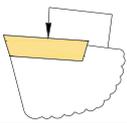
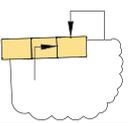
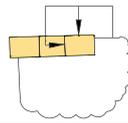
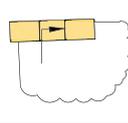
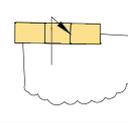


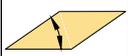
CUTTING TOOL CATALOGUE

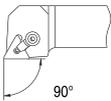
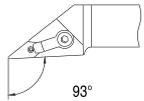
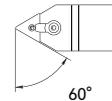
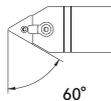
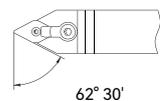
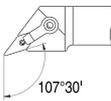
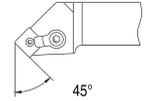
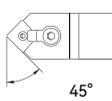
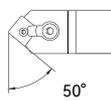
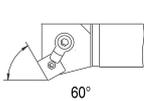
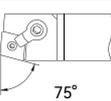
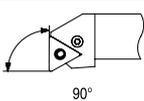
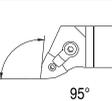
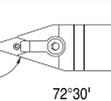
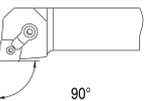
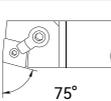
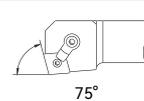
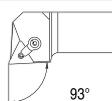
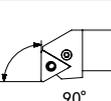
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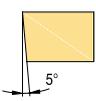
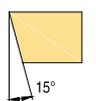
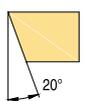
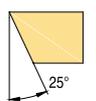
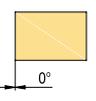
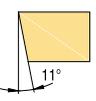
Turning Shank Denomination System

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| S 1 | C 2 | L 3 | C 4 | R 5 |
|---------------|---------------|---------------|---------------|---------------|

| 1- Clamping Type | | | | |
|---|--|--|---|--|
| C: Top clamp  | M: Top wedge clamping  | D: Rigid clamping  | P: lever clamping  | S: Screw clamping  |

| 2- Insert Shape | | | | | | | | | |
|---|---|--|---|--|--|--|---|---|---|
| C  80° | D  55° | H  120° | K  55° | O  135° | R  360° | S  90° | T  60° | V  35° | W  80° |

| 3- Approach Angle | | | | | | | | | |
|--|---|---|---|---|--|--|--|--|--|
| A  90° | J  93° | T  60° | E  60° | N  62° 30' | | | | | |
| H  107° 30' | S  45° | D  45° | M  50° | W  60° | | | | | |
| R  75° | C  90° | L  95° | V  72° 30' | G  90° | | | | | |
| B  75° | K  75° | U  93° | F  90° | X Special Approach angle, explanation needed. | | | | | |

| 4- Clearance Angle | | | | | | | |
|--|--|---|---|---|---|---|----------------------------|
| B  5° | C  7° | D  15° | E  20° | F  25° | N  0° | P  11° | O Other clearance angle |

12
6

12
7

JX
8

09
9

F
10

| 5- Hand of Tool | |
|-----------------|--|
| L Left hand | |
| R Right hand | |
| N Neutral | |

| 6- Center Height of Tool (mm) | |
|-------------------------------|-------|
| | 06=6 |
| | 08=8 |
| | 10=10 |
| | 12=12 |
| | 14=14 |
| | 16=16 |
| | 20=20 |
| | 25=25 |
| | 30=30 |
| | 40=40 |
| 50=50 | |

| 7- Width of Shank (mm) | |
|------------------------|-------|
| | 06=6 |
| | 08=8 |
| | 10=10 |
| | 12=12 |
| | 14=14 |
| | 16=16 |
| | 20=20 |
| | 25=25 |
| | 30=30 |
| | 40=40 |
| 50=50 | |

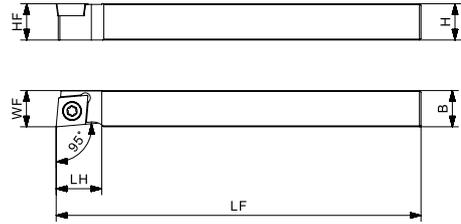
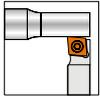
| 8- Tool Length (mm) | |
|---------------------|-----------|
| | |
| A=32 | M=150 |
| B=40 | N=160 |
| C=50 | P=170 |
| D=60 | Q=180 |
| E=70 | R=200 |
| F=80 | S=250 |
| FX=85 | T=300 |
| G=90 | U=350 |
| H=100 | V=400 |
| J=110 | W=450 |
| JX=120 | Y=500 |
| K=125 | |
| L=140 | X=Special |

| 9- Length of Cutting Edge | | | |
|---------------------------|---|---|---|
| C, D, E, M, V | | H | O |
| | | | |
| R | S | T | W |
| | | | |

| 10- Added Symbol | |
|------------------|----------------------------|
| F | Without Offset |
| J | With high pressure coolant |

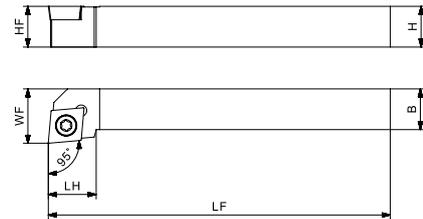
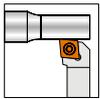
Small Tools

SCLC External Turning Shank - Without Offset



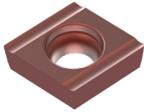
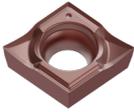
| Product code | Dimension (mm) | | | | | | Stock | | Spare parts | |
|---------------------------|----------------|----|----|-----|----|----|-------|---|-------------|---------|
| | H | B | HF | LF | LH | WF | R | L | Screw | Wrench |
| SCLCR/L 0808F-06F | 8 | 8 | 8 | 80 | - | 8 | ○ | ○ | SP025065 | FT-TP08 |
| SCLCR/L 1010JX-06F | 10 | 10 | 10 | 120 | - | 10 | ● | ● | | |
| SCLCR/L 1010JX-09F | 10 | 10 | 10 | 120 | 15 | 10 | ● | ● | SP040090X | FT-TP15 |
| SCLCR/L 1212F-09F | 12 | 12 | 12 | 80 | - | 12 | ● | ● | | |
| SCLCR/L 1212JX-09F | 12 | 12 | 12 | 120 | - | 12 | ● | ● | | |
| SCLCR/L 1616JX-09F | 16 | 16 | 16 | 120 | - | 16 | ● | ● | | |

SCLC External Turning Shank - With Offset



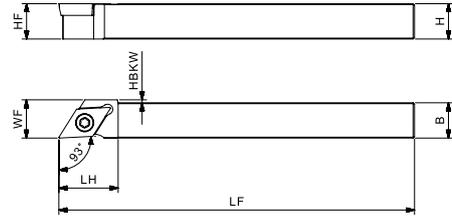
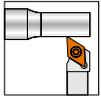
| Product code | Dimension (mm) | | | | | | Stock | | Spare parts | |
|-------------------------|----------------|----|----|-----|----|----|-------|---|-------------|---------|
| | H | B | HF | LF | LH | WF | R | L | Screw | Wrench |
| SCLCR/L 1010F-06 | 10 | 10 | 10 | 80 | 9 | 12 | ● | ● | SP025065 | FT-TP08 |
| SCLCR/L 1010F-09 | 10 | 10 | 10 | 80 | 14 | 14 | ● | ● | SP040090X | FT-TP15 |
| SCLCR/L 1212H-09 | 12 | 12 | 12 | 100 | 14 | 16 | ● | ● | | |
| SCLCR/L 1616H-09 | 16 | 16 | 16 | 100 | 15 | 20 | ● | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing | Semi-finishing--Finishing |
|--------------------------|---|---|---|
| Insert shape | M | LF | UF |
| Product code |  |  |  |
| SCLCR/L...-06/06F | CCET 0602 | CCGT 0602 | CCGT 0602 |
| SCLCR/L...-09/09F | CCET 09T3 | CCGT 09T3 | CCGT 09T3 |
| Reference page | P79 | P76 | P76 |

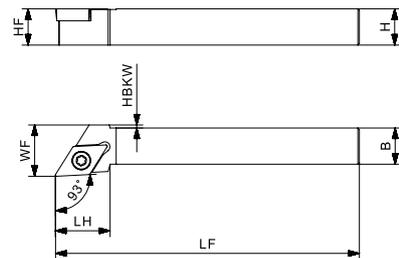
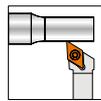
● : Standard stock ○ : Made-to-Order

SDJC External Turning Shank - Without Offset



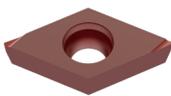
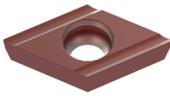
| Product code | Dimension (mm) | | | | | | | Stock | | Spare parts | |
|---------------------------|----------------|----|----|-----|----|----|------|-------|---|-------------|---------|
| | H | B | HF | LF | LH | WF | HBKW | R | L | Screw | Wrench |
| SDJCR/L 0808F-07F | 8 | 8 | 8 | 80 | 14 | 8 | 0.5 | ○ | ○ | SP025065 | FT-TP08 |
| SDJCR/L 1010JX-07F | 10 | 10 | 10 | 120 | - | 10 | - | ● | ● | | |
| SDJCR/L 1010JX-11F | 10 | 10 | 10 | 120 | 20 | 10 | 3 | ● | ● | SP040090X | FT-TP15 |
| SDJCR/L 1212F-11F | 12 | 12 | 12 | 80 | 20 | 12 | 1 | ● | ● | | |
| SDJCR/L 1212JX-11F | 12 | 12 | 12 | 120 | 20 | 12 | 1 | ● | ● | | |
| SDJCR/L 1616JX-11F | 16 | 16 | 16 | 120 | - | 16 | - | ● | ● | | |

SDJC External Turning Shank - With Offset



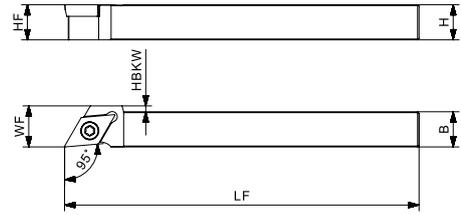
| Product code | Dimension (mm) | | | | | | | Stock | | Spare parts | |
|-------------------------|----------------|----|----|-----|----|----|------|-------|---|-------------|---------|
| | H | B | HF | LF | LH | WF | HBKW | R | L | Screw | Wrench |
| SDJCR/L 1010F-07 | 10 | 10 | 10 | 80 | 12 | 12 | - | ● | ● | SP025065 | FT-TP08 |
| SDJCR/L 1010F-11 | 10 | 10 | 10 | 80 | 18 | 12 | 3 | ● | ● | SP040090X | FT-TP15 |
| SDJCR/L 1212H-11 | 12 | 12 | 12 | 100 | 18 | 16 | 1 | ● | ● | | |
| SDJCR/L 1616H-11 | 16 | 16 | 16 | 100 | 18 | 20 | - | ● | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing | Finishing | Semi-finishing--Finishing |
|--------------------------|---|---|---|---|
| Insert shape | F | M | LF | UF |
| Product code |  |  |  |  |
| SDJCR/L...-07/07F | DCET 0702 | DCET 0702 | DCGT 0702 | DCGT 0702 |
| SDJCR/L...-11/11F | DCET 11T3 | DCET 11T3 | DCGT 11T3 | DCGT 11T3 |
| Reference page | P82 | P83 | P81 | P81 |

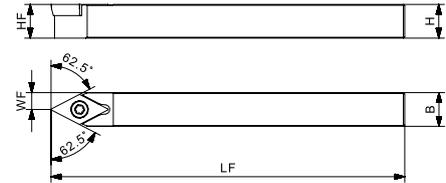
● : Standard stock ○ : Made-to-Order

SDLC External Turning Shank - Without Offset



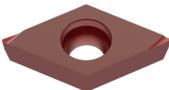
| Product code | Dimension (mm) | | | | | | Stock | | Spare parts | |
|---------------------------|----------------|----|----|-----|----|------|-------|---|-------------|---------|
| | H | B | HF | LF | WF | HBKW | R | L | Screw | Wrench |
| SDLCR/L 1010JX-07F | 10 | 10 | 10 | 120 | 10 | - | ● | ● | SP025065 | FT-TP08 |
| SDLCR/L 1212F-07F | 12 | 12 | 12 | 80 | 12 | - | ● | ● | | |
| SDLCR/L 1212JX-07F | 12 | 12 | 12 | 120 | 12 | - | ● | ● | | |
| SDLCR/L 1616JX-07F | 16 | 16 | 16 | 120 | 16 | - | ● | ● | SP040090X | FT-TP15 |
| SDLCR 1010F-11F | 10 | 10 | 10 | 80 | 10 | 4 | ● | - | | |
| SDLCR/L 1010JX-11F | 10 | 10 | 10 | 120 | 10 | 4 | ● | ● | | |
| SDLCR 1212F-11F | 12 | 12 | 12 | 80 | 12 | 2 | ● | - | | |
| SDLCR/L 1212JX-11F | 12 | 12 | 12 | 120 | 12 | 2 | ● | ● | | |
| SDLCR 1616H-11F | 16 | 16 | 16 | 100 | 16 | - | ● | - | | |
| SDLCR/L 1616JX-11F | 16 | 16 | 16 | 120 | 16 | - | ● | ● | | |

