6 | PAU14Q6DPB | 5.5P | 4.687 | 1.339 | - | 0.697 | 0.523 | 0.75 | 3 | 4 |
| 1 -8UNC | GH8 | PAU16X8DPB | 5.5P | 5.125 | 1.496 | - | 0.8 | 0.6 | 0.812 | 3 | 4 |
| 1 -12UNF | GH7 | PAU16S7DPB | 5.5P | 5.125 | 1.496 | - | 0.8 | 0.6 | 0.812 | 3 | 4 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |



DIN Length

# AL-PO

Spiral Pointed Taps for Aluminum

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

ANSI

### Specification

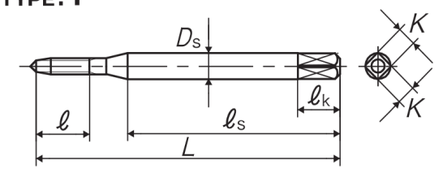
HSS | NI Nitride

■In tapping of aluminum die casting and aluminum casting, AL-PO solves chip jamming and chip clogging trouble, and eliminates torn threads.

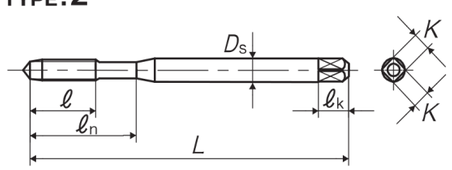
### Tapping Speed depending on Materials

| Brass 黄銅 | Brass castings 黄銅鋳物 | Bronze 青銅 | Wrought aluminum アルミ圧延材 | Aluminum alloy castings アルミ合金鋳物 | Magnesium alloy die castings マグネシウム合金鋳物 | Zinc alloy castings 亜鉛合金鋳物 |
|---|---|---|---|---|---|---|
| 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) |

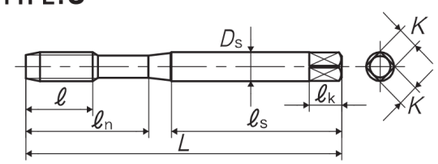
TYPE : 1



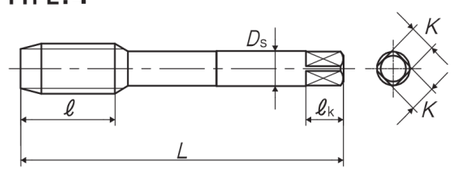

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1F

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | |
| M3 × 0.5 | D3 | 386228M | 5P | 2.205 | 0.433 | 0.736 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3.5 × 0.6 | D4 | 386229M | 5P | 2.205 | 0.433 | 0.748 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M4 × 0.7 | D4 | 386230M | 5P | 2.48 | 0.512 | 0.815 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M5 × 0.8 | D4 | 386231M | 5P | 2.756 | 0.551 | 0.984 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M6 × 1 | D5 | 386232M | 5P | 3.15 | 0.591 | 1.181 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | 386233M | 5P | 3.543 | 0.748 | 1.339 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | 386235M | 5P | 3.543 | 0.748 | 1.378 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | 386234M | 5P | 3.543 | 0.748 | 1.378 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M10 × 1.5 | D6 | 386237M | 5P | 3.937 | 0.906 | 1.535 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | 386236M | 5P | 3.937 | 0.906 | 1.535 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M12 × 1.75 | D6 | 386240M | 5P | 4.331 | 1.024 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.5 | D5 | 386239M | 5P | 4.331 | 1.024 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| M12 × 1.25 | D5 | 386238M | 5P | 4.331 | 1.024 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| For Unified Threads | | | | | | | | | | | |
| No.2-56UNC | GH2 | 386200M | 5P | 1.772 | 0.314 | - | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH2 | 386201M | 5P | 2.205 | 0.354 | 0.709 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH2 | 386202M | 5P | 2.205 | 0.433 | 0.736 | 0.141 | 0.11 | 0.187 | 3 | 2 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No.6-32UNC | GH3 | 386203M | 5P | 2.205 | 0.433 | 0.748 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.8-32UNC | GH3 | 386204M | 5P | 2.48 | 0.512 | 0.827 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| No.10-24UNC | GH3 | 386205M | 5P | 2.756 | 0.551 | 0.945 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| No.10-32UNF | GH3 | 386206M | 5P | 2.756 | 0.551 | 0.945 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| 1/4-20UNC | GH3 | 386207M | 5P | 3.15 | 0.591 | 1.181 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | 386208M | 5P | 3.15 | 0.591 | 1.181 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | 386209M | 5P | 3.15 | 0.591 | 1.181 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | 386211M | 5P | 3.15 | 0.591 | 1.181 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | 386212M | 5P | 3.543 | 0.748 | 1.378 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | 386213M | 5P | 3.543 | 0.748 | 1.378 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | 386214M | 5P | 3.543 | 0.748 | 1.378 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | 386215M | 5P | 3.543 | 0.748 | 1.378 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | 386216M | 5P | 3.937 | 0.906 | 1.535 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | 386217M | 5P | 3.937 | 0.906 | 1.535 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | 386218M | 5P | 3.937 | 0.906 | 1.535 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | 386219M | 5P | 3.937 | 0.906 | 1.535 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH3 | 386220M | 5P | 3.937 | 0.906 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH5 | 386221M | 5P | 3.937 | 0.906 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH3 | 386222M | 5P | 3.937 | 0.906 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-20UNF | GH5 | 386223M | 5P | 3.937 | 0.906 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 1/2-13UNC | GH3 | 386224M | 5P | 4.331 | 1.024 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH5 | 386225M | 5P | 4.331 | 1.024 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH3 | 386226M | 5P | 4.331 | 1.024 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-20UNF | GH5 | 386227M | 5P | 4.331 | 1.024 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA



| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

DIN Length

# PO

## Spiral Pointed Taps

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

ANSI

### Specification

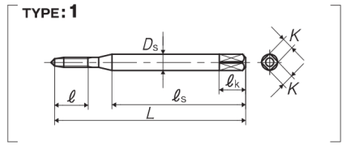
HSS

■The PO taps push the chips forward and discharge them in the direction of tapping. These taps cut a stable thread with few problems due to chips, making them ideal for through hole machining.

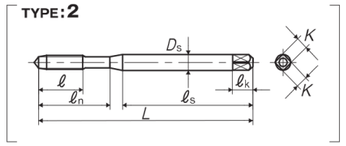
### Tapping Speed depending on Materials

| Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 |
|---|---|
| 5~10 (m/min) | 5~10 (m/min) |

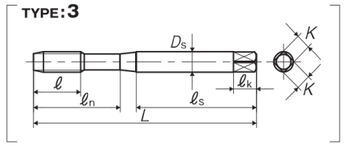
TYPE:1



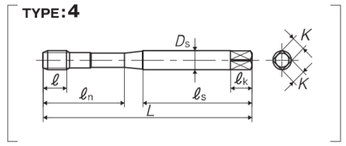

TYPE:2



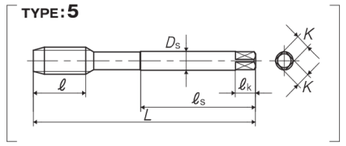

TYPE:3



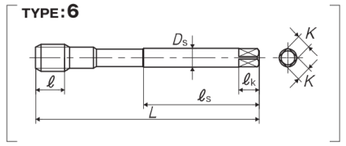

TYPE:4




TYPE:5




TYPE:6




Segment : 1E

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M2 × 0.4 | D3 | PS2.0E3NEB | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M2.2 × 0.45 | D3 | PS2.2F3NEB | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M2.5 × 0.45 | D3 | PS2.5F3NEB | 5P | 2.205 | 0.354 | 0.693 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M2.6 × 0.45 | D3 | PS2.6F3NEB | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3 × 0.5 | D3 | PS3.0G3NEB | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3.5 × 0.6 | D4 | PS3.5H4NEB | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M4 × 0.7 | D4 | PS4.0I4NEB | 5P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M5 × 0.8 | D4 | PS5.0K4NEB | 5P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M6 × 1 | D5 | PS6.0M5NEB | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | PS7.0M5NEB | 5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 0.75 | D4 | PS7.0J4NEB | 5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 0.5 | D4 | PS7.0G4NEB | 5P | 3.543 | 0.394 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 4 |
| M8 × 1.25 | D5 | PS8.0N5NEB | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | PS8.0M5NEB | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 0.75 | D4 | PS8.0J4NEB | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 0.5 | D4 | PS8.0G4NEB | 5P | 3.543 | 0.394 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 4 |
| M9 × 1.25 | D5 | PS9.0N5NEB | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M9 × 1 | D5 | PS9.0M5NEB | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.5 | D6 | PS010O6NEB | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | PS010N5NEB | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## PO Spiral Pointed Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M10 × 1 | D5 | PS010M5NEB | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 0.75 | D4 | PS010J4NEB | 5P | 3.937 | 0.512 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 4 |
| M11 × 1.5 | D6 | PS011O6NEB | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| M12 × 1.75 | D6 | PS012P6NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1.5 | D6 | PS012O6NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1.25 | D6 | PS012N6NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1 | D5 | PS012M5NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M14 × 2 | D7 | PS014Q7NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1.5 | D6 | PS014O6NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1.25 | D6 | PS014N6NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1 | D5 | PS014M5NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M16 × 2 | D7 | PS016Q7NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M16 × 1.5 | D6 | PS016O6NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M16 × 1 | D5 | PS016M5NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M18 × 2.5 | D7 | PS018R7NEB | 5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 5 |
| M18 × 2 | D7 | PS018Q7NEB | 5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 5 |
| M18 × 1.5 | D6 | PS018O6NEB | 5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 6 |
| M18 × 1 | D5 | PS018M5NEB | 5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 6 |
| M20 × 2.5 | D7 | PS020R7NEB | 5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 5 |
| M20 × 2 | D7 | PS020Q7NEB | 5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 5 |
| M20 × 1.5 | D6 | PS020O6NEB | 5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 6 |
| M20 × 1 | D5 | PS020M5NEB | 5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 6 |
| M22 × 2.5 | D7 | PS022R7NEB | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| M22 × 2 | D7 | PS022Q7NEB | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| M22 × 1.5 | D6 | PS022O6NEB | 5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 6 |
| M22 × 1 | D5 | PS022M5NEB | 5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 6 |
| M24 × 3 | D8 | PS024S8NEB | 5P | 6.299 | 1.457 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 5 |
| M24 × 2 | D7 | PS024Q7NEB | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 6 |
| M24 × 1.5 | D6 | PS024O6NEB | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 6 |
| M24 × 1 | D5 | PS024M5NEB | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 6 |
| M25 × 1.5 | D6 | PS025O6NEB | 5P | 6.299 | 1.063 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 6 |
| M26 × 1.5 | D6 | PS026O6NEB | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 3 | D8 | PS027S8NEB | 5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| M27 × 2 | D7 | PS027Q7NEB | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1.5 | D6 | PS027O6NEB | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1 | D5 | PS027M5NEB | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 2 | D7 | PS028Q7NEB | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1.5 | D6 | PS028O6NEB | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1 | D5 | PS028M5NEB | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M30 × 3.5 | D9 | PS030T9NEB | 5P | 7.087 | 1.732 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M30 × 2 | D7 | PS030Q7NEB | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1.5 | D6 | PS030O6NEB | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1 | D5 | PS030M5NEB | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M32 × 2 | D7 | PS032Q7NEB | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1.5 | D6 | PS032O6NEB | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1 | D5 | PS032M5NEB | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M33 × 3.5 | D9 | PS033T9NEB | 5P | 7.087 | 1.732 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| M33 × 2 | D7 | PS033Q7NEB | 5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1.5 | D6 | PS033O6NEB | 5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1 | D5 | PS033M5NEB | 5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## PO Spiral Pointed Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M36 × 4 | D9 | PS036U9NEB | 5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 3 | D8 | PS036S8NEB | 5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 2 | D7 | PS036Q7NEB | 5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1.5 | D6 | PS036O6NEB | 5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1 | D5 | PS036M5NEB | 5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M39 × 4 | D9 | PS039U9NEB | 5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 3 | D8 | PS039S8NEB | 5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 2 | D7 | PS039Q7NEB | 5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1.5 | D6 | PS039O6NEB | 5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1 | D5 | PS039M5NEB | 5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M42 × 4.5 | D10 | PS042VONEB | 5P | 7.874 | 2.047 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 5 |
| M42 × 2 | D7 | PS042Q7NEB | 5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1.5 | D6 | PS042O6NEB | 5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1 | D5 | PS042M5NEB | 5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M45 × 4.5 | D10 | PS045VONEB | 5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 3 | D8 | PS045S8NEB | 5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 2 | D7 | PS045Q7NEB | 5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1.5 | D6 | PS045O6NEB | 5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1 | D5 | PS045M5NEB | 5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M48 × 5 | D11 | PS048W-NEB | 5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 3 | D9 | PS048S9NEB | 5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 2 | D7 | PS048Q7NEB | 5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1.5 | D7 | PS048O7NEB | 5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1 | D6 | PS048M6NEB | 5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| For Unified Threads | | | | | | | | | | | | |
| No.0-80UNF | GH1 | PSUN0B1NEB | 5P | 1.772 | 0.236 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.0-80UNF | GH2 | PSUN0B2NEB | 5P | 1.772 | 0.236 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-64UNC | GH1 | PSUN1D1NEB | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-64UNC | GH2 | PSUN1D2NEB | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-72UNF | GH1 | PSUN1C1NEB | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-72UNF | GH2 | PSUN1C2NEB | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH1 | PSUN2E1NEB | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH2 | PSUN2E2NEB | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-64UNF | GH1 | PSUN2D1NEB | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-64UNF | GH2 | PSUN2D2NEB | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.3-48UNC | GH1 | PSUN3F1NEB | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-48UNC | GH2 | PSUN3F2NEB | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-56UNF | GH1 | PSUN3E1NEB | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-56UNF | GH2 | PSUN3E2NEB | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-40UNC | GH2 | PSUN4H2NEB | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-40UNC | GH3 | PSUN4H3NEB | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-48UNF | GH1 | PSUN4F1NEB | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-48UNF | GH2 | PSUN4F2NEB | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH2 | PSUN5H2NEB | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH3 | PSUN5H3NEB | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH1 | PSUN5G1NEB | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH2 | PSUN5G2NEB | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH3 | PSUN5G3NEB | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-32UNC | GH2 | PSUN6J2NEB | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-32UNC | GH3 | PSUN6J3NEB | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## PO Spiral Pointed Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No.6-40UNF | GH2 | PSUN6H2NEB | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-40UNF | GH3 | PSUN6H3NEB | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.8-32UNC | GH2 | PSUN8J2NEB | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.8-32UNC | GH3 | PSUN8J3NEB | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.8-36UNF | GH2 | PSUN8I2NEB | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.8-36UNF | GH3 | PSUN8I3NEB | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.10-24UNC | GH2 | PSUNAM2NEB | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.10-24UNC | GH3 | PSUNAM3NEB | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.10-32UNF | GH2 | PSUNAJ2NEB | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.10-32UNF | GH3 | PSUNAJ3NEB | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.12-24UNC | GH2 | PSUNCM2NEB | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| No.12-24UNC | GH3 | PSUNCM3NEB | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| No.12-28UNF | GH2 | PSUNCK2NEB | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| No.12-28UNF | GH3 | PSUNCK3NEB | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| 1/4-20UNC | GH3 | PSU04N3NEB | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH4 | PSU04N4NEB | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | PSU04N5NEB | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH2 | PSU04K2NEB | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | PSU04K3NEB | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | PSU04K4NEB | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | PSU05O3NEB | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH4 | PSU05O4NEB | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | PSU05O5NEB | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | PSU05M3NEB | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | PSU05M4NEB | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | PSU06P3NEB | 4.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | PSU06P5NEB | 4.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | PSU06M3NEB | 4.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | PSU06M4NEB | 4.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH4 | PSU07Q4NEB | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-14UNC | GH5 | PSU07Q5NEB | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH3 | PSU07N3NEB | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH4 | PSU07N4NEB | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH5 | PSU07N5NEB | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 1/2-13UNC | GH3 | PSU08R3NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH4 | PSU08R4NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH5 | PSU08R5NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH3 | PSU08N3NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH4 | PSU08N4NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH5 | PSU08N5NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 9/16-12UNC | GH3 | PSU09S3NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-12UNC | GH4 | PSU09S4NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-12UNC | GH5 | PSU09S5NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH3 | PSU09O3NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH4 | PSU09O4NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH5 | PSU09O5NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 5/8-11UNC | GH3 | PSU10U3NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH4 | PSU10U4NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH5 | PSU10U5NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH6 | PSU10U6NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## PO Spiral Pointed Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/8-18UNF | GH3 | PSU10O3NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH4 | PSU10O4NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH5 | PSU10O5NEB | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 3/4-10UNC | GH5 | PSU12V5NEB | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 3/4-10UNC | GH6 | PSU12V6NEB | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 3/4-16UNF | GH3 | PSU12P3NEB | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 3/4-16UNF | GH4 | PSU12P4NEB | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 3/4-16UNF | GH5 | PSU12P5NEB | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 7/8-9UNC | GH4 | PSU14W4NEB | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| 7/8-9UNC | GH5 | PSU14W5NEB | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| 7/8-9UNC | GH6 | PSU14W6NEB | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| 7/8-14UNF | GH4 | PSU14Q4NEB | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| 7/8-14UNF | GH6 | PSU14Q6NEB | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| 1 -8UNC | GH4 | PSU16X4NEB | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -8UNC | GH5 | PSU16X5NEB | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -8UNC | GH6 | PSU16X6NEB | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -8UNC | GH7 | PSU16X7NEB | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -12UNF | GH4 | PSU16S4NEB | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -12UNF | GH5 | PSU16S5NEB | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -12UNF | GH6 | PSU16S6NEB | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 1/8-7UNC | GH6 | PSU18Y6NEB | 4.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-7UNC | GH7 | PSU18Y7NEB | 4.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH5 | PSU18S5NEB | 4.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH6 | PSU18S6NEB | 4.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/4-7UNC | GH6 | PSU20Y6NEB | 4.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-7UNC | GH8 | PSU20Y8NEB | 4.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-12UNF | GH5 | PSU20S5NEB | 4.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-12UNF | GH6 | PSU20S6NEB | 4.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 3/8-6UNC | GH6 | PSU22Z6NEB | 4.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-6UNC | GH8 | PSU22Z8NEB | 4.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-12UNF | GH5 | PSU22S5NEB | 4.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-12UNF | GH6 | PSU22S6NEB | 4.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 1/2-6UNC | GH6 | PSU24Z6NEB | 4.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-6UNC | GH8 | PSU24Z8NEB | 4.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-12UNF | GH5 | PSU24S5NEB | 4.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-12UNF | GH7 | PSU24S7NEB | 4.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |



