



Finally, the answer you've been looking for is here

# A-TAP SERIES

Volume 11



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## Blind Hole

### Metric

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## Through Hole

### Metric

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### Metric Fine

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Finally, the answer you've been looking for is here...

1 Stabilize chip shape  
Sharp cutting edge

2 Accelerate chip evacuation  
Variable lead flute (PAT.)

3 High wear resistance  
V coating

4 High wear resistance  
Powder Metallurgy HSS (CPM)



# OSG'S NEW PREMIUM BRAND "A-TAP SERIES"

## The answer for your troubles lies here

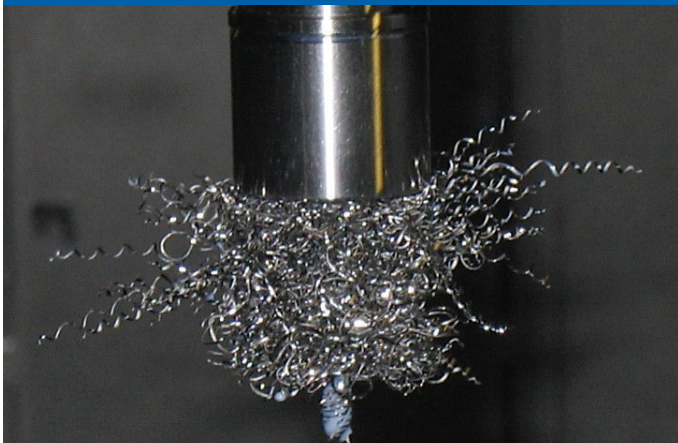
Most of tapping troubles are caused by unstable chip evacuation.

A-TAP Series resolve such troubles and apply to a wide range of work materials and cutting speed.

### Tapping Troubles

|                           |      |
|---------------------------|------|
| N°1 breakage and chipping | 26 % |
| N°2 dimensional error     | 17 % |
| N°3 galling               | 14 % |
| Others                    | 43 % |

### Main factor is chip packing

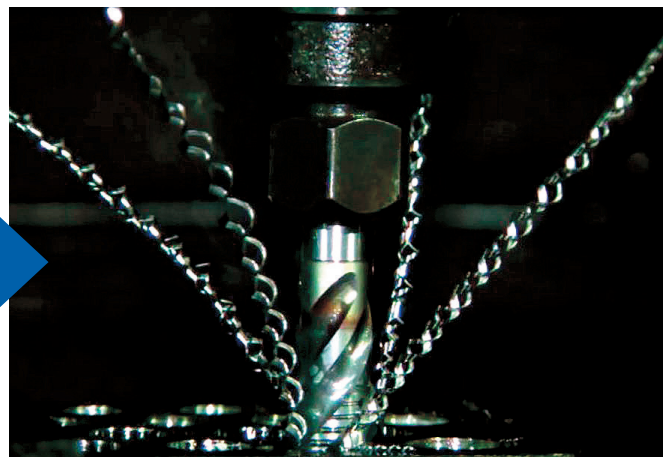


The biggest advantage of A-TAP Series:

## THE BEST CHIP EVACUATION



Conventional Tap



A-SFT



# KEY FEATURES A-TAP SERIES

## Applies to a wide variety of work materials

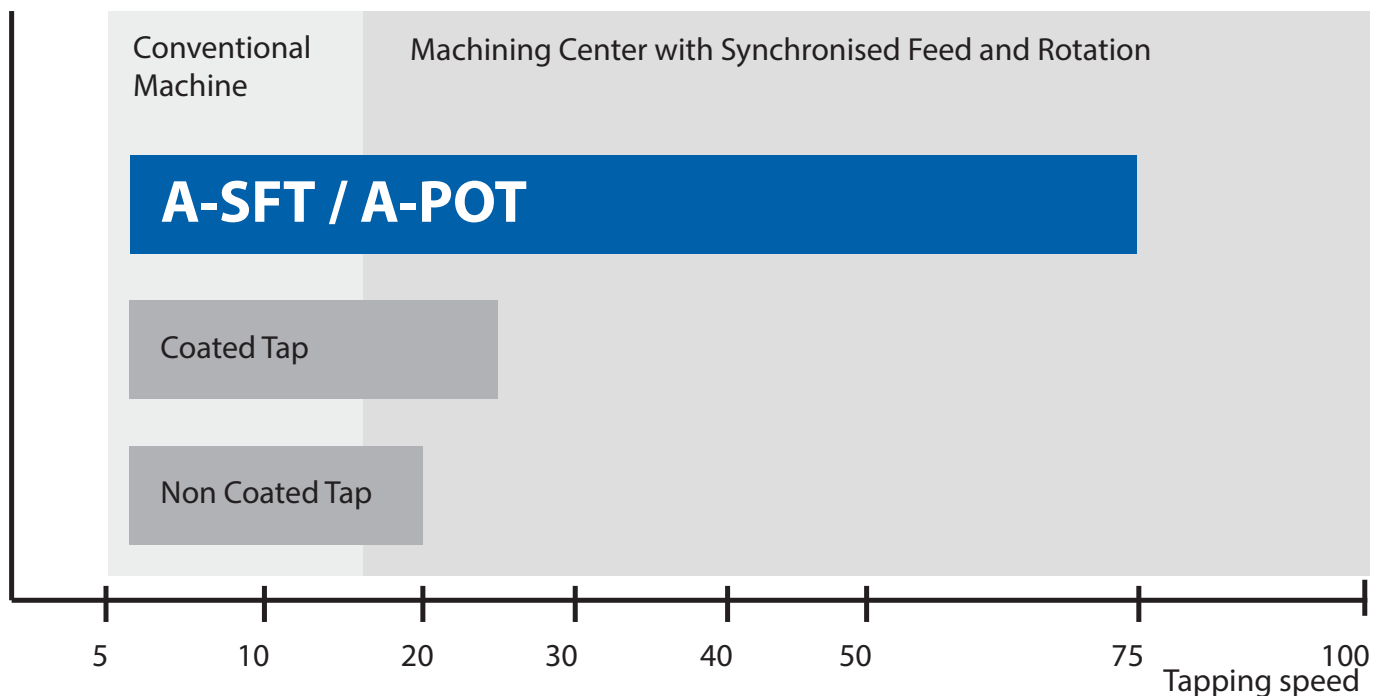
Even to mild steel and stainless steel



## High performance in machining center

Applies to a wide cutting range

Long



- It is a image of tapping in medium and high carbon steel with water soluble coolant.
- Machining center with synchronized feed and rotation is recommended for more than 15m/min.
- As the best speed varies by tapping condition, please find it by trials.

SUS304

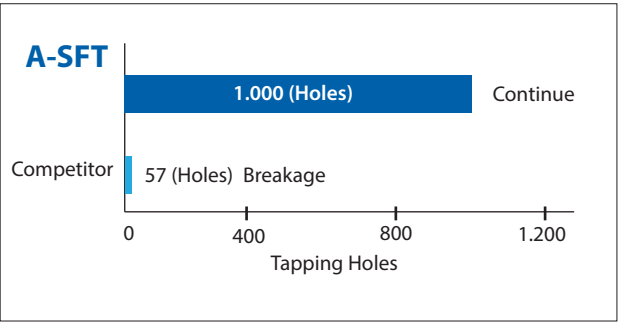
Deep Hole Tapping (2D) in stainless steel

High performance achieved in stainless steel with water soluble oil



■ Cutting edge after 1.000 holes tapping

|                |                                        |
|----------------|----------------------------------------|
| Tool           | A-SFT M8x1,25                          |
| Work Material  | SUS304                                 |
| Hole Size      | Ø6,8x22mm (Blind)                      |
| Tapping Length | 16mm (2D)                              |
| Tapping Speed  | 10m/min (398min <sup>-1</sup> )        |
| Coolant        | Water Soluble Chlorine-Free (10%)      |
| Machine        | Vertical Synchronized Machining Center |

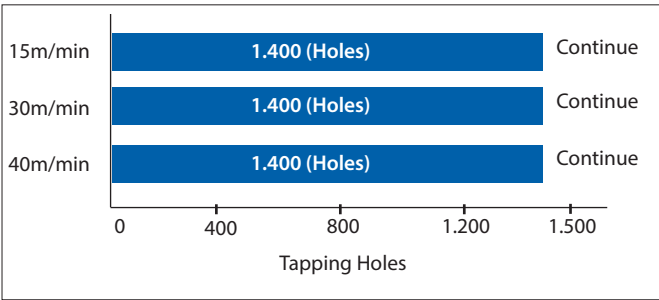


S45C

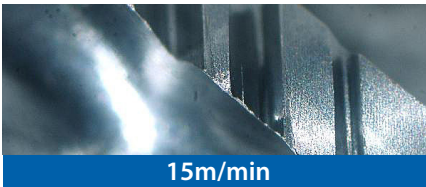
High speed tapping by machining center

Tapping operation in 15,30,40m/min are all stable

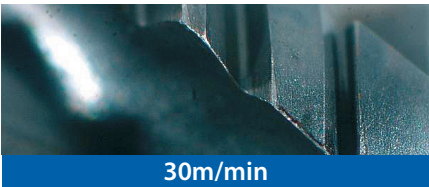
|                |                                        |
|----------------|----------------------------------------|
| Tool           | A-SFT M6x1                             |
| Work Material  | S45C                                   |
| Hole Size      | Ø5x16mm (Blind)                        |
| Tapping Length | 12mm (2D)                              |
| Coolant        | Water Soluble Chlorine-Free (10%)      |
| Machine        | Vertical Synchronized Machining Center |



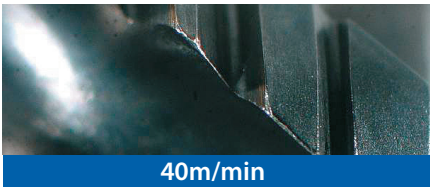
■ Cutting edge after 1.400 holes Tapping



