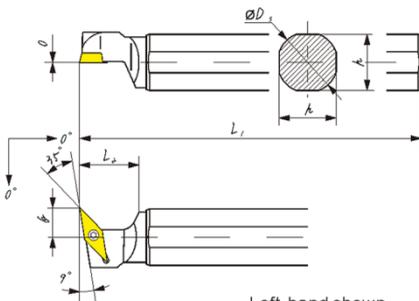
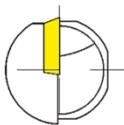
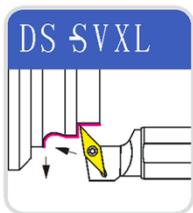


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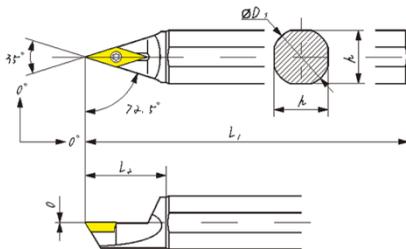
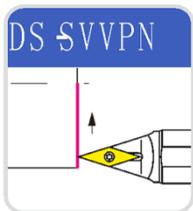
SMALL TOOLS





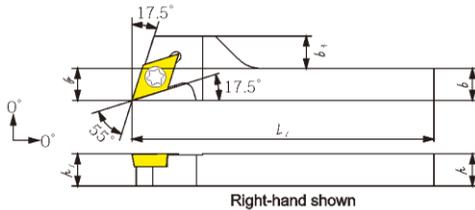
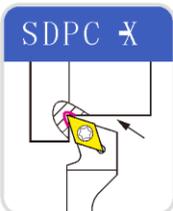
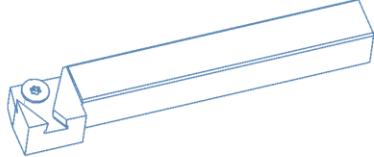
Left-hand shown

| Item code | Dimensions,mm | | | | | Insert | Screw | Wrench |
|---------------|---------------|----------|-------|-----|-------|-------------------|----------|--------|
| | ϕD_s | h | L_1 | f | L_2 | | | |
| DS18H-SVXL11 | 18.275 | 15 | 100 | | 10.0 | $\psi 0$ | BFTX2506 | TRX08 |
| DS19X-SVXL11 | 19.05 | 18 | | 20 | 10.0 | $\psi 0$ | | |
| DS20X-SVXL11S | $\psi 0$ | 19 | | 95 | 10.0 | VC \square 1103 | | |
| DS20X-SVXL11 | $\psi 0$ | 19 | | 100 | 10.0 | $\psi 0$ | | |
| DS22X-SVXL11 | $\psi 2$ | $\psi 1$ | | 100 | 10.0 | $\psi 0$ | | |
| DS25X-SVXL11 | $\psi 5.4$ | $\psi 1$ | | 150 | 10.0 | $\psi 0$ | | |

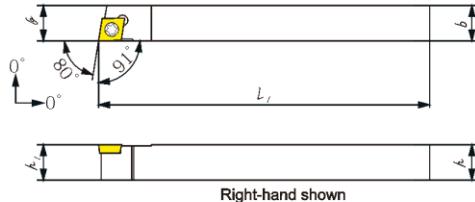
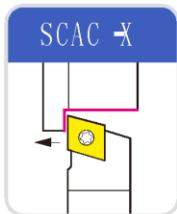


| Item code | Dimensions,mm | | | | | Insert | Screw | Wrench |
|--------------|---------------|----------|-------|-----|-------|----------|----------|--------|
| | ϕD_s | h | L_1 | f | L_2 | | | |
| DS19X-SVVP11 | 19.05 | 18 | | 20 | 9.0 | $\psi 2$ | BFTX2506 | TRX08 |
| DS22X-SVVP11 | $\psi 2$ | $\psi 1$ | | 100 | 10.5 | $\psi 2$ | | |