・This product is different from JIS products in shape and dimensions, please be careful when using.



Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

ANSI

DIN Length

# PO OX

Spiral Pointed Taps, Oxidized

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

## Specification

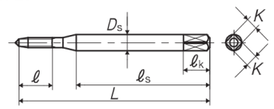
HSS | OX Oxide

## Tapping Speed depending on Materials

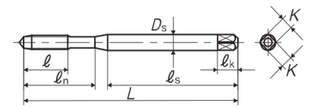
| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 |
|---|---|---|
| 5~10 (m/min) | 5~10 (m/min) | 5~10 (m/min) |

■The +PO is a spiral pointed tap for through hole tapping and is suitable for synchronous feed processing in middle to high thread processing of soft steel materials whose chips easily weld to the taps thread such as low carbon steels.

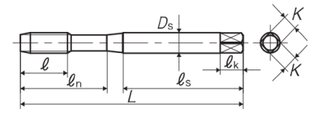
TYPE:1



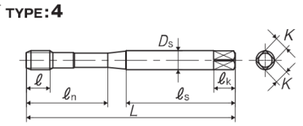

TYPE:2



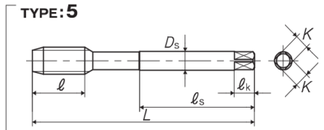

TYPE:3



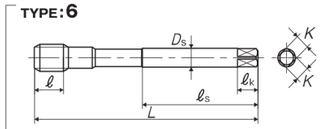

TYPE:4




TYPE:5




TYPE:6




Segment : 1E

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M2 × 0.4 | D3 | PS2.0E3NEX | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M2.2 × 0.45 | D3 | PS2.2F3NEX | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M2.5 × 0.45 | D3 | PS2.5F3NEX | 5P | 2.205 | 0.354 | 0.693 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M2.6 × 0.45 | D3 | PS2.6F3NEX | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3 × 0.5 | D3 | PS3.0G3NEX | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3.5 × 0.6 | D4 | PS3.5H4NEX | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M4 × 0.7 | D4 | PS4.0I4NEX | 5P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M5 × 0.8 | D4 | PS5.0K4NEX | 5P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M6 × 1 | D5 | PS6.0M5NEX | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | PS7.0M5NEX | 5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 0.75 | D4 | PS7.0J4NEX | 5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 0.5 | D4 | PS7.0G4NEX | 5P | 3.543 | 0.394 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 4 |
| M8 × 1.25 | D5 | PS8.0N5NEX | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | PS8.0M5NEX | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 0.75 | D4 | PS8.0J4NEX | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 0.5 | D4 | PS8.0G4NEX | 5P | 3.543 | 0.394 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 4 |
| M9 × 1.25 | D5 | PS9.0N5NEX | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M9 × 1 | D5 | PS9.0M5NEX | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.5 | D6 | PS010O6NEX | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 1.25 | D5 | PS010N5NEX | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M10 × 1 | D5 | PS010M5NEX | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| M10 × 0.75 | D4 | PS010J4NEX | 5P | 3.937 | 0.512 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 3 | 4 |
| M11 × 1.5 | D6 | PS011O6NEX | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| M12 × 1.75 | D6 | PS012P6NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1.5 | D6 | PS012O6NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1.25 | D6 | PS012N6NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M12 × 1 | D5 | PS012M5NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| M14 × 2 | D7 | PS014Q7NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1.5 | D6 | PS014O6NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1.25 | D6 | PS014N6NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M14 × 1 | D5 | PS014M5NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| M16 × 2 | D7 | PS016Q7NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M16 × 1.5 | D6 | PS016O6NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M16 × 1 | D5 | PS016M5NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| M18 × 2.5 | D7 | PS018R7NEX | 5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 5 |
| M18 × 2 | D7 | PS018Q7NEX | 5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 5 |
| M18 × 1.5 | D6 | PS018O6NEX | 5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 6 |
| M18 × 1 | D5 | PS018M5NEX | 5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 3 | 6 |
| M20 × 2.5 | D7 | PS020R7NEX | 5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 5 |
| M20 × 2 | D7 | PS020Q7NEX | 5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 5 |
| M20 × 1.5 | D6 | PS020O6NEX | 5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 6 |
| M20 × 1 | D5 | PS020M5NEX | 5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 3 | 6 |
| M22 × 2.5 | D7 | PS022R7NEX | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| M22 × 2 | D7 | PS022Q7NEX | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| M22 × 1.5 | D6 | PS022O6NEX | 5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 6 |
| M22 × 1 | D5 | PS022M5NEX | 5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 6 |
| M24 × 3 | D8 | PS024S8NEX | 5P | 6.299 | 1.457 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 5 |
| M24 × 2 | D7 | PS024Q7NEX | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 6 |
| M24 × 1.5 | D6 | PS024O6NEX | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 6 |
| M24 × 1 | D5 | PS024M5NEX | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 3 | 6 |
| M25 × 1.5 | D6 | PS025O6NEX | 5P | 6.299 | 1.063 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 6 |
| M26 × 1.5 | D6 | PS026O6NEX | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 3 | D8 | PS027S8NEX | 5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| M27 × 2 | D7 | PS027Q7NEX | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1.5 | D6 | PS027O6NEX | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1 | D5 | PS027M5NEX | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 2 | D7 | PS028Q7NEX | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1.5 | D6 | PS028O6NEX | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1 | D5 | PS028M5NEX | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M30 × 3.5 | D9 | PS030T9NEX | 5P | 7.087 | 1.732 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M30 × 2 | D7 | PS030Q7NEX | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M30 × 1.5 | D6 | PS030O6NEX | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M30 × 1 | D5 | PS030M5NEX | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 2 | D7 | PS032Q7NEX | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1.5 | D6 | PS032O6NEX | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1 | D5 | PS032M5NEX | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M33 × 3.5 | D9 | PS033T9NEX | 5P | 7.087 | 1.732 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| M33 × 2 | D7 | PS033Q7NEX | 5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1.5 | D6 | PS033O6NEX | 5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1 | D5 | PS033M5NEX | 5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## PO OX Spiral Pointed Taps, Oxidized

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M36 × 4 | D9 | PS036U9NEX | 5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 3 | D8 | PS036S8NEX | 5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 2 | D7 | PS036Q7NEX | 5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1.5 | D6 | PS036O6NEX | 5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1 | D5 | PS036M5NEX | 5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M39 × 4 | D9 | PS039U9NEX | 5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 3 | D8 | PS039S8NEX | 5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 2 | D7 | PS039Q7NEX | 5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1.5 | D6 | PS039O6NEX | 5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1 | D5 | PS039M5NEX | 5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M42 × 4.5 | D10 | PS042VONEX | 5P | 7.874 | 2.047 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 5 |
| M42 × 2 | D7 | PS042Q7NEX | 5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1.5 | D6 | PS042O6NEX | 5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1 | D5 | PS042M5NEX | 5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M45 × 4.5 | D10 | PS045VONEX | 5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 3 | D8 | PS045S8NEX | 5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 2 | D7 | PS045Q7NEX | 5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1.5 | D6 | PS045O6NEX | 5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1 | D5 | PS045M5NEX | 5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M48 × 5 | D11 | PS048W-NEX | 5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 3 | D9 | PS048S9NEX | 5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 2 | D7 | PS048Q7NEX | 5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1.5 | D7 | PS048O7NEX | 5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1 | D6 | PS048M6NEX | 5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| For Unified Threads | | | | | | | | | | | | |
| No.0-80UNF | GH1 | PSUN0B1NEX | 5P | 1.772 | 0.236 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.0-80UNF | GH2 | PSUN0B2NEX | 5P | 1.772 | 0.236 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-64UNC | GH1 | PSUN1D1NEX | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-64UNC | GH2 | PSUN1D2NEX | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-72UNF | GH1 | PSUN1C1NEX | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-72UNF | GH2 | PSUN1C2NEX | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH1 | PSUN2E1NEX | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH2 | PSUN2E2NEX | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-64UNF | GH1 | PSUN2D1NEX | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-64UNF | GH2 | PSUN2D2NEX | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.3-48UNC | GH1 | PSUN3F1NEX | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-48UNC | GH2 | PSUN3F2NEX | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-56UNF | GH1 | PSUN3E1NEX | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.3-56UNF | GH2 | PSUN3E2NEX | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-40UNC | GH2 | PSUN4H2NEX | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-40UNC | GH3 | PSUN4H3NEX | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-48UNF | GH1 | PSUN4F1NEX | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.4-48UNF | GH2 | PSUN4F2NEX | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH2 | PSUN5H2NEX | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-40UNC | GH3 | PSUN5H3NEX | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH1 | PSUN5G1NEX | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH2 | PSUN5G2NEX | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.5-44UNF | GH3 | PSUN5G3NEX | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-32UNC | GH2 | PSUN6J2NEX | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-32UNC | GH3 | PSUN6J3NEX | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## PO OX Spiral Pointed Taps, Oxidized

