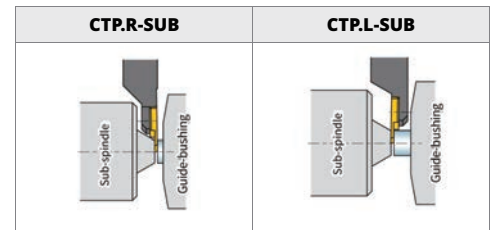
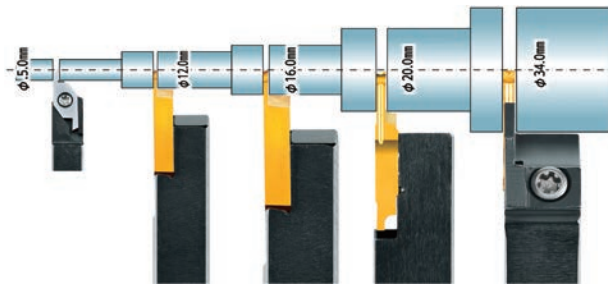





Cut-off

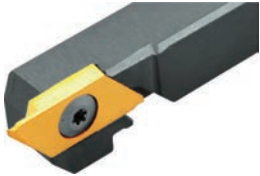
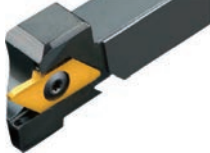
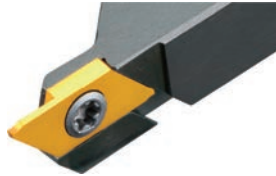
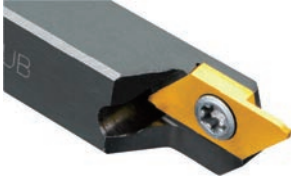
| | | |
|---------------------------------------|-------|------------|
| Product Lines | ..... | S02 |
| Recommended Cutting Conditions | ..... | S03 |
| General Information | ..... | S04 |
| CSV.. series | ..... | S06 |
| CTPS.. series | ..... | S09 |
| CTP.. series | ..... | S11 |
| CTPA.. series | ..... | S19 |
| CTPW.. series | ..... | S24 |
| CTV-S.. series | ..... | S26 |
| CTDP.. series | ..... | S28 |
| CTWP.. series | ..... | S32 |
| CTV.. series | ..... | S34 |

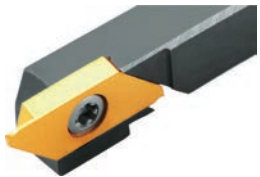

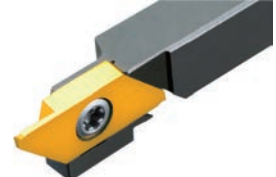







Product Lines



| Insert | CSVC →S8 | CTPS →S9 | CTPS-001 →S10 |
|-------------------|--|--|--|
| Holder | CSV-NC  →S6 | CTPS  →S9 | CTPSR-SUB  →S10 |
| Max. Cut-off Dia. | -φ5.0mm | -φ10.0mm | -φ4.0mm |
| Blade width | 0.6 - 1.5mm | 1.2 - 2.0mm | 0.7mm |

| Insert | CTP →S14 | | | |
|-------------------|---|--|--|---|
| Holder | CTP  →S12 | CTP-OH2/OH  →S11 Coolant through | CTPR-SUB-OH3/CTPR-SUB  →S13 | CTPL-SUB-OH3/CTPL-SUB  →S13 |
| Max. Cut-off Dia. | -φ12.0mm | | | |
| Blade width | 0.5 - 2.0mm | | | |

| Insert | CTPA →S22 | | | |
|-------------------|---|---|---|--|
| Holder | CTPA  →S20 | CTPA-OH2/OH  →S19 Coolant through | CTPAR-SUB  →S20 | CTPAL-SUB  →S21 |
| Max. Cut-off Dia. | -φ16.0mm | | | |
| Blade width | 0.7 - 3.0mm | | | |

| Insert | CTPW →S25 | CTDP →S31 | | GWPFM →S33 |
|-------------------|---|---|---|--|
| Holder | CTPW  →S24 | CTDP  →S30 | CTDP-OH3/OH2/OH  →S28 | CTWP CUT DUO EXTRA  →S32 |
| Max. Cut-off Dia. | -φ20.0mm | -φ34.0mm | -25.4mm | -φ42.0mm |
| Blade width | 2.5mm | 2.0,2.5mm | 2.0,2.5mm | 3.0mm |

| Insert | CTV-S →S27 | | | CTV →S36 | |
|-------------------|---|--|--|---|--|
| Holder | CTV-K2  →S26 | CTVN-K2  →S26 | CTV-S  →S33 | CTV-M(B)  →S34 | CTV-X  →S35 |
| Max. Cut-off Dia. | -φ20.0mm | | | -φ35.0mm | -φ45.0mm |
| Blade width | 2.2 - 2.5mm | | | 2.5,3.0mm | 3.0mm |