15m/min



30m/min

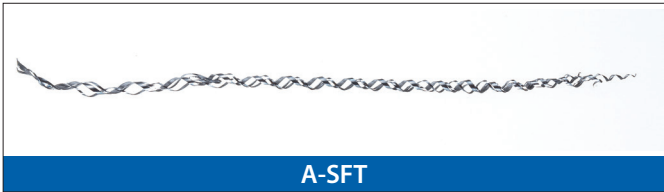


40m/min

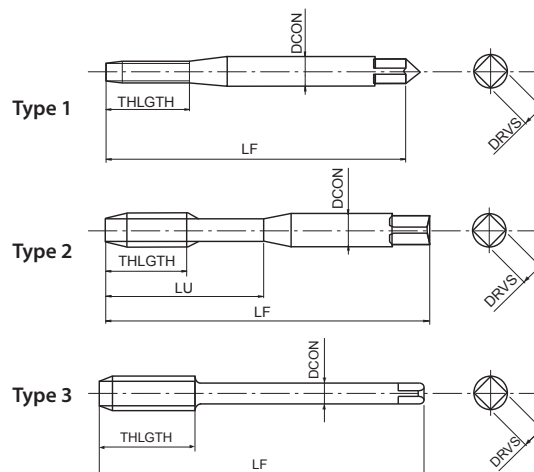
■ Chip generated in 40m/min



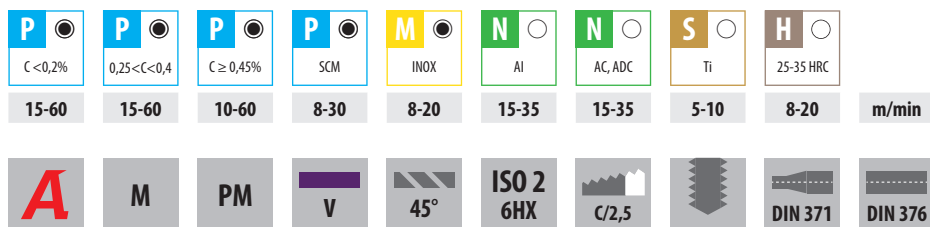
Conventional Tap



A-SFT



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

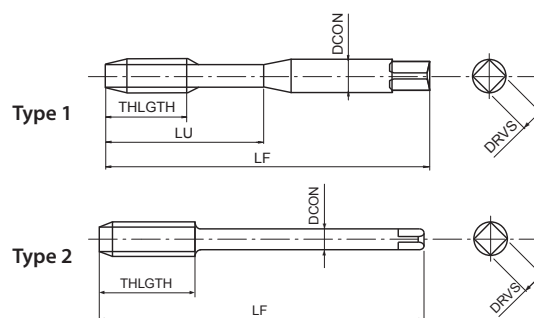


\*Tolerance 5 HX

[illegible]



## Threading | Cutting taps | Metric



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Centre through coolant







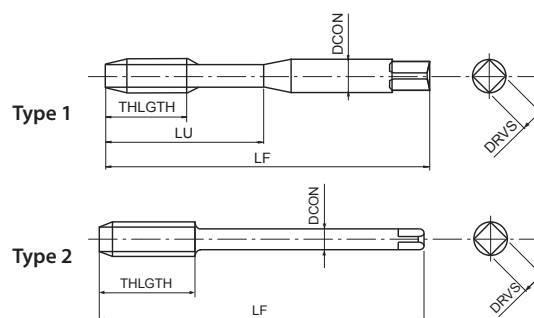




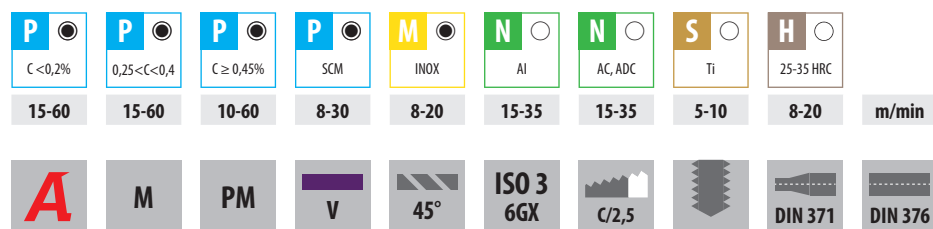


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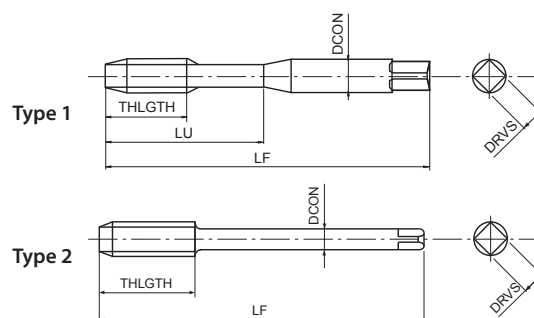
## Threading | Cutting taps | Metric



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 6G internal thread tolerance

[illegible]

## Threading | Cutting taps | Metric

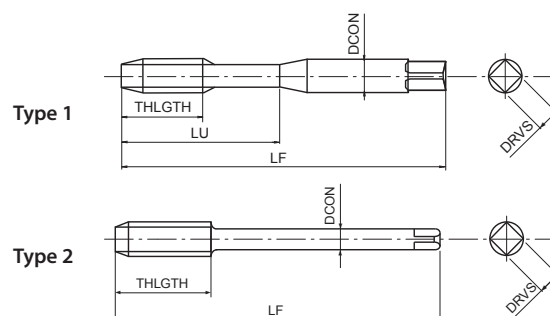
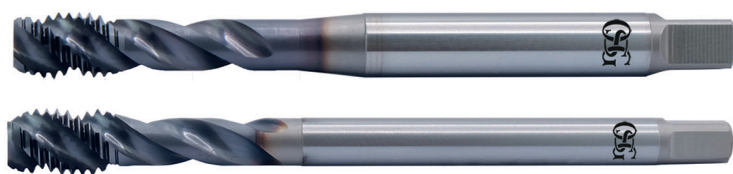


- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 7G internal thread tolerance

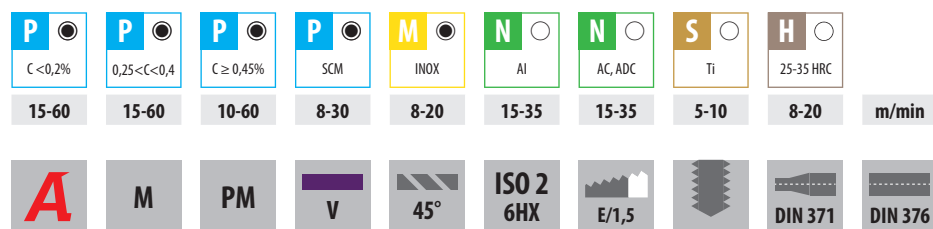
|                                                                                               |                                                                                                     |                                                                                                |                                                                                          |                                                                                           |                                                                                         |                                                                                              |                                                                                         |                                                                                                |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <br>C < 0,2% | <br>0,25 < C < 0,4 | <br>C ≥ 0,45% | <br>SCM | <br>INOX | <br>Al | <br>AC, ADC | <br>Ti | <br>25-35 HRC |                                                                                   | m/min                                                                             |
| 15-60                                                                                         | 15-60                                                                                               | 10-60                                                                                          | 8-30                                                                                     | 8-20                                                                                      | 15-35                                                                                   | 15-35                                                                                        | 5-10                                                                                    | 8-20                                                                                           |                                                                                   |                                                                                   |
|              |                    |               |         |          |        |             |        |               |  |  |
| A                                                                                             | M                                                                                                   | PM                                                                                             | V                                                                                        | 45°                                                                                       | 7GX                                                                                     | C/2,5                                                                                        | DIN 371                                                                                 | DIN 371                                                                                        | DIN 371                                                                           | DIN 376                                                                           |

[illegible]

## Threading | Cutting taps | Metric

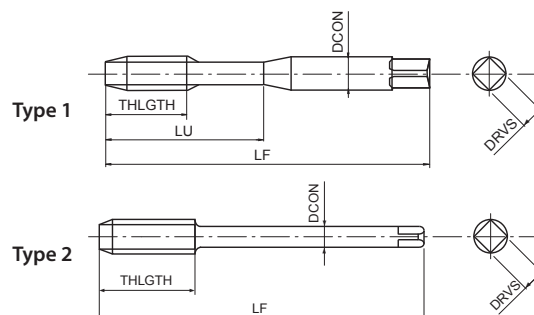


- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Chamfer Form E

[illegible]



## Threading | Cutting taps | Metric

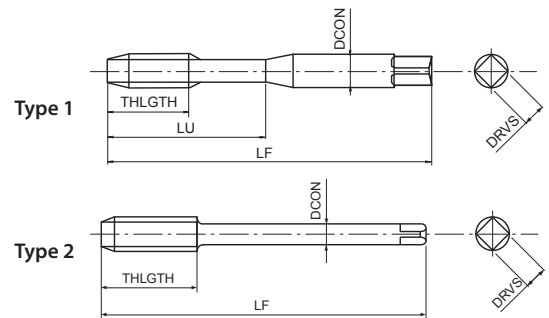


- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Oversized tap for 6H +0,1mm thread tolerance

|                                                                                               |                                                                                                     |                                                                                                |                                                                                          |                                                                                           |                                                                                         |                                                                                              |                                                                                         |                                                                                                 |  |       |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--|-------|
| <br>C < 0,2% | <br>0,25 < C < 0,4 | <br>C ≥ 0,45% | <br>SCM | <br>INOX | <br>Al | <br>AC, ADC | <br>Ti | <br>25-35 HRC |  | m/min |
| 15-60                                                                                         | 15-60                                                                                               | 10-60                                                                                          | 8-30                                                                                     | 8-20                                                                                      | 15-35                                                                                   | 15-35                                                                                        | 5-10                                                                                    | 8-20                                                                                            |  |       |
|              |                    |               |         |          |        |             |        |               |  |       |

[illegible]

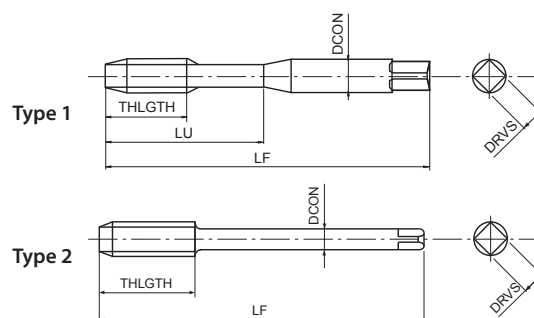
## Threading | Cutting taps | Metric



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- With long shank for long reach threading

[illegible]

