



## High Performance Automatic lathe tools

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8層804室

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Longhua District,Shenzhen

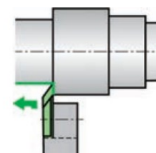
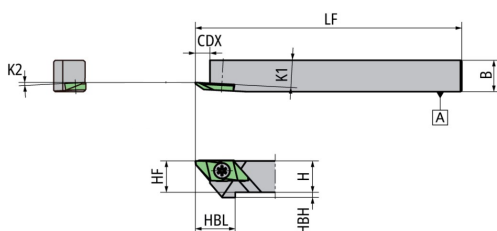
#### ☎ 官方熱綫 : 0755-23888890 / 23888891

#### 🌐 Global:<http://insight-t.com>

Mainland China:<http://szchenri.com>

## TBP.. series/Toolholder

### TBP



• Diagram shows right-hand tool

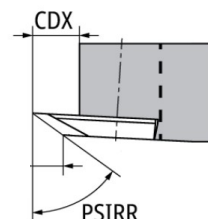
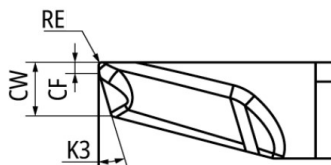
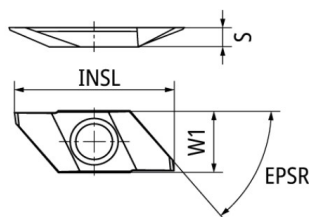
| Item Number | Stock | Hand | B  | CDX | H  | HBH | HBL | HF | K1 | K2 | LF  | Insert Gage |
|-------------|-------|------|----|-----|----|-----|-----|----|----|----|-----|-------------|
|             |       |      | mm | mm  | mm | mm  | mm  | mm | °  | °  | mm  |             |
| TBPR10      | •     | R    | 10 | 6.5 | 10 | 2   | 15  | 10 | 3  | 2  | 120 | TBP..       |
| TBPR12      | •     | R    | 12 | 6.5 | 12 | —   | —   | 12 | 3  | 2  | 120 | TBP..       |
| TBPR16      | •     | R    | 16 | 6.5 | 16 | —   | —   | 16 | 3  | 2  | 120 | TBP..       |

### Spare Parts

| Item Number | Clamp screw | Wrench<br>(for Clamp screw) |
|-------------|-------------|-----------------------------|
| TBPR10      | LRIS-4*10PW | CLR-15S                     |
| TBPR12      | LRIS-4*12PW | CLR-15S                     |
| TBPR16      | LRIS-4*12PW | CLR-15S                     |

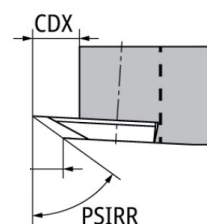
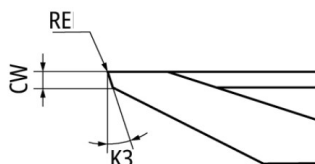
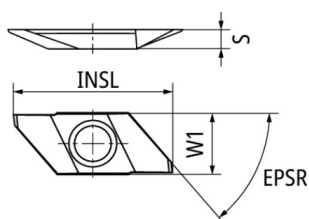
## TBP.. series/Inserts Carbide

### I TBP-BM with BM-Chipbreaker



| Item Number   | Hand | Chip-breaker | CDX | CF  | CW  | EPSR | INSL | K3 | PSIRR | RE   | S   | W1 | Carbide | AS25 |
|---------------|------|--------------|-----|-----|-----|------|------|----|-------|------|-----|----|---------|------|
|               |      |              | mm  | mm  | mm  | °    | mm   | °  | mm    | °    | mm  | mm |         |      |
| TBP72FR05-BM  | R    | Yes          | 5.3 | 0.3 | 1.4 | 50   | 20   | 16 | 72    | 0.05 | 2.5 | 8  | ●       | ●    |
| TBP72FR10M-BM | R    | Yes          | 5.3 | 0.3 | 1.4 | 50   | 20   | 16 | 72    | 0.08 | 2.5 | 8  | ●       | ●    |
| TBP72FR15M-BM | R    | Yes          | 5.3 | 0.3 | 1.4 | 50   | 20   | 16 | 72    | 0.13 | 2.5 | 8  | ●       | ●    |
| TBP72FR20M-BM | R    | Yes          | 5.3 | 0.3 | 1.4 | 50   | 20   | 16 | 72    | 0.18 | 2.5 | 8  | ●       | ●    |

### I TBP with Chipbreaker

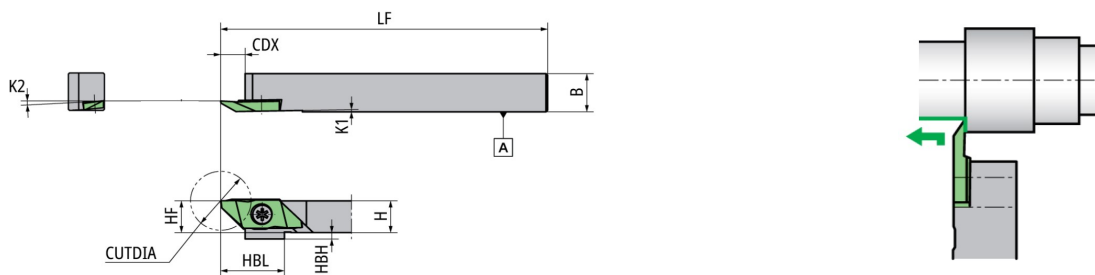


- Diagram shows right-hand tool

| Item Number | Hand | Chip-breaker | CDX | CF | CW  | EPSR | INSL | K3 | PSIRR | RE   | S   | W1 | Carbide | AS25 |
|-------------|------|--------------|-----|----|-----|------|------|----|-------|------|-----|----|---------|------|
|             |      |              | mm  | mm | mm  | °    | mm   | °  | mm    | °    | mm  | mm |         |      |
| TBP60FR05   | R    | Yes          | 5.3 | -  | 0.5 | 50   | 20   | 15 | 60    | 0.05 | 2.5 | 8  | ●       | ●    |
| TBP60FR10   | R    | Yes          | 5.3 | -  | 0.5 | 50   | 20   | 15 | 60    | 0.08 | 2.5 | 8  | ●       | ●    |
| TBP60FR13   | R    | Yes          | 5.3 | -  | 0.5 | 50   | 20   | 15 | 60    | 0.13 | 2.5 | 8  | ●       | ●    |
| TBP60FR20   | R    | Yes          | 5.3 | -  | 0.5 | 50   | 20   | 15 | 60    | 0.18 | 2.5 | 8  | ●       | ●    |