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No.6-40UNF | GH2 | PSUN6H2NEX | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.6-40UNF | GH3 | PSUN6H3NEX | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 2 | 2 |
| No.8-32UNC | GH2 | PSUN8J2NEX | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.8-32UNC | GH3 | PSUN8J3NEX | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.8-36UNF | GH2 | PSUN8I2NEX | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.8-36UNF | GH3 | PSUN8I3NEX | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 2 | 2 |
| No.10-24UNC | GH2 | PSUNAM2NEX | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.10-24UNC | GH3 | PSUNAM3NEX | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.10-32UNF | GH2 | PSUNAJ2NEX | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.10-32UNF | GH3 | PSUNAJ3NEX | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 2 | 2 |
| No.12-24UNC | GH2 | PSUNCM2NEX | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| No.12-24UNC | GH3 | PSUNCM3NEX | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| No.12-28UNF | GH2 | PSUNCK2NEX | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| No.12-28UNF | GH3 | PSUNCK3NEX | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 2 | 2 |
| 1/4-20UNC | GH3 | PSU04N3NEX | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH4 | PSU04N4NEX | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH5 | PSU04N5NEX | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH2 | PSU04K2NEX | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | PSU04K3NEX | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH4 | PSU04K4NEX | 4.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | PSU05O3NEX | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH4 | PSU05O4NEX | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH5 | PSU05O5NEX | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH3 | PSU05M3NEX | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-24UNF | GH4 | PSU05M4NEX | 4.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 3/8-16UNC | GH3 | PSU06P3NEX | 4.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH5 | PSU06P5NEX | 4.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH3 | PSU06M3NEX | 4.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH4 | PSU06M4NEX | 4.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 7/16-14UNC | GH4 | PSU07Q4NEX | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-14UNC | GH5 | PSU07Q5NEX | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH3 | PSU07N3NEX | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH4 | PSU07N4NEX | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 7/16-20UNF | GH5 | PSU07N5NEX | 4.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 5 |
| 1/2-13UNC | GH3 | PSU08R3NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH4 | PSU08R4NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-13UNC | GH5 | PSU08R5NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH3 | PSU08N3NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH4 | PSU08N4NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 1/2-20UNF | GH5 | PSU08N5NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 5 |
| 9/16-12UNC | GH3 | PSU09S3NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-12UNC | GH4 | PSU09S4NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-12UNC | GH5 | PSU09S5NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH3 | PSU09O3NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH4 | PSU09O4NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 9/16-18UNF | GH5 | PSU09O5NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 5 |
| 5/8-11UNC | GH3 | PSU10U3NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH4 | PSU10U4NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH5 | PSU10U5NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-11UNC | GH6 | PSU10U6NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

# Spiral Pointed Tap Series for through hole

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## PO OX Spiral Pointed Taps, Oxidized

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/8-18UNF | GH3 | PSU10O3NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH4 | PSU10O4NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 5/8-18UNF | GH5 | PSU10O5NEX | 4.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 5 |
| 3/4-10UNC | GH5 | PSU12V5NEX | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 3/4-10UNC | GH6 | PSU12V6NEX | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 3/4-16UNF | GH3 | PSU12P3NEX | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 3/4-16UNF | GH4 | PSU12P4NEX | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 3/4-16UNF | GH5 | PSU12P5NEX | 4.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 3 | 5 |
| 7/8-9UNC | GH4 | PSU14W4NEX | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 3 | 5 |
| 7/8-9UNC | GH5 | PSU14W5NEX | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | [illegible] | [illegible] | 5 |
| 7/8-9UNC | GH6 | PSU14W6NEX | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | [illegible] | [illegible] | [illegible] | [illegible] |
| 7/8-14UNF | GH4 | PSU14Q4NEX | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | [illegible] | [illegible] | [illegible] | [illegible] |
| 7/8-14UNF | GH6 | PSU14Q6NEX | 4.5P | 5.512 | 1.299 | - | 2.795 | 0.69[illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 1 -8UNC | GH4 | PSU16X4NEX | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | [illegible] | [illegible] | [illegible] | [illegible] |
| 1 -8UNC | GH5 | PSU16X5NEX | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | [illegible] | [illegible] | [illegible] | [illegible] |
| 1 -8UNC | GH6 | PSU16X6NEX | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -8UNC | GH7 | PSU16X7NEX | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -12UNF | GH4 | PSU16S4NEX | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -12UNF | GH5 | PSU16S5NEX | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 -12UNF | GH6 | PSU16S6NEX | 4.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 3 | 5 |
| 1 1/8-7UNC | GH6 | PSU18Y6NEX | 4.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-7UNC | GH7 | PSU18Y7NEX | 4.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH5 | PSU18S5NEX | 4.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH6 | PSU18S6NEX | 4.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/4-7UNC | GH6 | PSU20Y6NEX | 4.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-7UNC | GH8 | PSU20Y8NEX | 4.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-12UNF | GH5 | PSU20S5NEX | 4.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-12UNF | GH6 | PSU20S6NEX | 4.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 3/8-6UNC | GH6 | PSU22Z6NEX | 4.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-6UNC | GH8 | PSU22Z8NEX | 4.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-12UNF | GH5 | PSU22S5NEX | 4.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-12UNF | GH6 | PSU22S6NEX | 4.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 1/2-6UNC | GH6 | PSU24Z6NEX | 4.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-6UNC | GH8 | PSU24Z8NEX | 4.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-12UNF | GH5 | PSU24S5NEX | 4.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-12UNF | GH7 | PSU24S7NEX | 4.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000



・This product is different from JIS products in shape and dimensions, please be careful when using.

YAMAWA BY PIONEER

# LINEUP

## *HAND TAPS*

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

## ZELX MOLD HT

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

ANSI Length

# ZELX MOLD

## Hand Taps for Hard-to-Machine Materials

### Specification

HSS-Co

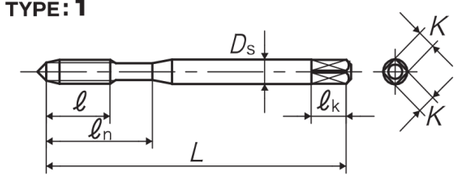
■Suitable for hard steels of 35 ~ 45HRC, such as forgings and thermal refined steels of high carbon steels and alloy steels, and die steels.

### Tapping Speed depending on Materials

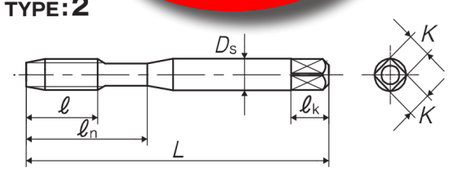
| Thermal refined steels 調質鋼 | Tool steels 工具鋼 |
|---|---|
| ~5 (m/min) | ~5 (m/min) |
| 35~45HRC | |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

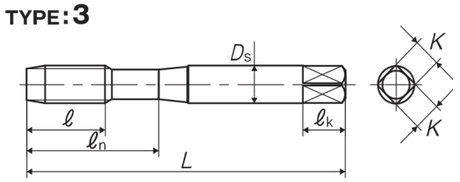
TYPE:1



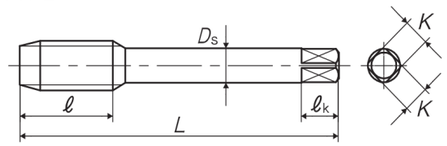

TYPE:2




TYPE:3




TYPE:4




Segment : 1B

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | |
| No.4-40UNC | GH2 | Y89599 | 5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.5-40UNC | GH2 | Y89601 | 5P | 1.937 | 0.374 | 0.625 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH3 | Y89602 | 5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.8-32UNC | GH3 | Y89604 | 5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.10-24UNC | GH3 | Y89606 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.10-32UNF | GH3 | Y89607 | 5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| 1/4-20UNC | GH3 | Y89613 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-28UNF | GH3 | Y89614 | 5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 5/16-18UNC | GH3 | Y89615 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-24UNF | GH3 | Y89616 | 5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 3/8-16UNC | GH3 | Y89617 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 3/8-24UNF | GH3 | Y89618 | 5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 7/16-14UNC | GH3 | Y89619 | 5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 4 | 4 |
| 7/16-20UNF | GH3 | Y89620 | 5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 4 | 4 |
| 1/2-13UNC | GH3 | Y89621 | 5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 4 | 4 |
| 1/2-20UNF | GH3 | Y89622 | 5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 4 | 4 |
| 5/8-11UNC | GH3 | Y89625 | 5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 5/8-18UNF | GH3 | Y89626 | 5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 4 | 4 |
| 3/4-10UNC | GH3 | Y89627 | 5P | 4.25 | 1.201 | - | 0.59 | 0.422 | 0.687 | 4 | 4 |
| 3/4-16UNF | GH3 | Y89628 | 5P | 4.25 | 1.201 | - | 0.59 | 0.422 | 0.687 | 4 | 4 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

ANSI
Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

DIN Length

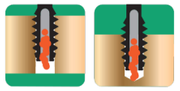
# HT

## Hand Taps

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

### Specification

HSS

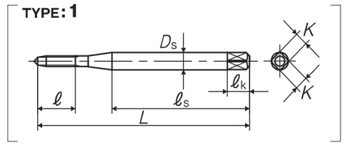


■The HT taps produce a chip that is relatively small and is stored in the taps flutes. The HT taps have a high cutting edge strength and can be used on a wide varity of machines from manual drilling machines and machining centers.

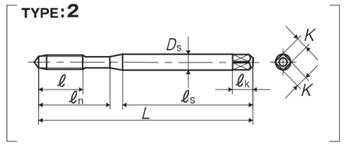
### Tapping Speed depending on Materials

| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 |
|---|---|---|
| 5~10 (m/min) | 5~10 (m/min) | 5~10 (m/min) |

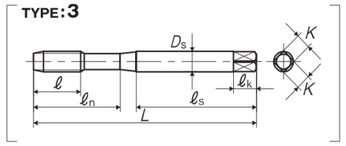
TYPE:1



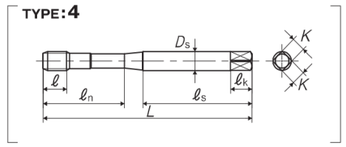

TYPE:2



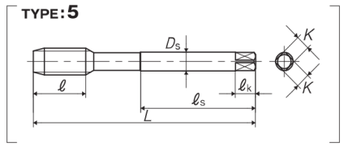

TYPE:3



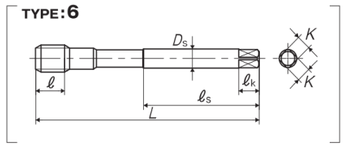

TYPE:4




TYPE:5




TYPE:6




Segment : 1A

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M2 × 0.4 | D3 | TS2.0E3NEB5 | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M2 × 0.4 | D3 | TS2.0E3NEBA | 1.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M2.2 × 0.45 | D3 | TS2.2F3NEB5 | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M2.2 × 0.45 | D3 | TS2.2F3NEBA | 1.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| M2.5 × 0.45 | D3 | TS2.5F3NEB5 | 5P | 2.205 | 0.354 | 0.693 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M2.5 × 0.45 | D3 | TS2.5F3NEBA | 1.5P | 2.205 | 0.354 | 0.693 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M2.6 × 0.45 | D3 | TS2.6F3NEB5 | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M2.6 × 0.45 | D3 | TS2.6F3NEBA | 1.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3 × 0.5 | D3 | TS3.0G3NEB5 | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3 × 0.5 | D3 | TS3.0G3NEBA | 1.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3.5 × 0.6 | D4 | TS3.5H4NEB5 | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| M3.5 × 0.6 | D4 | TS3.5H4NEBA | 1.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