Cut-off

Recommended Cutting Conditions

CSV

| Work Material | | High Temperature Alloys | Titanium Alloys | Cobalt Chrome Alloys | Stainless Steels | | Alloy Steels | Carbon Steels | |
|-----------------------|------------|-------------------------------|-----------------|----------------------|----------------------------|-------------------|------------------|---------------|--|
| Common Name | | Inconel Hastelloy MP35N | Ti-6Al-4V | ASTM F-75 | SUS304 SUS316 17-4PH | SUS303 SUS430F | SCr420 SCM435 | S10C S45C | |
| Grade | 1st choice | DM4 / DT4 | | | | | VM1 | | |
| | 2nd choice | VM1 | | | | | DM4 / DT4 | | |
| Cutting Speed (m/min) | | 30 50 70 | | | 30 60 90 | | | | |
| Feed Rate (mm/rev) | | 0.01 0.02 0.03 | | | 0.01 0.03 0.05 | | | | |







CTP / CTPA / CTPS / CTPW

| Work Material | | High Temperature Alloys | Titanium Alloys | Cobalt Chrome Alloys | Stainless Steels | | Alloy Steels | Carbon Steels | |
|-----------------------|------------|-------------------------------|-----------------|----------------------|------------------|------------------|-------------------|------------------|--------------|
| Common Name | | Inconel Hastelloy MP35N | Ti-6Al-4V | ASTM F-75 | SUS304 | SUS316 17-4PH | SUS303 SUS430F | SCr420 SCM435 | S10C S45C |
| Grade | 1st choice | DM4 / DT4 | | | ST4 DM4 | DM4 DT4 | TM4 | QM3 | |
| | 2nd choice | TM4 | | | QM3 / VM1 | | QM3 | TM4 / DM4 / DT4 | |
| Cutting Speed (m/min) | | 30 50 70 | | | 30 60 90 | | | | |
| Feed Rate (mm/rev) | | 0.02 0.03 0.05 | | | 0.02 0.04 0.06 | | | | |

CTDP / CTWP / CTV

| Work Material | | High Temperature Alloys | Titanium Alloys | Cobalt Chrome Alloys | Stainless Steels | | Alloy Steels | Carbon Steels | |
|-----------------------|------------|-------------------------------|-----------------|----------------------|------------------|------------------|-------------------|------------------|--------------|
| Common Name | | Inconel Hastelloy MP35N | Ti-6Al-4V | ASTM F-75 | SUS304 | SUS316 17-4PH | SUS303 SUS430F | SCr420 SCM435 | S10C S45C |
| Grade | 1st choice | DT4 | | | ST4 DM4 | DM4 DT4 | TM4 | QM3 | |
| | 2nd choice | TM4 / QM3 | | | | | QM3 | TM4 / DM4 | |
| Cutting Speed (m/min) | | 30 50 70 | | | 30 60 90 | | | | |
| Feed Rate (mm/rev) | | 0.03 0.05 0.08 | | | 0.04 0.08 0.12 | | | | |

Recommendation for cut-off item

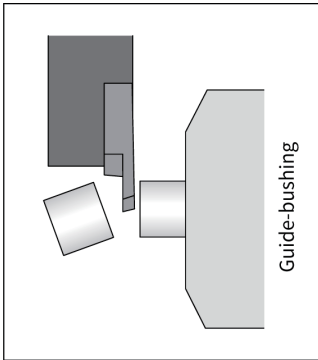
| Max. Cut-off Dia. | | | |
|-------------------|------|------|---|
| -φ5mm | CSV | →S6 |  |
| φ5 - φ12mm | CTP | →S11 |  |
| φ12 - φ16mm | CTPA | →S19 |  |
| | CTDP | →S28 |  |
| φ16 - φ34mm | CTDP | →S28 |  |
| φ34mm- | CTWP | →S32 |  |