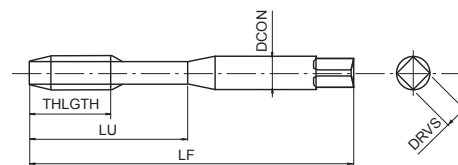
## Threading | Cutting taps | Metric



- |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>M</b>  | <b>N</b>  | <b>N</b>  | <b>S</b>  | <b>H</b>  |
| C < 0,2%                                                                                   | 0,25 < C < 0,4                                                                             | C ≥ 0,45%                                                                                  | SCM                                                                                        | INOX                                                                                       | Al                                                                                         | Al, ADC                                                                                    | Ti                                                                                         | 25-35 HRC                                                                                  |
| 15-60                                                                                      | 15-60                                                                                      | 10-60                                                                                      | 8-30                                                                                       | 8-20                                                                                       | 15-35                                                                                      | 15-35                                                                                      | 5-10                                                                                       | 8-20                                                                                       |
| <b>m/min</b>                                                                               |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |

[illegible]

## Threading | Cutting taps | Metric

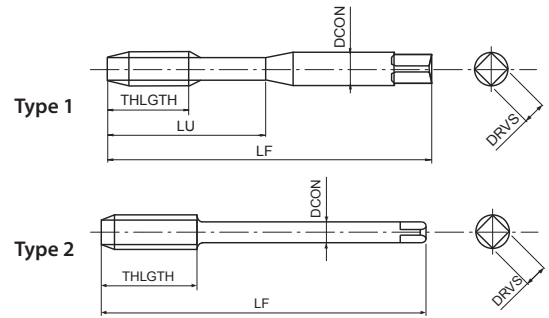
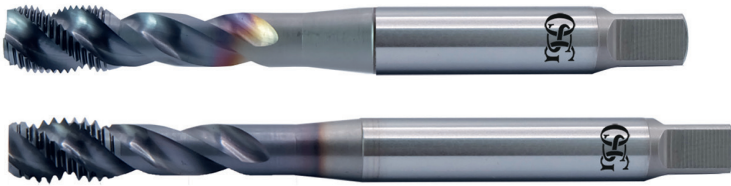


- ## Threading | Cutting taps

Metric

# A-SFT

Threading | Cutting taps | Metric Fine



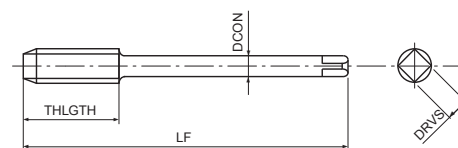
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

|          |                |           |          |            |                  |              |          |                |                |  |
|----------|----------------|-----------|----------|------------|------------------|--------------|----------|----------------|----------------|--|
| <b>P</b> | <b>P</b>       | <b>P</b>  | <b>P</b> | <b>M</b>   | <b>N</b>         | <b>N</b>     | <b>S</b> | <b>H</b>       |                |  |
| C < 0,2% | 0,25 < C < 0,4 | C ≥ 0,45% | SCM      | INOX       | Al               | AC, ADC      | Ti       | 25-35 HRC      |                |  |
| 15-60    | 15-60          | 10-60     | 8-30     | 8-20       | 15-35            | 15-35        | 5-10     | 8-20           | m/min          |  |
| <b>A</b> | <b>MF</b>      | <b>PM</b> | <b>V</b> | <b>45°</b> | <b>ISO 2 6HX</b> | <b>C/2,5</b> |          | <b>DIN 371</b> | <b>DIN 374</b> |  |

| EDP      | TD  | TP   | LF  | THLGTH | LU | DCON | DRVS | NOF | Type | DIN |
|----------|-----|------|-----|--------|----|------|------|-----|------|-----|
| 48139135 | 2,5 | 0,35 | 50  | 3,6    | 13 | 2,8  | 2,1  | 2   | 1    | 371 |
| 48139137 | 2,6 | 0,35 | 50  | 3,6    | 13 | 2,8  | 2,1  | 2   | 1    | 371 |
| 48139141 | 3   | 0,35 | 56  | 4      | 18 | 3,5  | 2,7  | 3   | 1    | 371 |
| 48139143 | 3,5 | 0,35 | 56  | 4,8    | 20 | 4    | 3    | 3   | 1    | 371 |
| 48139146 | 4   | 0,35 | 63  | 5,6    | 21 | 4,5  | 3,4  | 3   | 1    | 371 |
| 48139145 | 4   | 0,5  | 63  | 5,6    | 21 | 4,5  | 3,4  | 3   | 1    | 371 |
| 48139148 | 4,5 | 0,5  | 70  | 6      | 25 | 6    | 4,9  | 3   | 1    | 371 |
| 48139151 | 5   | 0,5  | 70  | 6,4    | 25 | 6    | 4,9  | 3   | 1    | 371 |
| 48139602 | 6   | 0,5  | 80  | 8      | 30 | 6    | 4,9  | 3   | 1    | 371 |
| 48139601 | 6   | 0,75 | 80  | 8      | 30 | 6    | 4,9  | 3   | 1    | 371 |
| 48139160 | 7   | 0,75 | 80  | 8      | 30 | 7    | 5,5  | 3   | 1    | 371 |
| 48139604 | 8   | 0,75 | 80  | 10     | 35 | 8    | 6,2  | 3   | 1    | 371 |
| 48139603 | 8   | 1    | 90  | 10     | 35 | 8    | 6,2  | 3   | 1    | 371 |
| 48139605 | 9   | 1    | 90  | 10     | 35 | 9    | 7    | 3   | 1    | 371 |
| 48139608 | 10  | 0,75 | 90  | 12     | 35 | 10   | 8    | 3   | 1    | 371 |
| 48139607 | 10  | 1    | 90  | 12     | 35 | 10   | 8    | 3   | 1    | 371 |
| 48139606 | 10  | 1,25 | 100 | 12     | 39 | 10   | 8    | 3   | 1    | 371 |
| 48139157 | 6   | 0,5  | 80  | 8      | -  | 4,5  | 3,4  | 3   | 2    | 374 |
| 48139156 | 6   | 0,75 | 80  | 8      | -  | 4,5  | 3,4  | 3   | 2    | 374 |
| 48139163 | 8   | 0,75 | 80  | 8      | -  | 6    | 4,9  | 3   | 2    | 374 |
| 48139162 | 8   | 1    | 90  | 10     | -  | 6    | 4,9  | 3   | 2    | 374 |
| 48139167 | 9   | 1    | 90  | 10     | -  | 7    | 5,5  | 3   | 2    | 374 |
| 48139172 | 10  | 0,75 | 90  | 10     | -  | 7    | 5,5  | 3   | 2    | 374 |
| 48139171 | 10  | 1    | 90  | 10     | -  | 7    | 5,5  | 3   | 2    | 374 |
| 48139170 | 10  | 1,25 | 100 | 12     | -  | 7    | 5,5  | 3   | 2    | 374 |
| 48139176 | 11  | 1    | 90  | 12     | -  | 8    | 6,2  | 3   | 2    | 374 |
| 48139182 | 12  | 1    | 100 | 12     | -  | 9    | 7    | 3   | 2    | 374 |
| 48139181 | 12  | 1,25 | 100 | 12     | -  | 9    | 7    | 3   | 2    | 374 |
| 48139180 | 12  | 1,5  | 100 | 14     | -  | 9    | 7    | 3   | 2    | 374 |
| 48139194 | 14  | 1    | 100 | 16     | -  | 11   | 9    | 3   | 2    | 374 |
| 48139193 | 14  | 1,25 | 100 | 16     | -  | 11   | 9    | 3   | 2    | 374 |
| 48139192 | 14  | 1,5  | 100 | 16     | -  | 11   | 9    | 3   | 2    | 374 |
| 48139204 | 16  | 1    | 100 | 16     | -  | 12   | 9    | 3   | 2    | 374 |
| 48139203 | 16  | 1,5  | 100 | 16     | -  | 12   | 9    | 3   | 2    | 374 |
| 48139218 | 18  | 1    | 110 | 16     | -  | 14   | 11   | 4   | 2    | 374 |
| 48139216 | 18  | 1,5  | 110 | 16     | -  | 14   | 11   | 4   | 2    | 374 |
| 48139232 | 20  | 1    | 125 | 16     | -  | 16   | 12   | 4   | 2    | 374 |
| 48139230 | 20  | 1,5  | 125 | 16     | -  | 16   | 12   | 4   | 2    | 374 |
| 48139220 | 20  | 2    | 140 | 25     | -  | 16   | 12   | 4   | 2    | 374 |
| 48139241 | 22  | 1    | 125 | 16     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48139240 | 22  | 1,5  | 125 | 16     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48139239 | 22  | 2    | 140 | 25     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48139251 | 24  | 1    | 140 | 16     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48139250 | 24  | 1,5  | 140 | 16     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48139249 | 24  | 2    | 140 | 30     | -  | 18   | 14,5 | 4   | 2    | 374 |



## Threading | Cutting taps | Metric Fine



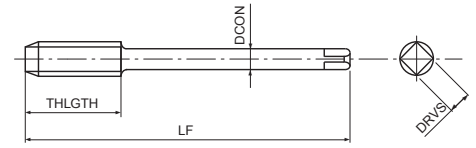
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Centre through coolant

Metric Fine

|                                                                                               |                                                                                                     |                                                                                                |                                                                                          |                                                                                           |                                                                                         |                                                                                              |                                                                                         |                                                                                                |                                                                                   |       |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|
| <br>C < 0,2% | <br>0,25 < C < 0,4 | <br>C ≥ 0,45% | <br>SCM | <br>INOX | <br>AI | <br>AC, ADC | <br>Ti | <br>25-35 HRC |                                                                                   | m/min |
| 15-60                                                                                         | 15-60                                                                                               | 10-60                                                                                          | 8-30                                                                                     | 8-20                                                                                      | 15-35                                                                                   | 15-35                                                                                        | 5-10                                                                                    | 8-20                                                                                           |                                                                                   |       |
|              |                    |               |         |          |        |             |        |               |  |       |

[illegible]