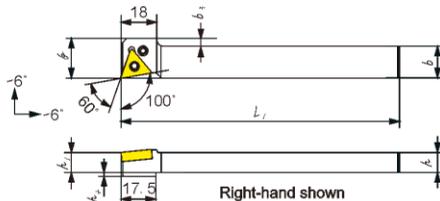
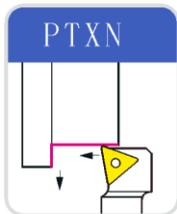
SMALL TOOLS



| Item code | Dimensions,mm | | | | | | Insert | Screw | Wrench |
|-------------------|---------------|----|----------------|----|----------------|----------------|-----------|----------|--------|
| | h | b | L ₁ | f | h ₁ | b ₁ | | | |
| SDPC R/L1010-H11X | 10 | 10 | 100 | 10 | 10 | 10 | CC11173DC | BFTX4010 | TRX15 |

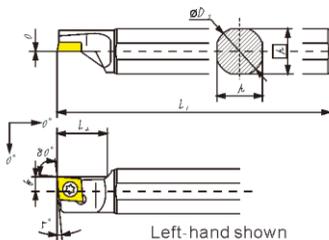
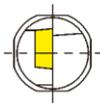
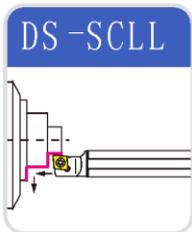


| Item code | Dimensions,mm | | | | | | Insert | Screw | Wrench |
|-------------------|---------------|----|----------------|----|----------------|----------------|-----------|----------|--------|
| | h | b | L ₁ | f | h ₁ | b ₁ | | | |
| SCAC R/L1010-H06X | 10 | 10 | 100 | 10 | 10 | 10 | CC11173DC | BFTX2506 | TRX08 |
| SCAC R/L1215-F09X | 12 | 15 | 105 | 15 | 15 | 15 | CC11173DC | BFTX4008 | TRX15 |
| SCAC R/L1215-F09X | 12 | 15 | 105 | 15 | 15 | 15 | CC11173DC | BFTX4008 | TRX15 |

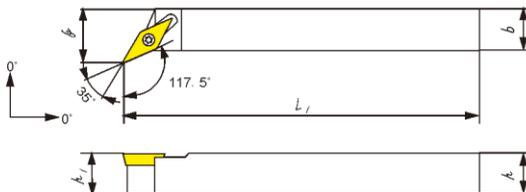
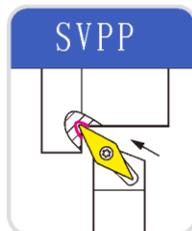


| Item code | Dimensions,mm | | | | | | Insert | Screw | Wrench |
|-----------------|---------------|----|----------------|----|----------------|----------------|---------|---------|---------|
| | h | b | L ₁ | f | h ₁ | b ₁ | | | |
| PTXN R1016-X16X | 10 | 16 | 120 | 10 | 10 | 10 | TN□140P | LCL3ANT | LCS3ANT |
| PTXN R1216-X16X | 12 | 16 | 120 | 10 | 12 | 10 | TN□140P | LCL3ANT | LCS3ANT |
| PTXN R1616-X16X | 16 | 16 | 120 | 10 | 16 | 10 | TN□140P | LCL3ANT | LCS3ANT |
| PTXN R2020-X16X | 20 | 20 | 120 | 10 | 20 | 10 | TN□140P | LCL3ANT | LCS3ANT |