General Information

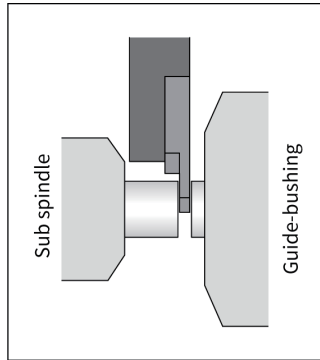
Cut-off Tool Selection Guide

Right-hand combination

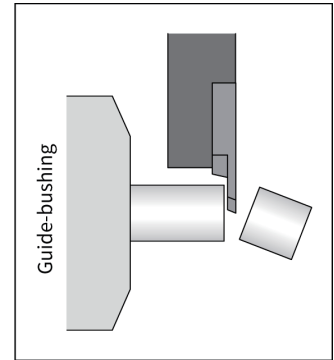
●FR/FRV/FRX



●FRN/FRS/FRNV/FRNX

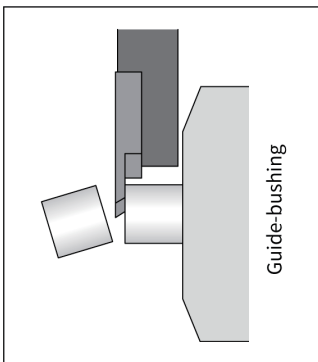


●FRK

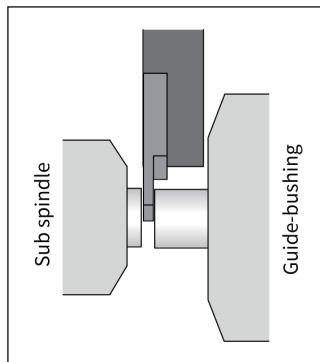


Left-hand combination

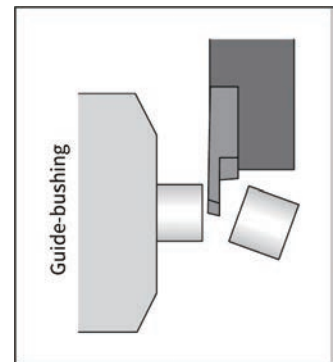
●FLK/FLKV



●FLN/FLNV



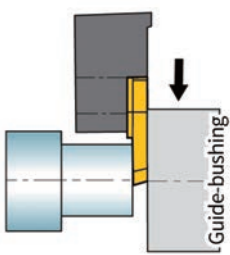
●FL/FLV



Cut-off
S

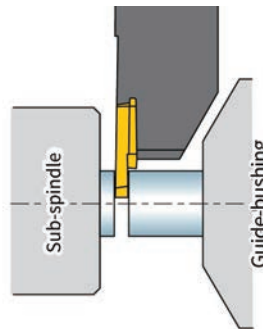
CTP/CTPA/CTPS/CTPW selection guide : Right hand? or Left hand?

Right-hand recommended



R-hand Toolholder using a R-hand insert with lead angle

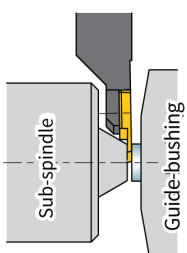
Left-hand recommended



L-hand Toolholder with a non-lead angle insert when the bar stock is held by sub-spindle

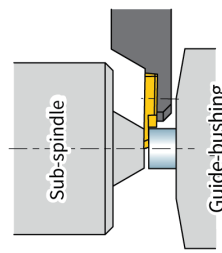
CTP/CTPA-SUB selection guide Right hand? or Left hand?

Right-hand recommended



R-hand Toolholder with R-hand insert with lead angle for longer parts or small diameter part. When part length is too short for sub-spindle to hold, use L-hand with slower speed.

Left-hand recommended



L-hand with L-hand insert with lead angle for short part

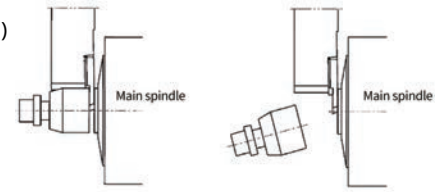
Notification about max cut-off diameter

※Max cut-off diameter in the catalog shows when the X end point location is 0.0.

①When cut-off

When X end point is past X0.0, the work material will fall away and no interference will occur. (Fig 1)

Fig 1



②When cut-off while sub-spindle holds the part (Using a neutral insert)

Max cut-off diameter will change depending on the X end point, so please confirm the max cut-off diameter based on X end point.

※Please refer to the formula below.