## Threading | Cutting taps | Metric Fine



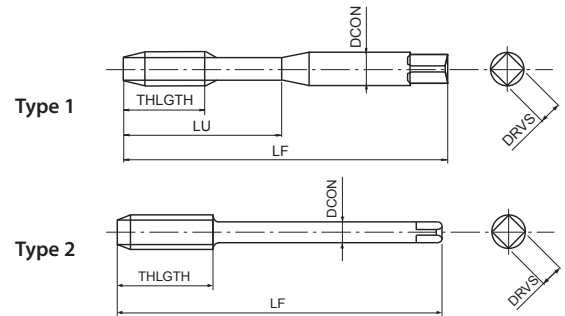
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 6G internal thread tolerance

|                                                                                                        |                                                                                                              |                                                                                                         |                                                                                                   |                                                                                                    |                                                                                                  |                                                                                                       |                                                                                                  |                                                                                                         |  |       |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--|-------|
|  <b>P</b><br>C < 0,2% |  <b>P</b><br>0,25 < C < 0,4 |  <b>P</b><br>C ≥ 0,45% |  <b>P</b><br>SCM |  <b>M</b><br>INOX |  <b>N</b><br>Al |  <b>N</b><br>AC, ADC |  <b>S</b><br>Ti |  <b>H</b><br>25-35 HRC |  |       |
| 15-60                                                                                                  | 15-60                                                                                                        | 10-60                                                                                                   | 8-30                                                                                              | 8-20                                                                                               | 15-35                                                                                            | 15-35                                                                                                 | 5-10                                                                                             | 8-20                                                                                                    |  | m/min |
|  <b>A</b>             | <b>MF</b>                                                                                                    | <b>PM</b>                                                                                               |  <b>V</b>        |  <b>45°</b>       | <b>ISO 3<br/>6GX</b>                                                                             |  <b>C/2,5</b>        |                 | <b>DIN 374</b>                                                                                          |  |       |

[illegible]

# A-SFT FORM E NEW

Threading | Cutting taps | Metric Fine

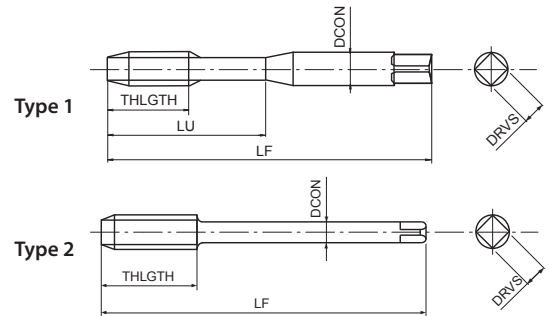


- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Chamfer Form E

|          |                |           |          |            |                  |              |          |           |       |  |
|----------|----------------|-----------|----------|------------|------------------|--------------|----------|-----------|-------|--|
| <b>P</b> | <b>P</b>       | <b>P</b>  | <b>P</b> | <b>M</b>   | <b>N</b>         | <b>N</b>     | <b>S</b> | <b>H</b>  |       |  |
| C < 0,2% | 0,25 < C < 0,4 | C ≥ 0,45% | SCM      | INOX       | Al               | AC, ADC      | Ti       | 25-35 HRC |       |  |
| 15-60    | 15-60          | 10-60     | 8-30     | 8-20       | 15-35            | 15-35        | 5-10     | 8-20      | m/min |  |
| <b>A</b> | <b>MF</b>      | <b>PM</b> | <b>V</b> | <b>45°</b> | <b>ISO 2 6HX</b> | <b>E/1,5</b> |          |           |       |  |

| EDP      | TD  | TP   | LF  | THLGTH | LU | DCON | DRVS | NOF | Type | DIN |
|----------|-----|------|-----|--------|----|------|------|-----|------|-----|
| 48203135 | 2,5 | 0,35 | 50  | 3,6    | 13 | 2,8  | 2,1  | 2   | 1    | 371 |
| 48203137 | 2,6 | 0,35 | 50  | 3,6    | 13 | 2,8  | 2,1  | 2   | 1    | 371 |
| 48203141 | 3   | 0,35 | 56  | 4      | 18 | 3,5  | 2,7  | 3   | 1    | 371 |
| 48203143 | 3,5 | 0,35 | 56  | 4,8    | 20 | 4    | 3    | 3   | 1    | 371 |
| 48203146 | 4   | 0,35 | 63  | 5,6    | 21 | 4,5  | 3,4  | 3   | 1    | 371 |
| 48203145 | 4   | 0,5  | 63  | 5,6    | 21 | 4,5  | 3,4  | 3   | 1    | 371 |
| 48203148 | 4,5 | 0,5  | 70  | 6      | 25 | 6    | 4,9  | 3   | 1    | 371 |
| 48203151 | 5   | 0,5  | 70  | 6,4    | 25 | 6    | 4,9  | 3   | 1    | 371 |
| 48203602 | 6   | 0,5  | 80  | 8      | 30 | 6    | 4,9  | 3   | 1    | 371 |
| 48203601 | 6   | 0,75 | 80  | 8      | 30 | 6    | 4,9  | 3   | 1    | 371 |
| 48203160 | 7   | 0,75 | 80  | 8      | 30 | 7    | 5,5  | 3   | 1    | 371 |
| 48203604 | 8   | 0,75 | 80  | 10     | 35 | 8    | 6,2  | 3   | 1    | 371 |
| 48203603 | 8   | 1    | 90  | 10     | 35 | 8    | 6,2  | 3   | 1    | 371 |
| 48203605 | 9   | 1    | 90  | 10     | 35 | 9    | 7    | 3   | 1    | 371 |
| 48203608 | 10  | 0,75 | 90  | 12     | 35 | 10   | 8    | 3   | 1    | 371 |
| 48203607 | 10  | 1    | 90  | 12     | 35 | 10   | 8    | 3   | 1    | 371 |
| 48203606 | 10  | 1,25 | 100 | 12     | 39 | 10   | 8    | 3   | 1    | 371 |
| 48203157 | 6   | 0,5  | 80  | 8      | -  | 4,5  | 3,4  | 3   | 2    | 374 |
| 48203156 | 6   | 0,75 | 80  | 8      | -  | 4,5  | 3,4  | 3   | 2    | 374 |
| 48203163 | 8   | 0,75 | 80  | 8      | -  | 6    | 4,9  | 3   | 2    | 374 |
| 48203162 | 8   | 1    | 90  | 10     | -  | 6    | 4,9  | 3   | 2    | 374 |
| 48203167 | 9   | 1    | 90  | 10     | -  | 7    | 5,5  | 3   | 2    | 374 |
| 48203172 | 10  | 0,75 | 90  | 10     | -  | 7    | 5,5  | 3   | 2    | 374 |
| 48203171 | 10  | 1    | 90  | 10     | -  | 7    | 5,5  | 3   | 2    | 374 |
| 48203170 | 10  | 1,25 | 100 | 12     | -  | 7    | 5,5  | 3   | 2    | 374 |
| 48203176 | 11  | 1    | 90  | 12     | -  | 8    | 6,2  | 3   | 2    | 374 |
| 48203182 | 12  | 1    | 100 | 12     | -  | 9    | 7    | 3   | 2    | 374 |
| 48203181 | 12  | 1,25 | 100 | 12     | -  | 9    | 7    | 3   | 2    | 374 |
| 48203180 | 12  | 1,5  | 100 | 14     | -  | 9    | 7    | 3   | 2    | 374 |
| 48203194 | 14  | 1    | 100 | 16     | -  | 11   | 9    | 3   | 2    | 374 |
| 48203193 | 14  | 1,25 | 100 | 16     | -  | 11   | 9    | 3   | 2    | 374 |
| 48203192 | 14  | 1,5  | 100 | 16     | -  | 11   | 9    | 3   | 2    | 374 |
| 48203204 | 16  | 1    | 100 | 16     | -  | 12   | 9    | 3   | 2    | 374 |
| 48203203 | 16  | 1,5  | 100 | 16     | -  | 12   | 9    | 3   | 2    | 374 |
| 48203218 | 18  | 1    | 110 | 16     | -  | 14   | 11   | 4   | 2    | 374 |
| 48203216 | 18  | 1,5  | 110 | 16     | -  | 14   | 11   | 4   | 2    | 374 |
| 48203232 | 20  | 1    | 125 | 16     | -  | 16   | 12   | 4   | 2    | 374 |
| 48203230 | 20  | 1,5  | 125 | 16     | -  | 16   | 12   | 4   | 2    | 374 |
| 48203220 | 20  | 2    | 140 | 25     | -  | 16   | 12   | 4   | 2    | 374 |
| 48203241 | 22  | 1    | 125 | 16     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48203240 | 22  | 1,5  | 125 | 16     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48203239 | 22  | 2    | 140 | 25     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48203251 | 24  | 1    | 140 | 16     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48203250 | 24  | 1,5  | 140 | 16     | -  | 18   | 14,5 | 4   | 2    | 374 |
| 48203249 | 24  | 2    | 140 | 30     | -  | 18   | 14,5 | 4   | 2    | 374 |

## Threading | Cutting taps | UNC

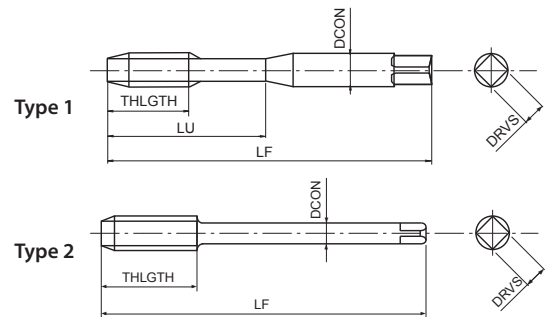


- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

|                                                                                               |                                                                                                     |                                                                                                |                                                                                          |                                                                                           |                                                                                         |                                                                                              |                                                                                         |                                                                                                |  |       |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--|-------|
| <br>C < 0,2% | <br>0,25 < C < 0,4 | <br>C ≥ 0,45% | <br>SCM | <br>INOX | <br>Al | <br>AC, ADC | <br>Ti | <br>25-35 HRC |  | m/min |
| 15-60                                                                                         | 15-60                                                                                               | 10-60                                                                                          | 8-30                                                                                     | 8-20                                                                                      | 15-35                                                                                   | 15-35                                                                                        | 5-10                                                                                    | 8-20                                                                                           |  |       |

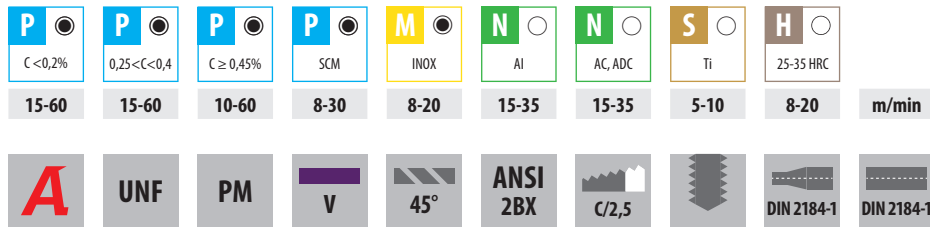
[illegible]