## CTPA.. series/Toolholder

### I CTPA



- Diagram shows right-hand tool

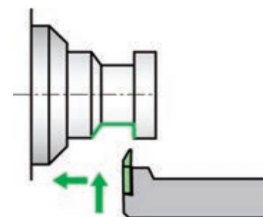
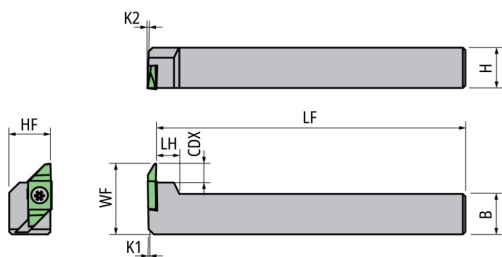
| Item Number | Stock | Hand | CUTDIA | B  | CDX | H  | HBH | HBL  | HF | K1 | K2 | LF  | Insert Gage   |
|-------------|-------|------|--------|----|-----|----|-----|------|----|----|----|-----|---------------|
|             |       |      | mm     | mm | mm  | mm | mm  | mm   | mm | °  | °  | mm  |               |
| CTPAR10     | •     | R    | 16     | 10 | 8.5 | 10 | 2   | 19.5 | 10 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAR12     | •     | R    | 16     | 12 | 8.5 | 12 | —   | —    | 12 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAR16     | •     | R    | 16     | 16 | 8.5 | 16 | —   | —    | 16 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAL10     | •     | L    | 16     | 10 | 8.5 | 10 | 2   | 19.5 | 10 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAL12     | •     | L    | 16     | 12 | 8.5 | 12 | —   | —    | 12 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAL16     | •     | L    | 16     | 16 | 8.5 | 16 | —   | —    | 16 | 1  | 2  | 120 | CTPA.. TBPA.. |

### I Spare Parts

| Item Number | Clamp screw   | Wrench<br>(for Clamp screw) |
|-------------|---------------|-----------------------------|
| CTPAR10     | LRIS-4.5*10PW | CLR-15S                     |
| CTPAR12     | LRIS-4.5*12PW | CLR-15S                     |
| CTPAR16     | LRIS-4.5*12PW | CLR-15S                     |
| CTPAL10     | LRIS-4.5*10PW | CLR-15S                     |
| CTPAL12     | LRIS-4.5*12PW | CLR-15S                     |
| CTPAL16     | LRIS-4.5*12PW | CLR-15S                     |

## TBPA.. series/Toolholder

### CH-TBPA for horizontal gang style tool post



- Diagram shows left-hand tool

NOTE: Use a right-handed insert.

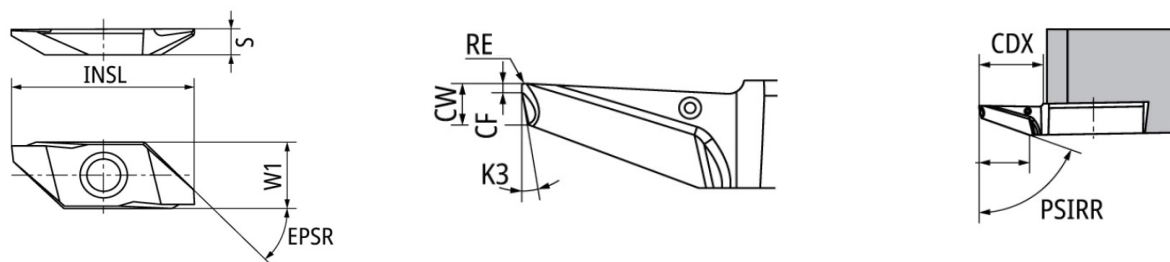
| Item Number | Stock | Hand | B  | CDX | H  | HF | K1 | K2 | LF  | LH | WF | Insert Gage |
|-------------|-------|------|----|-----|----|----|----|----|-----|----|----|-------------|
|             |       |      | mm | mm  | mm | mm | °  | °  | mm  | mm | mm |             |
| CH-TBPAL16  | •     | L    | 16 | 8.5 | 16 | 16 | 1  | 2  | 120 | 9  | 28 | TBPA..      |

### I Spare Parts

| Item Number<br>OEM | Clamp screw | Wrench<br>(for Clamp screw) |
|--------------------|-------------|-----------------------------|
| CH-TBPAL16         | LRIS-4.5*12 | CLR-15S                     |