SDNC External Turning Shank - Neutral



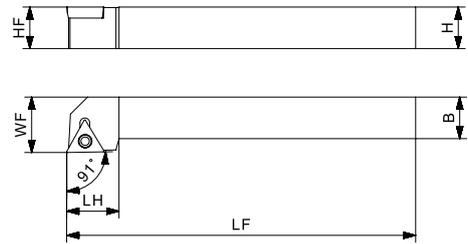
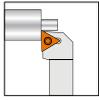
| Product code | Dimension (mm) | | | | | Stock | Spare parts | |
|------------------------|----------------|----|----|-----|----|-------|-------------|---------|
| | H | B | HF | LF | WF | N | Screw | Wrench |
| SDNCN 0808F-07 | 8 | 8 | 8 | 80 | 4 | ○ | SP025065 | FT-TP08 |
| SDNCN 1010JX-07 | 10 | 10 | 10 | 120 | 5 | ● | | |
| SDNCN 1212JX-07 | 12 | 12 | 12 | 120 | 6 | ● | | |
| SDNCN 1010F-11 | 10 | 10 | 10 | 80 | 5 | ● | SP040090X | FT-TP15 |
| SDNCN 1010JX-11 | 10 | 10 | 10 | 120 | 5 | ● | | |
| SDNCN 1212F-11 | 12 | 12 | 12 | 80 | 6 | ● | | |
| SDNCN 1212JX-11 | 12 | 12 | 12 | 120 | 6 | ● | | |
| SDNCN 1616H-11 | 16 | 16 | 16 | 100 | 8 | ● | | |
| SDNCN 1616JX-11 | 16 | 16 | 16 | 120 | 8 | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing | Finishing | Semi-finishing--Finishing |
|--|---|---|---|---|
| Insert shape | F | M | LF | UF |
| Product code |  |  |  |  |
| SDLCR/L...-07F SDNCN ...-07 | DCET 0702 | DCET 0702 | DCGT 0702 | DCGT 0702 |
| SDLCR/L...-11F SDNCN ...-11 | DCET 11T3 | DCET 11T3 | DCGT 11T3 | DCGT 11T3 |
| Reference page | P82 | P83 | P81 | P81 |

● : Standard stock ○ : Made-to-Order

STGC/STGP External Turning Shank - With Offset



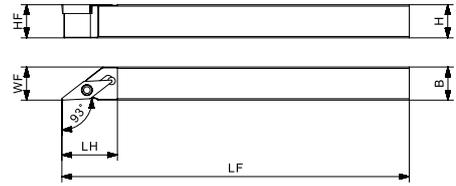
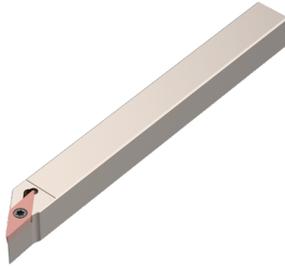
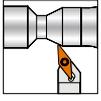
| Product code | Dimension (mm) | | | | | | Stock | | Spare parts | |
|-------------------------|----------------|----|----|-----|----|----|-------|---|-------------|---------|
| | H | B | HF | LF | LH | WF | R | L | Screw | Wrench |
| STGCR 0808F-08 | 8 | 8 | 8 | 80 | 12 | 10 | ○ | - | SP020049 | FT-TP06 |
| STGCR/L 1010F-11 | 10 | 10 | 10 | 80 | 15 | 14 | ● | ● | SP025065 | FT-TP08 |
| STGCR/L 1212H-11 | 12 | 12 | 12 | 100 | 15 | 16 | ● | ● | | |
| STGCR/L 1616H-11 | 16 | 16 | 16 | 100 | 15 | 20 | ● | ● | | |
| STGPR 0808F-08 | 8 | 8 | 8 | 80 | 12 | 10 | ○ | - | SP020049 | FT-TP06 |
| STGPR/L 1010F-11 | 10 | 10 | 10 | 80 | 15 | 14 | ● | ● | SP030082 | FT-TP09 |
| STGPR/L 1212H-11 | 12 | 12 | 12 | 100 | 15 | 16 | ● | ● | | |
| STGPR/L 1616H-11 | 16 | 16 | 16 | 100 | 15 | 20 | ● | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing |
|-----------------------|---|---|
| Insert shape | F | M |
| Product code |  |  |
| STGCR 0808F-08 | - | TCET 0802 |
| STGPR 0808F-08 | TPEH 0802 | - |
| STGC... -11 | - | TCET 1103 |
| STGP... -11 | TPEH 1103 | - |
| Reference page | P89 | P87 |

● : Standard stock ○ : Made-to-Order

SVJB External Turning Shank - Without Offset



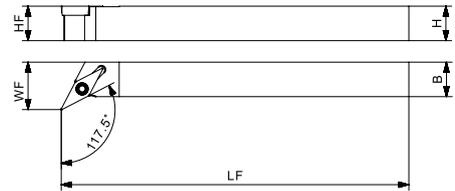
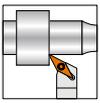
| Product code | Dimension (mm) | | | | | | Stock | | Spare parts | |
|---------------------------|----------------|----|----|-----|----|----|-------|---|-------------|---------|
| | H | B | HF | LF | LH | WF | R | L | Screw | Wrench |
| SVJBR/L 1010JX-11F | 10 | 10 | 10 | 120 | - | 10 | ● | ● | SP025065 | FT-TP08 |
| SVJBR/L 1212JX-11F | 12 | 12 | 12 | 120 | - | 12 | ● | ● | | |
| SVJBR/L 1616JX-11F | 16 | 16 | 16 | 120 | - | 16 | ● | ● | | |
| SVJBR/L 2020JX-11F | 20 | 20 | 20 | 120 | 20 | 20 | ● | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing | Finishing | Finishing | Semi-finishing--Finishing |
|------------------------|---|---|---|--|---|
| Insert shape | F | M | Y | LF | UF |
| Product code |  |  |  |  |  |
| SVJBR/L ···-11F | VBET 1103 | VBET 1103 | VBET 1103 | VBGT 1103 | VBGT 1103 |
| Reference page | P91 | P92 | P92 | P90 | P90 |

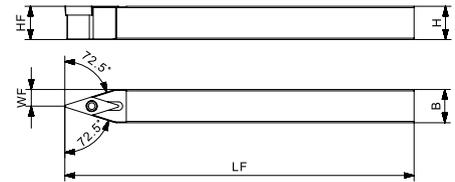
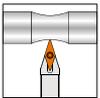
● : Standard stock ○ : Made-to-Order

SVPBR External Turning Shank - With Offset



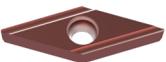
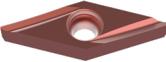
| Product code | Dimension (mm) | | | | | Stock | | Spare parts | |
|--------------------------|----------------|----|----|-----|------|-------|---|-------------|---------|
| | H | B | HF | LF | WF | R | L | Screw | Wrench |
| SVPBR/L 1010JX-11 | 10 | 10 | 10 | 120 | 14.5 | ● | ● | SP025065 | FT-TP08 |
| SVPBR/L 1212JX-11 | 12 | 12 | 12 | 120 | 16.5 | ● | ● | | |
| SVPBR/L 1616JX-11 | 16 | 16 | 16 | 120 | 20.5 | ● | ● | | |
| SVPBR/L 2020K-11 | 20 | 20 | 20 | 125 | 25 | ● | ● | | |

SVVBN External Turning Shank - Neutral



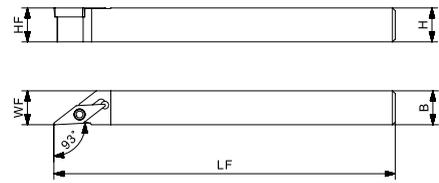
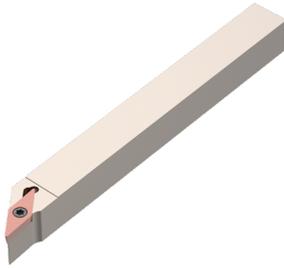
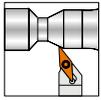
| Product code | Dimension (mm) | | | | | Stock | Spare parts | |
|------------------------|----------------|----|----|-----|----|-------|-------------|---------|
| | H | B | HF | LF | WF | N | Screw | Wrench |
| SVVBN 1010JX-11 | 10 | 10 | 10 | 120 | 5 | ● | SP025065 | FT-TP08 |
| SVVBN 1212JX-11 | 12 | 12 | 12 | 120 | 6 | ● | | |
| SVVBN 1616JX-11 | 16 | 16 | 16 | 120 | 8 | ● | | |
| SVVBN 2020K-11 | 20 | 20 | 20 | 125 | 10 | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing | Finishing | Finishing | Semi-finishing--Finishing |
|----------------|---|---|---|--|---|
| Insert shape | F | M | Y | LF | UF |
| Product code |  |  |  |  |  |
| | SVPBR/L...-11 SVVBN ...-11 | VBET 1103 | VBET 1103 | VBET 1103 | VBGT 1103 |
| Reference page | P91 | P92 | P92 | P90 | P90 |

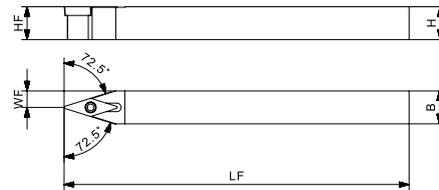
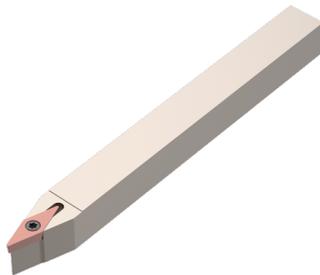
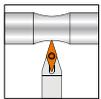
● : Standard stock ○ : Made-to-Order

SVJCR External Turning Shank - Without Offset



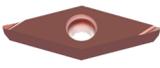
| Product code | Dimension (mm) | | | | | Stock | | Spare parts | |
|---------------------------|----------------|----|----|-----|----|-------|---|-------------|---------|
| | H | B | HF | LF | WF | R | L | Screw | Wrench |
| SVJCR/L 1010JX-11F | 10 | 10 | 10 | 120 | 10 | ● | ● | SP025065 | FT-TP08 |
| SVJCR/L 1212JX-11F | 12 | 12 | 12 | 120 | 12 | ● | ● | | |
| SVJCR/L 1616JX-11F | 16 | 16 | 16 | 120 | 16 | ● | ● | | |
| SVJCR/L 2020JX-11F | 20 | 20 | 20 | 120 | 20 | ● | ● | | |

SVVCN External Turning Shank - Neutral



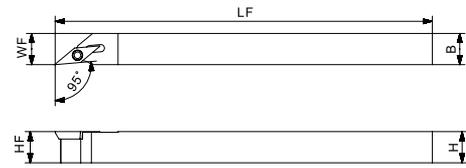
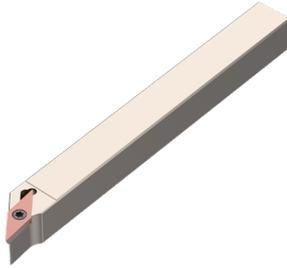
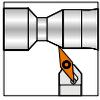
| Product code | Dimension (mm) | | | | | Stock | Spare parts | |
|------------------------|----------------|----|----|-----|----|-------|-------------|---------|
| | H | B | HF | LF | WF | N | Screw | Wrench |
| SVVCN 1010JX-11 | 10 | 10 | 10 | 120 | 5 | ● | SP025065 | FT-TP08 |
| SVVCN 1212JX-11 | 12 | 12 | 12 | 120 | 6 | ● | | |
| SVVCN 1616JX-11 | 16 | 16 | 16 | 120 | 8 | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing | Finishing |
|---|---|---|---|
| Insert shape | F | LF | UF |
| Product code |  |  |  |
| SVJCR/L ····-11F SVVCN ····-11 | VCET 1103 | VCGT 1103 | VCGT 1103 |
| Reference page | P93 | P93 | P93 |

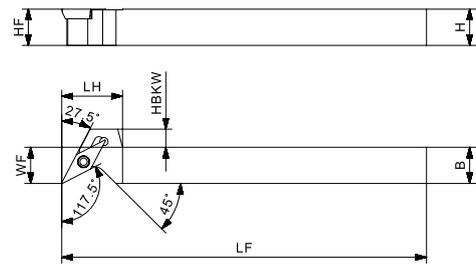
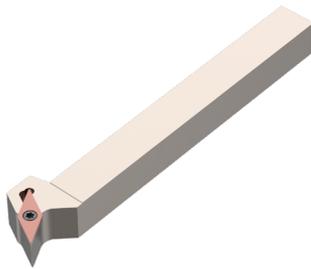
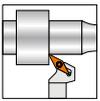
● : Standard stock ○ : Made-to-Order

SVLP External Turning Shank - Without Offset



| Product code | Dimension (mm) | | | | | Stock | | Spare parts | |
|---------------------------|----------------|----|----|-----|----|-------|---|-------------|---------|
| | H | B | HF | LF | WF | R | L | Screw | Wrench |
| SVLPR/L 1010JX-08F | 10 | 10 | 10 | 120 | 10 | ● | ● | SP020049 | FT-TP06 |
| SVLPR/L 1212JX-08F | 12 | 12 | 12 | 120 | 12 | ● | ● | | |
| SVLPR/L 1616JX-08F | 16 | 16 | 16 | 120 | 16 | ● | ● | | |
| SVLPR/L 1212JX-11F | 10 | 10 | 10 | 120 | 10 | ● | ● | SP025065 | FT-TP08 |
| SVLPR/L 1616JX-11F | 12 | 12 | 12 | 120 | 12 | ● | ● | | |
| SVLPR/L 2020K-11F | 16 | 16 | 16 | 120 | 16 | ● | ● | | |