## Threading | Cutting taps | UNF

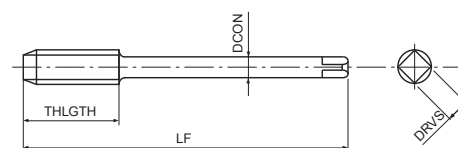


- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

## Threading | Cutting taps

[illegible]

## Threading | Cutting taps | G (BSP)

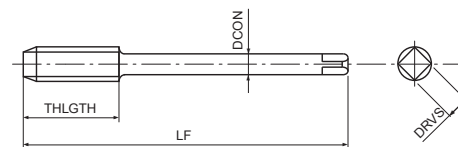


- |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |       |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------|
| <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>M</b>  | <b>N</b>  | <b>N</b>  | <b>S</b>  | <b>H</b>  |       |
| C < 0,2%                                                                                   | 0,25 < C < 0,4                                                                             | C ≥ 0,45%                                                                                  | SCM                                                                                        | INOX                                                                                       | Al                                                                                         | AC, ADC                                                                                    | Ti                                                                                         | 25-35 HRC                                                                                  |       |
| 15-60                                                                                      | 15-60                                                                                      | 10-60                                                                                      | 8-30                                                                                       | 8-20                                                                                       | 15-35                                                                                      | 15-35                                                                                      | 5-10                                                                                       | 8-20                                                                                       | m/min |

[illegible]



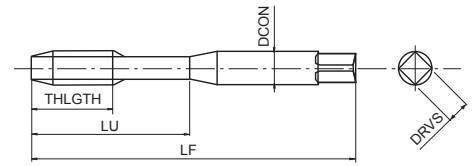
### Threading | Cutting taps | Rp (BSPP)



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Chamfer Form E

[illegible]

## Threading | Cutting taps | BSW



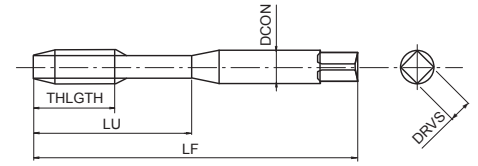
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

|                                                                                            |                                                                                                  |                                                                                             |                                                                                       |                                                                                        |                                                                                      |                                                                                           |                                                                                      |                                                                                             |  |       |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--|-------|
|  C < 0,2% |  0,25 < C < 0,4 |  C ≥ 0,45% |  SCM |  INOX |  Al |  AC, ADC |  Ti |  25-35 HRC |  |       |
| 15-60                                                                                      | 15-60                                                                                            | 10-60                                                                                       | 8-30                                                                                  | 8-20                                                                                   | 15-35                                                                                | 15-35                                                                                     | 5-10                                                                                 | 8-20                                                                                        |  | m/min |

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |
|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |

[illegible]

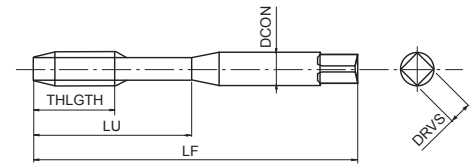
## Threading | Cutting taps | BSF



- ## Threading | Cutting taps

[illegible]

## Threading | Cutting taps | BA

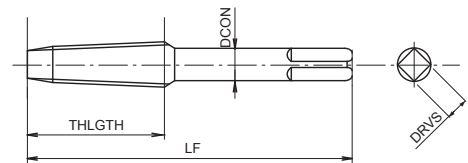


- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

|                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |       |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------|
| <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>M</b>  | <b>N</b>  | <b>N</b>  | <b>S</b>  | <b>H</b>  |       |
| C < 0,2%                                                                                   | 0,25 < C < 0,4                                                                             | C ≥ 0,45%                                                                                  | SCM                                                                                        | INOX                                                                                       | Al                                                                                         | AC, ADC                                                                                    | Ti                                                                                         | 25-35 HRC                                                                                  |       |
| 15-60                                                                                      | 15-60                                                                                      | 10-60                                                                                      | 8-30                                                                                       | 8-20                                                                                       | 15-35                                                                                      | 15-35                                                                                      | 5-10                                                                                       | 8-20                                                                                       | m/min |

[illegible]

## Threading | Cutting taps | RC (BSPT)

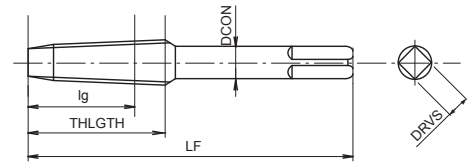
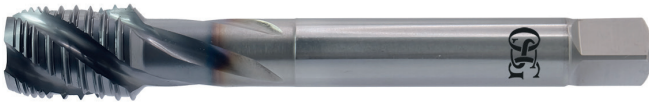


- First choice in quality and performance
- Powder metal straight flute cutting tap for through and blind holes
- Multilayer TiCN coating
- High speed tapping in general steels and aluminium
- RC (BSPT) tapered 1:16

RC (BSPT)

[illegible]

## Threading | Cutting taps | RC (BSPT)



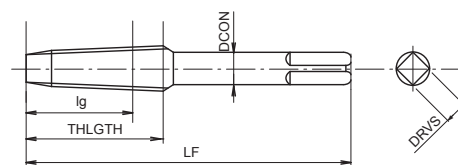
- First choice in quality and performance
- HSSE - spiral flute cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels and aluminium
- RC (BSPT) tapered 1:16

|                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |       |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------|
| <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>N</b>  | <b>N</b>  |       |
| C < 0,2%                                                                                   | 0,25 < C < 0,4                                                                             | C ≥ 0,45%                                                                                  | SCM                                                                                        | AI                                                                                         | AC, ADC                                                                                    |       |
| 5-10                                                                                       | 5-10                                                                                       | 5-10                                                                                       | 5-10                                                                                       | 5-10                                                                                       | 10-15                                                                                      | m/min |

|                                                                                     |                     |             |                                                                                                 |                                                                                                   |                                                                                                     |                                                                                     |                           |
|-------------------------------------------------------------------------------------|---------------------|-------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|
|  | <b>Rc</b><br>(BSPT) | <b>HSSE</b> | <br><b>V</b> | <br><b>40°</b> | <br><b>C/2,5</b> |  | <b>DIN</b><br><b>5156</b> |
|-------------------------------------------------------------------------------------|---------------------|-------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|

[illegible]

## Threading | Cutting taps | NPT



- First choice in quality and performance
- HSSE - spiral flute cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels and aluminium
- NPT tapered 1:16

**NPT**





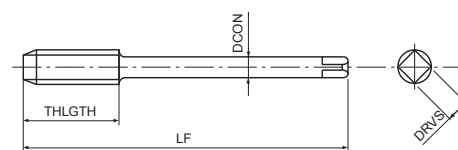




30



## Threading | Cutting taps | NPSF

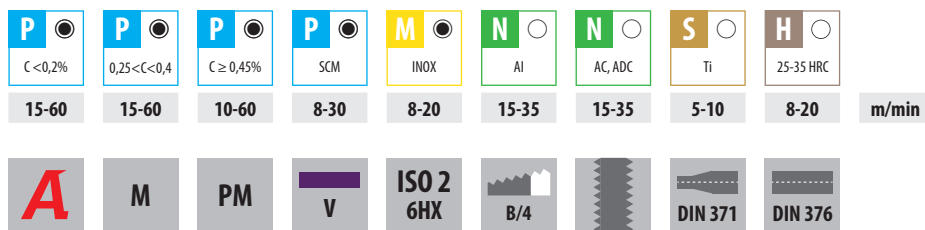


- |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>M</b>  | <b>N</b>  | <b>N</b>  | <b>S</b>  | <b>H</b>  |
| C < 0,2%                                                                                   | 0,25 < C < 0,4                                                                             | C ≥ 0,45%                                                                                  | SCM                                                                                        | INOX                                                                                       | Al                                                                                         | Al, ADC                                                                                    | Ti                                                                                         | 25-35 HRC                                                                                  |
| 15-60                                                                                      | 15-60                                                                                      | 10-60                                                                                      | 8-30                                                                                       | 8-20                                                                                       | 15-35                                                                                      | 15-35                                                                                      | 5-10                                                                                       | 8-20                                                                                       |
- m/min**

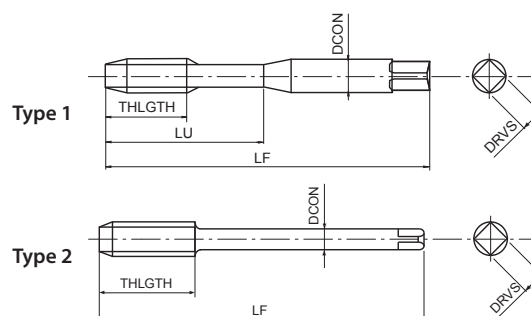
[illegible]

[illegible]

- 

[illegible]

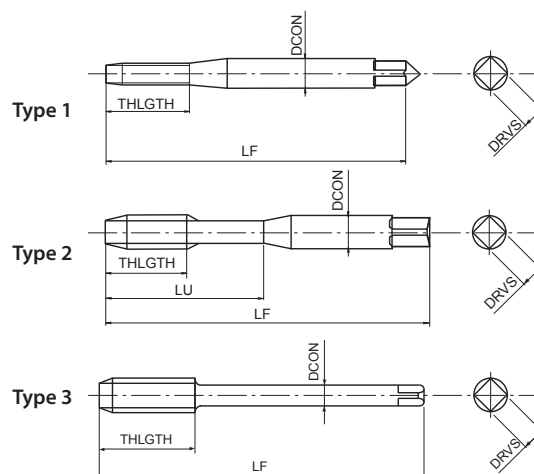
## Threading | Cutting taps | Metric



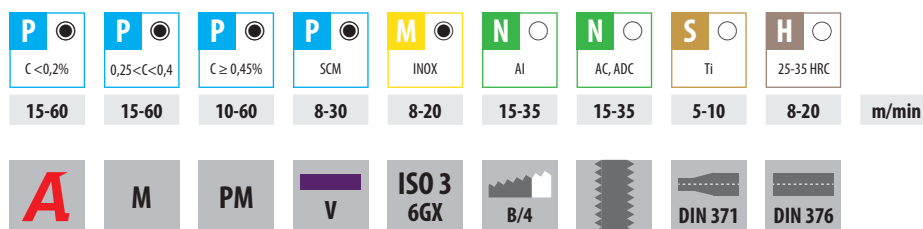
- |             |                |               |         |              |         |             |        |               |  |         |
|-------------|----------------|---------------|---------|--------------|---------|-------------|--------|---------------|--|---------|
| <br>C <0,2% | <br>0,25<C<0,4 | <br>C ≥ 0,45% | <br>SCM | <br>INOX     | <br>Al  | <br>AC, ADC | <br>Ti | <br>25-35 HRC |  | m/min   |
| 15-60       | 15-60          | 10-60         | 8-30    | 8-20         | 15-35   | 15-35       | 5-10   | 8-20          |  |         |
|             | M              | PM            | <br>V   | ISO 2<br>6HX | <br>B/4 |             |        | DIN 371       |  | DIN 376 |