## TBPA.. series/Inserts Carbide

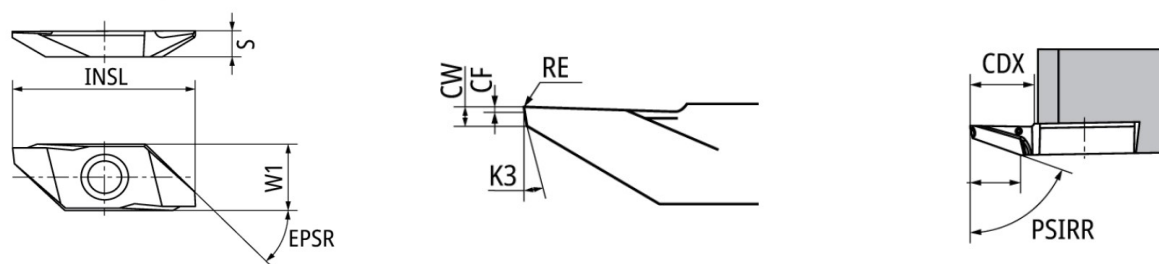
### I TBPA-BM with BM-Chipbreaker



- Diagram shows right-hand tool

| Item Number    | Hand | Chip-breaker | CDX | CF  | CW   | EPSR | INS | K3 | PSIRR | RE   | S   | W1  | Carbide | AS25 |
|----------------|------|--------------|-----|-----|------|------|-----|----|-------|------|-----|-----|---------|------|
|                |      |              | mm  | mm  | mm   | °    | mm  | °  | °     | mm   | mm  | mm  |         |      |
| TBPA70FR05-BM  | R    | Yes          | 6.5 | 0.3 | 1.35 | 45   | 25  | 12 | 72    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| TBPA70FR10M-BM | R    | Yes          | 6.5 | 0.3 | 1.35 | 45   | 25  | 12 | 72    | 0.08 | 3.5 | 9.4 | ●       | ●    |
| TBPA70FR20M-BM | R    | Yes          | 6.5 | 0.3 | 1.35 | 45   | 25  | 12 | 72    | 0.18 | 3.5 | 9.4 | ●       | ●    |

### I TBPA with Chipbreaker

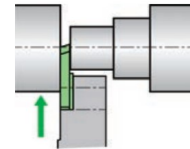
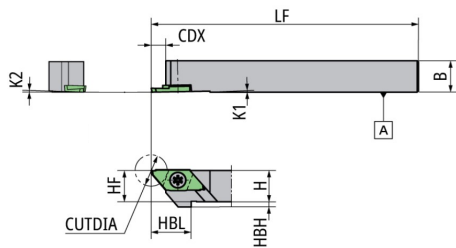


- Diagram shows right-hand tool

| Item Number | Hand | Chip-breaker | CDX | CF  | CW  | EPSR | INS | K3 | PSIRR | RE   | S   | W1  | Carbide | AS25 |
|-------------|------|--------------|-----|-----|-----|------|-----|----|-------|------|-----|-----|---------|------|
|             |      |              | mm  | mm  | mm  | °    | mm  | °  | °     | mm   | mm  | mm  |         |      |
| TBPA60FR05  | R    | Yes          | 6.5 | 0.3 | 0.7 | 45   | 25  | 15 | 60    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| TBPA60FR10  | R    | Yes          | 6.5 | 0.3 | 0.7 | 45   | 25  | 15 | 60    | 0.08 | 3.5 | 9.4 | ●       | ●    |
| TBPA60FR20  | R    | Yes          | 6.5 | 0.3 | 0.7 | 45   | 25  | 15 | 60    | 0.18 | 3.5 | 9.4 | ●       | ●    |

## CTP.. series/Toolholder

### I CTP



- Diagram shows right-hand tool

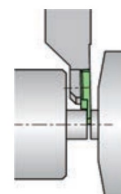
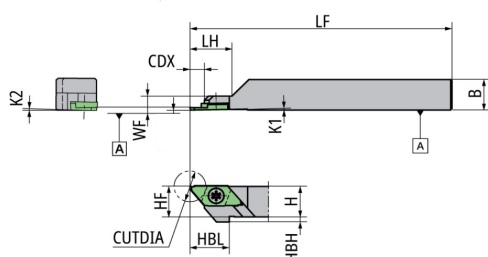
| Item Number | Stock | Hand | CUTDIA | B  | CDX | H  | HBH | HBL | HF | K1 | K2 | LF  | Insert Gage |
|-------------|-------|------|--------|----|-----|----|-----|-----|----|----|----|-----|-------------|
|             |       |      | mm     | mm | mm  | mm | mm  | mm  | mm | °  | °  | mm  |             |
| CTPR10      | •     | R    | 12     | 10 | 6.5 | 10 | 2   | 15  | 10 | 1  | 2  | 120 | CTP..       |
| CTPR12      | •     | R    | 12     | 12 | 6.5 | 12 | –   | –   | 12 | 1  | 2  | 120 | CTP..       |
| CTPR16      | •     | R    | 12     | 16 | 6.5 | 16 | –   | –   | 16 | 1  | 2  | 120 | CTP..       |
| CTPL10      | •     | L    | 12     | 10 | 6.5 | 10 | 2   | 15  | 10 | 1  | 2  | 120 | CTP..       |
| CTPL12      | •     | L    | 12     | 12 | 6.5 | 12 | –   | –   | 12 | 1  | 2  | 120 | CTP..       |
| CTPL16      | •     | L    | 12     | 16 | 6.5 | 16 | –   | –   | 16 | 1  | 2  | 120 | CTP..       |

### I Spare Parts

| Item Number | Clamp screw | Wrench<br>(for Clamp screw) |
|-------------|-------------|-----------------------------|
| CTPR10      | LRIS-4*10PW | CLR-15S                     |
| CTPR12      | LRIS-4*12PW | CLR-15S                     |
| CTPR16      | LRIS-4*12PW | CLR-15S                     |
| CTPL10      | LRIS-4*10PW | CLR-15S                     |
| CTPL12      | LRIS-4*12PW | CLR-15S                     |
| CTPL16      | LRIS-4*12PW | CLR-15S                     |

## CTP.. series/Toolholder

### I CTPR-SUB for Sub-Spindle



| Item Number  | Stock | Hand | CUTDIA | B  | CDX | H  | HBH | HBL | HF | K1 | K2 | LF  | LH   | WF  | Insert Gage |
|--------------|-------|------|--------|----|-----|----|-----|-----|----|----|----|-----|------|-----|-------------|
|              |       |      | mm     | mm | mm  | mm | mm  | mm  | mm | °  | °  | mm  | mm   | mm  |             |
| CTPR10JX-SUB | •     | R    | 12     | 10 | 6.5 | 10 | 2   | 15  | 10 | 1  | 2  | 120 | 21.5 | 5.5 | CTP..       |
| CTPR12JX-SUB | •     | R    | 12     | 12 | 6.5 | 12 | —   | —   | 12 | 1  | 2  | 120 | 21.5 | 5.5 | CTP..       |