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SMALL TOOLS



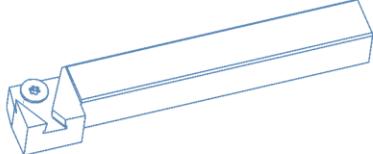
| Item code | Dimensions,mm | | | | | Insert | Screw | Wrench |
|---------------|---------------|---------|-------|-----|---------------|---------------|----------|--------|
| | ϕD_s | h | L_1 | f | L_2 | | | |
| DS15H-SCLL06 | 15.825 | 15 | 100 | 6.0 | ± 0 | CC ± 0.02 | BFTX2506 | TRX08 |
| DS19X-SCLL06 | 19.05 | 18 | 140 | 6.0 | ± 0 | | | |
| DS20X-SCLL06X | ± 0 | 19 | 95 | 6.0 | ± 0 | | | |
| DS20X-SCLL06 | ± 0 | 19 | 140 | 6.0 | ± 0 | | | |
| DS22X-SCLL06 | ± 2 | ± 1 | 140 | 6.0 | ± 0 | | | |
| DS25X-SCLL06 | ± 5 | ± 4 | 140 | 6.0 | ± 0 | | | |
| DS25M-SCLL06 | ± 5.4 | ± 4 | 150 | 6.0 | ± 0 | | | |
| DS15H-SCLL09 | 15.825 | 15 | 100 | 6.0 | ± 0 | | | |
| DS19X-SCLL09 | 19.05 | 18 | 140 | 6.0 | ± 0 | | | |
| DS20X-SCLL09S | ± 0 | 19 | 95 | 6.0 | CC ± 0.02 | BFTX4008 | TRX15 | |
| DS20X-SCLL09 | ± 0 | 19 | 140 | 6.0 | ± 0 | | | |
| DS22X-SCLL09 | ± 2 | ± 1 | 140 | 6.0 | ± 0 | | | |
| DS25X-SCLL09 | ± 5 | ± 4 | 140 | 6.0 | ± 0 | | | |
| DS25M-SCLL09 | ± 5.4 | ± 4 | 150 | 6.0 | ± 0 | | | |



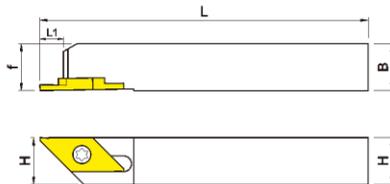
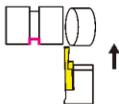
Right-hand shown

| Item code | Dimensions,mm | | | | | Insert | Screw | Wrench |
|------------------|---------------|----|-------|------|-----------|----------|-------|--------|
| | h | b | L_1 | f | h_2 | | | |
| SVPP R/L1010-H11 | 10 | 10 | 100 | 14.5 | VP T1103 | BFTX2506 | TRX08 | |
| SVPP R/L1212-H11 | 12 | 12 | 100 | 16.5 | VP T1103 | | | |
| SVPP R/L1616-H11 | 16 | 16 | 100 | 20.5 | VP T1103 | | | |

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KTKFR



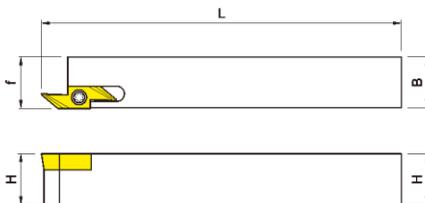
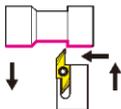
Right-hand shown

| Ordering code | Dimensions,mm | | | | | | Insert | Screw | Wrench |
|-------------------|---------------|----|-----|----|----|----|-------------|----------|--------|
| | H | B | L | f | L1 | L2 | | | |
| KTKFR/L-1010K-12A | 10 | 10 | 125 | 10 | 6 | 15 | TKF12R/L... | BFTX4008 | TRX15 |
| KTKFR/L-1212M-12 | 12 | 12 | 150 | 12 | | -- | | | |
| KTKFR/L-1616K-12 | 16 | 16 | 125 | 16 | | -- | | | |
| KTKFR-1010K-16 | 10 | 10 | 125 | 10 | 8 | 29 | TKF16R/L... | BFTX4008 | TRX15 |
| KTKFR/L-1010K-16A | 10 | 10 | 125 | 10 | | 20 | | | |
| KTKFR/L-1212M-16 | 12 | 12 | 150 | 12 | | -- | | | |

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| Ordering code | Insert Shape | Dimensions,mm | | | | | |
|-------------------|--------------|---------------|-----|----|-----|---|------|
| | | W | A | K | H | S | R |
| TKF12R 050-S-16DR | | 0.5 | 2.5 | 16 | 8.7 | 3 | 0.03 |
| TKF12R 070-S-16DR | | 0.7 | 4 | | | | |
| TKF12R 100-S-16DR | | 1.0 | 6 | | | | |
| TKF12R 150-S-16DR | | 1.5 | 6 | | | | |
| TKF12R 200-S-16DR | | 2.0 | 6 | | | | |
| TKF16R 150-S-16DR | | 1.5 | 8 | 16 | 9.5 | 4 | 0.05 |
| TKF16R 200-S-16DR | | 2.0 | 8 | | | | |