SVPP External Turning Shank - Step Style



| Product code | Dimension (mm) | | | | | | | Stock | | Spare parts | |
|---------------------------|----------------|----|----|-----|----|----|------|-------|---|-------------|---------|
| | H | B | HF | LF | LH | WF | HBKW | R | L | Screw | Wrench |
| SVPPR/L 1010JX-08F | 10 | 10 | 10 | 120 | 16 | 10 | 4 | ● | ● | SP020049 | FT-TP06 |
| SVPPR/L 1212JX-08F | 12 | 12 | 12 | 120 | 16 | 12 | 2 | ● | ● | | |
| SVPPR/L 1616JX-08F | 16 | 16 | 16 | 120 | 20 | 16 | - | ● | ● | | |
| SVPPR/L 1010JX-11F | 10 | 10 | 10 | 120 | 20 | 10 | 8 | ● | ● | SP025065 | FT-TP08 |
| SVPPR/L 1212JX-11F | 12 | 12 | 12 | 120 | 20 | 12 | 6 | ● | ● | | |
| SVPPR/L 1616JX-11F | 16 | 16 | 16 | 120 | 20 | 16 | 2 | ● | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing | Finishing | Semi-finishing--Finishing |
|--|---|---|---|---|
| Insert shape | F | M | LF | UF |
| Product code |  |  |  |  |
| SVLPR/L.....08F SVPPR/L.....08F | VPET 0802 | VPET 0802 | - | - |
| SVLPR/L.....11F SVPPR/L.....11F | - | VPET 1103 | VPGT 1103 | VPGT 1103 |
| Reference page | P94 | P94 | P94 | P94 |

● : Standard stock ○ : Made-to-Order

External Sleeve Holder Denomination System

S
1

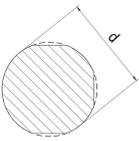
20
2

JX
3

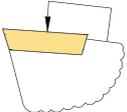
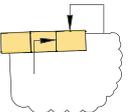
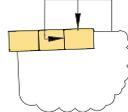
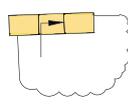
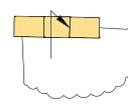
S
4

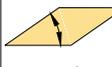
C
5

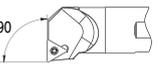
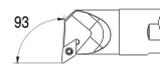
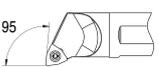
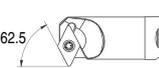
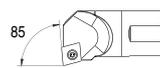
| 1- Holder Structure | |
|---------------------|-----------------------------------|
| A | Steel shank with internal coolant |
| C | Carbide |
| E | Carbide with internal coolant |
| S | Steel shank |

| 2- Holder Diameter (mm) | | | |
|---|---------------|--------------|-------------|
|  | 06 = 6 | 16 = 16 | 25.0 = 25.4 |
| | 08 = 8 | 19.0 = 19.05 | 32 = 32 |
| | 10 = 10 | 20 = 20 | 40 = 40 |
| | 12 = 12 | 22 = 22 | 50 = 50 |
| | 15.0 = 15.875 | 25 = 25 | |

| 3- Holder Length (mm) | | |
|--|-------|-------|
|  | E=70 | K=125 |
| | F=80 | L=140 |
| | FX=85 | M=150 |
| | G=90 | N=160 |
| | H=100 | P=170 |
| | J=110 | Q=180 |
| JX=120 | R=200 | |

| 4- Clamping Type | | | | |
|---|---|---|--|---|
| C: Top clamp | M: Top wedge clamping | D: Rigid clamping | P: lever clamping | S: Screw clamping |
|  |  |  |  |  |

| 5- Insert Shape | | | | | | | | | |
|---|---|---|---|---|---|--|---|---|---|
| C | D | H | K | O | R | S | T | V | W |
|  |  |  |  |  |  |  |  |  |  |
| 80° | 55° | 120° | 55° | 135° | 360° | 90° | 60° | 35° | 80° |

| 6- Approach Angle | | | | | | | |
|-------------------|---|---|---|---|--|---|---|
| F |  | S |  | K |  | U |  |
| L |  | W |  | Y |  | Q |  |
| | 90° | | 45° | | 75° | | 93° |
| | 95° | | 62.5° | | 85° | | 107.5° |

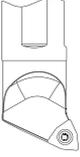
L
6

C
7

L
8

09
9

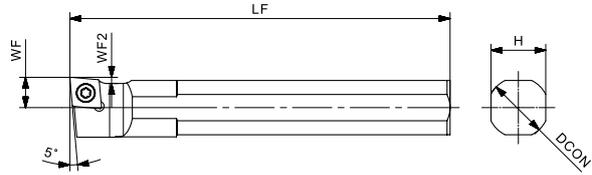
| 7- Clearance Angle | | | |
|---|---|---|---|
| B | C | D | E |
|  |  |  |  |
| F | N | P | O |
|  |  |  | Other clearance angle |

| 8- Hand of Tool | |
|------------------------|---|
| R Right hand |  |
| L Left hand |  |

| 9- Length of Cutting Edge | | | |
|---|---|---|---|
| C, D, E, M, V | | H | O |
|  | |  |  |
| R | S | T | W |
|  |  |  |  |

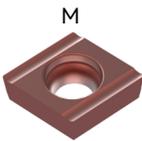
Small Tools

External Sleeve Holder - Suitable for C Type Insert



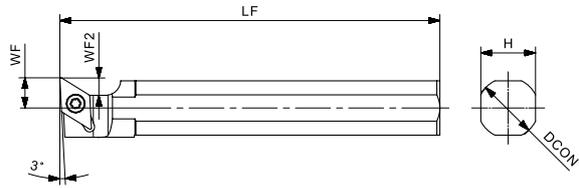
| Product code | Dimension (mm) | | | | | Stock | Spare parts | |
|------------------------|----------------|-----|----|----|-----|-------|-------------|---------|
| | DCON | LF | H | WF | WF2 | | L | Screw |
| S12F-SCLCL06 | 12 | 80 | 11 | 6 | 1 | ● | SP025065 | FT-TP08 |
| S14H-SCLCL06 | 14 | 100 | 13 | 6 | 1 | ● | | |
| S15.0H-SCLCL06 | 15.875 | 100 | 15 | 6 | 1 | ● | | |
| S16H-SCLCL06 | 16 | 100 | 15 | 6 | 1 | ● | | |
| S19.0JX-SCLCL06 | 19.05 | 120 | 17 | 6 | 1 | ● | | |
| S20JX-SCLCL06 | 20 | 120 | 18 | 6 | 1 | ● | | |
| S19.0JX-SCLCL09 | 19.05 | 120 | 17 | 10 | 2 | ● | SP040090X | FT-TP15 |
| S20JX-SCLCL09 | 20 | 120 | 18 | 10 | 2 | ● | | |
| S22JX-SCLCL09 | 22 | 120 | 20 | 10 | 2 | ● | | |
| S25JX-SCLCL09 | 25 | 120 | 23 | 10 | 2 | ● | | |
| S25.0JX-SCLCL09 | 25.4 | 120 | 23 | 10 | 2 | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing | Semi-finishing--Finishing |
|-----------------|---|---|---|
| Insert shape | M | LF | UF |
| Product code |  |  |  |
| S-SCLC06 | CCET 0602 | CCGT 0602 | CCGT 0602 |
| S-SCLC09 | CCET 09T3 | CCGT 09T3 | CCGT 09T3 |
| Reference page | P79 | P76 | P76 |

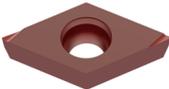
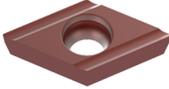
● : Standard stock ○ : Made-to-Order

External Sleeve Holder-Suitable for D Type Insert



| Product code | Dimension (mm) | | | | | Stock | Spare parts | |
|------------------------|----------------|-----|----|----|-----|-------|-------------|---------|
| | DCON | LF | H | WF | WF2 | L | Screw | Wrench |
| S12F-SDUCL07 | 12 | 80 | 11 | 6 | 3.8 | ● | SP025065 | FT-TP08 |
| S14H-SDUCL07 | 14 | 100 | 13 | 6 | 3.8 | ● | | |
| S15.0H-SDUCL07 | 15.875 | 100 | 15 | 6 | 3.8 | ● | | |
| S16H-SDUCL07 | 16 | 100 | 15 | 6 | 3.8 | ● | | |
| S19.0JX-SDUCL07 | 19.05 | 120 | 17 | 6 | 3.8 | ● | | |
| S20JX-SDUCL07 | 20 | 120 | 18 | 6 | 3.8 | ● | SP040090X | FT-TP15 |
| S19.0JX-SDUCL11 | 19.05 | 120 | 17 | 10 | 5.8 | ● | | |
| S20JX-SDUCL11 | 20 | 120 | 20 | 10 | 5.8 | ● | | |
| S22JX-SDUCL11 | 22 | 120 | 20 | 10 | 5.8 | ● | | |
| S25JX-SDUCL11 | 25 | 120 | 23 | 10 | 5.8 | ● | | |
| S25.0JX-SDUCL11 | 25.4 | 120 | 23 | 10 | 5.8 | ● | | |

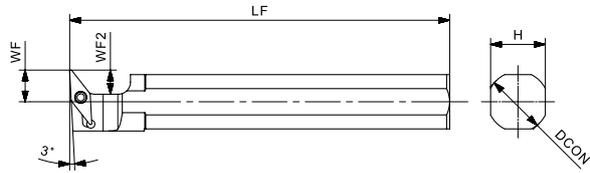
Applicable Insert

| Applicaiton | Finishing | Finishing | Finishing | Semi-finishing--Finishing |
|------------------|---|---|---|---|
| Insert shape | F | M | LF | UF |
| Product code |  |  |  |  |
| S-SDUCL07 | DCET 0702 | DCET 0702 | DCGT 0702 | DCGT 0702 |
| S-SDUCL11 | DCET 11T3 | DCET 11T3 | DCGT 11T3 | DCGT 11T3 |
| Reference page | P82 | P83 | P80 | P80 |

● : Standard stock ○ : Made-to-Order

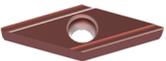
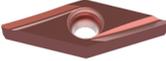
Small Tools

External Sleeve Holder-Suitable for V Type Insert



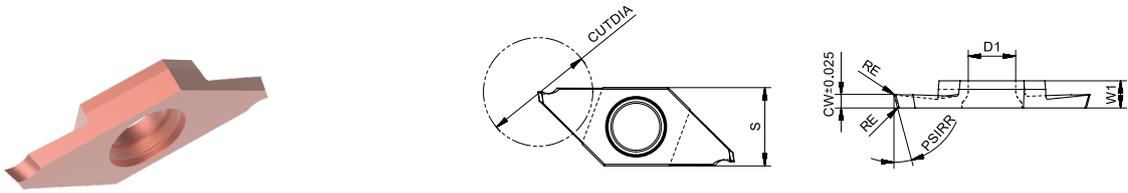
| Product code | Dimension (mm) | | | | | Stock | Spare parts | |
|------------------------|----------------|-----|----|------|-----|-------|-------------|---------|
| | DCON | LF | H | WF | WF2 | L | Screw | Wrench |
| S12F-SVUPL08 | 12 | 80 | 11 | 7.5 | 5.5 | ● | SP020049 | FT-TP06 |
| S14H-SVUPL08 | 14 | 100 | 13 | 7.5 | 5.5 | ● | | |
| S15.0H-SVUPL08 | 15.875 | 100 | 15 | 8 | 5.5 | ● | | |
| S16H-SVUPL08 | 16 | 100 | 15 | 8 | 5.5 | ● | | |
| S19.0JX-SVUBL11 | 19.05 | 120 | 17 | 10.5 | 8 | ● | SP025065 | FT-TP08 |
| S20JX-SVUBL11 | 20 | 120 | 18 | 10.5 | 8 | ● | | |
| S22JX-SVUBL11 | 22 | 120 | 20 | 10.5 | 8 | ● | | |
| S25JX-SVUBL11 | 25 | 120 | 23 | 10.5 | 8 | ● | | |
| S25.0JX-SVUBL11 | 25.4 | 120 | 23 | 10.5 | 8 | ● | | |

Applicable Insert

| Applicaiton | Finishing | Finishing | Finishing | Finishing | Semi-finishing--Finishing |
|------------------|---|---|---|--|---|
| Insert shape | F | M | Y | LF | UF |
| Product code |  |  |  |  |  |
| S-SVUPL08 | VPET 0802 | VPET 0802 | - | - | - |
| S-SVUBL11 | VBET 1103 | VBET 1103 | VBET 1103 | VBGT 1103 | VBGT 1103 |
| Reference page | P91 | P92 | P92 | P90 | P90 |

● : Standard stock ○ : Made-to-Order

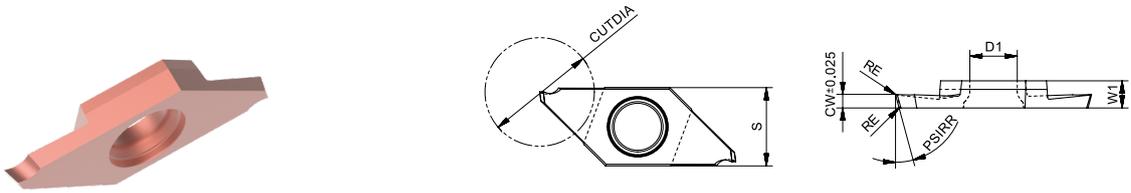
Parting off Insert



| Product code | Dimension (mm) | | | | | | | | Grade | |
|---------------------|----------------|--------|------|-------|-----|----|-----|-----|--------|--------|
| | CW | CUTDIA | RE | PSIRR | GAN | W1 | S | D1 | AP301U | AP301M |
| ASWP 09R050D05-F | 0.5 | 5 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09L050D05-F | 0.5 | 5 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R070D08-F | 0.7 | 8 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L070D08-F | 0.7 | 8 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09R100D12-F | 1 | 12 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L100D12-F | 1 | 12 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R120D12-F | 1.2 | 12 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L120D12-F | 1.2 | 12 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09R150D12-F | 1.5 | 12 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L150D12-F | 1.5 | 12 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09R200D12-F | 2 | 12 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09L200D12-F | 2 | 12 | 0.03 | 0° | 15° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09R050D05-F16R | 0.5 | 5 | 0.03 | 16° | 25° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09L050D05-F16R | 0.5 | 5 | 0.03 | 16° | 25° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R070D08-F16R | 0.7 | 8 | 0.03 | 16° | 25° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L070D08-F16R | 0.7 | 8 | 0.03 | 16° | 25° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R100D12-F16R | 1 | 12 | 0.03 | 16° | 25° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L100D12-F16R | 1 | 12 | 0.03 | 16° | 25° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09R120D12-F16R | 1.2 | 12 | 0.03 | 16° | 25° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09L120D12-F16R | 1.2 | 12 | 0.03 | 16° | 25° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R150D12-F16R | 1.5 | 12 | 0.03 | 16° | 15° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L150D12-F16R | 1.5 | 12 | 0.03 | 16° | 15° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09R200D12-F16R | 2 | 12 | 0.03 | 16° | 15° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L200D12-F16R | 2 | 12 | 0.03 | 16° | 15° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09R100D12-M | 1 | 12 | 0.08 | 0° | 12° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09L100D12-M | 1 | 12 | 0.08 | 0° | 12° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09R150D12-M | 1.5 | 12 | 0.08 | 0° | 12° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L150D12-M | 1.5 | 12 | 0.08 | 0° | 12° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09R200D12-M | 2 | 12 | 0.08 | 0° | 12° | 3 | 8.7 | 5.2 | ● | ○ |
| ASWP 09L200D12-M | 2 | 12 | 0.08 | 0° | 12° | 3 | 8.7 | 5.2 | ○ | ○ |