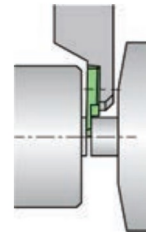
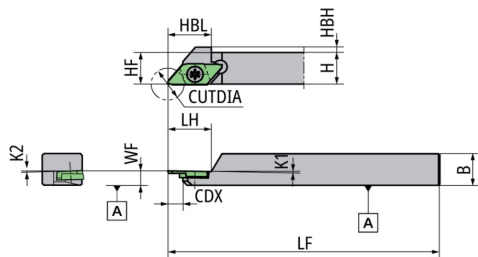
### I Spare Parts

| Item Number  | Clamp screw | Wrench<br>(for Clamp screw) |
|--------------|-------------|-----------------------------|
| CTPR10JX-SUB | LRIS-4*5    | CLR-15S                     |
| CTPR12JX-SUB | LRIS-4*5    | CLR-15S                     |



# CTP.. series/Toolholder

## I CTPL-SUB for Sub-Spindle



- Diagram shows left-hand tool

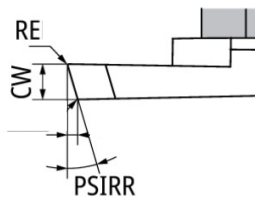
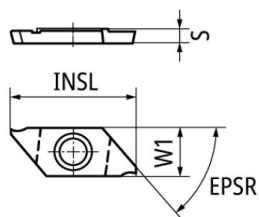
| Item Number  | Stock | Hand | CUTDIA | B  | CDX | H  | HBH | HBL | HF | K1 | K2 | LF  | LH   | WF  | Insert Gage |
|--------------|-------|------|--------|----|-----|----|-----|-----|----|----|----|-----|------|-----|-------------|
|              |       |      | mm     | mm | mm  | mm | mm  | mm  | mm | °  | °  | mm  | mm   | mm  |             |
| CTPL10JX-SUB | •     | L    | 12     | 10 | 6.5 | 10 | 2   | 15  | 10 | 1  | 2  | 120 | 27.5 | 5.5 | CTP..       |
| CTPL12JX-SUB | •     | L    | 12     | 12 | 6.5 | 12 | —   | —   | 12 | 1  | 2  | 120 | 27.5 | 5.5 | CTP..       |

## I Spare Parts

| Item Number  | Clamp screw | Wrench<br>(for Clamp screw) |
|--------------|-------------|-----------------------------|
| CTPL10JX-SUB | LRIS-4*5    | CLR-15S                     |
| CTPL12JX-SUB | LRIS-4*5    | CLR-15S                     |

## CTP.. series/Inserts Carbide Right-Hand

### CTP-FR

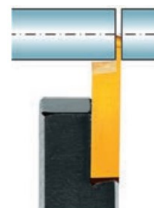
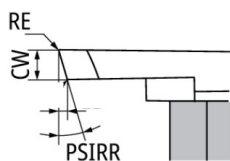
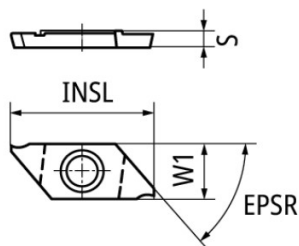


●All angles shown are obtained when insert is set in the holder.  
in the holder.

| Figure | Item Number | Hand | Chip-breaker | CUTDIA | CW  | EPSR | INSL | PSIRR | RE   | S   | W1  | Carbide | AS25 |
|--------|-------------|------|--------------|--------|-----|------|------|-------|------|-----|-----|---------|------|
|        |             |      |              | mm     | mm  | °    | mm   | °     | mm   | mm  | mm  |         |      |
| 1      | CTP05FR-SH  | R    | Yes          | 4      | 0.5 | 50   | 20   | 16    | 0.03 | 2.5 | 8.0 | ●       | ●    |
| 1      | CTP07FR     | R    | Yes          | 6      | 0.7 | 50   | 20   | 16    | 0.05 | 2.5 | 8.0 | ●       | ●    |
| 1      | CTP10FR     | R    | Yes          | 8      | 1.0 | 50   | 20   | 16    | 0.05 | 2.5 | 8.0 | ●       | ●    |
| 1      | CTP13FR     | R    | Yes          | 12     | 1.3 | 50   | 20   | 16    | 0.05 | 2.5 | 8.0 | ●       | ●    |
| 1      | CTP15FR     | R    | Yes          | 12     | 1.5 | 50   | 20   | 16    | 0.05 | 2.5 | 8.0 | ●       | ●    |

## CTP.. series/Inserts Carbide Left-Hand

### CTP-FLK

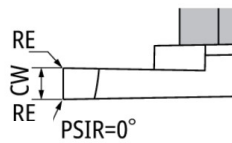
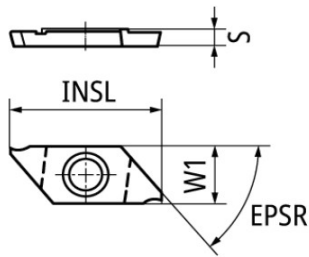


•All angles shown are obtained when insert is set in the holder.

| Figure | Item Number | Hand | Chip-breaker | CUTDIA | CW  | EPSR | INSL | PSIRR | RE   | S   | W1 | Carbide | AS25 |
|--------|-------------|------|--------------|--------|-----|------|------|-------|------|-----|----|---------|------|
|        |             |      |              | mm     | mm  | °    | mm   | °     | mm   | mm  | mm |         |      |
| 1      | CTP05FLK-SH | L    | Yes          | 4      | 0.5 | 50   | 20   | 16    | 0.03 | 2.5 | 8  | ●       | ●    |
| 1      | CTP07FLK    | L    | Yes          | 6      | 0.7 | 50   | 20   | 16    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP10FLK    | L    | Yes          | 8      | 1   | 50   | 20   | 16    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP13FLK    | L    | Yes          | 12     | 1.3 | 50   | 20   | 16    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP15FLK    | L    | Yes          | 12     | 1.5 | 50   | 20   | 16    | 0.05 | 2.5 | 8  | ●       | ●    |