SAB_R

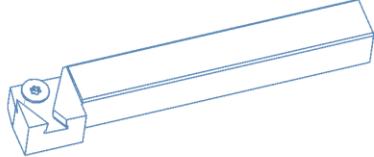


Right-hand shown

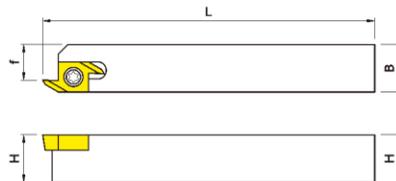
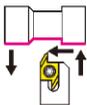
| Ordering code | Dimensions,mm | | | | Insert | Screw | Wrench |
|-----------------|---------------|----|-----|------|----------|----------|--------|
| | H | B | L | f | | | |
| SABSR-1010K-40F | 10 | 10 | 125 | 10.2 | ABS15R.. | BFTX3008 | TRX10 |
| SABSR-1212K-40F | 12 | 12 | 125 | 12.2 | | | |
| SABWR-0810K-40F | 8 | 10 | 125 | 10.2 | ABW15R.. | BFTX3008 | TRX10 |
| SABWR-1010K-40F | 10 | 10 | 125 | 10.2 | | | |
| SABWR-1212K-40F | 12 | 12 | 125 | 12.2 | | | |
| SABWR-1616K-40F | 16 | 16 | 125 | 16.2 | | | |
| SABWR-2020K-40F | 20 | 20 | 125 | 20.2 | | | |
| SABWR-2525M-40F | 25 | 25 | 150 | 25.2 | | | |
| SABWR-1010K-50F | 10 | 10 | 125 | 10.2 | ABW23R.. | BFTX3008 | TRX10 |
| SABWR-1212K-50F | 12 | 12 | 125 | 12.2 | | | |
| SABWR-1616K-50F | 16 | 16 | 125 | 16.2 | | | |
| SABWR-2020K-50F | 20 | 20 | 125 | 20.2 | | | |
| SABWR-2525M-50F | 25 | 25 | 150 | 25.2 | | | |

| Ordering code | Insert Shape | Dimensions,mm | | | | | | |
|---------------|--------------|---------------|-----|----|------|---|------|------|
| | | B | T | K | L | d | S | R |
| ABW15R4005 | | 4.7 | 4.2 | 45 | 15.4 | 7 | 3.97 | 0.05 |
| ABW15R4015 | | 4.7 | 4.2 | 45 | 15.4 | | | 0.15 |
| ABW23R5005 | | 4.7 | 8.2 | 40 | 23.4 | | | 0.05 |
| ABW23R5015 | | | | | | | | 0.15 |
| ABS15R4005 | | 2.8 | 4.2 | 30 | 15.4 | 7 | 3.97 | 0.05 |
| ABS15R4015 | | | | | | | | 0.15 |

SMALL TOOLS



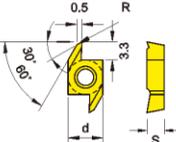
JSEGR



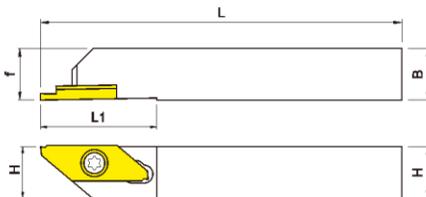
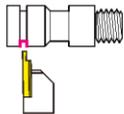
Right-hand shown

| Item code | Dimensions,mm | | | | Insert | Screw  | Wrench  |
|----------------|---------------|----|-----|-----|------------|--|---|
| | H | B | L | f | | | |
| JSEGR-1010H-10 | 10 | 10 | 100 | 7.5 | J10ER...B. | BFTX2506 | TRX08 |
| JSEGR-1010K-10 | 10 | 10 | 125 | 7.5 | | | |
| JSEGR-1212H-10 | 12 | 12 | 100 | 9.5 | | | |
| JSEGR-1212K-10 | 12 | 12 | 125 | 9.5 | | | |