● : Standard stock ○ : Made-to-Order

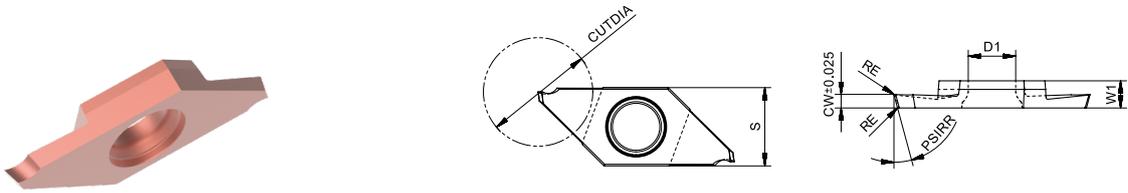
Parting off Insert



| Product code | Dimension (mm) | | | | | | | | Grade | |
|---------------------|----------------|--------|------|-------|-----|----|-----|-----|--------|--------|
| | CW | CUTDIA | RE | PSIRR | GAN | W1 | S | D1 | AP301U | AP301M |
| ASWP 09R100D12-M16R | 1 | 12 | 0.08 | 16° | 12° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L100D12-M16R | 1 | 12 | 0.08 | 16° | 12° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R150D12-M16R | 1.5 | 12 | 0.08 | 16° | 12° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L150D12-M16R | 1.5 | 12 | 0.08 | 16° | 12° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09R200D12-M16R | 2 | 12 | 0.08 | 16° | 12° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L200D12-M16R | 2 | 12 | 0.08 | 16° | 12° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R050D05-T | 0.5 | 5 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09L050D05-T | 0.5 | 5 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R070D08-T | 0.7 | 8 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ○ | ● |
| ASWP 09L070D08-T | 0.7 | 8 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R100D12-T | 1 | 12 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ● | ○ |
| ASWP 09L100D12-T | 1 | 12 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09R120D12-T | 1.2 | 12 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L120D12-T | 1.2 | 12 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R150D12-T | 1.5 | 12 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L150D12-T | 1.5 | 12 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R200D12-T | 2 | 12 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L200D12-T | 2 | 12 | 0 | 0° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R050D05-T20R | 0.5 | 5 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L050D05-T20R | 0.5 | 5 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R070D08-T20R | 0.7 | 8 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L070D08-T20R | 0.7 | 8 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R100D12-T20R | 1 | 12 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L100D12-T20R | 1 | 12 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R120D12-T20R | 1.2 | 12 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09L120D12-T20R | 1.2 | 12 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R150D12-T20R | 1.5 | 12 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L150D12-T20R | 1.5 | 12 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWP 09R200D12-T20R | 2 | 12 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ● | ● |
| ASWP 09L200D12-T20R | 2 | 12 | 0 | 20° | 0° | 3 | 8.7 | 5.2 | ○ | ○ |

● : Standard stock ○ : Made-to-Order

Parting off Insert



| Product code | Dimension (mm) | | | | | | | | Grade | |
|---------------------|----------------|--------|------|-------|-----|----|-----|-----|--------|--------|
| | CW | CUTDIA | RE | PSIRR | GAN | W1 | S | D1 | AP301U | AP301M |
| ASWP 10R150D16-F | 1.5 | 16 | 0.05 | 0° | 20° | 4 | 9.5 | 5.2 | ● | ● |
| ASWP 10L150D16-F | 1.5 | 16 | 0.05 | 0° | 20° | 4 | 9.5 | 5.2 | ○ | ● |
| ASWP 10R200D16-F | 2 | 16 | 0.05 | 0° | 20° | 4 | 9.5 | 5.2 | ● | ● |
| ASWP 10L200D16-F | 2 | 16 | 0.05 | 0° | 20° | 4 | 9.5 | 5.2 | ○ | ● |
| ASWP 10R150D16-F16R | 1.5 | 16 | 0.05 | 16° | 20° | 4 | 9.5 | 5.2 | ● | ● |
| ASWP 10L150D16-F16R | 1.5 | 16 | 0.05 | 16° | 20° | 4 | 9.5 | 5.2 | ○ | ○ |
| ASWP 10R200D16-F16R | 2 | 16 | 0.05 | 16° | 20° | 4 | 9.5 | 5.2 | ● | ● |
| ASWP 10L200D16-F16R | 2 | 16 | 0.05 | 16° | 20° | 4 | 9.5 | 5.2 | ○ | ● |
| ASWP 10R150D16-M | 1.5 | 16 | 0.08 | 0° | 12° | 4 | 9.5 | 5.2 | ○ | ○ |
| ASWP 10L150D16-M | 1.5 | 16 | 0.08 | 0° | 12° | 4 | 9.5 | 5.2 | ○ | ○ |
| ASWP 10R200D16-M | 2 | 16 | 0.08 | 0° | 12° | 4 | 9.5 | 5.2 | ● | ○ |
| ASWP 10L200D16-M | 2 | 16 | 0.08 | 0° | 12° | 4 | 9.5 | 5.2 | ● | ● |
| ASWP 10R150D16-M16R | 1.5 | 16 | 0.08 | 16° | 12° | 4 | 9.5 | 5.2 | ○ | ● |
| ASWP 10L150D16-M16R | 1.5 | 16 | 0.08 | 16° | 12° | 4 | 9.5 | 5.2 | ○ | ● |
| ASWP 10R200D16-M16R | 2 | 16 | 0.08 | 16° | 12° | 4 | 9.5 | 5.2 | ● | ● |
| ASWP 10L200D16-M16R | 2 | 16 | 0.08 | 16° | 12° | 4 | 9.5 | 5.2 | ○ | ○ |
| ASWP 10R150D16-T | 1.5 | 16 | 0 | 0° | 0° | 4 | 9.5 | 5.2 | ○ | ● |
| ASWP 10L150D16-T | 1.5 | 16 | 0 | 0° | 0° | 4 | 9.5 | 5.2 | ○ | ○ |
| ASWP 10R200D16-T | 2 | 16 | 0 | 0° | 0° | 4 | 9.5 | 5.2 | ● | ● |
| ASWP 10L200D16-T | 2 | 16 | 0 | 0° | 0° | 4 | 9.5 | 5.2 | ● | ● |
| ASWP 10R150D16-T20R | 1.5 | 16 | 0 | 20° | 0° | 4 | 9.5 | 5.2 | ○ | ● |
| ASWP 10L150D16-T20R | 1.5 | 16 | 0 | 20° | 0° | 4 | 9.5 | 5.2 | ○ | ● |
| ASWP 10R200D16-T20R | 2 | 16 | 0 | 20° | 0° | 4 | 9.5 | 5.2 | ● | ● |
| ASWP 10L200D16-T20R | 2 | 16 | 0 | 20° | 0° | 4 | 9.5 | 5.2 | ○ | ○ |

Descriptions of Geometry Edge Shape

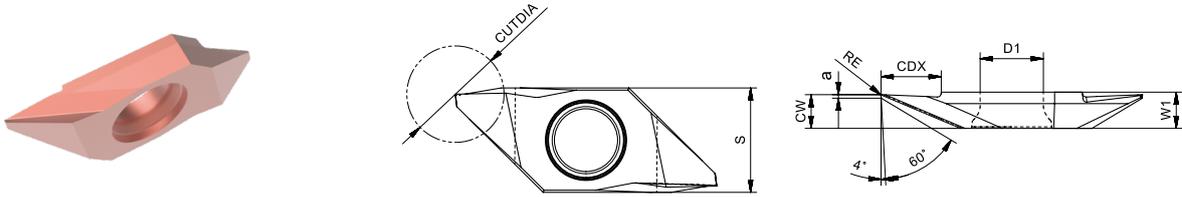
| | Geometry | Rake Angle/GAN |
|-----------------|------------------|----------------|
| | ASWP 09...F | 15 |
| | ASWP 09...F16R | 25 |
| | ASWP 10...F/F16R | 20 |
| | ASWP.....M/M16R | 12 |
| ASWP.....T/T20R | 0 | |

Recommended Cutting Parameters

| Machining Material | Recommended Grade | Linear Speed Vc (m/min) | Feed Rate f (mm/ rev) |
|--------------------|-------------------|-------------------------|-----------------------|
| P | AP301U | 70-150 | 0.01-0.03 |
| M | AP301M | 60-100 | 0.01-0.03 |

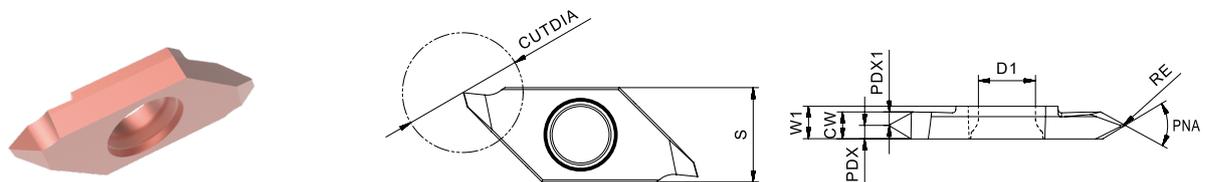
● : Standard stock ○ : Made-to-Order

Backturning Insert



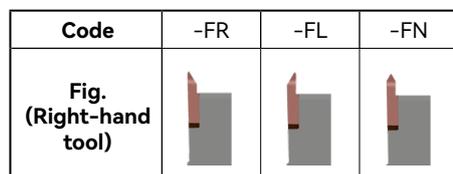
| Product code | Dimension (mm) | | | | | | | Grade | |
|-------------------|----------------|------|-----|----|-----|-----|------|--------|--------|
| | CW | a | CDX | W1 | S | D1 | RE | AP301U | AP301M |
| ASWB 09R150005-FR | 1.5 | 0.25 | 2.6 | 3 | 8.7 | 5.2 | 0.05 | ○ | ● |
| ASWB 09R280005-FR | 2.8 | 0.3 | 4.6 | 3 | 8.7 | 5.2 | 0.05 | ○ | ● |
| ASWB 09L280005-FR | 2.8 | 0.3 | 4.6 | 3 | 8.7 | 5.2 | 0.05 | ○ | ● |
| ASWB 09R280010-FR | 2.8 | 0.3 | 4.6 | 3 | 8.7 | 5.2 | 0.1 | ● | ● |
| ASWB 09L280010-FR | 2.8 | 0.3 | 4.6 | 3 | 8.7 | 5.2 | 0.1 | ○ | ● |
| ASWB 10R380005-FR | 3.8 | 0.3 | 6.3 | 4 | 9.5 | 5.2 | 0.05 | ○ | ● |
| ASWB 10L380005-FR | 3.8 | 0.3 | 6.3 | 4 | 9.5 | 5.2 | 0.05 | ○ | ● |
| ASWB 10R380010-FR | 3.8 | 0.3 | 6.3 | 4 | 9.5 | 5.2 | 0.1 | ○ | ● |
| ASWB 10L380010-FR | 3.8 | 0.3 | 6.3 | 4 | 9.5 | 5.2 | 0.1 | ○ | ● |

Threading Insert



| Product code | Angle | Applicable Thread | | Dimension (mm) | | | | | | Grade | |
|------------------|-------|-------------------|-------------|----------------|------|-----|----|-----|-----|--------|--------|
| | PNA | mm | Thread/Inch | PDX | RE | CW | W1 | S | D1 | AP301U | AP301M |
| ASWT 09R60000-FR | 60 | 0.2~0.6 | 64~48 | 0.4 | 0.05 | 2.5 | 3 | 8.7 | 5.2 | ● | ● |
| ASWT 09R60000-FL | 60 | 0.2~0.6 | 64~48 | 2.1 | 0.05 | 2.5 | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWT 09R60005-FR | 60 | 0.5~1.25 | 48~24 | 0.8 | 0.05 | 2.5 | 3 | 8.7 | 5.2 | ● | ● |
| ASWT 09R60005-FL | 60 | 0.5~1.25 | 48~24 | 1.7 | 0.05 | 2.5 | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWT 09R60010-FN | 60 | 1.0~1.5 | 24~18 | 1.25 | 0.1 | 2.5 | 3 | 8.7 | 5.2 | ○ | ● |
| ASWT 09R55005-FR | 55 | - | 40~16 | 0.8 | 0.05 | 2.5 | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWT 09R55005-FL | 55 | - | 40~16 | 1.7 | 0.05 | 2.5 | 3 | 8.7 | 5.2 | ○ | ○ |
| ASWT 09L60000-FR | 60 | 0.2~0.6 | 64~48 | 2.1 | 0.05 | 2.5 | 3 | 8.7 | 5.2 | ○ | ● |
| ASWT 09L60000-FL | 60 | 0.2~0.6 | 64~48 | 0.4 | 0.05 | 2.5 | 3 | 8.7 | 5.2 | ○ | ○ |

Nose Position Fig.