## CTP.. series/Inserts Carbide Right-Hand

### CTP-FRN

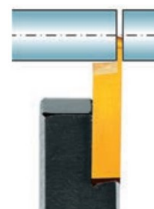
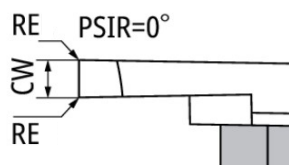
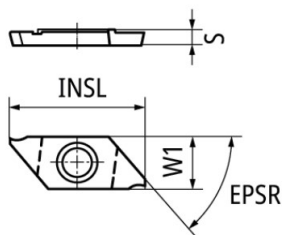


●All angles shown are obtained when insert is set in the holder.

| Figure | Item Number | Hand | Chip-breaker | CUTDIA | CW  | EPSR | INSL | PSIR | RE   | S   | W1 | Carbide | AS25 |
|--------|-------------|------|--------------|--------|-----|------|------|------|------|-----|----|---------|------|
|        |             |      |              | mm     | mm  | °    | mm   | °    | mm   | mm  | mm |         |      |
| 1      | CTP05FRN-SH | R    | Yes          | 4      | 0.5 | 50   | 20   | 0    | 0.03 | 2.5 | 8  | ●       | ●    |
| 1      | CTP07FRN    | R    | Yes          | 6      | 0.7 | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP10FRN    | R    | Yes          | 8      | 1.0 | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP13FRN    | R    | Yes          | 12     | 1.3 | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP15FRN-TH | R    | Yes          | 12     | 1.5 | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP20FRN-TH | R    | Yes          | 12     | 2.0 | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |

## CTP.. series/Inserts Carbide Left-Hand

### CTP-FLN

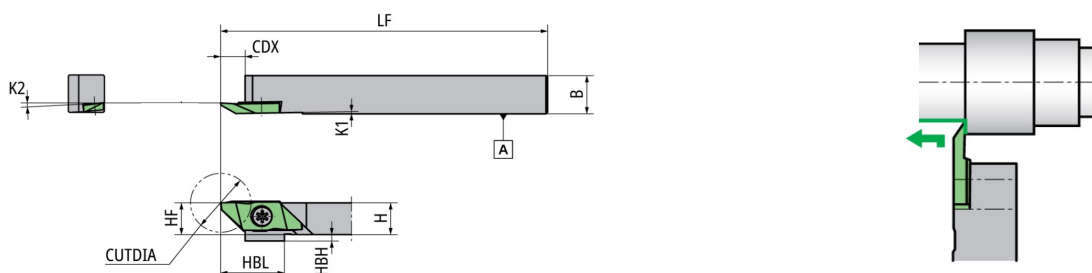


●All angles shown are obtained when insert is set in the holder.

| Figure | Item Number | Hand | Chip-breaker | CUTDIA | CW  | EPSR | INSL | PSIR | RE   | S   | W1 | Carbide | AS25 |
|--------|-------------|------|--------------|--------|-----|------|------|------|------|-----|----|---------|------|
|        |             |      |              | mm     | mm  | °    | mm   | °    | mm   | mm  | mm |         |      |
| 1      | CTP05FLN-SH | L    | Yes          | 4      | 0.5 | 50   | 20   | 0    | 0.03 | 2.5 | 8  | ●       | ●    |
| 1      | CTP07FLN    | L    | Yes          | 6      | 0.7 | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP10FLN    | L    | Yes          | 8      | 1   | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP13FLN    | L    | Yes          | 12     | 1.3 | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP15FLN-TH | L    | Yes          | 12     | 1.5 | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |
| 1      | CTP20FLN-TH | L    | Yes          | 12     | 2.0 | 50   | 20   | 0    | 0.05 | 2.5 | 8  | ●       | ●    |

## CTPA.. series/Toolholder

### I CTPA



- Diagram shows right-hand tool

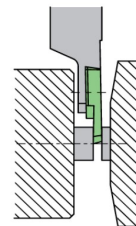
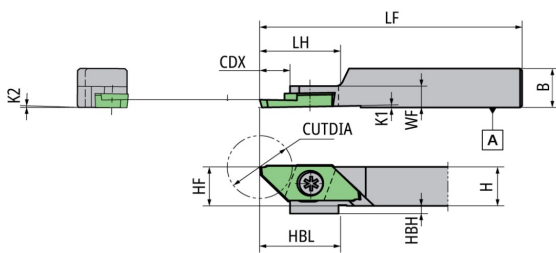
| Item Number | Stock | Hand | CUTDIA | B  | CDX | H  | HBH | HBL  | HF | K1 | K2 | LF  | Insert Gage   |
|-------------|-------|------|--------|----|-----|----|-----|------|----|----|----|-----|---------------|
|             |       |      | mm     | mm | mm  | mm | mm  | mm   | mm | °  | °  | mm  |               |
| CTPAR10     | •     | R    | 16     | 10 | 8.5 | 10 | 2   | 19.5 | 10 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAR12     | •     | R    | 16     | 12 | 8.5 | 12 | —   | —    | 12 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAR16     | •     | R    | 16     | 16 | 8.5 | 16 | —   | —    | 16 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAL10     | •     | L    | 16     | 10 | 8.5 | 10 | 2   | 19.5 | 10 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAL12     | •     | L    | 16     | 12 | 8.5 | 12 | —   | —    | 12 | 1  | 2  | 120 | CTPA.. TBPA.. |
| CTPAL16     | •     | L    | 16     | 16 | 8.5 | 16 | —   | —    | 16 | 1  | 2  | 120 | CTPA.. TBPA.. |

### I Spare Parts

| Item Number | Clamp screw   | Wrench<br>(for Clamp screw) |
|-------------|---------------|-----------------------------|
| CTPAR10     | LRIS-4.5*10PW | CLR-15S                     |
| CTPAR12     | LRIS-4.5*12PW | CLR-15S                     |
| CTPAR16     | LRIS-4.5*12PW | CLR-15S                     |
| CTPAL10     | LRIS-4.5*10PW | CLR-15S                     |
| CTPAL12     | LRIS-4.5*12PW | CLR-15S                     |
| CTPAL16     | LRIS-4.5*12PW | CLR-15S                     |