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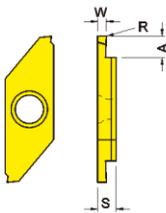
| Description | Insert Shape | Dimensions,mm | | |
|-------------|---|---------------|------|------|
| | | d | S | R |
| J10ER 005BF |  | 6.35 | 3.18 | 0.05 |
| J10ER 010BF | | | | 0.1 |
| J10ER 015BF | | | | 0.15 |

SMALR

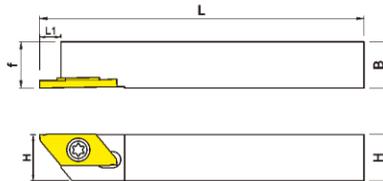
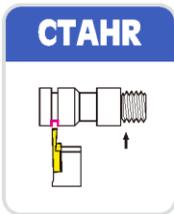
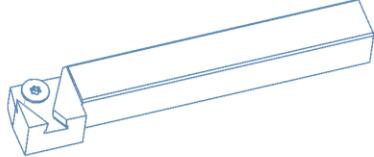


Right-hand shown

| Item code | Dimensions,mm | | | | | Insert | Screw  | Wrench  |
|---------------|---------------|----|-----|----|----|---------|--|---|
| | H | B | L | L1 | f | | | |
| SMALR-1010K-3 | 10 | 10 | 125 | 27 | 10 | MAGR3.. | BFTX4010 | TRX15 |
| SMALR-1212K-3 | 12 | 12 | 125 | 27 | 12 | | | |
| SMALR-1616K-3 | 16 | 16 | 125 | 27 | 16 | | | |
| SMALR-2020K-3 | 20 | 20 | 125 | 27 | 20 | | | |

| Description | Insert Shape  | Dimensions,mm | | | |
|-------------|---|---------------|-----|------|------|
| | | W | A | S | R |
| MAGR3050 |  | 0.50 | 1.3 | 3.18 | 0.05 |
| MAGR3075 | | 0.75 | 2.5 | | |
| MAGR3100 | | 1.00 | 2.7 | | |
| MAGR3125 | | 1.25 | 2.7 | | |
| MAGR3150 | | 1.50 | 3.7 | | |
| MAGR3175 | | 1.75 | 3.7 | | |
| MAGR3200 | | 2.00 | 3.7 | | |
| MAGR3250 | | 2.50 | 3.7 | | |

SMALL TOOLS



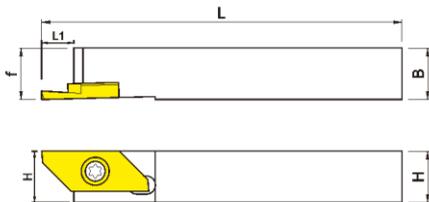
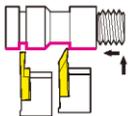
Right-hand shown

| Item code | Dimensions,mm | | | | | Insert | Screw | Wrench |
|-----------------|---------------|----|-----|-----|----|-----------|----------|--------|
| | H | B | L | L1 | f | | | |
| CTAHR-1212K-120 | 12 | 12 | 125 | 5.5 | 12 | CTAT..... | BFTX4010 | TRX15 |
| CTAHR-1616K-120 | 16 | 16 | | | 16 | | | |
| CTAHR-2020K-120 | 20 | 20 | | | 20 | | | |

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| Description | Insert Shape | Dimensions,mm | | | |
|-----------------|--------------|---------------|-----|-----|------|
| | | W3 | L3 | S | R |
| CTAT10120V5RN-B | | 1.0 | 6.7 | 2.5 | 0.05 |
| CTAT15120V5RN-B | | 1.5 | 6.7 | 2.5 | 0.05 |
| CTAT20120V5RN-B | | 2.0 | 6.7 | 2.5 | 0.05 |

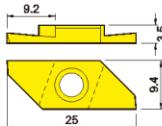
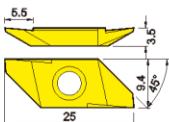
CTBHR