[illegible]

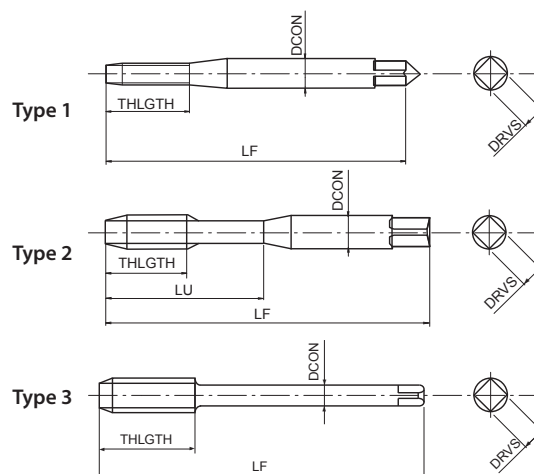
## Threading | Cutting taps | Metric



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 6G internal thread tolerance

[illegible]

## Threading | Cutting taps | Metric

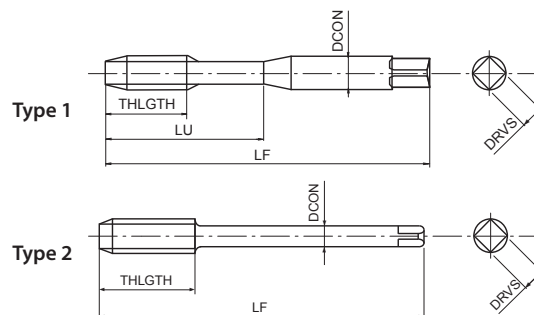


- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 7G internal thread tolerance

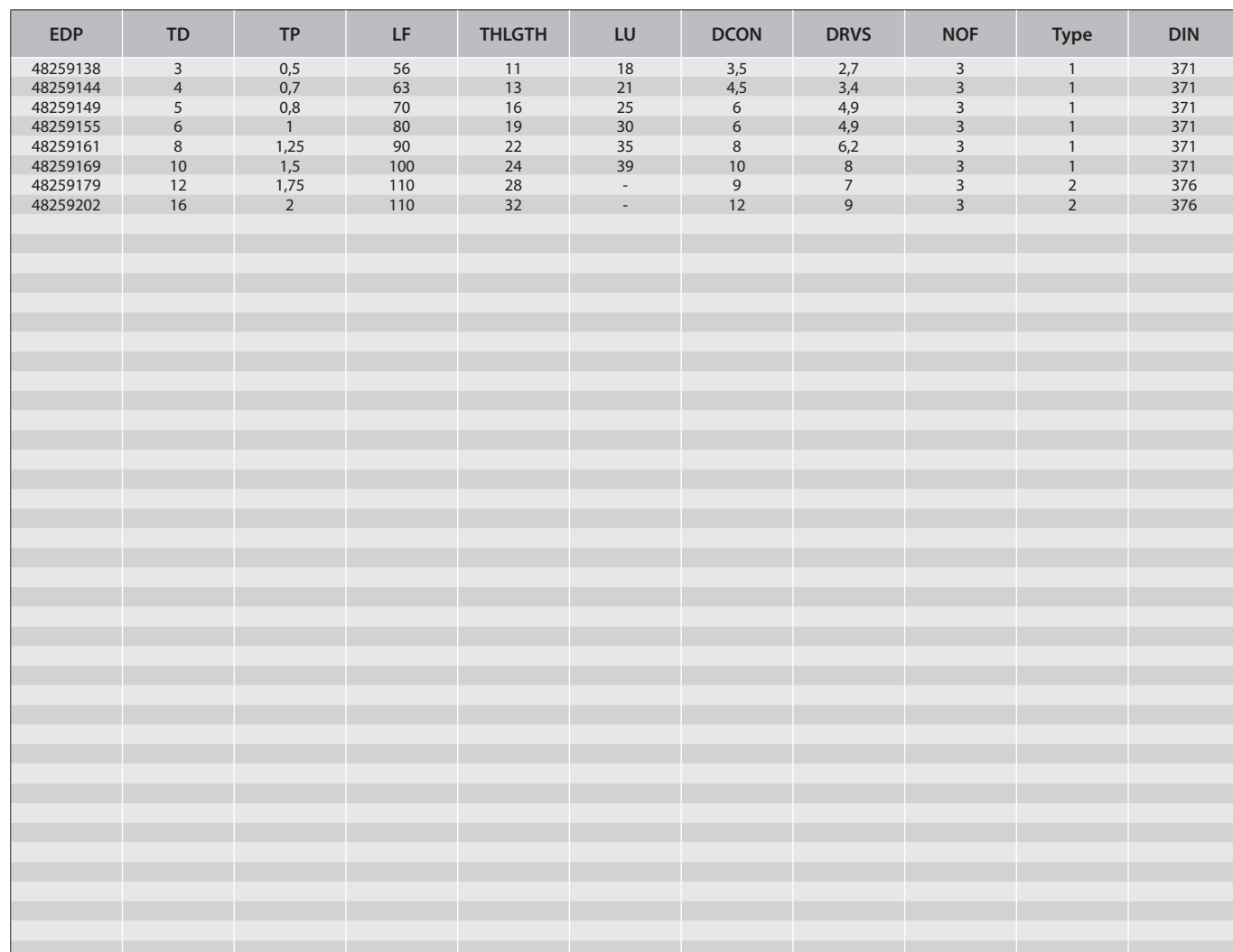
|                                                                                     |   |    |                                                                                     |     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|---|----|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | M | PM |  | 7GX |  |  |  |  |
| A                                                                                   | M | PM | V                                                                                   | 7GX | B/4                                                                                 |                                                                                     | DIN 371                                                                             | DIN 376                                                                             |

[illegible]

## Threading | Cutting taps | Metric



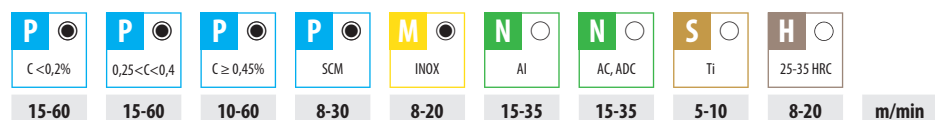
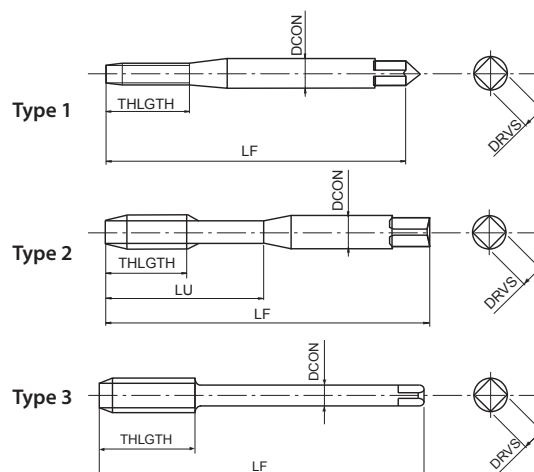
- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Oversized tap for 6H +0,1mm thread tolerance



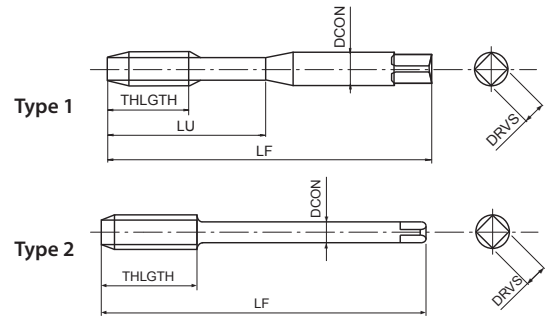
## Threading | Cutting taps | Metric



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- With long shank for long reach threading

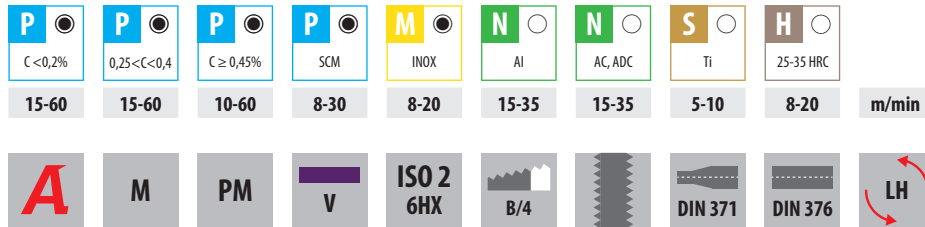
[illegible]

## Threading | Cutting taps | Metric



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For left-hand threads

## Threading | Cutting taps

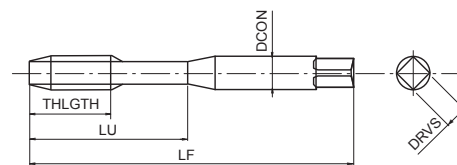


Metric

[illegible]



## Threading | Cutting taps | Metric



- |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>M</b>  | <b>N</b>  | <b>N</b>  | <b>S</b>  | <b>H</b>  |
| C < 0,2%                                                                                   | 0,25 < C < 0,4                                                                             | C ≥ 0,45%                                                                                  | SCM                                                                                        | INOX                                                                                       | Al                                                                                         | Al, ADC                                                                                    | Ti                                                                                         | 25-35 HRC                                                                                  |
| 15-60                                                                                      | 15-60                                                                                      | 10-60                                                                                      | 8-30                                                                                       | 8-20                                                                                       | 15-35                                                                                      | 15-35                                                                                      | 5-10                                                                                       | 8-20                                                                                       |
- m/min