## CTPA.. series/Toolholder

### I CTPAR-SUB for Sub-Spindle



- Diagram shows right-hand tool

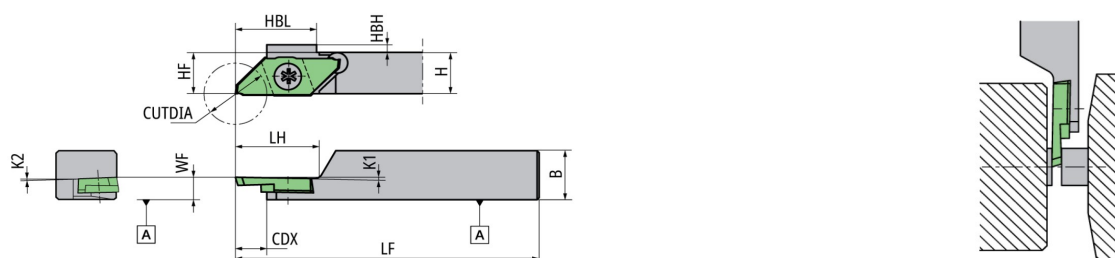
| Item Number   | Stock | Hand | CUTDIA | B  | CDX | H  | HBH | HBL  | HF | K1 | K2 | LF  | LH   | WF  | Insert Gage |
|---------------|-------|------|--------|----|-----|----|-----|------|----|----|----|-----|------|-----|-------------|
|               |       |      | mm     | mm | mm  | mm | mm  | mm   | mm | °  | °  | mm  | mm   | mm  |             |
| CTPAR10JX-SUB | •     | R    | 16     | 10 | 8.5 | 10 | 2   | 19.5 | 10 | 1  | 2  | 120 | 21.5 | 5.5 | CTPA..      |
| CTPAR12JX-SUB | •     | R    | 16     | 12 | 8.5 | 12 | -   | -    | 10 | 1  | 2  | 120 | 21.5 | 5.5 | CTPA..      |

### I Spare Parts

| Item Number   | Clamp screw | Wrench<br>(for Clamp screw) |
|---------------|-------------|-----------------------------|
| CTPAR10JX-SUB | LRIS-4.5*5  | LLR-25S                     |
| CTPAR12JX-SUB | LRIS-4.5*5  | LLR-25S                     |

## CTPA.. series/Toolholder

### I CTPAL-SUB for Sub-Spindle



- Diagram shows left-hand tool

| Item Number   | Stock | Hand | CUTDIA | B  | CDX | H  | HBH | HBL  | HF | K1 | K2 | LF  | LH   | WF  | Insert Gage |
|---------------|-------|------|--------|----|-----|----|-----|------|----|----|----|-----|------|-----|-------------|
|               |       |      | mm     | mm | mm  | mm | mm  | mm   | mm | °  | °  | mm  | mm   | mm  |             |
| CTPAL10JX-SUB | •     | L    | 16     | 10 | 8.5 | 10 | 2   | 19.5 | 10 | 1  | 2  | 120 | 27.5 | 5.5 | CTPA..      |
| CTPAL12JX-SUB | •     | L    | 16     | 12 | 8.5 | 12 | -   | -    | 10 | 1  | 2  | 120 | 27.5 | 5.5 | CTPA..      |

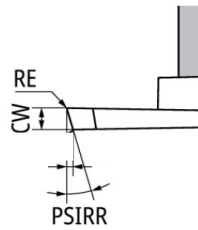
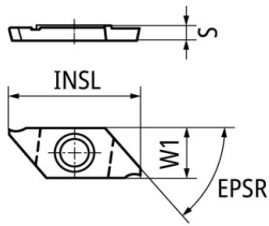
### I Spare Parts

| Item Number   | Clamp screw | Wrench<br>(for Clamp screw) |
|---------------|-------------|-----------------------------|
| CTPAL10JX-SUB | LRIS-4.5*5  | LLR-25S                     |
| CTPAL12JX-SUB | LRIS-4.5*5  | LLR-25S                     |



## CTPA.. series/Inserts Carbide Right-Hand

### CTPA-FR

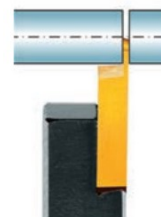
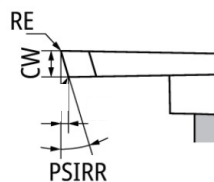
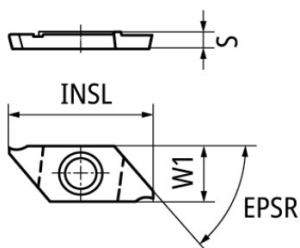


●All angles shown are obtained when insert is set in the holder.

| Figure | Item Number | Hand | Chip-breaker | CUTDIA | CW  | EPSR | INSL | PSIRR | RE   | S   | W1  | Carbide | AS25 |
|--------|-------------|------|--------------|--------|-----|------|------|-------|------|-----|-----|---------|------|
|        |             |      |              | mm     | mm  | °    | mm   | °     | mm   | mm  | mm  |         |      |
| 1      | CTPA07FR    | R    | Yes          | 6      | 0.7 | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA10FR    | R    | Yes          | 8      | 1   | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA12FR    | R    | Yes          | 12     | 1.2 | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA15FR    | R    | Yes          | 16     | 1.5 | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA20FR    | R    | Yes          | 16     | 2   | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |

## CTPA.. series/Inserts Carbide Left-Hand

### CTPA-FLK

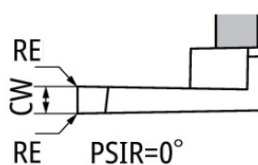
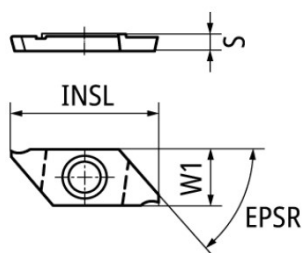


•All angles shown are obtained when insert is set in the holder.

| Figure | Item Number | Hand | Chip-breaker | CUTDIA | CW  | EPSR | INSL | PSIRR | RE   | S   | W1  | Carbide | AS25 |
|--------|-------------|------|--------------|--------|-----|------|------|-------|------|-----|-----|---------|------|
|        |             |      |              | mm     | mm  | °    | mm   | °     | mm   | mm  | mm  |         |      |
| 1      | CTPA07FLK   | L    | Yes          | 6      | 0.7 | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA10FLK   | L    | Yes          | 8      | 1   | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA12FLK   | L    | Yes          | 12     | 1.2 | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA15FLK   | L    | Yes          | 16     | 1.5 | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA20FLK   | L    | Yes          | 16     | 2   | 45   | 25   | 16    | 0.05 | 3.5 | 9.4 | ●       | ●    |