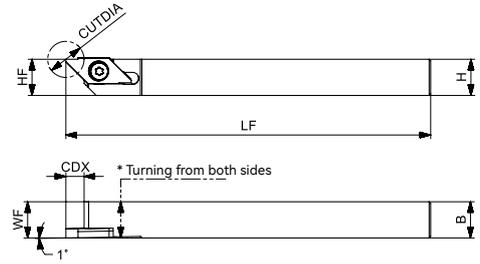
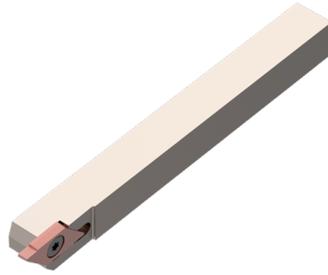
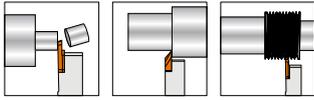


ASWT Insert Denomination System

| ASWT | 09 | R | 60 | 005 | - | F | R |
|-------------|-------------------|------------------|--------------|----------------------|---|------------|---------------|
| Series Name | Insert dimensions | Insert direction | Thread angle | Nose Rounding Radius | | Sharp Type | Nose position |

● : Standard stock ○ : Made-to-Order

ASW Multifunctional Tool Holder



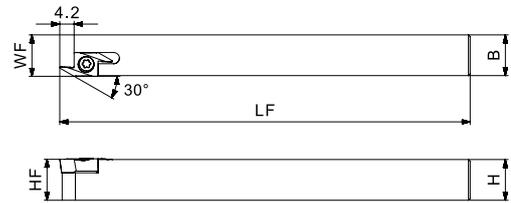
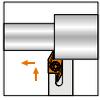
| Product code | Dimension (mm) | | | | | | | Stock | | Spare parts | |
|------------------------|----------------|----|----|-----|----|----|-----|-------|---|-------------|---------|
| | H | HF | B | LF | LH | WF | CDX | R | L | Screw | Wrench |
| ASWSR/L 1010-09 | 10 | 10 | 10 | 120 | 15 | 10 | 6 | ○ | ○ | SP04509357 | FT-TP10 |
| ASWSR/L 1212-09 | 12 | 12 | 12 | 120 | - | 12 | 6 | ● | ● | | |
| ASWSR/L 1616-09 | 16 | 16 | 16 | 120 | - | 16 | 6 | ● | ● | | |
| ASWSR/L 2020-09 | 20 | 20 | 20 | 120 | - | 20 | 6 | ● | ● | | |
| ASWSR/L 1010-10 | 10 | 10 | 10 | 120 | 20 | 10 | 8 | ○ | ○ | | |
| ASWSR/L 1212-10 | 12 | 12 | 12 | 120 | - | 12 | 8 | ● | ● | | |
| ASWSR/L 1616-10 | 16 | 16 | 16 | 120 | - | 16 | 8 | ● | ● | | |
| ASWSR/L 2020-10 | 20 | 20 | 20 | 120 | - | 20 | 8 | ● | ● | | |

Applicable Insert

| Applicaition | Parting off | Backturning | Threading |
|----------------------|-------------|-------------|------------|
| Insert shape | | | |
| Product code | | | |
| ASWSR/L·-·-09 | ASWP 09R/L | ASWB 09R/L | ASWT 09R/L |
| ASWSR/L·-·-10 | ASWP 10R/L | ASWB 10R/L | - |
| Reference page | P167 | P170 | P170 |

● : Standard stock ○ : Made-to-Order

ABF Backturning Tool Hoder



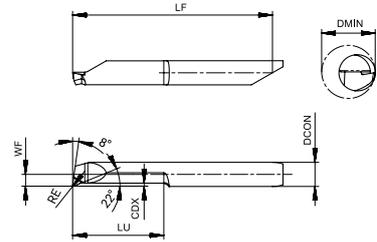
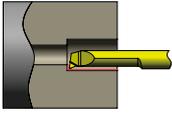
| Product code | Dimension (mm) | | | | | Stock | Spare parts | |
|----------------------|----------------|----|----|-----|------|-------|-------------|---------|
| | H | B | HF | LF | WF | R | Screw | Wrench |
| ABFSR 1010-07 | 10 | 10 | 10 | 120 | 10.2 | ● | | |
| ABFSR 1212-07 | 12 | 12 | 12 | 120 | 12.2 | ● | SP030082 | FT-TP09 |
| ABFSR 1616-07 | 16 | 16 | 16 | 120 | 16.2 | ● | | |

ABF Backturning Insert

| Insert | Dimension (mm) | Product code | Dimension (mm) | Grade |
|--------|----------------|-------------------------|----------------|--------|
| | | | RE | AP301M |
| | | ABF 07R280005-FR | 0.05 | ● |
| | | ABF 07R280010-FR | 0.1 | ● |
| | | ABF 07R280015-FR | 0.15 | ● |
| | | ABF 07R280020-FR | 0.2 | ● |

● : Standard stock ○ : Made-to-Order

ASIB T Type-Small Dia. Boring Tool

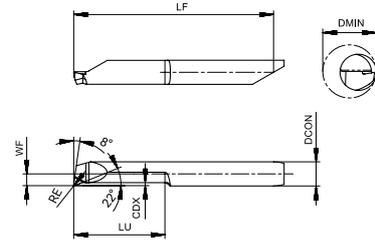
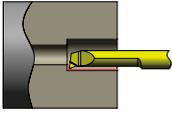


| Product code | Dimension (mm) | | | | | | | AP220U | |
|---------------------|----------------|------|-----|------|------|-----|-----|--------|---|
| | DCON | RE | WF | LF | DMIN | LU | CDX | R | L |
| ASIBR/L 04T000-0602 | 4 | 0 | 0.3 | 27.3 | 0.6 | 2.5 | 0.1 | ● | ○ |
| ASIBR/L 04T000-0703 | 4 | 0 | 0.3 | 27.3 | 0.7 | 3.5 | 0.1 | ○ | ○ |
| ASIBR/L 04T000-0804 | 4 | 0 | 0.4 | 27.3 | 0.8 | 4 | 0.1 | ○ | ○ |
| ASIBR/L 04T000-0905 | 4 | 0 | 0.4 | 27.3 | 0.9 | 5 | 0.1 | ● | ○ |
| ASIBR/L 04T005-1004 | 4 | 0.05 | 0.5 | 27.3 | 1 | 4 | 0.1 | ● | ○ |
| ASIBR/L 04T005-1006 | 4 | 0.05 | 0.5 | 27.3 | 1 | 6 | 0.1 | ○ | ○ |
| ASIBR/L 04T010-1004 | 4 | 0.1 | 0.5 | 27.3 | 1 | 4 | 0.1 | ● | ○ |
| ASIBR/L 04T010-1006 | 4 | 0.1 | 0.5 | 27.3 | 1 | 6 | 0.1 | ● | ○ |
| ASIBR/L 04T005-1706 | 4 | 0.05 | 0.7 | 27.3 | 1.7 | 6 | 0.2 | ● | ○ |
| ASIBR/L 04T005-1709 | 4 | 0.05 | 0.7 | 27.3 | 1.7 | 9 | 0.2 | ● | ○ |
| ASIBR/L 04T010-1706 | 4 | 0.1 | 0.7 | 27.3 | 1.7 | 6 | 0.2 | ● | ○ |
| ASIBR/L 04T010-1709 | 4 | 0.1 | 0.7 | 27.3 | 1.7 | 9 | 0.2 | ● | ○ |
| ASIBR/L 04T005-2206 | 4 | 0.05 | 1 | 27.3 | 2.2 | 6 | 0.2 | ● | ○ |
| ASIBR/L 04T005-2209 | 4 | 0.05 | 1 | 27.3 | 2.2 | 9 | 0.2 | ● | ○ |
| ASIBR/L 04T010-2206 | 4 | 0.1 | 1 | 27.3 | 2.2 | 6 | 0.2 | ● | ○ |
| ASIBR/L 04T010-2209 | 4 | 0.1 | 1 | 27.3 | 2.2 | 9 | 0.2 | ● | ○ |
| ASIBR/L 04T010-2213 | 4 | 0.1 | 1 | 32.3 | 2.2 | 13 | 0.2 | ● | ● |
| ASIBR/L 04T003-2710 | 4 | 0.03 | 1.2 | 27.3 | 2.7 | 10 | 0.2 | ● | ○ |
| ASIBR/L 04T005-2710 | 4 | 0.05 | 1.2 | 27.3 | 2.7 | 10 | 0.2 | ● | ○ |
| ASIBR/L 04T005-2715 | 4 | 0.05 | 1.2 | 32.3 | 2.7 | 15 | 0.2 | ● | ○ |
| ASIBR/L 04T015-2710 | 4 | 0.15 | 1.2 | 27.3 | 2.7 | 10 | 0.2 | ● | ○ |
| ASIBR/L 04T015-2715 | 4 | 0.15 | 1.2 | 32.3 | 2.7 | 15 | 0.2 | ● | ○ |
| ASIBR/L 04T003-3210 | 4 | 0.03 | 1.5 | 27.3 | 3.2 | 10 | 0.2 | ○ | ○ |
| ASIBR/L 04T005-3215 | 4 | 0.05 | 1.5 | 32.3 | 3.2 | 15 | 0.2 | ● | ○ |
| ASIBR/L 04T005-3220 | 4 | 0.05 | 1.5 | 37.3 | 3.2 | 20 | 0.2 | ● | ○ |
| ASIBR/L 04T015-3210 | 4 | 0.15 | 1.5 | 27.3 | 3.2 | 10 | 0.2 | ● | ○ |
| ASIBR/L 04T015-3215 | 4 | 0.15 | 1.5 | 32.3 | 3.2 | 15 | 0.2 | ● | ● |
| ASIBR/L 04T015-3220 | 4 | 0.15 | 1.5 | 37.3 | 3.2 | 20 | 0.2 | ● | ● |
| ASIBR/L 04T003-4210 | 4 | 0.03 | 2 | 27.3 | 4.2 | 10 | 0.3 | ○ | ○ |
| ASIBR/L 04T005-4215 | 4 | 0.05 | 2 | 32.3 | 4.2 | 15 | 0.3 | ● | ○ |
| ASIBR/L 04T005-4220 | 4 | 0.05 | 2 | 37.3 | 4.2 | 20 | 0.3 | ● | ○ |
| ASIBR/L 04T005-4225 | 4 | 0.05 | 2 | 42.3 | 4.2 | 25 | 0.3 | ● | ○ |
| ASIBR/L 04T015-4210 | 4 | 0.15 | 2 | 27.3 | 4.2 | 10 | 0.3 | ● | ○ |
| ASIBR/L 04T015-4215 | 4 | 0.15 | 2 | 32.3 | 4.2 | 15 | 0.3 | ● | ● |
| ASIBR/L 04T015-4220 | 4 | 0.15 | 2 | 37.3 | 4.2 | 20 | 0.3 | ● | ○ |

● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

Small Tools

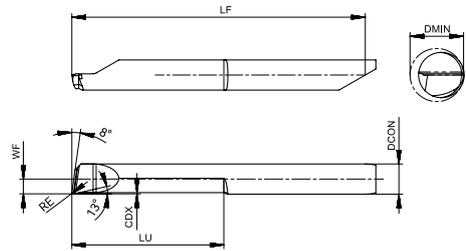
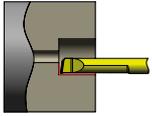
ASIB T Type-Small Dia. Boring Tool



| Product code | Dimension (mm) | | | | | | | AP220U | |
|---------------------|----------------|------|-----|------|------|----|-----|--------|---|
| | DCON | RE | WF | LF | DMIN | LU | CDX | R | L |
| ASIBR/L 04T015-4225 | 4 | 0.15 | 2 | 42.3 | 4.2 | 25 | 0.3 | ● | ○ |
| ASIBR/L 05T005-5220 | 5 | 0.05 | 2.5 | 42.3 | 5.2 | 20 | 0.5 | ● | ● |
| ASIBR/L 05T005-5230 | 5 | 0.05 | 2.5 | 52.3 | 5.2 | 30 | 0.5 | ● | ○ |
| ASIBR/L 05T020-5210 | 5 | 0.2 | 2.5 | 32.3 | 5.2 | 10 | 0.5 | ● | ○ |
| ASIBR/L 05T020-5215 | 5 | 0.2 | 2.5 | 42.3 | 5.2 | 15 | 0.5 | ● | ○ |
| ASIBR/L 05T020-5220 | 5 | 0.2 | 2.5 | 42.3 | 5.2 | 20 | 0.5 | ● | ○ |
| ASIBR/L 05T020-5225 | 5 | 0.2 | 2.5 | 47.3 | 5.2 | 25 | 0.5 | ● | ○ |
| ASIBR/L 05T020-5230 | 5 | 0.2 | 2.5 | 52.3 | 5.2 | 30 | 0.5 | ● | ○ |
| ASIBR/L 05T020-5235 | 5 | 0.2 | 2.5 | 57.3 | 5.2 | 35 | 0.5 | ● | ○ |
| ASIBR/L 05T020-5240 | 5 | 0.2 | 2.5 | 62.3 | 5.2 | 40 | 0.5 | ● | ○ |
| ASIBR/L 06T005-6220 | 6 | 0.05 | 3 | 42.3 | 6.2 | 20 | 0.5 | ● | ● |
| ASIBR/L 06T020-6215 | 6 | 0.2 | 3 | 37.3 | 6.2 | 15 | 0.5 | ● | ○ |
| ASIBR/L 06T020-6220 | 6 | 0.2 | 3 | 42.3 | 6.2 | 20 | 0.5 | ● | ○ |
| ASIBR/L 06T020-6225 | 6 | 0.2 | 3 | 47.3 | 6.2 | 25 | 0.5 | ○ | ● |
| ASIBR/L 06T020-6230 | 6 | 0.2 | 3 | 52.3 | 6.2 | 30 | 0.5 | ● | ● |
| ASIBR/L 06T020-6235 | 6 | 0.2 | 3 | 57.3 | 6.2 | 35 | 0.5 | ● | ○ |
| ASIBR/L 06T020-6240 | 6 | 0.2 | 3 | 62.3 | 6.2 | 40 | 0.5 | ● | ● |

● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

ASIB E Type-Small Dia. Boring Tool

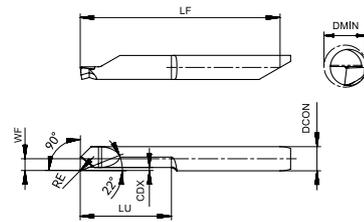
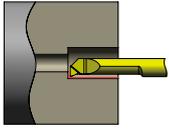


| Product code | Dimension (mm) | | | | | | | AP220U | |
|---------------------|----------------|------|-----|------|------|------|-----|--------|---|
| | DCON | RE | WF | LF | DMIN | LU | CDX | R | L |
| ASIBR 04E008-4230 | 4 | 0.08 | 2 | 52.3 | 4.2 | 30 | 0.5 | ● | - |
| ASIBR/L 04E015-4210 | 4 | 0.15 | 2 | 27.3 | 4.2 | 10.3 | 0.5 | ● | ○ |
| ASIBR/L 04E015-4220 | 4 | 0.15 | 2 | 37.3 | 4.2 | 20.3 | 0.5 | ● | ● |
| ASIBR/L 04E015-4225 | 4 | 0.15 | 2 | 42.3 | 4.2 | 25.3 | 0.5 | ● | ● |
| ASIBR/L 04E020-4215 | 4 | 0.2 | 2 | 32.3 | 4.2 | 15.3 | 0.3 | ● | ○ |
| ASIBR 05E008-5240 | 5 | 0.08 | 2.5 | 67.3 | 5.2 | 40 | 0.5 | ● | - |
| ASIBR/L 05E020-5210 | 5 | 0.2 | 2.5 | 32.3 | 5.2 | 10.2 | 0.6 | ○ | ○ |
| ASIBR/L 05E020-5215 | 5 | 0.2 | 2.5 | 37.3 | 5.2 | 15 | 0.5 | ● | ○ |
| ASIBR/L 05E020-5220 | 5 | 0.2 | 2.5 | 42.3 | 5.2 | 20.3 | 0.6 | ● | ○ |
| ASIBR/L 05E020-5225 | 5 | 0.2 | 2.5 | 47.3 | 5.2 | 25.4 | 0.5 | ● | ○ |
| ASIBR/L 05E020-5230 | 5 | 0.2 | 2.5 | 52.3 | 5.2 | 30.5 | 0.6 | ○ | ○ |
| ASIBR 06E008-6245 | 6 | 0.08 | 3 | 72.3 | 6.2 | 45 | 0.5 | ○ | - |
| ASIBR/L 06E020-6215 | 6 | 0.2 | 3 | 37.3 | 6.2 | 15.2 | 0.8 | ● | ○ |
| ASIBR/L 06E020-6220 | 6 | 0.2 | 3 | 42.3 | 6.2 | 20.3 | 0.8 | ● | ○ |
| ASIBR/L 06E020-6225 | 6 | 0.2 | 3 | 47.3 | 6.2 | 25.4 | 0.8 | ● | ○ |
| ASIBR/L 06E020-6230 | 6 | 0.2 | 3 | 52.3 | 6.2 | 30.5 | 0.5 | ● | ○ |
| ASIBR/L 06E020-6240 | 6 | 0.2 | 3 | 62.3 | 6.2 | 40 | 0.5 | ● | ○ |

Small Tools

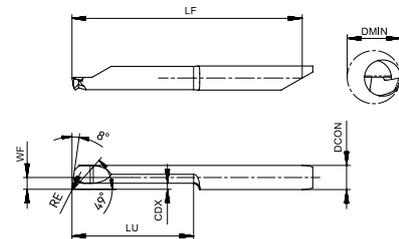
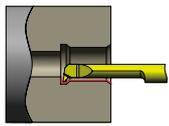
● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

ASIB S Type-Small Dia. Boring Tool



| Product code | Dimension (mm) | | | | | | | AP220U | |
|----------------------------|----------------|------|-----|------|------|----|------|--------|---|
| | DCON | RE | WF | LF | DMIN | LU | APMX | R | L |
| ASIBR/L 04S015-3212 | 4 | 0.15 | 1.5 | 29.3 | 3.2 | 12 | 0.2 | ● | ○ |
| ASIBR/L 04S015-4215 | 4 | 0.15 | 2 | 32.3 | 4.2 | 15 | 0.3 | ● | ○ |
| ASIBR/L 05S020-5210 | 5 | 0.2 | 2.5 | 32.3 | 5.2 | 10 | 0.5 | ○ | ○ |
| ASIBR/L 05S020-5215 | 5 | 0.2 | 2.5 | 37.3 | 5.2 | 15 | 0.5 | ● | ● |
| ASIBR/L 05S020-5220 | 5 | 0.2 | 2.5 | 42.3 | 5.2 | 20 | 0.5 | ● | ○ |

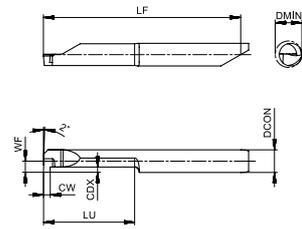
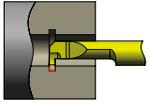
ASIB V Type-Small Dia. Boring Tool



| Product code | Dimension (mm) | | | | | | | | AP220U | |
|----------------------------|----------------|------|-----|------|------|----|------|-----|--------|---|
| | DCON | RE | WF | LF | DMIN | LU | APMX | CDX | R | L |
| ASIBR/L 04V015-4220 | 4 | 0.15 | 2 | 37.3 | 4.2 | 20 | 0.8 | 1 | ● | ● |
| ASIBR/L 05V015-5225 | 5 | 0.15 | 2.5 | 47.3 | 5.2 | 25 | 1 | 1.2 | ● | ● |
| ASIBR/L 06V015-6230 | 6 | 0.15 | 3 | 52.3 | 6.2 | 30 | 1.8 | 2 | ● | ● |

● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

ASIG S Type-Small Dia. Internal Grooving Tool

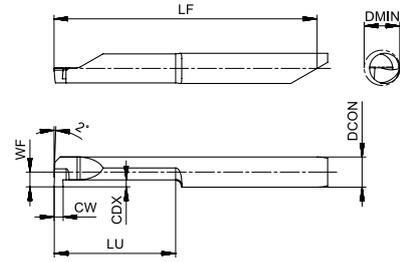
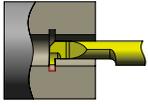


| Product code | Dimension (mm) | | | | | | | AP220U | |
|---------------------|----------------|-----|-----|------|------|----|-----|--------|---|
| | DCON | CW | WF | LF | DMIN | LU | CDX | R | L |
| ASIGR/L 04S050-2006 | 4 | 0.5 | 2 | 23.3 | 2 | 6 | 0.4 | ● | ○ |
| ASIGR/L 04S050-2009 | 4 | 0.5 | 2 | 26.3 | 2 | 9 | 0.4 | ● | ○ |
| ASIGR/L 04S050-2012 | 4 | 0.5 | 2 | 29.3 | 2 | 12 | 0.4 | ● | ○ |
| ASIGR/L 04S070-3008 | 4 | 0.7 | 1.4 | 25.3 | 3 | 8 | 0.6 | ● | ● |
| ASIGR/L 04S070-3012 | 4 | 0.7 | 1.4 | 29.3 | 3 | 12 | 0.6 | ● | ○ |
| ASIGR/L 04S070-3016 | 4 | 0.7 | 1.4 | 33.3 | 3 | 16 | 0.6 | ● | ○ |
| ASIGR/L 04S100-4210 | 4 | 1 | 2 | 27.3 | 4.2 | 10 | 0.8 | ● | ○ |
| ASIGR/L 04S100-4215 | 4 | 1 | 2 | 32.3 | 4.2 | 15 | 0.8 | ● | ○ |
| ASIGR/L 04S100-4220 | 4 | 1 | 2 | 37.3 | 4.2 | 20 | 0.8 | ● | ○ |
| ASIGR/L 05S100-5210 | 5 | 1 | 2.5 | 32.3 | 5.2 | 10 | 1 | ● | ○ |
| ASIGR/L 05S100-5215 | 5 | 1 | 2.5 | 37.3 | 5.2 | 15 | 1 | ● | ○ |
| ASIGR/L 05S100-5220 | 5 | 1 | 2.5 | 42.3 | 5.2 | 20 | 1 | ● | ○ |
| ASIGR/L 05S100-5225 | 5 | 1 | 2.5 | 47.3 | 5.2 | 25 | 1 | ● | ○ |
| ASIGR/L 05S100-5230 | 5 | 1 | 2.5 | 52.3 | 5.2 | 30 | 1 | ○ | ○ |
| ASIGR/L 05S100-5235 | 5 | 1 | 2.5 | 57.3 | 5.2 | 35 | 1 | ● | ○ |
| ASIGR/L 05S150-5210 | 5 | 1.5 | 2.5 | 32.3 | 5.2 | 10 | 1 | ● | ○ |
| ASIGR/L 05S150-5215 | 5 | 1.5 | 2.5 | 37.3 | 5.2 | 15 | 1 | ○ | ○ |
| ASIGR/L 05S150-5220 | 5 | 1.5 | 2.5 | 42.3 | 5.2 | 20 | 1 | ● | ○ |
| ASIGR/L 05S150-5225 | 5 | 1.5 | 2.5 | 47.3 | 5.2 | 25 | 1 | ○ | ○ |
| ASIGR/L 05S150-5230 | 5 | 1.5 | 2.5 | 52.3 | 5.2 | 30 | 1 | ○ | ○ |
| ASIGR/L 05S150-5235 | 5 | 1.5 | 2.5 | 57.3 | 5.2 | 35 | 1 | ○ | ○ |
| ASIGR/L 05S200-5210 | 5 | 2 | 2.5 | 32.3 | 5.2 | 10 | 1 | ○ | ○ |
| ASIGR/L 05S200-5215 | 5 | 2 | 2.5 | 37.3 | 5.2 | 15 | 1 | ● | ○ |
| ASIGR/L 05S200-5220 | 5 | 2 | 2.5 | 42.3 | 5.2 | 20 | 1 | ○ | ○ |
| ASIGR/L 05S200-5225 | 5 | 2 | 2.5 | 47.3 | 5.2 | 25 | 1 | ● | ○ |
| ASIGR/L 05S200-5230 | 5 | 2 | 2.5 | 52.3 | 5.2 | 30 | 1 | ○ | ○ |

Small Tools

● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

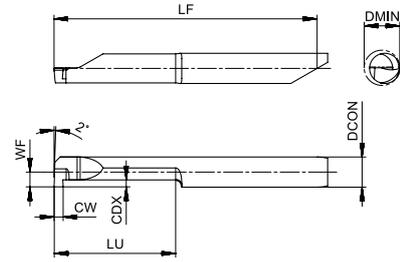
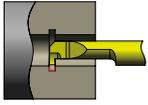
ASIG S Type-Small Dia. Internal Grooving Tool



| Product code | Dimension (mm) | | | | | | | AP220U | |
|---------------------|----------------|-----|----|------|------|----|-----|--------|---|
| | DCON | CW | WF | LF | DMIN | LU | CDX | R | L |
| ASIGR/L 06S100-6210 | 6 | 1 | 3 | 32.3 | 6.2 | 10 | 1.8 | ● | ○ |
| ASIGR/L 06S100-6215 | 6 | 1 | 3 | 37.3 | 6.2 | 15 | 1.8 | ● | ● |
| ASIGR/L 06S100-6220 | 6 | 1 | 3 | 42.3 | 6.2 | 20 | 1.8 | ● | ○ |
| ASIGR/L 06S100-6225 | 6 | 1 | 3 | 47.3 | 6.2 | 25 | 1.8 | ● | ○ |
| ASIGR/L 06S100-6230 | 6 | 1 | 3 | 52.3 | 6.2 | 30 | 1.8 | ● | ○ |
| ASIGR/L 06S100-6235 | 6 | 1 | 3 | 57.3 | 6.2 | 35 | 1.8 | ○ | ○ |
| ASIGR/L 06S100-6240 | 6 | 1 | 3 | 62.3 | 6.2 | 40 | 1.8 | ○ | ○ |
| ASIGR/L 06S150-6210 | 6 | 1.5 | 3 | 32.3 | 6.2 | 10 | 1.8 | ○ | ○ |
| ASIGR/L 06S150-6215 | 6 | 1.5 | 3 | 37.3 | 6.2 | 15 | 1.8 | ○ | ○ |
| ASIGR/L 06S150-6220 | 6 | 1.5 | 3 | 42.3 | 6.2 | 20 | 1.8 | ● | ○ |
| ASIGR/L 06S150-6225 | 6 | 1.5 | 3 | 47.3 | 6.2 | 25 | 1.8 | ● | ○ |
| ASIGR/L 06S150-6230 | 6 | 1.5 | 3 | 52.3 | 6.2 | 30 | 1.8 | ○ | ○ |
| ASIGR/L 06S150-6235 | 6 | 1.5 | 3 | 57.3 | 6.2 | 35 | 1.8 | ○ | ○ |
| ASIGR/L 06S200-6210 | 6 | 2 | 3 | 32.3 | 6.2 | 10 | 1.8 | ○ | ○ |
| ASIGR/L 06S200-6215 | 6 | 2 | 3 | 37.3 | 6.2 | 15 | 1.8 | ● | ● |
| ASIGR/L 06S200-6220 | 6 | 2 | 3 | 42.3 | 6.2 | 20 | 1.8 | ● | ○ |
| ASIGR/L 06S200-6225 | 6 | 2 | 3 | 47.3 | 6.2 | 25 | 1.8 | ● | ○ |
| ASIGR/L 06S200-6230 | 6 | 2 | 3 | 52.3 | 6.2 | 30 | 1.8 | ● | ○ |

● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

ASIG S Type-Small Dia. Internal Grooving Tool (For Circlip Groove)

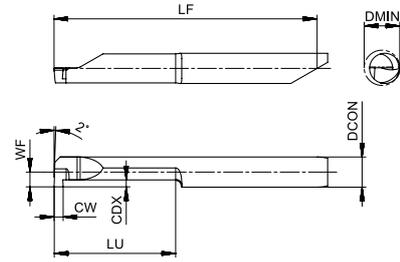
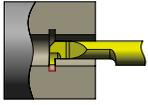


| Product code | Dimension (mm) | | | | | | | AP220U | |
|---------------------|----------------|------|-----|------|------|----|-----|--------|---|
| | DCON | CW | WF | LF | DMIN | LU | CDX | R | L |
| ASIGR/L 04S078-4210 | 4 | 0.78 | 2 | 27.3 | 4.2 | 10 | 0.8 | ○ | ○ |
| ASIGR/L 04S078-4215 | 4 | 0.78 | 2 | 32.3 | 4.2 | 15 | 0.8 | ○ | ○ |
| ASIGR/L 04S078-4220 | 4 | 0.78 | 2 | 37.3 | 4.2 | 20 | 0.8 | ○ | ○ |
| ASIGR/L 04S078-4225 | 4 | 0.78 | 2 | 42.3 | 4.2 | 25 | 0.8 | ○ | ○ |
| ASIGR/L 05S078-5210 | 5 | 0.78 | 2.5 | 32.3 | 5.2 | 10 | 1 | ○ | ○ |
| ASIGR/L 05S078-5215 | 5 | 0.78 | 2.5 | 37.3 | 5.2 | 15 | 1 | ○ | ○ |
| ASIGR/L 05S078-5220 | 5 | 0.78 | 2.5 | 42.3 | 5.2 | 20 | 1 | ○ | ○ |
| ASIGR/L 05S078-5225 | 5 | 0.78 | 2.5 | 47.3 | 5.2 | 25 | 1 | ○ | ○ |
| ASIGR/L 05S078-5230 | 5 | 0.78 | 2.5 | 52.3 | 5.2 | 30 | 1 | ○ | ○ |
| ASIGR/L 05S078-5235 | 5 | 0.78 | 2.5 | 57.3 | 5.2 | 35 | 1 | ○ | ○ |
| ASIGR/L 05S117-5210 | 5 | 1.17 | 2.5 | 32.3 | 5.2 | 10 | 1 | ○ | ○ |
| ASIGR/L 05S117-5215 | 5 | 1.17 | 2.5 | 37.3 | 5.2 | 15 | 1 | ○ | ○ |
| ASIGR/L 05S117-5220 | 5 | 1.17 | 2.5 | 42.3 | 5.2 | 20 | 1 | ○ | ○ |
| ASIGR/L 05S117-5225 | 5 | 1.17 | 2.5 | 47.3 | 5.2 | 25 | 1 | ○ | ○ |
| ASIGR/L 05S117-5230 | 5 | 1.17 | 2.5 | 52.3 | 5.2 | 30 | 1 | ○ | ○ |
| ASIGR/L 05S117-5235 | 5 | 1.17 | 2.5 | 57.3 | 5.2 | 35 | 1 | ○ | ○ |
| ASIGR/L 05S157-5210 | 5 | 1.57 | 2.5 | 32.3 | 5.2 | 10 | 1 | ○ | ○ |
| ASIGR/L 05S157-5215 | 5 | 1.57 | 2.5 | 37.3 | 5.2 | 15 | 1 | ○ | ○ |
| ASIGR/L 05S157-5220 | 5 | 1.57 | 2.5 | 42.3 | 5.2 | 20 | 1 | ○ | ○ |
| ASIGR/L 05S157-5225 | 5 | 1.57 | 2.5 | 47.3 | 5.2 | 25 | 1 | ○ | ○ |
| ASIGR/L 05S157-5230 | 5 | 1.57 | 2.5 | 52.3 | 5.2 | 30 | 1 | ○ | ○ |
| ASIGR/L 05S198-5210 | 5 | 1.98 | 2.5 | 32.3 | 5.2 | 10 | 1 | ○ | ○ |
| ASIGR/L 05S198-5215 | 5 | 1.98 | 2.5 | 37.3 | 5.2 | 15 | 1 | ○ | ○ |
| ASIGR/L 05S198-5220 | 5 | 1.98 | 2.5 | 42.3 | 5.2 | 20 | 1 | ○ | ○ |
| ASIGR/L 05S198-5225 | 5 | 1.98 | 2.5 | 47.3 | 5.2 | 25 | 1 | ○ | ○ |
| ASIGR/L 05S198-5230 | 5 | 1.98 | 2.5 | 52.3 | 5.2 | 30 | 1 | ○ | ○ |

Small Tools

● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

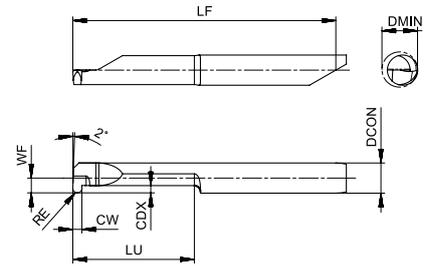
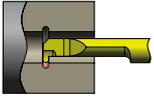
ASIG S Type-Small Dia. Internal Grooving Tool (For Circlip Groove)



| Product code | Dimension (mm) | | | | | | | AP220U | |
|---------------------|----------------|------|----|------|------|----|-----|--------|---|
| | DCON | CW | WF | LF | DMIN | LU | CDX | R | L |
| ASIGR/L 06S078-6210 | 6 | 0.78 | 3 | 32.3 | 6.2 | 10 | 1.8 | ○ | ○ |
| ASIGR/L 06S078-6215 | 6 | 0.78 | 3 | 37.3 | 6.2 | 15 | 1.8 | ○ | ○ |
| ASIGR/L 06S078-6220 | 6 | 0.78 | 3 | 42.3 | 6.2 | 20 | 1.8 | ○ | ○ |
| ASIGR/L 06S078-6225 | 6 | 0.78 | 3 | 47.3 | 6.2 | 25 | 1.8 | ○ | ○ |
| ASIGR/L 06S078-6230 | 6 | 0.78 | 3 | 52.3 | 6.2 | 30 | 1.8 | ○ | ○ |
| ASIGR/L 06S078-6235 | 6 | 0.78 | 3 | 57.3 | 6.2 | 35 | 1.8 | ○ | ○ |
| ASIGR/L 06S117-6210 | 6 | 1.17 | 3 | 32.3 | 6.2 | 10 | 1.8 | ○ | ○ |
| ASIGR/L 06S117-6215 | 6 | 1.17 | 3 | 37.3 | 6.2 | 15 | 1.8 | ○ | ○ |
| ASIGR/L 06S117-6220 | 6 | 1.17 | 3 | 42.3 | 6.2 | 20 | 1.8 | ○ | ○ |
| ASIGR/L 06S117-6225 | 6 | 1.17 | 3 | 47.3 | 6.2 | 25 | 1.8 | ○ | ○ |
| ASIGR/L 06S117-6230 | 6 | 1.17 | 3 | 52.3 | 6.2 | 30 | 1.8 | ○ | ○ |
| ASIGR/L 06S117-6235 | 6 | 1.17 | 3 | 57.3 | 6.2 | 35 | 1.8 | ○ | ○ |
| ASIGR/L 06S117-6240 | 6 | 1.17 | 3 | 62.3 | 6.2 | 40 | 1.8 | ○ | ○ |
| ASIGR/L 06S157-6210 | 6 | 1.57 | 3 | 32.3 | 6.2 | 10 | 1.8 | ○ | ○ |
| ASIGR/L 06S157-6215 | 6 | 1.57 | 3 | 37.3 | 6.2 | 15 | 1.8 | ○ | ○ |
| ASIGR/L 06S157-6220 | 6 | 1.57 | 3 | 42.3 | 6.2 | 20 | 1.8 | ○ | ○ |
| ASIGR/L 06S157-6225 | 6 | 1.57 | 3 | 47.3 | 6.2 | 25 | 1.8 | ○ | ○ |
| ASIGR/L 06S157-6230 | 6 | 1.57 | 3 | 52.3 | 6.2 | 30 | 1.8 | ○ | ○ |
| ASIGR/L 06S157-6235 | 6 | 1.57 | 3 | 57.3 | 6.2 | 35 | 1.8 | ○ | ○ |
| ASIGR/L 06S157-6240 | 6 | 1.57 | 3 | 62.3 | 6.2 | 40 | 1.8 | ○ | ○ |
| ASIGR/L 06S198-6210 | 6 | 1.98 | 3 | 32.3 | 6.2 | 10 | 1.8 | ○ | ○ |
| ASIGR/L 06S198-6215 | 6 | 1.98 | 3 | 37.3 | 6.2 | 15 | 1.8 | ● | ○ |
| ASIGR/L 06S198-6225 | 6 | 1.98 | 3 | 47.3 | 6.2 | 25 | 1.8 | ○ | ○ |
| ASIGR/L 06S198-6235 | 6 | 1.98 | 3 | 57.3 | 6.2 | 35 | 1.8 | ○ | ○ |

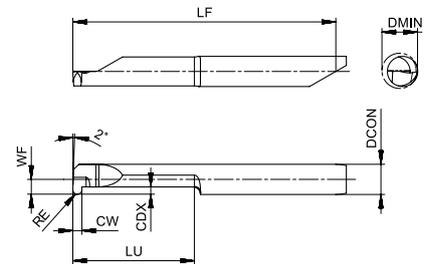
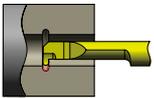
● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

ASIG R Type-Small Dia. Internal Grooving Tool



| Product code | Dimension (mm) | | | | | | | AP220U | |
|---------------------|----------------|-----|-----|------|------|----|-----|--------|---|
| | DCON | CW | WF | LF | DMIN | LU | CDX | R | L |
| ASIGR/L 04R100-4215 | 4 | 1 | 2 | 32.3 | 4.2 | 15 | 0.8 | ● | ● |
| ASIGR/L 05R100-5220 | 5 | 1 | 2.5 | 42.3 | 5.2 | 20 | 1 | ● | ● |
| ASIGR/L 05R150-5220 | 5 | 1.5 | 2.5 | 42.3 | 5.2 | 20 | 1 | ● | ○ |
| ASIGR/L 05R200-5220 | 5 | 2 | 2.5 | 42.3 | 5.2 | 20 | 1 | ● | ○ |
| ASIGR/L 06R100-6225 | 6 | 1 | 3 | 47.3 | 6.2 | 25 | 1.8 | ● | ● |
| ASIGR/L 06R150-6225 | 6 | 1.5 | 3 | 47.3 | 6.2 | 25 | 1.8 | ● | ○ |
| ASIGR/L 06R200-6225 | 6 | 2 | 3 | 47.3 | 6.2 | 25 | 1.8 | ● | ● |

ASIG R Type-Small Dia. Internal Grooving Tool (For Circlip Groove)



| Product code | Dimension (mm) | | | | | | | AP220U | |
|---------------------|----------------|------|-----|------|------|----|-----|--------|---|
| | DCON | CW | WF | LF | DMIN | LU | CDX | R | L |
| ASIGR/L 04R117-4215 | 4 | 1.17 | 2 | 32.3 | 4.2 | 15 | 0.8 | ○ | ○ |
| ASIGR/L 05R117-5220 | 5 | 1.17 | 2.5 | 42.3 | 5.2 | 20 | 1 | ○ | ○ |
| ASIGR/L 05R163-5220 | 5 | 1.63 | 2.5 | 42.3 | 5.2 | 20 | 1 | ○ | ○ |
| ASIGR/L 05R198-5220 | 5 | 1.98 | 2.5 | 42.3 | 5.2 | 20 | 1 | ○ | ○ |
| ASIGR/L 06R117-6225 | 6 | 1.17 | 3 | 47.3 | 6.2 | 25 | 1.8 | ○ | ○ |
| ASIGR/L 06R163-6225 | 6 | 1.63 | 3 | 47.3 | 6.2 | 25 | 1.8 | ○ | ○ |
| ASIGR/L 06R198-6225 | 6 | 1.98 | 3 | 47.3 | 6.2 | 25 | 1.8 | ○ | ○ |

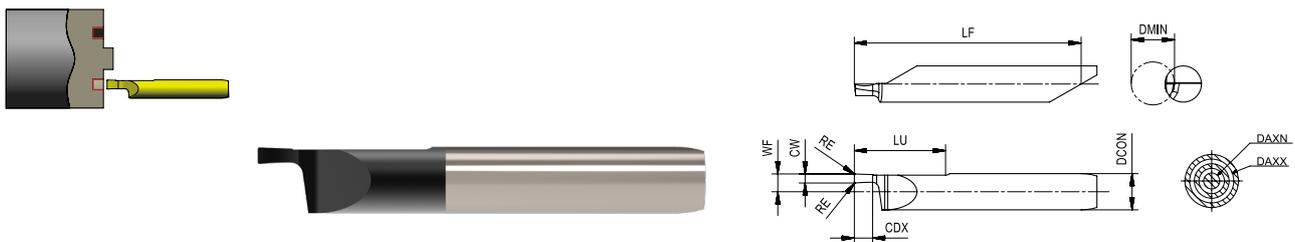
● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