ANSI
Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M4 × 0.7 | D4 | TS4.0I4NEB5 | 5P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M4 × 0.7 | D4 | TS4.0I4NEBA | 1.5P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 3 | 2 |
| M5 × 0.8 | D4 | TS5.0K4NEB5 | 5P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M5 × 0.8 | D4 | TS5.0K4NEBA | 1.5P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 3 | 2 |
| M6 × 1 | D5 | TS6.0M5NEB5 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M6 × 1 | D5 | TS6.0M5NEBA | 1.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| M7 × 1 | D5 | TS7.0M5NEB5 | 5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 1 | D5 | TS7.0M5NEBA | 1.5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M7 × 0.75 | D4 | TS7.0J4NEB5 | 5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| M7 × 0.75 | D4 | TS7.0J4NEBA | 1.5P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| M7 × 0.5 | D4 | TS7.0G4NEB5 | 5P | 3.543 | 0.394 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 4 |
| M7 × 0.5 | D4 | TS7.0G4NEBA | 1.5P | 3.543 | 0.394 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 4 |
| M8 × 1.25 | D5 | TS8.0N5NEB5 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1.25 | D5 | TS8.0N5NEBA | 1.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| M8 × 1 | D5 | TS8.0M5NEB5 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| M8 × 1 | D5 | TS8.0M5NEBA | 1.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| M8 × 0.75 | D4 | TS8.0J4NEB5 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| M8 × 0.75 | D4 | TS8.0J4NEBA | 1.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| M8 × 0.5 | D4 | TS8.0G4NEB5 | 5P | 3.543 | 0.394 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 4 |
| M8 × 0.5 | D4 | TS8.0G4NEBA | 1.5P | 3.543 | 0.394 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 4 |
| M9 × 1.25 | D5 | TS9.0N5NEB5 | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M9 × 1.25 | D5 | TS9.0N5NEBA | 1.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M9 × 1 | D5 | TS9.0M5NEB5 | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M9 × 1 | D5 | TS9.0M5NEBA | 1.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M10 × 1.5 | D6 | TS010O6NEB5 | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M10 × 1.5 | D6 | TS010O6NEBA | 1.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M10 × 1.25 | D5 | TS010N5NEB5 | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M10 × 1.25 | D5 | TS010N5NEBA | 1.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M10 × 1 | D5 | TS010M5NEB5 | 5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M10 × 1 | D5 | TS010M5NEBA | 1.5P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| M10 × 0.75 | D4 | TS010J4NEB5 | 5P | 3.937 | 0.512 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 4 | 4 |
| M10 × 0.75 | D4 | TS010J4NEBA | 1.5P | 3.937 | 0.512 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 4 | 4 |
| M11 × 1.5 | D6 | TS011O6NEB5 | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| M11 × 1.5 | D6 | TS011O6NEBA | 1.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| M12 × 1.75 | D6 | TS012P6NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| M12 × 1.75 | D6 | TS012P6NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| M12 × 1.5 | D6 | TS012O6NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| M12 × 1.5 | D6 | TS012O6NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| M12 × 1.25 | D6 | TS012N6NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| M12 × 1.25 | D6 | TS012N6NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| M12 × 1 | D5 | TS012M5NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| M12 × 1 | D5 | TS012M5NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| M14 × 2 | D7 | TS014Q7NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| M14 × 2 | D7 | TS014Q7NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| M14 × 1.5 | D6 | TS014O6NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| M14 × 1.5 | D6 | TS014O6NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| M14 × 1.25 | D6 | TS014N6NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| M14 × 1.25 | D6 | TS014N6NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| M14 × 1 | D5 | TS014M5NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| M14 × 1 | D5 | TS014M5NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## HT Hand Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M16 × 2 | D7 | TS016Q7NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| M16 × 2 | D7 | TS016Q7NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| M16 × 1.5 | D6 | TS016O6NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| M16 × 1.5 | D6 | TS016O6NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| M16 × 1 | D5 | TS016M5NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| M16 × 1 | D5 | TS016M5NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| M18 × 2.5 | D7 | TS018R7NEB5 | 5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 5 |
| M18 × 2.5 | D7 | TS018R7NEBA | 1.5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 5 |
| M18 × 2 | D7 | TS018Q7NEB5 | 5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 5 |
| M18 × 2 | D7 | TS018Q7NEBA | 1.5P | 4.921 | 1.299 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 5 |
| M18 × 1.5 | D6 | TS018O6NEB5 | 5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 6 |
| M18 × 1.5 | D6 | TS018O6NEBA | 1.5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 6 |
| M18 × 1 | D5 | TS018M5NEB5 | 5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 6 |
| M18 × 1 | D5 | TS018M5NEBA | 1.5P | 4.921 | 0.945 | - | 2.52 | 0.542 | 0.406 | 0.625 | 4 | 6 |
| M20 × 2.5 | D7 | TS020R7NEB5 | 5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 5 |
| M20 × 2.5 | D7 | TS020R7NEBA | 1.5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 5 |
| M20 × 2 | D7 | TS020Q7NEB5 | 5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 5 |
| M20 × 2 | D7 | TS020Q7NEBA | 1.5P | 5.512 | 1.299 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 5 |
| M20 × 1.5 | D6 | TS020O6NEB5 | 5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 6 |
| M20 × 1.5 | D6 | TS020O6NEBA | 1.5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 6 |
| M20 × 1 | D5 | TS020M5NEB5 | 5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 6 |
| M20 × 1 | D5 | TS020M5NEBA | 1.5P | 5.512 | 0.945 | - | 2.795 | 0.652 | 0.489 | 0.687 | 4 | 6 |
| M22 × 2.5 | D7 | TS022R7NEB5 | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| M22 × 2.5 | D7 | TS022R7NEBA | 1.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| M22 × 2 | D7 | TS022Q7NEB5 | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| M22 × 2 | D7 | TS022Q7NEBA | 1.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| M22 × 1.5 | D6 | TS022O6NEB5 | 5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 6 |
| M22 × 1.5 | D6 | TS022O6NEBA | 1.5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 6 |
| M22 × 1 | D5 | TS022M5NEB5 | 5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 6 |
| M22 × 1 | D5 | TS022M5NEBA | 1.5P | 5.512 | 0.945 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 6 |
| M24 × 3 | D8 | TS024S8NEB5 | 5P | 6.299 | 1.457 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 5 |
| M24 × 3 | D8 | TS024S8NEBA | 1.5P | 6.299 | 1.457 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 5 |
| M24 × 2 | D7 | TS024Q7NEB5 | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M24 × 2 | D7 | TS024Q7NEBA | 1.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M24 × 1.5 | D6 | TS024O6NEB5 | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M24 × 1.5 | D6 | TS024O6NEBA | 1.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M24 × 1 | D5 | TS024M5NEB5 | 5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M24 × 1 | D5 | TS024M5NEBA | 1.5P | 6.299 | 1.063 | - | 3.228 | 0.76 | 0.57 | 0.75 | 4 | 6 |
| M25 × 1.5 | D6 | TS025O6NEB5 | 5P | 6.299 | 1.063 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 6 |
| M25 × 1.5 | D6 | TS025O6NEBA | 1.5P | 6.299 | 1.063 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 6 |
| M26 × 1.5 | D6 | TS026O6NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M26 × 1.5 | D6 | TS026O6NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 3 | D8 | TS027S8NEB5 | 5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| M27 × 3 | D8 | TS027S8NEBA | 1.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| M27 × 2 | D7 | TS027Q7NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 2 | D7 | TS027Q7NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1.5 | D6 | TS027O6NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1.5 | D6 | TS027O6NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1 | D5 | TS027M5NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M27 × 1 | D5 | TS027M5NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## HT Hand Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M28 × 2 | D7 | TS028Q7NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 2 | D7 | TS028Q7NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1.5 | D6 | TS028O6NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1.5 | D6 | TS028O6NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1 | D5 | TS028M5NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M28 × 1 | D5 | TS028M5NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 6 |
| M30 × 3.5 | D9 | TS030T9NEB5 | 5P | 7.087 | 1.732 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M30 × 3.5 | D9 | TS030T9NEBA | 1.5P | 7.087 | 1.732 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M30 × 2 | D7 | TS030Q7NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 2 | D7 | TS030Q7NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1.5 | D6 | TS030O6NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1.5 | D6 | TS030O6NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1 | D5 | TS030M5NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M30 × 1 | D5 | TS030M5NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 6 |
| M32 × 2 | D7 | TS032Q7NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 2 | D7 | TS032Q7NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1.5 | D6 | TS032O6NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1.5 | D6 | TS032O6NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1 | D5 | TS032M5NEB5 | 5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M32 × 1 | D5 | TS032M5NEBA | 1.5P | 7.087 | 1.063 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| M33 × 3.5 | D9 | TS033T9NEB5 | 5P | 7.087 | 1.732 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| M33 × 3.5 | D9 | TS033T9NEBA | 1.5P | 7.087 | 1.732 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| M33 × 2 | D7 | TS033Q7NEB5 | 5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 2 | D7 | TS033Q7NEBA | 1.5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1.5 | D6 | TS033O6NEB5 | 5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1.5 | D6 | TS033O6NEBA | 1.5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1 | D5 | TS033M5NEB5 | 5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M33 × 1 | D5 | TS033M5NEBA | 1.5P | 7.087 | 1.142 | - | 3.622 | 1.108 | 0.831 | 1.062 | 4 | 6 |
| M36 × 4 | D9 | TS036U9NEB5 | 5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 4 | D9 | TS036U9NEBA | 1.5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 3 | D8 | TS036S8NEB5 | 5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 3 | D8 | TS036S8NEBA | 1.5P | 7.874 | 2.047 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| M36 × 2 | D7 | TS036Q7NEB5 | 5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 2 | D7 | TS036Q7NEBA | 1.5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1.5 | D6 | TS036O6NEB5 | 5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1.5 | D6 | TS036O6NEBA | 1.5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1 | D5 | TS036M5NEB5 | 5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M36 × 1 | D5 | TS036M5NEBA | 1.5P | 7.874 | 1.142 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 6 |
| M39 × 4 | D9 | TS039U9NEB5 | 5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 4 | D9 | TS039U9NEBA | 1.5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 3 | D8 | TS039S8NEB5 | 5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 3 | D8 | TS039S8NEBA | 1.5P | 7.874 | 2.047 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 5 |
| M39 × 2 | D7 | TS039Q7NEB5 | 5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 2 | D7 | TS039Q7NEBA | 1.5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1.5 | D6 | TS039O6NEB5 | 5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1.5 | D6 | TS039O6NEBA | 1.5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1 | D5 | TS039M5NEB5 | 5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M39 × 1 | D5 | TS039M5NEBA | 1.5P | 7.874 | 1.142 | - | 4.016 | 1.305 | 0.979 | 1.125 | 4 | 6 |
| M42 × 4.5 | D10 | TS042VONEB5 | 5P | 7.874 | 2.047 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 5 |
| M42 × 4.5 | D10 | TS042VONEBA | 1.5P | 7.874 | 2.047 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 5 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |



## HT Hand Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M42 × 2 | D7 | TS042Q7NEB5 | 5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 2 | D7 | TS042Q7NEBA | 1.5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1.5 | D6 | TS042O6NEB5 | 5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1.5 | D6 | TS042O6NEBA | 1.5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1 | D5 | TS042M5NEB5 | 5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M42 × 1 | D5 | TS042M5NEBA | 1.5P | 7.874 | 1.142 | - | 4.016 | 1.43 | 1.072 | 1.25 | 4 | 6 |
| M45 × 4.5 | D10 | TS045VONEB5 | 5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 4.5 | D10 | TS045VONEBA | 1.5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 3 | D8 | TS045S8NEB5 | 5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 3 | D8 | TS045S8NEBA | 1.5P | 8.661 | 2.323 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 5 |
| M45 × 2 | D7 | TS045Q7NEB5 | 5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 2 | D7 | TS045Q7NEBA | 1.5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1.5 | D6 | TS045O6NEB5 | 5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1.5 | D6 | TS045O6NEBA | 1.5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1 | D5 | TS045M5NEB5 | 5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M45 × 1 | D5 | TS045M5NEBA | 1.5P | 8.661 | 1.22 | - | 4.409 | 1.519 | 1.139 | 1.25 | 4 | 6 |
| M48 × 5 | D11 | TS048W-NEB5 | 5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 5 | D11 | TS048W-NEBA | 1.5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 3 | D9 | TS048S9NEB5 | 5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 3 | D9 | TS048S9NEBA | 1.5P | 9.843 | 2.559 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 5 |
| M48 × 2 | D7 | TS048Q7NEB5 | 5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 2 | D7 | TS048Q7NEBA | 1.5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1.5 | D7 | TS048O7NEB5 | 5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1.5 | D7 | TS048O7NEBA | 1.5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1 | D6 | TS048M6NEB5 | 5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| M48 × 1 | D6 | TS048M6NEBA | 1.5P | 9.843 | 1.22 | - | 5.039 | 1.644 | 1.233 | 1.375 | 4 | 6 |
| For Unified Threads | | | | | | | | | | | | |
| No.0-80UNF | GH1 | TSUN0B1NEB5 | 5P | 1.772 | 0.236 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.0-80UNF | GH1 | TSUN0B1NEBA | 1.5P | 1.772 | 0.236 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.0-80UNF | GH2 | TSUN0B2NEB5 | 5P | 1.772 | 0.236 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.0-80UNF | GH2 | TSUN0B2NEBA | 1.5P | 1.772 | 0.236 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-64UNC | GH1 | TSUN1D1NEB5 | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-64UNC | GH1 | TSUN1D1NEBA | 1.5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-64UNC | GH2 | TSUN1D2NEB5 | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-64UNC | GH2 | TSUN1D2NEBA | 1.5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-72UNF | GH1 | TSUN1C1NEB5 | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-72UNF | GH1 | TSUN1C1NEBA | 1.5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-72UNF | GH2 | TSUN1C2NEB5 | 5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.1-72UNF | GH2 | TSUN1C2NEBA | 1.5P | 1.772 | 0.276 | - | 1.161 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH1 | TSUN2E1NEB5 | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.2-56UNC | GH1 | TSUN2E1NEBA | 1.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.2-56UNC | GH2 | TSUN2E2NEB5 | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.2-56UNC | GH2 | TSUN2E2NEBA | 1.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.2-64UNF | GH1 | TSUN2D1NEB5 | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.2-64UNF | GH1 | TSUN2D1NEBA | 1.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.2-64UNF | GH2 | TSUN2D2NEB5 | 5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.2-64UNF | GH2 | TSUN2D2NEBA | 1.5P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.3-48UNC | GH1 | TSUN3F1NEB5 | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.3-48UNC | GH1 | TSUN3F1NEBA | 1.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