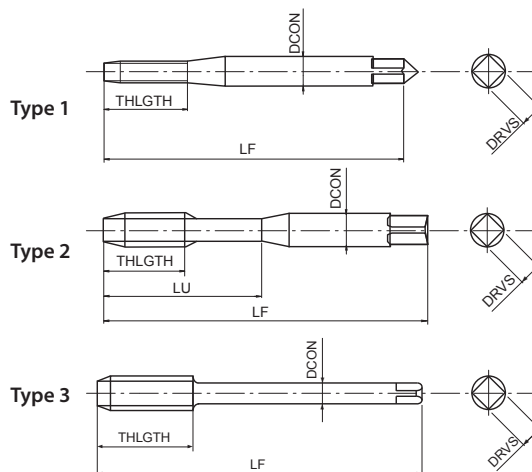
Metric

# A-POT

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels



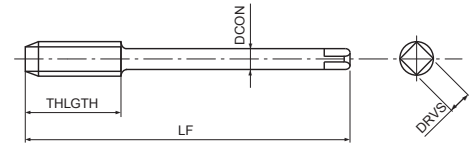
Threading | Cutting taps

|          |                |           |          |          |          |          |          |           |       |
|----------|----------------|-----------|----------|----------|----------|----------|----------|-----------|-------|
| <b>P</b> | <b>P</b>       | <b>P</b>  | <b>P</b> | <b>M</b> | <b>N</b> | <b>N</b> | <b>S</b> | <b>H</b>  |       |
| C < 0,2% | 0,25 < C < 0,4 | C ≥ 0,45% | SCM      | INOX     | Al       | AC, ADC  | Ti       | 25-35 HRC |       |
| 15-60    | 15-60          | 10-60     | 8-30     | 8-20     | 15-35    | 15-35    | 5-10     | 8-20      | m/min |



| EDP      | TD  | TP   | LF  | THLGTH | LU | DCON | DRVS | NOF | Type | DIN |
|----------|-----|------|-----|--------|----|------|------|-----|------|-----|
| 48145135 | 2,5 | 0,35 | 50  | -      | 9  | 2,8  | 2,1  | 2   | 1    | 371 |
| 48145137 | 2,6 | 0,35 | 50  | -      | 9  | 2,8  | 2,1  | 2   | 1    | 371 |
| 48145141 | 3   | 0,35 | 56  | 8      | 18 | 3,5  | 2,7  | 3   | 2    | 371 |
| 48145143 | 3,5 | 0,35 | 56  | 9      | 20 | 4    | 3    | 3   | 2    | 371 |
| 48145146 | 4   | 0,35 | 63  | 10     | 21 | 4,5  | 3,4  | 3   | 2    | 371 |
| 48145145 | 4   | 0,5  | 63  | 10     | 21 | 4,5  | 3,4  | 3   | 2    | 371 |
| 48145148 | 4,5 | 0,5  | 70  | 12     | 25 | 6    | 4,9  | 3   | 2    | 371 |
| 48145151 | 5   | 0,5  | 70  | 12     | 25 | 6    | 4,9  | 3   | 2    | 371 |
| 48145602 | 6   | 0,5  | 80  | 14     | 30 | 6    | 4,9  | 3   | 2    | 371 |
| 48145601 | 6   | 0,75 | 80  | 14     | 30 | 6    | 4,9  | 3   | 2    | 371 |
| 48145160 | 7   | 0,75 | 80  | 14     | 30 | 7    | 5,5  | 3   | 2    | 371 |
| 48145604 | 8   | 0,75 | 80  | 18     | 30 | 8    | 6,2  | 3   | 2    | 371 |
| 48145603 | 8   | 1    | 90  | 22     | 35 | 8    | 6,2  | 3   | 2    | 371 |
| 48145605 | 9   | 1    | 90  | 22     | 35 | 9    | 7    | 3   | 2    | 371 |
| 48145608 | 10  | 0,75 | 90  | 20     | 35 | 10   | 8    | 3   | 2    | 371 |
| 48145607 | 10  | 1    | 90  | 20     | 35 | 10   | 8    | 3   | 2    | 371 |
| 48145606 | 10  | 1,25 | 100 | 24     | 39 | 10   | 8    | 3   | 2    | 371 |
| 48145157 | 6   | 0,5  | 80  | 14     | -  | 4,5  | 3,4  | 3   | 3    | 374 |
| 48145156 | 6   | 0,75 | 80  | 14     | -  | 4,5  | 3,4  | 3   | 3    | 374 |
| 48145163 | 8   | 0,75 | 80  | 18     | -  | 6    | 4,9  | 3   | 3    | 374 |
| 48145162 | 8   | 1    | 90  | 22     | -  | 6    | 4,9  | 3   | 3    | 374 |
| 48145167 | 9   | 1    | 90  | 22     | -  | 7    | 5,5  | 3   | 3    | 374 |
| 48145172 | 10  | 0,75 | 90  | 20     | -  | 7    | 5,5  | 3   | 3    | 374 |
| 48145171 | 10  | 1    | 90  | 20     | -  | 7    | 5,5  | 3   | 3    | 374 |
| 48145170 | 10  | 1,25 | 100 | 24     | -  | 7    | 5,5  | 3   | 3    | 374 |
| 48145176 | 11  | 1    | 90  | 20     | -  | 8    | 6,2  | 3   | 3    | 374 |
| 48145182 | 12  | 1    | 100 | 22     | -  | 9    | 7    | 3   | 3    | 374 |
| 48145181 | 12  | 1,25 | 100 | 22     | -  | 9    | 7    | 3   | 3    | 374 |
| 48145180 | 12  | 1,5  | 100 | 22     | -  | 9    | 7    | 3   | 3    | 374 |
| 48145194 | 14  | 1    | 100 | 22     | -  | 11   | 9    | 4   | 3    | 374 |
| 48145193 | 14  | 1,25 | 100 | 22     | -  | 11   | 9    | 4   | 3    | 374 |
| 48145192 | 14  | 1,5  | 100 | 22     | -  | 11   | 9    | 4   | 3    | 374 |
| 48145204 | 16  | 1    | 100 | 22     | -  | 12   | 9    | 4   | 3    | 374 |
| 48145203 | 16  | 1,5  | 100 | 22     | -  | 12   | 9    | 4   | 3    | 374 |
| 48145218 | 18  | 1    | 110 | 25     | -  | 14   | 11   | 4   | 3    | 374 |
| 48145216 | 18  | 1,5  | 110 | 25     | -  | 14   | 11   | 4   | 3    | 374 |
| 48145232 | 20  | 1    | 125 | 25     | -  | 16   | 12   | 4   | 3    | 374 |
| 48145230 | 20  | 1,5  | 125 | 25     | -  | 16   | 12   | 4   | 3    | 374 |
| 48145220 | 20  | 2    | 140 | 34     | -  | 16   | 12   | 4   | 3    | 374 |
| 48145241 | 22  | 1    | 125 | 25     | -  | 18   | 14,5 | 4   | 3    | 374 |
| 48145240 | 22  | 1,5  | 125 | 25     | -  | 18   | 14,5 | 4   | 3    | 374 |
| 48145239 | 22  | 2    | 140 | 34     | -  | 18   | 14,5 | 4   | 3    | 374 |
| 48145251 | 24  | 1    | 140 | 28     | -  | 18   | 14,5 | 4   | 3    | 374 |
| 48145250 | 24  | 1,5  | 140 | 28     | -  | 18   | 14,5 | 4   | 3    | 374 |
| 48145249 | 24  | 2    | 140 | 28     | -  | 18   | 14,5 | 4   | 3    | 374 |

## Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Side through coolant

|                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>M</b>  | <b>N</b>  | <b>N</b>  | <b>S</b>  | <b>H</b>  |
| C < 0,2%                                                                                   | 0,25 < C < 0,4                                                                             | C ≥ 0,45%                                                                                  | SCM                                                                                        | INOX                                                                                       | Al                                                                                         | AC, ADC                                                                                    | Ti                                                                                         | 25-35 HRC                                                                                  |
| 15-60                                                                                      | 15-60                                                                                      | 10-60                                                                                      | 8-30                                                                                       | 8-20                                                                                       | 15-35                                                                                      | 15-35                                                                                      | 5-10                                                                                       | 8-20                                                                                       |

m/min





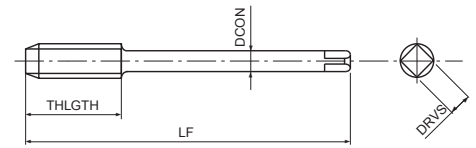






[illegible]

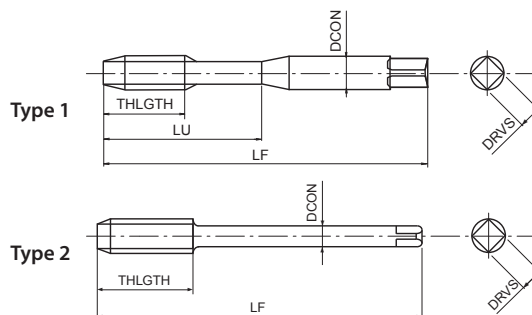
### Threading | Cutting taps | Metric Fine



- ## Threading | Cutting taps



## Threading | Cutting taps | UNC



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

|                                                                                                        |                                                                                                              |                                                                                                         |                                                                                                   |                                                                                                    |                                                                                                  |                                                                                                       |                                                                                                  |                                                                                                         |       |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------|
| <b>P</b> <br>C < 0,2% | <b>P</b> <br>0,25 < C < 0,4 | <b>P</b> <br>C ≥ 0,45% | <b>P</b> <br>SCM | <b>M</b> <br>INOX | <b>N</b> <br>Al | <b>N</b> <br>AC, ADC | <b>S</b> <br>Ti | <b>H</b> <br>25-35 HRC |       |
| 15-60                                                                                                  | 15-60                                                                                                        | 10-60                                                                                                   | 8-30                                                                                              | 8-20                                                                                               | 15-35                                                                                            | 15-35                                                                                                 | 5-10                                                                                             | 8-20                                                                                                    | m/min |



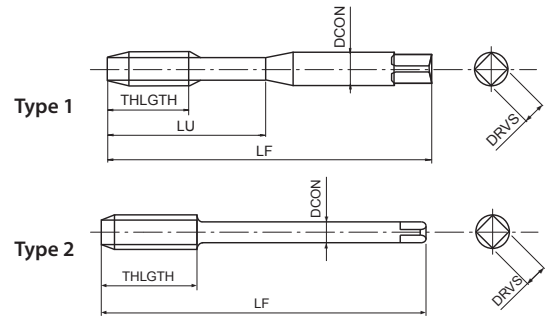




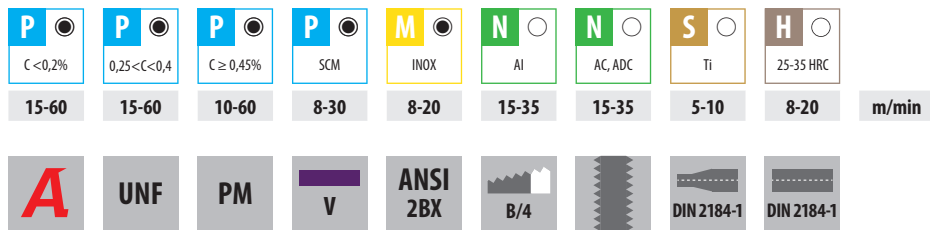



[illegible]