Right-hand shown

| Item code | Dimensions,mm | | | | | Insert | Screw | Wrench |
|-----------------|---------------|----|-----|-----|----|-----------------|-----------|------------|
| | H | B | L | L1 | f | | | |
| CTBHR-1212K-160 | 12 | 12 | 125 | 7.5 | 12 | BTBT604500R-B | BFTX4008 | TRX15 |
| CTBHR-1616K-160 | 16 | 16 | 125 | 7.5 | 16 | CTBT20160V5RR-B | | |
| CTBHR-2020K-160 | 20 | 20 | 125 | 7.5 | 20 | | | |

Insert Shape



Description

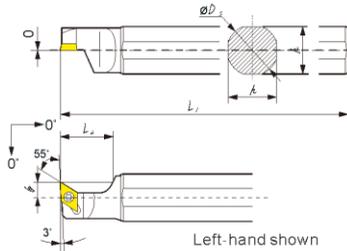
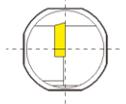
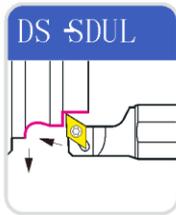
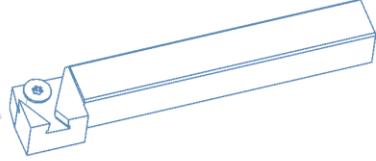
Insert Shape

Dimensions,mm

B3 L4 W R

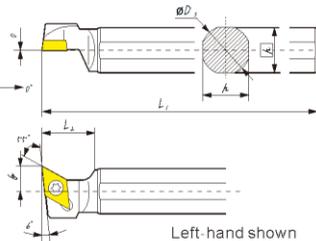
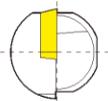
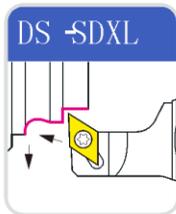
| | | | | | |
|-----------------|--|-----|-----|-----|------|
| BTBT604500R-B | | 60° | 4.5 | -- | 0 |
| BTBT604501R-B | | 60° | 4.5 | -- | 0.1 |
| BTBT606000R-B | | 60° | 6.0 | -- | 0 |
| CTBT15160V5RR-B | | -- | -- | 1.5 | 0.05 |
| CTBT20160V5RR-B | | -- | -- | 2.0 | 0.05 |

SMALL TOOLS



Left-hand shown

| Item code | Dimensions,mm | | | | | Insert | Screw | Wrench | | |
|---------------|---------------|----|-------|------|-------|-----------|----------|--------|----------|-------|
| | ϕD_s | h | L_1 | f | L_2 | | | | | |
| DS14F-SDUL07 | 14 | 14 | | 30 | 6.0 | ± 0.0 | BFTX2506 | TRX08 | | |
| DS14H-SDUL07 | 15.875 | 15 | 100 | | 6.0 | ± 0.0 | | | | |
| DS14F-SDUL07 | 14 | 15 | | 30 | 6.0 | ± 0.0 | | | | |
| DS14X-SDUL07 | 14 | 15 | | 20 | 6.0 | ± 0.0 | | | | |
| DS19X-SDUL07 | 19.05 | 18 | | 20 | 6.0 | ± 0.0 | | | | |
| DS20X-SDUL07S | 20 | 19 | | 25 | 6.0 | ± 0.0 | | | | |
| DS20X-SDUL07 | 20 | 19 | | 20 | 6.0 | ± 0.0 | | | | |
| DS22X-SDUL07 | 22 | 21 | | 20 | 6.0 | ± 0.0 | | | | |
| DS19X-SDUL11 | 19.05 | 18 | | 20 | 10.0 | ± 0.0 | | | BFTX4010 | TRX08 |
| DS20X-SDUL11S | 20 | 19 | | 25 | 10.0 | ± 0.0 | | | | |
| DS20X-SDUL11 | 20 | 19 | | 20 | 10.0 | ± 0.0 | | | | |
| DS22X-SDUL11 | 22 | 21 | | 20 | 10.0 | ± 0.0 | | | | |
| DS25X-SDUL11 | 25 | 24 | | 20 | 10.0 | ± 0.0 | | | | |
| DS25M-SDUL11 | 25.4 | 24 | | 25.0 | 10.0 | ± 0.0 | | | | |