# Hand Tap Series

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## HT Hand Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No.3-48UNC | GH2 | TSUN3F2NEB5 | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.3-48UNC | GH2 | TSUN3F2NEBA | 1.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.3-56UNF | GH1 | TSUN3E1NEB5 | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.3-56UNF | GH1 | TSUN3E1NEBA | 1.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.3-56UNF | GH2 | TSUN3E2NEB5 | 5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.3-56UNF | GH2 | TSUN3E2NEBA | 1.5P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.4-40UNC | GH2 | TSUN4H2NEB5 | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.4-40UNC | GH2 | TSUN4H2NEBA | 1.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.4-40UNC | GH3 | TSUN4H3NEB5 | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.4-40UNC | GH3 | TSUN4H3NEBA | 1.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.4-48UNF | GH1 | TSUN4F1NEB5 | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.4-48UNF | GH1 | TSUN4F1NEBA | 1.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.4-48UNF | GH2 | TSUN4F2NEB5 | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.4-48UNF | GH2 | TSUN4F2NEBA | 1.5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-40UNC | GH2 | TSUN5H2NEB5 | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-40UNC | GH2 | TSUN5H2NEBA | 1.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-40UNC | GH3 | TSUN5H3NEB5 | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-40UNC | GH3 | TSUN5H3NEBA | 1.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-44UNF | GH1 | TSUN5G1NEB5 | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-44UNF | GH1 | TSUN5G1NEBA | 1.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-44UNF | GH2 | TSUN5G2NEB5 | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-44UNF | GH2 | TSUN5G2NEBA | 1.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-44UNF | GH3 | TSUN5G3NEB5 | 5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.5-44UNF | GH3 | TSUN5G3NEBA | 1.5P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH2 | TSUN6J2NEB5 | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH2 | TSUN6J2NEBA | 1.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH3 | TSUN6J3NEB5 | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-32UNC | GH3 | TSUN6J3NEBA | 1.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-40UNF | GH2 | TSUN6H2NEB5 | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-40UNF | GH2 | TSUN6H2NEBA | 1.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-40UNF | GH3 | TSUN6H3NEB5 | 5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.6-40UNF | GH3 | TSUN6H3NEBA | 1.5P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 3 | 2 |
| No.8-32UNC | GH2 | TSUN8J2NEB5 | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-32UNC | GH2 | TSUN8J2NEBA | 1.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-32UNC | GH3 | TSUN8J3NEB5 | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-32UNC | GH3 | TSUN8J3NEBA | 1.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-36UNF | GH2 | TSUN8I2NEB5 | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-36UNF | GH2 | TSUN8I2NEBA | 1.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-36UNF | GH3 | TSUN8I3NEB5 | 5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-36UNF | GH3 | TSUN8I3NEBA | 1.5P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.10-24UNC | GH2 | TSUNAM2NEB5 | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-24UNC | GH2 | TSUNAM2NEBA | 1.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-24UNC | GH3 | TSUNAM3NEB5 | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-24UNC | GH3 | TSUNAM3NEBA | 1.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-32UNF | GH2 | TSUNAJ2NEB5 | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-32UNF | GH2 | TSUNAJ2NEBA | 1.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-32UNF | GH3 | TSUNAJ3NEB5 | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-32UNF | GH3 | TSUNAJ3NEBA | 1.5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.12-24UNC | GH2 | TSUNCM2NEB5 | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 4 | 2 |
| No.12-24UNC | GH2 | TSUNCM2NEBA | 1.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 4 | 2 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square
L | ℓ | ℓn | ℓs | Ds | K | ℓk

## HT Hand Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No.12-24UNC | GH3 | TSUNCM3NEB5 | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 4 | 2 |
| No.12-24UNC | GH3 | TSUNCM3NEBA | 1.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 4 | 2 |
| No.12-28UNF | GH2 | TSUNCK2NEB5 | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 4 | 2 |
| No.12-28UNF | GH2 | TSUNCK2NEBA | 1.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 4 | 2 |
| No.12-28UNF | GH3 | TSUNCK3NEB5 | 5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 4 | 2 |
| No.12-28UNF | GH3 | TSUNCK3NEBA | 1.5P | 3.15 | 0.591 | 0.984 | 1.953 | 0.22 | 0.165 | 0.281 | 4 | 2 |
| 1/4-20UNC | GH3 | TSU04N3NEB5 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-20UNC | GH3 | TSU04N3NEBA | 1.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-20UNC | GH4 | TSU04N4NEB5 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-20UNC | GH4 | TSU04N4NEBA | 1.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-20UNC | GH5 | TSU04N5NEB5 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-20UNC | GH5 | TSU04N5NEBA | 1.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | GH2 | TSU04K2NEB5 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | GH2 | TSU04K2NEBA | 1.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | GH3 | TSU04K3NEB5 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | GH3 | TSU04K3NEBA | 1.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | GH4 | TSU04K4NEB5 | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | GH4 | TSU04K4NEBA | 1.5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 5/16-18UNC | GH3 | TSU05O3NEB5 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-18UNC | GH3 | TSU05O3NEBA | 1.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-18UNC | GH4 | TSU05O4NEB5 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-18UNC | GH4 | TSU05O4NEBA | 1.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-18UNC | GH5 | TSU05O5NEB5 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-18UNC | GH5 | TSU05O5NEBA | 1.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-24UNF | GH3 | TSU05M3NEB5 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-24UNF | GH3 | TSU05M3NEBA | 1.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-24UNF | GH4 | TSU05M4NEB5 | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 5/16-24UNF | GH4 | TSU05M4NEBA | 1.5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| 3/8-16UNC | GH3 | TSU06P3NEB5 | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 3/8-16UNC | GH3 | TSU06P3NEBA | 1.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 3/8-16UNC | GH5 | TSU06P5NEB5 | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 3/8-16UNC | GH5 | TSU06P5NEBA | 1.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 3/8-24UNF | GH3 | TSU06M3NEB5 | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 3/8-24UNF | GH3 | TSU06M3NEBA | 1.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 3/8-24UNF | GH4 | TSU06M4NEB5 | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 3/8-24UNF | GH4 | TSU06M4NEBA | 1.5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 4 | 3 |
| 7/16-14UNC | GH4 | TSU07Q4NEB5 | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| 7/16-14UNC | GH4 | TSU07Q4NEBA | 1.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| 7/16-14UNC | GH5 | TSU07Q5NEB5 | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| 7/16-14UNC | GH5 | TSU07Q5NEBA | 1.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| 7/16-20UNF | GH3 | TSU07N3NEB5 | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| 7/16-20UNF | GH3 | TSU07N3NEBA | 1.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| 7/16-20UNF | GH4 | TSU07N4NEB5 | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| 7/16-20UNF | GH4 | TSU07N4NEBA | 1.5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 4 | 5 |
| 1/2-13UNC | GH3 | TSU08R3NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-13UNC | GH3 | TSU08R3NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-13UNC | GH4 | TSU08R4NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-13UNC | GH4 | TSU08R4NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-13UNC | GH5 | TSU08R5NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-13UNC | GH5 | TSU08R5NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## HT Hand Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/2-20UNF | GH3 | TSU08N3NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-20UNF | GH3 | TSU08N3NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-20UNF | GH4 | TSU08N4NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-20UNF | GH4 | TSU08N4NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-20UNF | GH5 | TSU08N5NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 1/2-20UNF | GH5 | TSU08N5NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 4 | 5 |
| 9/16-12UNC | GH3 | TSU09S3NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-12UNC | GH3 | TSU09S3NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-12UNC | GH4 | TSU09S4NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-12UNC | GH4 | TSU09S4NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-12UNC | GH5 | TSU09S5NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-12UNC | GH5 | TSU09S5NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-18UNF | GH3 | TSU09O3NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-18UNF | GH3 | TSU09O3NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-18UNF | GH4 | TSU09O4NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-18UNF | GH4 | TSU09O4NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-18UNF | GH5 | TSU09O5NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 9/16-18UNF | GH5 | TSU09O5NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 4 | 5 |
| 5/8-11UNC | GH3 | TSU10U3NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-11UNC | GH3 | TSU10U3NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-11UNC | GH4 | TSU10U4NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-11UNC | GH4 | TSU10U4NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-11UNC | GH5 | TSU10U5NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-11UNC | GH5 | TSU10U5NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-11UNC | GH6 | TSU10U6NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-11UNC | GH6 | TSU10U6NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-18UNF | GH3 | TSU10O3NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-18UNF | GH3 | TSU10O3NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-18UNF | GH4 | TSU10O4NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-18UNF | GH4 | TSU10O4NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-18UNF | GH5 | TSU10O5NEB5 | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 5/8-18UNF | GH5 | TSU10O5NEBA | 1.5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 4 | 5 |
| 3/4-10UNC | GH3 | TSU12V3NEB5 | 5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-10UNC | GH3 | TSU12V3NEBA | 1.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-10UNC | GH5 | TSU12V5NEB5 | 5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-10UNC | GH5 | TSU12V5NEBA | 1.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-10UNC | GH6 | TSU12V6NEB5 | 5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-10UNC | GH6 | TSU12V6NEBA | 1.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH3 | TSU12P3NEB5 | 5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH3 | TSU12P3NEBA | 1.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH4 | TSU12P4NEB5 | 5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH4 | TSU12P4NEBA | 1.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH5 | TSU12P5NEB5 | 5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 3/4-16UNF | GH5 | TSU12P5NEBA | 1.5P | 4.921 | 1.299 | - | 2.52 | 0.59 | 0.442 | 0.687 | 4 | 5 |
| 7/8-9UNC | GH5 | TSU14W5NEB5 | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-9UNC | GH5 | TSU14W5NEBA | 1.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-9UNC | GH6 | TSU14W6NEB5 | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-9UNC | GH6 | TSU14W6NEBA | 1.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-14UNF | GH4 | TSU14Q4NEB5 | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-14UNF | GH4 | TSU14Q4NEBA | 1.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |



## HT Hand Taps

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/8-14UNF | GH6 | TSU14Q6NEB5 | 5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 7/8-14UNF | GH6 | TSU14Q6NEBA | 1.5P | 5.512 | 1.299 | - | 2.795 | 0.697 | 0.523 | 0.75 | 4 | 5 |
| 1 -8UNC | GH4 | TSU16X4NEB5 | 5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH4 | TSU16X4NEBA | 1.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH5 | TSU16X5NEB5 | 5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH5 | TSU16X5NEBA | 1.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH6 | TSU16X6NEB5 | 5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH6 | TSU16X6NEBA | 1.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH7 | TSU16X7NEB5 | 5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -8UNC | GH7 | TSU16X7NEBA | 1.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH4 | TSU16S4NEB5 | 5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH4 | TSU16S4NEBA | 1.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH5 | TSU16S5NEB5 | 5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH5 | TSU16S5NEBA | 1.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH6 | TSU16S6NEB5 | 5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 -12UNF | GH6 | TSU16S6NEBA | 1.5P | 6.299 | 1.457 | - | 3.228 | 0.8 | 0.6 | 0.812 | 4 | 5 |
| 1 1/8-7UNC | GH6 | TSU18Y6NEB5 | 5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-7UNC | GH6 | TSU18Y6NEBA | 1.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-7UNC | GH7 | TSU18Y7NEB5 | 5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-7UNC | GH7 | TSU18Y7NEBA | 1.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH5 | TSU18S5NEB5 | 5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH5 | TSU18S5NEBA | 1.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH6 | TSU18S6NEB5 | 5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/8-12UNF | GH6 | TSU18S6NEBA | 1.5P | 7.087 | 1.732 | - | 3.622 | 0.896 | 0.672 | 0.875 | 4 | 5 |
| 1 1/4-7UNC | GH6 | TSU20Y6NEB5 | 5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-7UNC | GH6 | TSU20Y6NEBA | 1.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-7UNC | GH8 | TSU20Y8NEB5 | 5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-7UNC | GH8 | TSU20Y8NEBA | 1.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 4 | 5 |
| 1 1/4-12UNF | GH5 | TSU20S5NEB5 | 5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 6 | 5 |
| 1 1/4-12UNF | GH5 | TSU20S5NEBA | 1.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 6 | 5 |
| 1 1/4-12UNF | GH6 | TSU20S6NEB5 | 5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 6 | 5 |
| 1 1/4-12UNF | GH6 | TSU20S6NEBA | 1.5P | 7.087 | 1.929 | - | 3.622 | 1.021 | 0.766 | 1 | 6 | 5 |
| 1 3/8-6UNC | GH6 | TSU22Z6NEB5 | 5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-6UNC | GH6 | TSU22Z6NEBA | 1.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-6UNC | GH8 | TSU22Z8NEB5 | 5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-6UNC | GH8 | TSU22Z8NEBA | 1.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 4 | 5 |
| 1 3/8-12UNF | GH5 | TSU22S5NEB5 | 5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 6 | 5 |
| 1 3/8-12UNF | GH5 | TSU22S5NEBA | 1.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 6 | 5 |
| 1 3/8-12UNF | GH6 | TSU22S6NEB5 | 5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 6 | 5 |
| 1 3/8-12UNF | GH6 | TSU22S6NEBA | 1.5P | 7.874 | 2.165 | - | 4.016 | 1.108 | 0.831 | 1.062 | 6 | 5 |
| 1 1/2-6UNC | GH6 | TSU24Z6NEB5 | 5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-6UNC | GH6 | TSU24Z6NEBA | 1.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-6UNC | GH8 | TSU24Z8NEB5 | 5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-6UNC | GH8 | TSU24Z8NEBA | 1.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 4 | 5 |
| 1 1/2-12UNF | GH5 | TSU24S5NEB5 | 5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 6 | 5 |
| 1 1/2-12UNF | GH5 | TSU24S5NEBA | 1.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 6 | 5 |
| 1 1/2-12UNF | GH7 | TSU24S7NEB5 | 5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 6 | 5 |
| 1 1/2-12UNF | GH7 | TSU24S7NEBA | 1.5P | 7.874 | 2.323 | - | 4.016 | 1.233 | 0.925 | 1.125 | 6 | 5 |