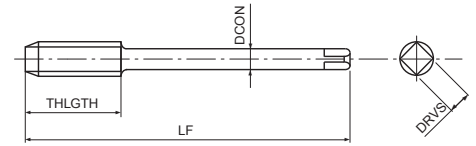
## Threading | Cutting taps | UNF



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

[illegible]

## Threading | Cutting taps | G (BSP)

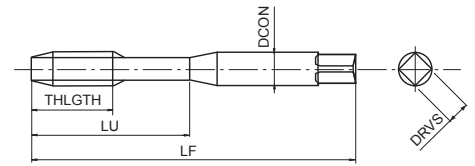


- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

|                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |       |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------|
| <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>M</b>  | <b>N</b>  | <b>N</b>  | <b>S</b>  | <b>H</b>  |       |
| C < 0,2%                                                                                   | 0,25 < C < 0,4                                                                             | C ≥ 0,45%                                                                                  | SCM                                                                                        | INOX                                                                                       | Al                                                                                         | AC, ADC                                                                                    | Ti                                                                                         | 25-35 HRC                                                                                  |       |
| 15-60                                                                                      | 15-60                                                                                      | 10-60                                                                                      | 8-30                                                                                       | 8-20                                                                                       | 15-35                                                                                      | 15-35                                                                                      | 5-10                                                                                       | 8-20                                                                                       | m/min |

[illegible]

## Threading | Cutting taps | BSW

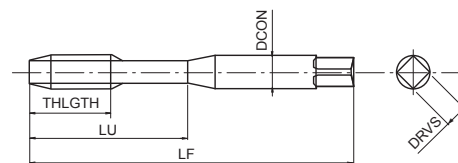


- ## Threading | Cutting taps

BSW



## Threading | Cutting taps | BSF

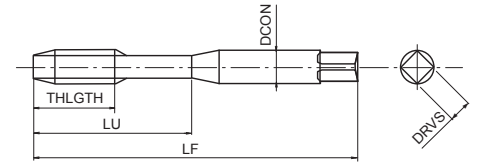


- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

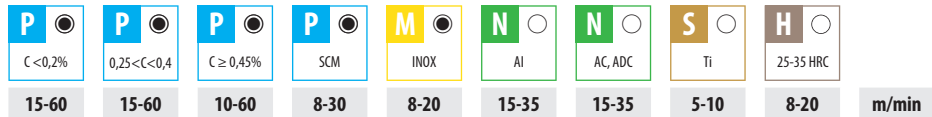
|                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |                                                                                            |       |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------|
| <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>P</b>  | <b>M</b>  | <b>N</b>  | <b>N</b>  | <b>S</b>  | <b>H</b>  |       |
| C < 0,2%                                                                                   | 0,25 < C < 0,4                                                                             | C ≥ 0,45%                                                                                  | SCM                                                                                        | INOX                                                                                       | Al                                                                                         | AC, ADC                                                                                    | Ti                                                                                         | 25-35 HRC                                                                                  |       |
| 15-60                                                                                      | 15-60                                                                                      | 10-60                                                                                      | 8-30                                                                                       | 8-20                                                                                       | 15-35                                                                                      | 15-35                                                                                      | 5-10                                                                                       | 8-20                                                                                       | m/min |

[illegible]

## Threading | Cutting taps | BA



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

[illegible]

[www.osgeurope.com](http://www.osgeurope.com)



## SWEDEN

Branch office of OSG SCANDINAVIA  
Singelgatan 7  
212 28 Malmö  
Sweden  
Tel: +46 40 41 22 55  
osg@osg-scandinavia.com

## OSG SCANDINAVIA

(For Scandinavian countries)  
Langebjergvaenget 16  
4000 Roskilde  
Denmark  
Tel: +45 46 75 65 55  
osg@osg-scandinavia.com

## OSG NETHERLANDS

Bedrijfsweg 5  
3481 MG Harmelen  
The Netherlands  
Tel: +31 348 44 2764  
info@osg-nl.com

## OSG UK

Kelsey Close, Attleborough Fields Ind Est,  
CV11 6RS, Nuneaton  
United Kingdom  
Tel: +44 (0) 1827 720 013  
uk\_sales@osg-uk.com

## OSG EUROPE LOGISTICS

Avenue Lavoisier 1  
B-1300 Z.I. Wavre - Nord  
Belgium  
Tel: +32 10 23 05 07  
info@osgeurope.com

## OSG BELUX

Avenue Lavoisier 1  
B-1300 Z.I. Wavre - Nord  
Belgium  
Tel: +32 10 23 05 11  
info@osg-belgium.com

## OSG IBÉRICA

Bekolarra 4  
E - 01010 Vitoria-Gasteiz  
Spain  
Tel: +34 945 242 400  
osg.iberica@osg-ib.com

## OSG FRANCE

Parc Icade, Paris Nord 2  
Immeuble "Le Rimbaud"  
22 Avenue des Nations  
CS66191 - 93420 Villepinte  
France  
Tel: +33 1 49 90 10 10  
sales@osg-france.com

## OSG ITALY

Via Ferrero, 65 A/B  
I - 10098 Rivoli  
Italy  
Tel: +39 0117705211  
info@osg-italia.it



# OSG IN EUROPE

## CZECH REPUBLIC, SLOVAKIA, HUNGARY

OSG Europe Logistics S.A.  
Slovakia, organizačná zložka  
Račianska 22/A, Bratislava 831 02  
Slovakia  
Tel.: +421 24 32 91 295  
info@osgeurope.com

## OSG POLAND

ul. Spółdzielcza 57  
05-074 Halinów  
Polska  
Tel: +22 760 82 71  
Mob. +48 570 677 711  
osg@osg-poland.com

## OSG ROMANIA SRL

25C, Bucuresti-Magurele Street (Sector 5)  
051431 Bucuresti  
România  
Tel: +40 21 322 07 47  
info@osgromania.ro

## OSG TURKEY

Rami Kışla Cad.No:56 Eyüp  
İstanbul 34056  
Turkey  
Tel: +90 212 565 24 00  
Fax: +90 212 565 44 00  
info@osg-turkey.com

## Vischer & Bolli AG

Machining and Workholding  
Im Schossacher 17  
CH-8600 Dübendorf  
Switzerland  
Tel.: +41 44 802 15 15  
info@vb-tools.com

## OSG GERMANY

Karl-Ehmann-Str. 25  
D - 73037 Göppingen  
Germany  
Tel: +49 7161 6064 - 0  
Fax: +49 7161 6064 - 444  
info@osg-germany.de





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#### **OSG EUROPE LOGISTICS**

Avenue Lavoisier 1  
B-1300 Z.I. Wavre - Nord - Belgium  
Tel: +32 10 23 05 07  
info@osgeurope.com

#### **OSG POLAND Sp. z o.o.**

Spółdzielcza 57  
05-074 Halinów - Poland  
Tel: +22 760 82 71  
osg@osg-poland.com

#### **OSG ROMANIA SRL**

25C, Bucuresti-Magurele Street (Sector 5)  
051431 Bucuresti - România  
Tel: +40 21 322 07 47  
info@osgromania.ro

#### **OSG BELUX**

Avenue Lavoisier 1  
B-1300 Z.I. Wavre - Nord - Belgium  
Tel: +32 10 23 05 11  
info@osg-belgium.com

#### **OSG GERMANY**

Karl-Ehmann-Str. 25  
D - 73037 Göppingen - Germany  
Tel: +49 7161 6064 - 0  
Fax: +49 7161 6064 - 444  
info@osg-germany.de

#### **AUSTRIA**

Branch office of OSG GERMANY  
Messestraße 11  
A-6850 Dornbirn  
Tel: +49 7161 6064-0  
info@osg-germany.de

#### **OSG FRANCE**

Parc Icade, Paris Nord 2  
Immeuble "Le Rimbaud"  
22 Avenue des Nations  
CS66191 - 93420 Villepinte - France  
Tel: +33 1 49 90 10 10  
sales@osg-france.com

#### **OSG SCANDINAVIA**

(For Scandinavian countries)  
Langebjergvaenget 16  
4000 Roskilde - Denmark  
Tel: +45 46 75 65 55  
osg@osg-scandinavia.com

#### **OSG ITALIA**

Via Ferrero, 65 A/B3  
I - 10098 Rivoli - Italy  
Tel: +39 0117705211  
info@osg-italia.it

#### **OSG NETHERLANDS**

Bedrijfsweg 5 - 3481 MG Harmelen  
Tel: +31 348 44 2764  
info@osg-nl.com

#### **SWEDEN**

Branch office of OSG SCANDINAVIA  
Singelgatan 7  
212 28 Malmö - Sweden  
Tel: +46 40 41 22 55  
osg@osg-scandinavia.com

#### **Vischer & Bolli AG**

Machining and Workholding  
Im Schossacher 17  
CH-8600 Dübendorf  
T +41 44 802 15 15  
info@vb-tools.com

#### **OSG UK**

Kelsey Close, Attleborough Fields Ind Est,  
CV11 6RS, Nuneaton, United Kingdom.  
Tel: +44 1827 720 013  
uk\_sales@osg-uk.com

#### **OSG IBERICA**

Bekolarra 4  
E - 01010 Vitoria-Gasteiz - Spain  
Tel: +34 945 242 400  
osg.iberica@osg-ib.com

#### **CZECH, SLOVAKIA, HUNGARY**

OSG Europe Logistics S.A.  
Slovakia organizacna zlozka  
Racianská 22/A, SK-83102 Bratislava  
Slovakia  
Tel. +421 24 32 91 295  
Orders-osgsvk@osgeurope.com

#### **OSG TURKEY**

Rami Kışla Cad.No:56 Eyüp  
Istanbul 34056 - Turkey  
Tel+90 212 565 24 00  
Fax: +90 212 565 44 00  
info@osg-turkey.com

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