## CTPA.. series/Inserts Carbide Right-Hand

### I CTPA-FRN

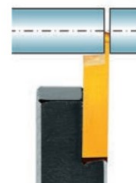
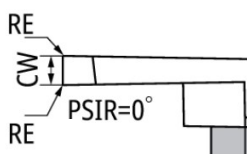
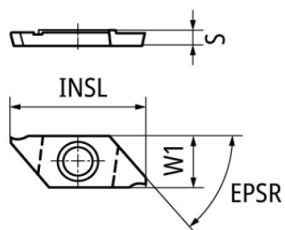


●All angles shown are obtained when insert is set in the holder.

| Figure | Item Number  | Hand | Chip-breaker | CUTDIA | CW  | EPSR | INSL | PSIR | RE   | S   | W1  | Carbide | AS25 |
|--------|--------------|------|--------------|--------|-----|------|------|------|------|-----|-----|---------|------|
|        |              |      |              | mm     | mm  | °    | mm   | °    | mm   | mm  | mm  |         |      |
| 1      | CTPA07FRN    | R    | Yes          | 6      | 0.7 | 45   | 25   | 0    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA10FRN    | R    | Yes          | 8      | 1   | 45   | 25   | 0    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA15FRN-TH | R    | Yes          | 16     | 1.5 | 45   | 25   | 0    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA20FRN-TH | R    | Yes          | 16     | 2   | 45   | 25   | 0    | 0.05 | 3.5 | 9.4 | ●       | ●    |

## CTPA.. series/Inserts Carbide Left-Hand

### I CTPA-FLN

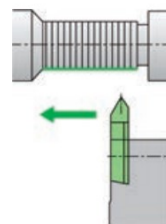
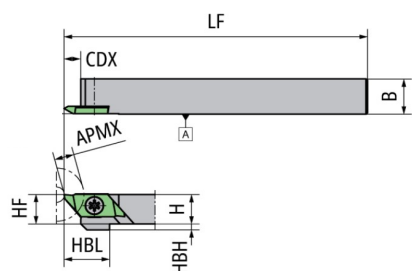


●All angles shown are obtained when insert is set in the holder.

| Figure | Item Number  | Hand | Chip-breaker | CUTDIA | CW  | EPSR | INSL | PSIR | RE   | S   | W1  | Carbide | AS25 |
|--------|--------------|------|--------------|--------|-----|------|------|------|------|-----|-----|---------|------|
|        |              |      |              | mm     | mm  | °    | mm   | °    | mm   | mm  | mm  |         |      |
| 1      | CTPA07FLN    | L    | Yes          | 6      | 0.7 | 45   | 25   | 0    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA10FLN    | L    | Yes          | 8      | 1.0 | 45   | 25   | 0    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA15FLN-TH | L    | Yes          | 16     | 1.5 | 45   | 25   | 0    | 0.05 | 3.5 | 9.4 | ●       | ●    |
| 1      | CTPA20FLN-TH | L    | Yes          | 16     | 2.0 | 45   | 25   | 0    | 0.05 | 3.5 | 9.4 | ●       | ●    |

## External thread TTP.. series/Toolholder

### TTP



- Diagram shows right-hand tool

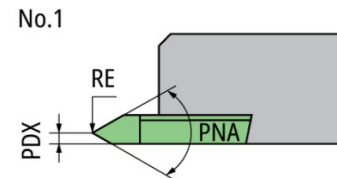
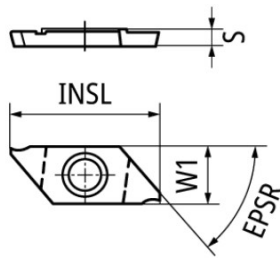
| Item Number | Stock | Hand | APMX | B  | CDX | H  | HBH | HL | HF | LF  | Insert Gage |
|-------------|-------|------|------|----|-----|----|-----|----|----|-----|-------------|
|             |       |      | mm   | mm | mm  | mm | mm  | mm | mm | mm  |             |
| TTPR10      | •     | R    | 6.5  | 10 | 7   | 10 | 2   | 15 | 10 | 120 | TTP..       |
| TTPR12      | •     | R    | 6.5  | 12 | 7   | 12 | –   | –  | 12 | 120 | TTP..       |
| TTPR16      | •     | R    | 6.5  | 16 | 7   | 16 | –   | –  | 16 | 120 | TTP..       |
| TTPL10      | •     | L    | 6.5  | 10 | 7   | 10 | 2   | 15 | 10 | 120 | TTP..       |
| TTPL12      | •     | L    | 6.5  | 12 | 7   | 12 | –   | –  | 12 | 120 | TTP..       |
| TTPL16      | •     | L    | 6.5  | 16 | 7   | 16 | –   | –  | 16 | 120 | TTP..       |

### Spare Parts

| Item Number | Clamp screw | Wrench<br>(for Clamp screw) |
|-------------|-------------|-----------------------------|
| TTPR10      | LRIS-4*10PW | CLR-15S                     |
| TTPR12      | LRIS-4*12PW | CLR-15S                     |
| TTPR16      | LRIS-4*12PW | CLR-15S                     |
| TTPL10      | LRIS-4*10PW | CLR-15S                     |
| TTPL12      | LRIS-4*12PW | CLR-15S                     |
| TTPL16      | LRIS-4*12PW | CLR-15S                     |

## TTP.. series/Inserts Carbide Right-Hand

### TTP-R

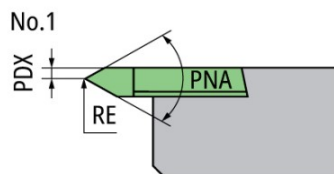
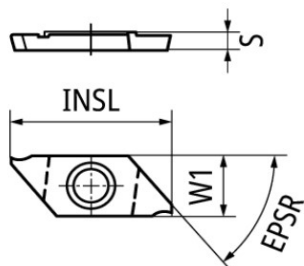