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

YAMAWA BY PIONEER

# LINEUP
## *ROLL TAPS*

**DON'T SEE IT?**
**GIVE US A CALL!**
**847.593.6000**

MHRZ
HP-RZ

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

Z-PRO DIN Length

# MHRZ

Z-PRO
Roll Taps for Medium Hardness Carbon Steels

ANSI

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

### Specification

HSS-Co | Coating | 2

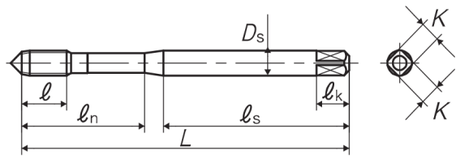
■Suitable tapping in thermal refined steels (～35HRC).

### Tapping Speed depending on Materials

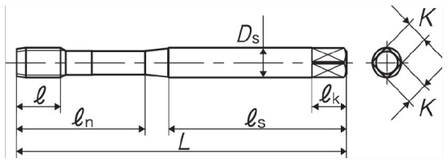
| Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Alloy steels 合金鋼 | Thermal refined steels 調質鋼 |
|---|---|---|---|
| 10~30 (m/min) | 10~30 (m/min) | 10~30 (m/min) | 10~20 (m/min) |
| | | | 25~35HRC |

**DON'T SEE IT?**
**GIVE US A CALL!**
**847.593.6000**

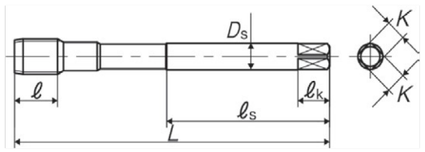
TYPE: 1




TYPE: 2




TYPE: 3




Segment : 1J

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | Lobe | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | | |
| No.10-24UNC | H6 | 5110103039 | 4P | 2.756 | 0.354 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 5 | 1 |
| No.10-24UNC | H6 | 5111103039 | 2P | 2.756 | 0.354 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 5 | 1 |
| No.10-32UNF | H6 | 5110103041 | 4P | 2.756 | 0.354 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 5 | 1 |
| No.10-32UNF | H6 | 5111103041 | 2P | 2.756 | 0.354 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 5 | 1 |
| 1/4-20UNC | H7 | 5110103058 | 4P | 3.15 | 0.433 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 5 | 1 |
| 1/4-20UNC | H7 | 5111103058 | 2P | 3.15 | 0.433 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 5 | 1 |
| 1/4-28UNF | H6 | 5110103062 | 4P | 3.15 | 0.433 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 5 | 1 |
| 1/4-28UNF | H6 | 5111103062 | 2P | 3.15 | 0.433 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 5 | 1 |
| 5/16-18UNC | H8 | 5110103071 | 4P | 3.543 | 0.472 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 2 |
| 5/16-18UNC | H8 | 5111103071 | 2P | 3.543 | 0.472 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 2 |
| 5/16-24UNF | H7 | 5110103074 | 4P | 3.543 | 0.472 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 2 |
| 5/16-24UNF | H7 | 5111103074 | 2P | 3.543 | 0.472 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 2 |
| 3/8-16UNC | H8 | 5110103082 | 4P | 3.937 | 0.512 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 8 | 2 |
| 3/8-16UNC | H8 | 5111103082 | 2P | 3.937 | 0.512 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 8 | 2 |
| 3/8-24UNF | H7 | 5110103085 | 4P | 3.937 | 0.512 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 8 | 2 |
| 3/8-24UNF | H7 | 5111103085 | 2P | 3.937 | 0.512 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 8 | 2 |
| 7/16-14UNC | H9 | 5110103098 | 4P | 3.937 | 0.512 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 3 |

Think threads with YAMAWA

・This product is different from JIS products in shape and dimensions, please be careful when using.

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | Lobe | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/16-14UNC | H9 | 5111103098 | 2P | 3.937 | 0.512 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 3 |
| 7/16-20UNF | H8 | 5110103101 | 4P | 3.937 | 0.512 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 3 |
| 7/16-20UNF | H8 | 5111103101 | 2P | 3.937 | 0.512 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 3 |
| 1/2-13UNC | H9 | 5110103111 | 4P | 4.331 | 0.591 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 3 |
| 1/2-13UNC | H9 | 5111103111 | 2P | 4.331 | 0.591 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 3 |
| 1/2-20UNF | H8 | 5110103115 | 4P | 4.331 | 0.591 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 3 |
| 1/2-20UNF | H8 | 5111103115 | 2P | 4.331 | 0.591 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 3 |
| 9/16-12UNC | H10 | 5110103126 | 4P | 4.331 | 0.709 | - | 2.205 | 0.429 | 0.322 | 0.5 | 8 | 3 |
| 9/16-12UNC | H10 | 5111103126 | 2P | 4.331 | 0.709 | - | 2.205 | 0.429 | 0.322 | 0.5 | 8 | 3 |
| 9/16-18UNF | H9 | 5110103129 | 4P | 4.331 | 0.709 | - | 2.205 | 0.429 | 0.322 | 0.5 | 8 | 3 |
| 9/16-18UNF | H9 | 5111103129 | 2P | 4.331 | 0.709 | - | 2.205 | 0.429 | 0.322 | 0.5 | 8 | 3 |

Number of oil grooves : 1/4 and smaller = 5, 5/16 = 6, 3/8 and larger = 8
For 1/4 and smaller, external centers of 2P chamfer taps are removed.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |



DIN Length

# HP-RZ

## High Performance Roll Taps, Coated

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

ANSI

### Specification

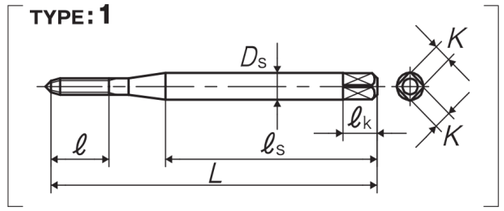
HSS-P | Coating | <1.5D | 2~4

■HP-RZ is the forming tap suitable for steels (up to 35HRC) and light alloys, and applicable to the high speed tapping. Optimum coating suitable to the tapping condition.

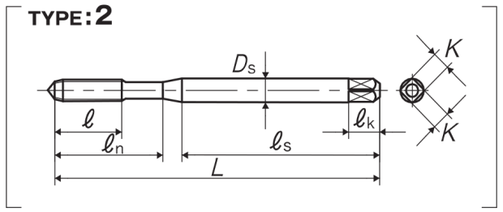
### Tapping Speed depending on Materials

| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Alloy steels 合金鋼 | Thermal refined steels 調質鋼 | Stainless steels ステンレス鋼 | Aluminum alloy castings アルミ合金鋳物 |
|---|---|---|---|---|---|---|
| 15~30 (m/min) | 15~30 (m/min) | 15~25 (m/min) | 15~25 (m/min) | 15~25 (m/min) 25~35HRC | 10~25 (m/min) | 15~30 (m/min) |

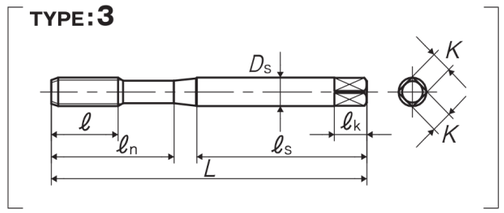
TYPE : 1



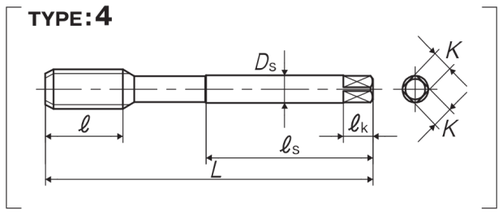

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1J

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | Lobe | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Metric Threads | | | | | | | | | | | | |
| M3 × 0.5 | D5 | 386885M | 4P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| M3 × 0.5 | D5 | 386864M | 2P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| M3.5 × 0.6 | D6 | 386886M | 4P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| M3.5 × 0.6 | D6 | 386865M | 2P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| M4 × 0.7 | D6 | 386887M | 4P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| M4 × 0.7 | D6 | 386866M | 2P | 2.48 | 0.512 | 0.815 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| M5 × 0.8 | D7 | 386888M | 4P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| M5 × 0.8 | D7 | 386867M | 2P | 2.756 | 0.551 | 0.984 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| M6 × 1 | D8 | 386889M | 4P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| M6 × 1 | D8 | 386868M | 2P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| M7 × 1 | D9 | 386870M | 4P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| M7 × 1 | D9 | 386869M | 2P | 3.543 | 0.748 | 1.339 | 1.831 | 0.318 | 0.238 | 0.375 | 4 | 3 |
| M8 × 1.25 | D9 | 386874M | 4P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| M8 × 1.25 | D9 | 386873M | 2P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| M8 × 1 | D9 | 386872M | 4P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| M8 × 1 | D9 | 386871M | 2P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| M10 × 1.5 | D10 | 386878M | 4P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 8 | 3 |

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

# Roll Tap Series

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | Lobe | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M10 × 1.5 | D10 | 386877M | 2P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 8 | 3 |
| M10 × 1.25 | D9 | 386876M | 4P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 8 | 3 |
| M10 × 1.25 | D9 | 386875M | 2P | 3.937 | 0.906 | 1.535 | 2.126 | 0.381 | 0.286 | 0.437 | 8 | 3 |
| M12 × 1.75 | D11 | 386884M | 4P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| M12 × 1.75 | D11 | 386883M | 2P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| M12 × 1.5 | D9 | 386882M | 4P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| M12 × 1.5 | D9 | 386881M | 2P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| M12 × 1.25 | D9 | 386880M | 4P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| M12 × 1.25 | D9 | 386879M | 2P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| For Unified Threads | | | | | | | | | | | | |
| No.0-80UNF | H2 | 386800M | 2P | 1.772 | 0.236 | - | 1.161 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.2-56UNC | H3 | 386801M | 2P | 1.772 | 0.314 | - | 1.161 | 0.141 | 0.11 | 0.187 | 4 | 1 |
| No.3-48UNC | H3 | 386802M | 2P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.3-56UNF | H3 | 386803M | 2P | 2.205 | 0.354 | 0.681 | 1.28 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.4-40UNC | H3 | 386804M | 2P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.4-40UNC | H5 | 386805M | 2P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.4-48UNF | H3 | 386806M | 2P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.4-48UNF | H5 | 386807M | 2P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.5-40UNC | H5 | 386799M | 2P | 2.205 | 0.433 | 0.736 | 1.339 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.6-32UNC | H3 | 386810M | 4P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.6-32UNC | H3 | 386808M | 2P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.6-32UNC | H5 | 386811M | 4P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.6-32UNC | H5 | 386809M | 2P | 2.205 | 0.433 | 0.748 | 1.339 | 0.141 | 0.11 | 0.187 | 4 | 2 |
| No.8-32UNC | H3 | 386814M | 4P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-32UNC | H3 | 386812M | 2P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-32UNC | H5 | 386815M | 4P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.8-32UNC | H5 | 386813M | 2P | 2.48 | 0.512 | 0.827 | 1.535 | 0.168 | 0.131 | 0.25 | 4 | 2 |
| No.10-24UNC | H4 | 386818M | 4P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-24UNC | H4 | 386816M | 2P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-24UNC | H6 | 386819M | 4P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-24UNC | H6 | 386817M | 2P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-32UNF | H4 | 386822M | 4P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-32UNF | H4 | 386820M | 2P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-32UNF | H6 | 386823M | 4P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| No.10-32UNF | H6 | 386821M | 2P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.152 | 0.25 | 4 | 2 |
| 1/4-20UNC | H4 | 386826M | 4P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-20UNC | H4 | 386824M | 2P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-20UNC | H6 | 386827M | 4P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-20UNC | H6 | 386825M | 2P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | H4 | 386830M | 4P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | H4 | 386828M | 2P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | H6 | 386831M | 4P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 1/4-28UNF | H6 | 386829M | 2P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 4 | 2 |
| 5/16-18UNC | H5 | 386834M | 4P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| 5/16-18UNC | H5 | 386832M | 2P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| 5/16-18UNC | H7 | 386835M | 4P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| 5/16-18UNC | H7 | 386833M | 2P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| 5/16-24UNF | H5 | 386838M | 4P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| 5/16-24UNF | H5 | 386836M | 2P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| 5/16-24UNF | H7 | 386839M | 4P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