ASIF A Type - Small Dia. Internal Face Grooving (Inward Deviation)



| Product code | Dimension (mm) | | | | | | | | AP220U | |
|---------------------|----------------|-----|----|------|------|------|----|-----|--------|---|
| | DCON | CW | WF | RE | LF | DAXN | LU | CDX | R | L |
| ASIFR/L 06A100-6215 | 6 | 1 | 3 | 0.15 | 37.3 | 4.2 | 15 | 2 | ● | ○ |
| ASIFR/L 06A150-6215 | 6 | 1.5 | 3 | 0.15 | 37.3 | 3.2 | 15 | 3 | ● | ○ |
| ASIFR/L 06A200-6215 | 6 | 2 | 3 | 0.15 | 37.3 | 2.2 | 15 | 4 | ● | ○ |
| ASIFR/L 06A250-6215 | 6 | 2.5 | 3 | 0.15 | 37.3 | 1.2 | 15 | 5 | ● | ○ |
| ASIFR/L 06A300-6215 | 6 | 3 | 3 | 0.15 | 37.3 | 0.2 | 15 | 6 | ● | ○ |
| ASIFR/L 08A200-8015 | 8 | 2 | 3 | 0.2 | 44.3 | 11 | 15 | 15 | ● | ● |
| ASIFR/L 08A250-8010 | 8 | 2.5 | 3 | 0.2 | 39.3 | 5 | 10 | 10 | ○ | ○ |
| ASIFR/L 08A300-8010 | 8 | 3 | 3 | 0.2 | 39.3 | 4 | 10 | 10 | ○ | ● |
| ASIFR/L 08A300-8015 | 8 | 3 | 3 | 0.2 | 44.3 | 9 | 15 | 15 | ● | ○ |
| ASIFR/L 08A400-8010 | 8 | 4 | 3 | 0.2 | 39.3 | 2 | 10 | 10 | ○ | ○ |
| ASIFR/L 08A400-8015 | 8 | 4 | 3 | 0.2 | 44.3 | 7 | 15 | 15 | ○ | ○ |

ASIF B Type - Small Dia. Internal Face Grooving (Outward Deviation)



| Product code | Dimension (mm) | | | | | | | | AP220U | |
|---------------------|----------------|-----|----|------|------|------|----|-----|--------|---|
| | DCON | CW | WF | RE | LF | DAXN | LU | CDX | R | L |
| ASIFR/L 06B100-6215 | 6 | 1 | 3 | 0.15 | 37.3 | 4.2 | 15 | 2 | ● | ○ |
| ASIFR/L 06B150-6215 | 6 | 1.5 | 3 | 0.15 | 37.3 | 3.2 | 15 | 3 | ● | ○ |
| ASIFR/L 06B200-6215 | 6 | 2 | 3 | 0.15 | 37.3 | 2.2 | 15 | 4 | ○ | ○ |
| ASIFR/L 06B250-6215 | 6 | 2.5 | 3 | 0.15 | 37.3 | 1.2 | 15 | 5 | ● | ● |
| ASIFR/L 06B300-6215 | 6 | 3 | 3 | 0.15 | 37.3 | 0.2 | 15 | 6 | ● | ● |

● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

ASIT V Type - Small Dia. Internal 60° Partial Profile Threading Tool



| Product code | Dimension (mm) | | | | | | | | AP220U | |
|---------------------|----------------|-----|-----|-----|------|----------|------|----|--------|---|
| | DCON | PDX | PNA | WF | LF | P | DMIN | LU | R | L |
| ASITR/L 04V050-4215 | 4 | 0.4 | 60° | 2 | 32.7 | 0.5~0.7 | 4.2 | 15 | ● | ● |
| ASITR 05V050-5215 | 5 | 0.4 | 60° | 2.5 | 37.7 | 0.5~0.75 | 5.2 | 15 | ● | - |
| ASITR 05V070-5115 | 5 | 0.5 | 60° | 2.4 | 37.8 | 0.7~1 | 5.1 | 15 | ● | - |
| ASITR/L 05V100-4815 | 5 | 0.6 | 60° | 2.3 | 37.9 | 1~1.25 | 4.8 | 15 | ● | ● |
| ASITR 06V100-6215 | 6 | 0.6 | 60° | 3 | 37.9 | 1~1.25 | 6.2 | 15 | ● | - |
| ASITR/L 06V125-6215 | 6 | 0.8 | 60° | 3 | 38.1 | 1.25~1.5 | 6.2 | 15 | ● | ● |
| ASITR/L 06V150-6215 | 6 | 1 | 60° | 3 | 38.3 | 1.5~1.75 | 6.2 | 15 | ● | ● |

ASIT M Type - Small Dia. Internal ISO Threading Tool



| Product code | Dimension (mm) | | | | | | | | AP220U | |
|-------------------|----------------|-----|-----|-----|------|------|------|----|--------|---|
| | DCON | PDX | PNA | WF | LF | P | DMIN | LU | R | L |
| ASITR 04M050-4215 | 4 | 0.4 | 60° | 2 | 32.7 | 0.5 | 4.4 | 15 | ○ | - |
| ASITR 04M070-4215 | 4 | 0.5 | 60° | 1.9 | 32.8 | 0.7 | 4.4 | 15 | ○ | - |
| ASITR 04M080-4015 | 4 | 0.5 | 60° | 1.9 | 32.8 | 0.8 | 4 | 15 | ● | - |
| ASITR 05M050-5215 | 5 | 0.4 | 60° | 2.5 | 37.7 | 0.5 | 5.2 | 15 | ○ | - |
| ASITR 05M075-5115 | 5 | 0.5 | 60° | 2.4 | 37.8 | 0.75 | 5.1 | 15 | ● | - |
| ASITR 05M100-4815 | 5 | 0.6 | 60° | 2.3 | 37.9 | 1 | 4.8 | 15 | ● | - |
| ASITR 06M100-6215 | 6 | 0.6 | 60° | 3 | 37.9 | 1 | 6.2 | 15 | ○ | - |
| ASITR 06M125-6215 | 6 | 0.7 | 60° | 3 | 38 | 1.25 | 6.2 | 15 | ○ | - |
| ASITR 06M150-6215 | 6 | 0.8 | 60° | 3 | 38.1 | 1.5 | 6.2 | 15 | ● | - |
| ASITR 06M175-6215 | 6 | 0.9 | 60° | 3 | 38.2 | 1.75 | 6.2 | 15 | ○ | - |
| ASITR 06M200-6215 | 6 | 1 | 60° | 3 | 38.3 | 2 | 6.2 | 15 | ● | - |

● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

Small Tools

ASIT U Type - Small Dia. Internal UN Threading Tool



| Product code | Dimension (mm) | | | | | | | | AP220U | |
|-------------------|----------------|-----|-----|-----|------|----|------|----|--------|---|
| | DCON | PDX | PNA | WF | LF | P | DMIN | LU | R | L |
| ASITR 04U032-4015 | 4 | 0.6 | 60° | 1.9 | 32.9 | 28 | 4 | 15 | ○ | - |
| ASITR 04U028-4015 | 4 | 0.6 | 60° | 1.9 | 32.9 | 32 | 4 | 15 | ○ | - |
| ASITR 04U024-4215 | 4 | 0.7 | 60° | 2 | 33 | 24 | 4.2 | 15 | ○ | - |
| ASITR 05U020-5215 | 5 | 0.7 | 60° | 2.5 | 38 | 20 | 5.2 | 15 | ○ | - |
| ASITR 06U018-6215 | 6 | 0.6 | 60° | 3 | 38.1 | 18 | 6.2 | 15 | ○ | - |
| ASITR 06U016-6215 | 6 | 0.9 | 60° | 3 | 38.2 | 16 | 6.2 | 15 | ● | - |

ASIT W Type - Small Dia. Internal Worth Threading Tool



| Product code | Dimension (mm) | | | | | | | | AP220U | |
|---------------------|----------------|-----|-----|-----|------|----|------|----|--------|---|
| | DCON | PDX | PNA | WF | LF | P | DMIN | LU | R | L |
| ASITR 05W028-5215 | 5 | 0.8 | 55° | 2.5 | 38.1 | 28 | 5.2 | 15 | ○ | - |
| ASITR 05W026-5215 | 5 | 0.8 | 55° | 2.5 | 38.1 | 26 | 5.2 | 15 | ○ | - |
| ASITR 05W024-5215 | 5 | 0.8 | 55° | 2.5 | 38.1 | 24 | 5.2 | 15 | ○ | - |
| ASITR 06W028-6215 | 6 | 0.8 | 55° | 3 | 38.1 | 28 | 6.2 | 15 | ○ | - |
| ASITR 06W026-6215 | 6 | 0.8 | 55° | 3 | 38.1 | 26 | 6.2 | 15 | ○ | - |
| ASITR 06W024-6215 | 6 | 0.8 | 55° | 3 | 38.1 | 24 | 6.2 | 15 | ○ | - |
| ASITR 06W022-6215 | 6 | 1 | 55° | 3 | 38.3 | 22 | 6.2 | 15 | ○ | - |
| ASITR 06W020-6215 | 6 | 1 | 55° | 3 | 38.3 | 20 | 6.2 | 15 | ○ | - |
| ASITR/L 06W019-6215 | 6 | 1 | 55° | 3 | 38.3 | 19 | 6.2 | 15 | ○ | ○ |

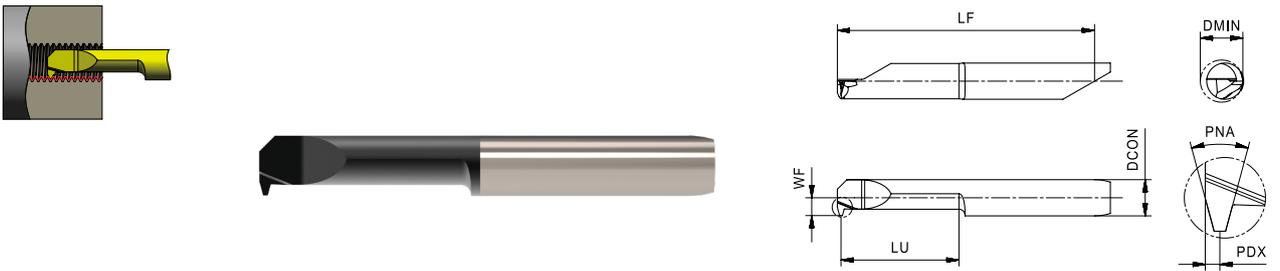
● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

ASIT N Type - Small Dia. Internal NPT Threading Tool



| Product code | Dimension (mm) | | | | | | | | AP220U | |
|----------------------------|----------------|-----|-----|----|------|----|------|----|--------|---|
| | DCON | PDX | PNA | WF | LF | P | DMIN | LU | R | L |
| ASITR 06N027-6215 | 6 | 0.8 | 60° | 3 | 38.1 | 27 | 6.2 | 15 | ○ | - |
| ASITR/L 06N018-6215 | 6 | 1 | 60° | 3 | 38.3 | 18 | 6.2 | 15 | ● | ○ |

ASIT T Type - Small Dia. Internal TR Threading Tool

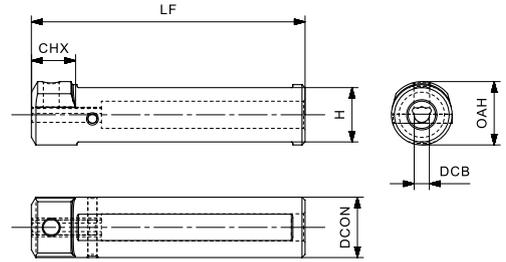


| Product code | Dimension (mm) | | | | | | | | AP220U | |
|--------------------------|----------------|-----|-----|----|------|-----|------|----|--------|---|
| | DCON | PDX | PNA | WF | LF | P | DMIN | LU | R | L |
| ASITR 06T150-6220 | 6 | 0.6 | 30° | 3 | 38.2 | 1.5 | 6.2 | 20 | ● | - |
| ASITR 06T200-6220 | 6 | 0.8 | 30° | 3 | 38.4 | 2 | 6.2 | 20 | ● | - |

Small Tools

● : Standard stock ○ : Made-to-Order (MOQ: 30 pcs)

Boring Tool Sleeves



| Product code | DCB | DCON | LF | H | Stock |
|--------------|-----|------|-----|----|-------|
| ASI 0010-04 | 4 | 10 | 65 | 8 | ● |
| ASI 0010-05 | 5 | | | | ● |
| ASI 0012-04 | 4 | 12 | 70 | 10 | ● |
| ASI 0012-05 | 5 | | | | ● |
| ASI 0012-06 | 6 | | | | ● |
| ASI 0016-04 | 4 | 16 | 75 | 14 | ● |
| ASI 0016-05 | 5 | | | | ● |
| ASI 0016-06 | 6 | | | | ● |
| ASI 0016-08 | 8 | | | | ● |
| ASI 0020-04 | 4 | 20 | 90 | 18 | ● |
| ASI 0020-05 | 5 | | | | ● |
| ASI 0020-06 | 6 | | | | ● |
| ASI 0020-08 | 8 | | | | ● |
| ASI 0025-04 | 4 | 25 | 110 | 23 | ● |
| ASI 0025-05 | 5 | | | | ● |
| ASI 0025-06 | 6 | | | | ● |
| ASI 0025-08 | 8 | | | | ● |

● : Standard stock ○ : Made-to-Order