- Diagram shows right-hand tool

| Figure | Item Number | Hand | Chip-breaker | Pitch    | TPI    | PDX  | PNA | RE   | Carbide | AS25 |
|--------|-------------|------|--------------|----------|--------|------|-----|------|---------|------|
|        |             |      |              | mm       | inch   | mm   | °   | mm   |         |      |
| 1      | TTP60FR2A   | R    | Yes          | 0.2-0.35 | 127-63 | 0.2  | 60  | 0.03 | ●       | ●    |
| 1      | TTP60FR4A   | R    | Yes          | 0.2-0.75 | 127-34 | 0.4  | 60  | 0.03 | ●       | ●    |
| 1      | TTP60FR8A   | R    | Yes          | 0.4-0.75 | 63-21  | 0.8  | 60  | 0.05 | ●       | ●    |
| 1      | TTP55FR8A   | R    | Yes          | —        | 48-16  | 0.8  | 55  | 0.05 | ●       | ●    |
| 1      | TTP60FR-N   | R    | Yes          | 1-1.5    | 25-17  | 1.25 | 60  | 0.05 | ●       | ●    |

## TTP.. series/Inserts Carbide Left-Hand

### I TTP-L



- Diagram shows left-hand tool

| Figure | Item Number | Hand | Chip-breaker | Pitch    | TPI    | PDX  | PNA | RE   | Carbide | AS25 |
|--------|-------------|------|--------------|----------|--------|------|-----|------|---------|------|
|        |             |      |              | mm       | inch   | mm   | °   | mm   |         |      |
| 1      | TTP60FL2A   | L    | Yes          | 0.2-0.35 | 127-63 | 0.2  | 60  | 0.03 | ●       | ●    |
| 1      | TTP60FL4A   | L    | Yes          | 0.2-0.75 | 127-34 | 0.4  | 60  | 0.03 | ●       | ●    |
| 1      | TTP60FL8A   | L    | Yes          | 0.4-1.25 | 63-21  | 0.8  | 60  | 0.05 | ●       | ●    |
| 1      | TTP55FL8A   | L    | Yes          | —        | 48-16  | 0.8  | 55  | 0.05 | ●       | ●    |
| 1      | TTP60FL-N   | L    | Yes          | 1-1.5    | 25-17  | 1.25 | 60  | 0.05 | ●       | ●    |

## Back turning

### ITBP/TBPA

| Work Material         |             | High Temperature Alloys | Titanium Alloys | Cobalt Chrome Alloys | Stainless Steels |                  |                   | Alloy Steel      | Carbon Steels |
|-----------------------|-------------|-------------------------|-----------------|----------------------|------------------|------------------|-------------------|------------------|---------------|
|                       |             |                         |                 |                      | Hard to cut      |                  | Free cutting      |                  |               |
| Common Name           |             | Inconel Hastelloy MP35N | Ti-6Al-4V       | ASTM F-75            | SUS304           | SUS304<br>17-4PH | SUS303<br>SUS430F | SCr420<br>SCM435 | S10C<br>S45C  |
| Grade                 |             | AS25                    |                 |                      |                  |                  |                   |                  |               |
| Cutting Speed(m/min)  |             | 204065                  | 305580          |                      |                  |                  | 4590150           |                  |               |
| Feed Rate<br>(mm/rev) | X Direction | 0.010.00.03             |                 |                      |                  |                  | 0.01900.04        |                  |               |
|                       | Z Direction | 0.020.00.06             |                 |                      |                  |                  | 0.02900.08        |                  |               |

## Cut-off

### ICTP/CTPA

| Work Material        | High Temperature Alloys | Titanium Alloys | Cobalt Chrome Alloys | Stainless Steels |                  |                   | Alloy Steel      | Carbon Steels |
|----------------------|-------------------------|-----------------|----------------------|------------------|------------------|-------------------|------------------|---------------|
|                      |                         |                 |                      | Hard to cut      |                  | Free cutting      |                  |               |
| Common Name          | Inconel Hastelloy MP35N | Ti-6Al-4V       | ASTM F-75            | SUS304           | SUS304<br>17-4PH | SUS303<br>SUS430F | SCr420<br>SCM435 | S10C<br>S45C  |
| Grade                | AS25                    |                 |                      |                  |                  |                   |                  |               |
| Cutting Speed(m/min) | 305070                  |                 |                      |                  |                  | 306090            |                  |               |
| Feed Rate(mm/rev)    | 0.020.030.05            |                 |                      |                  |                  | 0.020.040.06      |                  |               |



## External Thread

### TTP

| Item Number                       | Edge radius | Pitch | Total DOC | No. of pass | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    |
|-----------------------------------|-------------|-------|-----------|-------------|------|------|------|------|------|------|------|------|
| TTP60FR/L2A/B<br>TTP(S)60FR/L4A/B | R0.03       | 0.2   | 0.22      | 4           | 0.07 | 0.06 | 0.05 | 0.04 |      |      |      |      |
|                                   |             | 0.25  | 0.29      | 5           | 0.08 | 0.07 | 0.06 | 0.04 | 0.04 |      |      |      |
|                                   |             | 0.35  | 0.44      | 5           | 0.14 | 0.11 | 0.09 | 0.06 | 0.04 |      |      |      |
| TTP(S)60FR/L8A/B                  | R0.05       | 0.4   | 0.5       | 6           | 0.13 | 0.1  | 0.09 | 0.08 | 0.06 | 0.04 |      |      |
|                                   |             | 0.5   | 0.66      | 6           | 0.2  | 0.16 | 0.12 | 0.08 | 0.06 | 0.04 |      |      |
|                                   |             | 0.7   | 0.96      | 7           | 0.22 | 0.2  | 0.18 | 0.14 | 0.1  | 0.08 | 0.04 |      |
|                                   |             | 0.75  | 1.04      | 8           | 0.22 | 0.2  | 0.2  | 0.14 | 0.1  | 0.08 | 0.06 | 0.04 |