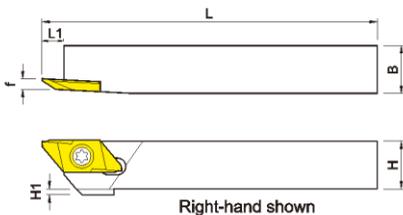
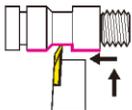


Left-hand shown

| Item code | Dimensions,mm | | | | | Insert | Screw | Wrench |
|---------------|---------------|----|-------|----|-------|-----------|----------|--------|
| | ϕD_s | h | L_1 | f | L_2 | | | |
| DS19X-SDXL11 | 19.05 | 18 | | 20 | 10.0 | ± 0.0 | BFTX4010 | TRX15 |
| DS20X-SDXL11S | 20 | 19 | | 25 | 10.0 | ± 0.0 | | |
| DS20X-SDXL11 | 20 | 19 | | 20 | 10.0 | ± 0.0 | | |
| DS25X-SDXL11 | 25 | 24 | | 20 | 10.0 | ± 0.0 | | |

小工具
SMALL TOOLS

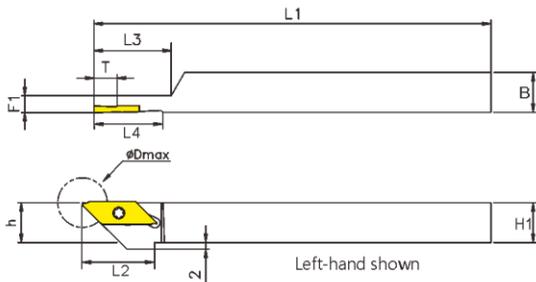
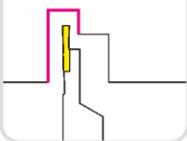
BTahr



| Item code | Dimensions,mm | | | | | | Insert | Screw | Wrench | |
|------------------|---------------|----|-----|-----|-----|----|-----------------|-----------------|--------|----------|
| | H | B | L | L1 | f | H1 | | | | |
| BTahr/L-1010K-50 | 10 | 10 | 125 | 5.5 | 3.5 | 2 | BTAT5528..R/L-B | BFTX4008 | TRX15 | |
| BTahr/L-1212K-50 | 12 | 12 | | | | | - | BTAT6035..R/L-B | | BFTX4010 |
| BTahr/L-1616K-50 | 16 | 16 | | | | | - | - | | - |

| Description | Insert Shape | Dimensions,mm | | | |
|---------------|--------------|---------------|------|-----|-----|
| | | B3 | L4 | S | R |
| BTAT552800R-B | | 55° | -2.8 | 2.5 | 0 |
| BTAT552801R-B | | 55° | -2.8 | 2.5 | 0.1 |
| BTAT603500R-B | | 60° | -3.5 | 2.5 | 0 |
| BTAT603501R-B | | 60° | -3.5 | 2.5 | 0.1 |

KTKFS



| Item code | Dimensions,mm | | | | | | | | | | Insert | Screw | Wrench |
|--------------------|-------------------|------|----|----------------|----------------|----------------|----------------|---|---|-----------|----------|-------|--------|
| | φD _{max} | H1=h | B | L ₁ | L ₂ | L ₃ | L ₄ | F | T | | | | |
| KTKFSR/L 1010K-12A | 6~12 | 10 | 10 | 120 | 15 | 22 | 26 | 5 | 6 | TKFS12R/L | BFTX4008 | TRX15 | |
| KTKFSR/L 1212F-12A | | 12 | 12 | 120 | - | | | | | | | | 26 |
| KTKFSR/L 1212K-12B | | 12 | 12 | 120 | 20 | | | | | | | | 26 |
| KTKFSR/L 1010K-16A | 14~16 | 10 | 10 | 120 | 20 | 22 | 30 | 6 | 8 | TKFS16R/L | BFTX4008 | TRX15 | |
| KTKFSR/L 1212F-16A | | 12 | 12 | 85 | - | | | | | | | | 26 |
| KTKFSR/L 1212K-16B | | 12 | 12 | 120 | - | | | | | | | | 26 |