## HP-RZ High Performance Roll Taps, Coated

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | Lobe | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/16-24UNF | H7 | 386837M | 2P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 6 | 3 |
| 3/8-16UNC | H5 | 386842M | 4P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 6 | 3 |
| 3/8-16UNC | H5 | 386840M | 2P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 6 | 3 |
| 3/8-16UNC | H7 | 386843M | 4P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 6 | 3 |
| 3/8-16UNC | H7 | 386841M | 2P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 6 | 3 |
| 3/8-24UNF | H5 | 386846M | 4P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 6 | 3 |
| 3/8-24UNF | H5 | 386844M | 2P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 6 | 3 |
| 3/8-24UNF | H7 | 386847M | 4P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 6 | 3 |
| 3/8-24UNF | H7 | 386845M | 2P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 6 | 3 |
| 7/16-14UNC | H5 | 386850M | 4P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 4 |
| 7/16-14UNC | H5 | 386848M | 2P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 4 |
| 7/16-14UNC | H7 | 386851M | 4P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 4 |
| 7/16-14UNC | H7 | 386849M | 2P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 4 |
| 7/16-20UNF | H5 | 386854M | 4P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 4 |
| 7/16-20UNF | H5 | 386852M | 2P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 4 |
| 7/16-20UNF | H7 | 386855M | 4P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 4 |
| 7/16-20UNF | H7 | 386853M | 2P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 8 | 4 |
| 1/2-13UNC | H5 | 386858M | 4P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| 1/2-13UNC | H5 | 386856M | 2P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| 1/2-13UNC | H7 | 386859M | 4P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| 1/2-13UNC | H7 | 386857M | 2P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| 1/2-20UNF | H5 | 386862M | 4P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| 1/2-20UNF | H5 | 386860M | 2P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| 1/2-20UNF | H7 | 386863M | 4P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |
| 1/2-20UNF | H7 | 386861M | 2P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 8 | 4 |

Number of oil grooves : Metric thread : M3～M7 = 2, M8 = 3, M10 and larger = 4
Unified thread : No.4 and smaller = non, No.5～1/4 = 2, 5/16～3/8 = 3, 7/16 and larger = 4
For M6, 1/4 and smaller, external centers of 2P chamfer taps are removed.

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

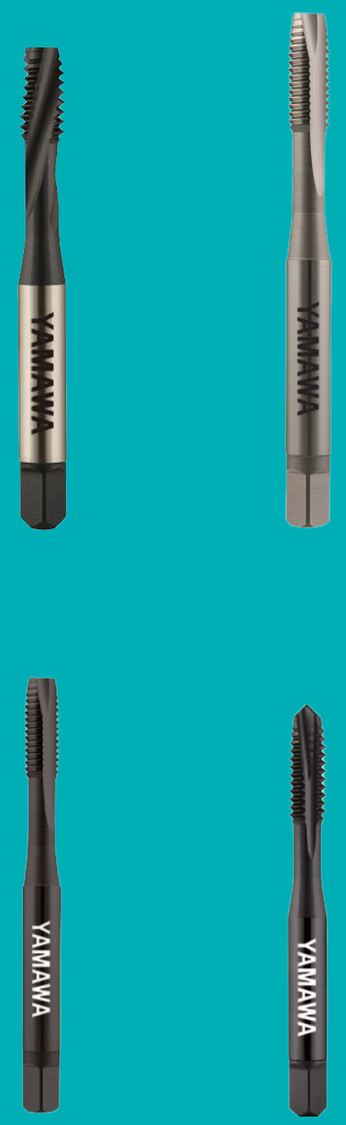
Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

YAMAWA BY PIONEER

# LINEUP

## SPECIAL THREAD TAPS

DON'T SEE IT?
GIVE US A CALL!
847.593.6000




ZELX NI SP STI
ZELX NI PO STI
PO STI
PO OX STI





| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

ANSI Length

# ZELX NI SP STI

Spiral Fluted Taps for Helical Coil Wire Screw Thread Inserts and for Nickel Base Alloys

ANSI

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

### Specification

HSS-P | NX Nitride+Oxide | Synchronized

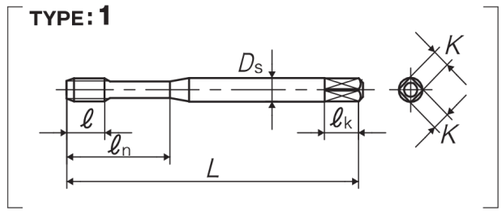
■ZELX NI SP STI is the tap for nickel base alloys which, with nickel as main composition, have much higher corrosion resistance and higher heat resistance than steels, and produces threads oversize enough to accommodate helical coil wire thread inserts.

### Tapping Speed depending on Materials

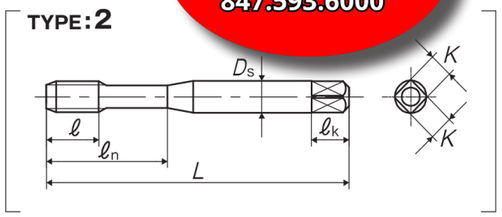
| Medium carbon steels 中炭素鋼 | High carbon steels 高炭素鋼 | Stainless steels ステンレス鋼 | Nickel base alloys ニッケル基合金 |
|---|---|---|---|
| 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~10 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

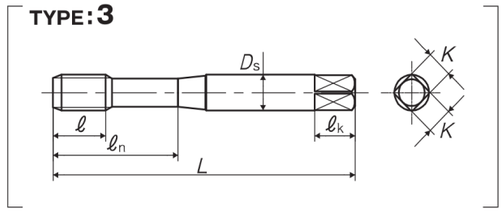
TYPE:1



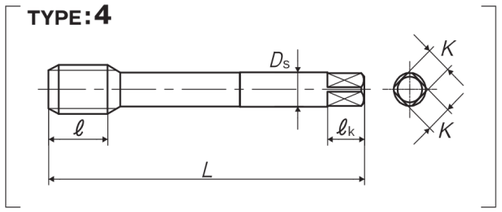

TYPE:2




TYPE:3




TYPE:4




Segment : 1D

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | |
| No.2-56UNC | GH2 | Y87400 | 3P | 1.875 | 0.236 | 0.562 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH1 | Y87403 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH2 | Y87404 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH2 | Y87004 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH3 | Y87420 | 3P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH3 | Y87419 | 1.5P | 2 | 0.276 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH2 | Y87408 | 3P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.6-32UNC | GH2 | Y87008 | 1.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.6-32UNC | GH3 | Y87424 | 3P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.6-32UNC | GH3 | Y87425 | 1.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.6-32UNC | GH5 | Y87042 | 1.5P | 2.375 | 0.354 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.6-40UNF | GH2 | Y87409 | 3P | 2.125 | 0.276 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH1 | Y81409 | 3P | 2.375 | 0.354 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |
| No.8-32UNC | GH2 | Y87410 | 3P | 2.375 | 0.354 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |
| No.8-32UNC | GH2 | Y87026 | 1.5P | 2.375 | 0.354 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |
| No.8-32UNC | GH3 | Y87426 | 3P | 2.375 | 0.354 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

## ZELX NI SP STI Spiral Fluted Taps for Helical Coil Wire Screw Thread Inserts and for Nickel Base Alloys

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No.10-24UNC | GH2 | Y87412 | 3P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-24UNC | GH2 | Y87012 | 1.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-24UNC | GH3 | Y87428 | 3P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-24UNC | GH3 | Y87028 | 1.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-24UNC | GH5 | Y87445 | 1.5P | 2.5 | 0.433 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-32UNF | GH2 | Y87413 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-32UNF | GH3 | Y87429 | 3P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-32UNF | GH3 | Y87029 | 1.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-32UNF | GH5 | Y87057 | 1.5P | 2.5 | 0.354 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH2 | Y87448 | 3P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-20UNC | GH3 | Y87458 | 3P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-20UNC | GH3 | Y87058 | 1.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-20UNC | GH5 | Y87090 | 1.5P | 2.718 | 0.472 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-28UNF | GH2 | Y87449 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-28UNF | GH2 | Y87059 | 1.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-28UNF | GH3 | Y87459 | 3P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-28UNF | GH5 | Y87091 | 1.5P | 2.718 | 0.394 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH2 | Y87060 | 1.5P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 5/16-18UNC | GH3 | Y87460 | 3P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 5/16-18UNC | GH4 | Y87470 | 3P | 2.937 | 0.551 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 5/16-24UNF | GH2 | Y87451 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 5/16-24UNF | GH3 | Y87461 | 3P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 5/16-24UNF | GH3 | Y87061 | 1.5P | 2.937 | 0.394 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH3 | Y87462 | 3P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 3/8-16UNC | GH3 | Y87062 | 1.5P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 3/8-16UNC | GH4 | Y87472 | 3P | 3.375 | 0.63 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 3/8-24UNF | GH2 | Y87453 | 3P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 3/8-24UNF | GH2 | Y87063 | 1.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 3/8-24UNF | GH3 | Y87463 | 3P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 3/8-24UNF | GH5 | Y87085 | 1.5P | 3.156 | 0.472 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH3 | Y87464 | 3P | 3.593 | 0.709 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 7/16-20UNF | GH3 | Y87465 | 3P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 7/16-20UNF | GH3 | Y87065 | 1.5P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 7/16-20UNF | GH4 | Y87475 | 3P | 3.375 | 0.472 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH3 | Y87466 | 3P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 1/2-13UNC | GH3 | Y87066 | 1.5P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 1/2-13UNC | GH5 | Y87088 | 1.5P | 3.812 | 0.748 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 1/2-20UNF | GH3 | Y87467 | 3P | 3.593 | 0.512 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 1/2-20UNF | GH3 | Y87067 | 1.5P | 3.593 | 0.512 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |



Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Special Thread Taps / Simple Inspection Tools

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

ANSI Length

# ZELX NI PO STI

Spiral Pointed Taps for Helical Coil Wire Screw Thread Inserts and for Nickel Base Alloys

ANSI

### Specification

HSS-P | NX Nitride+Oxide | Synchro nized

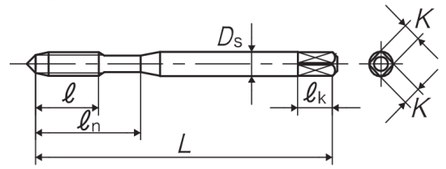
■ZELX NI PO STI is the spiral pointed tap for nickel base alloys which, with nickel as main composition, have much higher corrosion resistance and much higher heat resistance than steels, and produces threads oversize enough to accommodate helical coil wire thread inserts.

### Tapping Speed depending on Materials

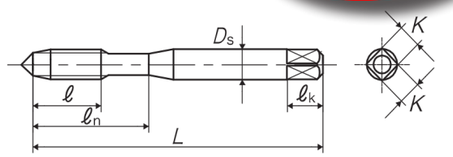
| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 | Stainless steels ステンレス鋼 | Nickel base alloys ニッケル基合金 |
|---|---|---|---|
| 5~10 (m/min) | 5~10 (m/min) | 5~10 (m/min) | 5~10 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

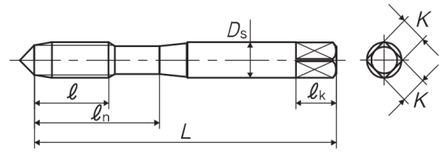
TYPE : 1



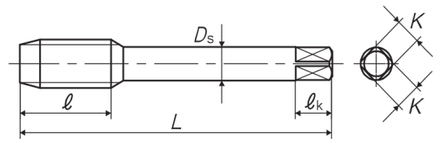

TYPE : 2




TYPE : 3




TYPE : 4




Segment : 1E

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | |
| No.2-56UNC | GH2 | Y87200 | 4.5P | 1.875 | 0.335 | 0.562 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH1 | Y87203 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.4-40UNC | GH2 | Y87204 | 4.5P | 2 | 0.413 | 0.687 | 0.141 | 0.11 | 0.187 | 3 | 1 |
| No.6-32UNC | GH2 | Y87208 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.6-32UNC | GH3 | Y87224 | 4.5P | 2.375 | 0.531 | 0.875 | 0.194 | 0.152 | 0.25 | 3 | 1 |
| No.6-40UNF | GH2 | Y87209 | 4.5P | 2.125 | 0.453 | 0.75 | 0.168 | 0.131 | 0.25 | 3 | 1 |
| No.8-32UNC | GH2 | Y87210 | 4.5P | 2.375 | 0.571 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |
| No.8-32UNC | GH3 | Y87226 | 4.5P | 2.375 | 0.571 | 0.937 | 0.22 | 0.165 | 0.281 | 3 | 1 |
| No.10-24UNC | GH2 | Y87212 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-24UNC | GH3 | Y87228 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-32UNF | GH2 | Y87213 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| No.10-32UNF | GH3 | Y87229 | 4.5P | 2.5 | 0.591 | 1 | 0.255 | 0.191 | 0.312 | 3 | 2 |
| 1/4-20UNC | GH2 | Y87248 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-20UNC | GH3 | Y87258 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-28UNF | GH2 | Y87249 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 1/4-28UNF | GH3 | Y87259 | 4.5P | 2.718 | 0.669 | 1.125 | 0.318 | 0.238 | 0.375 | 3 | 3 |
| 5/16-18UNC | GH3 | Y87260 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |



Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|
| L | ℓ | ℓn | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/16-18UNC | GH4 | Y87272 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 5/16-24UNF | GH2 | Y87251 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 5/16-24UNF | GH3 | Y87261 | 4.5P | 2.937 | 0.748 | 1.25 | 0.381 | 0.286 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH3 | Y87262 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 3/8-16UNC | GH4 | Y87270 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 3/8-24UNF | GH2 | Y87253 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 3/8-24UNF | GH3 | Y87263 | 4.5P | 3.156 | 0.866 | - | 0.323 | 0.242 | 0.406 | 3 | 4 |
| 7/16-14UNC | GH3 | Y87264 | 4.5P | 3.593 | 0.984 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |
| 7/16-20UNF | GH3 | Y87265 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 7/16-20UNF | GH4 | Y87275 | 4.5P | 3.375 | 0.984 | - | 0.367 | 0.275 | 0.437 | 3 | 4 |
| 1/2-13UNC | GH3 | Y87266 | 4.5P | 3.812 | 1.083 | - | 0.48 | 0.36 | 0.562 | 3 | 4 |
| 1/2-20UNF | GH3 | Y87267 | 4.5P | 3.593 | 0.984 | - | 0.429 | 0.322 | 0.5 | 3 | 4 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA



| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

DIN Length

# PO STI

## Spiral Pointed Taps for Helical Coil Wire Screw Thread Inserts

ANSI

### Specification

HSS

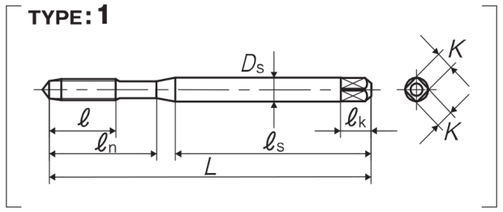
■Spiral pointed tap to cut internal threads for helical coil to enter.

### Tapping Speed depending on Materials

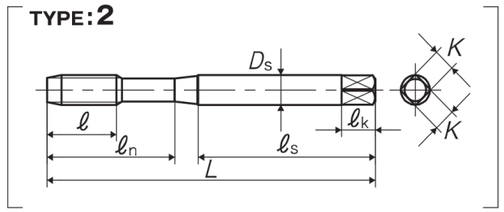
| Brass 黄銅 | Brass castings 黄銅鋳物 | Bronze 青銅 | Wrought aluminum アルミ圧延材 | Aluminum alloy castings アルミ合金鋳物 | Magnesium alloy die castings マグネシウム合金鋳物 | Zinc alloy castings 亜鉛合金鋳物 |
|---|---|---|---|---|---|---|
| 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) | 5~15 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

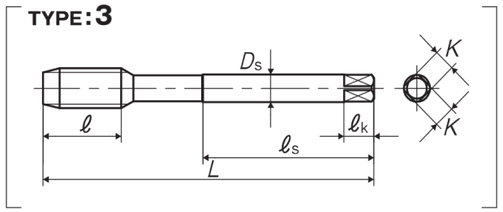
TYPE: 1




TYPE: 2




TYPE: 3




Segment : 1E

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | | |
| No.2-56UNC | GH1 | PUUN2E1NEB | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH2 | PUUN2E2NEB | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH1 | PUUN4H1NEB | 5P | 2.48 | 0.512 | 0.827 | 1.496 | 0.168 | 0.131 | 0.25 | 2 | 1 |
| No.4-40UNC | GH2 | PUUN4H2NEB | 5P | 2.48 | 0.512 | 0.827 | 1.496 | 0.168 | 0.131 | 0.25 | 2 | 1 |
| No.6-32UNC | GH1 | PUUN6J1NEB | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.131 | 0.25 | 2 | 1 |
| No.6-32UNC | GH2 | PUUN6J2NEB | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.131 | 0.25 | 2 | 1 |
| No.8-32UNC | GH1 | PUUN8J1NEB | 5P | 3.15 | 0.591 | 0.984 | 1.929 | 0.22 | 0.165 | 0.281 | 2 | 1 |
| No.8-32UNC | GH2 | PUUN8J2NEB | 5P | 3.15 | 0.591 | 0.984 | 1.929 | 0.22 | 0.165 | 0.281 | 2 | 1 |
| No.10-24UNC | GH2 | PUUNAM2NEB | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| No.10-24UNC | GH3 | PUUNAM3NEB | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| No.10-32UNF | GH2 | PUUNAJ2NEB | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| No.10-32UNF | GH3 | PUUNAJ3NEB | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| 1/4-20UNC | GH2 | PUU04N2NEB | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 2 | 2 |
| 1/4-20UNC | GH3 | PUU04N3NEB | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 2 | 2 |
| 1/4-28UNF | GH2 | PUU04K2NEB | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 2 | 2 |
| 1/4-28UNF | GH3 | PUU04K3NEB | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 2 | 2 |

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/16-18UNC | GH2 | PUU05O2NEB | 5P | 3.937 | 0.906 | 1.535 | 2.067 | 0.381 | 0.286 | 0.437 | 2 | 2 |
| 5/16-18UNC | GH3 | PUU05O3NEB | 5P | 3.937 | 0.906 | 1.535 | 2.067 | 0.381 | 0.286 | 0.437 | 2 | 2 |
| 5/16-24UNF | GH2 | PUU05M2NEB | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 2 | 2 |
| 5/16-24UNF | GH3 | PUU05M3NEB | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 2 | 2 |
| 3/8-16UNC | GH3 | PUU06P3NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH4 | PUU06P4NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH2 | PUU06M2NEB | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 3 |
| 3/8-24UNF | GH3 | PUU06M3NEB | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 3 |
| 7/16-14UNC | GH3 | PUU07Q3NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| 7/16-14UNC | GH4 | PUU07Q4NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| 7/16-20UNF | GH3 | PUU07N3NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| 7/16-20UNF | GH4 | PUU07N4NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| 1/2-13UNC | GH3 | PUU08R3NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |
| 1/2-13UNC | GH4 | PUU08R4NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |
| 1/2-20UNF | GH3 | PUU08N3NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |
| 1/2-20UNF | GH4 | PUU08N4NEB | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

Special Thread Taps / Simple Inspection Tools

| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

ANSI

DIN Length

# PO OX STI

Spiral Pointed Taps for Helical Coil Wire Screw Thread Inserts, Oxidized

## Specification

HSS | OX Oxide

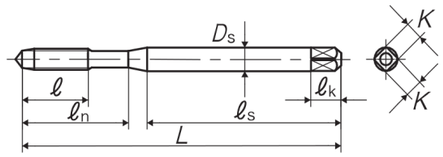
■Spiral pointed tap to cut internal threads for helical coil to enter.

## Tapping Speed depending on Materials

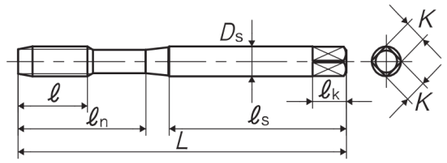
| Low carbon steels 低炭素鋼 | Medium carbon steels 中炭素鋼 |
|---|---|
| 5~10 (m/min) | 5~10 (m/min) |

DON'T SEE IT?
GIVE US A CALL!
847.593.6000

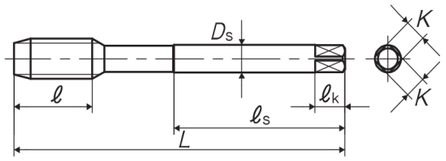
TYPE: 1




TYPE: 2




TYPE: 3




Segment : 1E

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Unified Threads | | | | | | | | | | | | |
| No.2-56UNC | GH1 | PUUN2E1NEX | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.2-56UNC | GH2 | PUUN2E2NEX | 5P | 2.205 | 0.354 | 0.709 | 1.28 | 0.141 | 0.11 | 0.187 | 2 | 1 |
| No.4-40UNC | GH1 | PUUN4H1NEX | 5P | 2.48 | 0.512 | 0.827 | 1.496 | 0.168 | 0.131 | 0.25 | 2 | 1 |
| No.4-40UNC | GH2 | PUUN4H2NEX | 5P | 2.48 | 0.512 | 0.827 | 1.496 | 0.168 | 0.131 | 0.25 | 2 | 1 |
| No.6-32UNC | GH1 | PUUN6J1NEX | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.131 | 0.25 | 2 | 1 |
| No.6-32UNC | GH2 | PUUN6J2NEX | 5P | 2.756 | 0.551 | 0.945 | 1.654 | 0.194 | 0.131 | 0.25 | 2 | 1 |
| No.8-32UNC | GH1 | PUUN8J1NEX | 5P | 3.15 | 0.591 | 0.984 | 1.929 | 0.22 | 0.165 | 0.281 | 2 | 1 |
| No.8-32UNC | GH2 | PUUN8J2NEX | 5P | 3.15 | 0.591 | 0.984 | 1.929 | 0.22 | 0.165 | 0.281 | 2 | 1 |
| No.10-24UNC | GH2 | PUUNAM2NEX | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| No.10-24UNC | GH3 | PUUNAM3NEX | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| No.10-32UNF | GH2 | PUUNAJ2NEX | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| No.10-32UNF | GH3 | PUUNAJ3NEX | 5P | 3.15 | 0.591 | 1.181 | 1.713 | 0.255 | 0.191 | 0.312 | 2 | 1 |
| 1/4-20UNC | GH2 | PUU04N2NEX | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 2 | 2 |
| 1/4-20UNC | GH3 | PUU04N3NEX | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 2 | 2 |
| 1/4-28UNF | GH2 | PUU04K2NEX | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 2 | 2 |
| 1/4-28UNF | GH3 | PUU04K3NEX | 5P | 3.543 | 0.748 | 1.378 | 1.831 | 0.318 | 0.238 | 0.375 | 2 | 2 |
| 5/16-18UNC | GH2 | PUU05O2NEX | 5P | 3.937 | 0.906 | 1.535 | 2.067 | 0.381 | 0.286 | 0.437 | 2 | 2 |

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com

Think threads with YAMAWA



・This product is different from JIS products in shape and dimensions, please be careful when using.

Chicago Supplemental Inventory. Don't see it? Give us a call! 847.593.6000 | sales@pioneerNA.com



| Overall length | Thread length | Thread + Neck length | Shank length | Shank dia. | Size of square | Length of square |
|---|---|---|---|---|---|---|
| L | ℓ | ℓn | ℓs | Ds | K | ℓk |

| Size | Class | Code | Chamfer | L (inch) | ℓ (inch) | ℓn (inch) | ℓs (inch) | Ds (inch) | K (inch) | ℓk (inch) | No. of flutes | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/16-18UNC | GH3 | PUU05O3NEX | 5P | 3.937 | 0.906 | 1.535 | 2.067 | 0.381 | 0.286 | 0.437 | 2 | 2 |
| 5/16-24UNF | GH2 | PUU05M2NEX | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 2 | 2 |
| 5/16-24UNF | GH3 | PUU05M3NEX | 5P | 3.937 | 0.906 | 1.535 | 2.028 | 0.381 | 0.286 | 0.437 | 2 | 2 |
| 3/8-16UNC | GH3 | PUU06P3NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 3 |
| 3/8-16UNC | GH4 | PUU06P4NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.367 | 0.275 | 0.437 | 3 | 3 |
| 3/8-24UNF | GH2 | PUU06M2NEX | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 3 |
| 3/8-24UNF | GH3 | PUU06M3NEX | 5P | 3.937 | 0.906 | - | 2.008 | 0.323 | 0.242 | 0.406 | 3 | 3 |
| 7/16-14UNC | GH3 | PUU07Q3NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| 7/16-14UNC | GH4 | PUU07Q4NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| 7/16-20UNF | GH3 | PUU07N3NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| 7/16-20UNF | GH4 | PUU07N4NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.429 | 0.322 | 0.5 | 3 | 3 |
| 1/2-13UNC | GH3 | PUU08R3NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |
| 1/2-13UNC | GH4 | PUU08R4NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |
| 1/2-20UNF | GH3 | PUU08N3NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |
| 1/2-20UNF | GH4 | PUU08N4NEX | 5P | 4.331 | 1.024 | - | 2.205 | 0.48 | 0.36 | 0.562 | 3 | 3 |



・This product is different from JIS products in shape and dimensions, please be careful when using.

Think threads with YAMAWA

# NOTES

# NOTES



# NOTES

Think threads with YAMAWA

PIONEER

**Pioneer North America**
641 Fargo Ave., Elk Grove Village, IL 60007
847.593.6000 | sales@PioneerNA.com
www.PioneerNA.com