[Calculation formula]

Possible machining diameter = Max cut-off diameter - X end point
(Note value in the catalog) (Optional)

[Example]

When machining until X - 1.0 using CTP15FRN

$12.0 - 1.0 = 11.0$ (Max machinable diameter)

③When cut-off while sub-spindle holds the part (Using insert with lead angle)

Max cut-off diameter will change depending on X end point, so please confirm the max cut-off diameter based on "dimension LE" below (Fig.2) and X end point.

※Please refer to the formula below.

[Calculation formula]

Possible machining diameter = Max cut-off diameter - X end point
(Note value in the catalog)

[How to decide X end point]

X end point \geq dimension LE (Fig.2) \times 2

[Example]

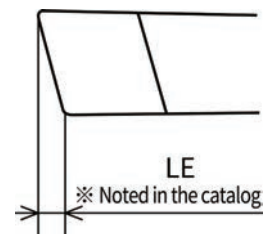
When using CTP15FR

X end point : $0.460 \times 2 = 0.920$

(dimension LE)

$12.0 - 0.920 = 11.08$ (Max machinable diameter)

Fig 2

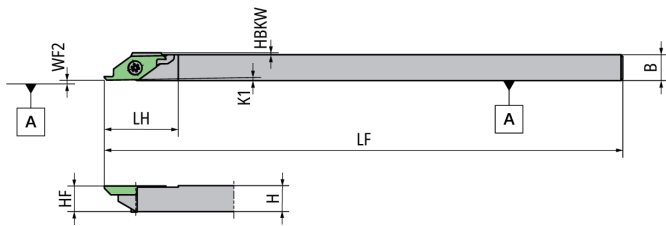


CTP type insert

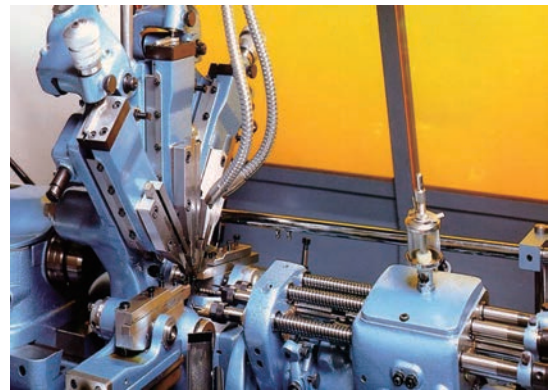
| | CTP | CTP-CX | CTP-TH | CTPX | CTP-SH |
|-----------------------|-----------------------------|--|-----------------------------|----------------------|--------------------|
| | | | | | |
| Features | Extensive lineup | Excellent chip control and straight-line stability | Strong edge with land style | Cost advantage style | For small diameter |
| Max. Cut-off Diameter | -φ12 | -φ12 | -φ12 | -φ12 | -φ5/-φ7 |
| Blade width (mm) | 0.5 / 0.7 / 1.0 / 1.5 / 2.0 | 1.0 / 1.3 / 1.5 | 1.5 / 2.0 | 1.5 / 2.0 | 0.5 / 1.0 |
| Corner radius | 0 / 0.03 / 0.05 | 0.05 / 0.2 | 0.05 | 0.05 | 0.03 / 0.05 |
| Hand | Right / Left | Right / Left | Right / Left | Right / Left | Right / Left |
| Chip-breaker | Yes / No (Mirror finish) | Yes (3D Molded) | Yes | Yes | Yes |

CSV.. series/Toolholder

CSV [91°] For Cam-style machine



● Diagram shows right-hand tool

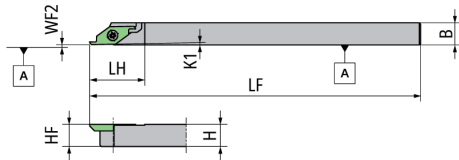


| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | H mm | HBKW mm | HF mm | K1 ° | LF mm | LH mm | WF2 mm | Insert Gage | |
|---------|-----------------|-------|------|--------------|---------|---------|------------|----------|---------|----------|----------|-----------|---------------------|---------------|
| 5303169 | CSVR07 | ● | R | 5 | 7 | 7 | 0.5 | 7 | 1 | 140 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5492962 | CSVR07GX | ● | R | 5 | 7 | 7 | 0.5 | 7 | 1 | 85 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5303151 | CSVR08 | ● | R | 5 | 8 | 8 | 0 | 8 | 1 | 140 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5492954 | CSVR08GX | ● | R | 5 | 8 | 8 | 0 | 8 | 1 | 85 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5303136 | CSVR095 | ● | R | 5 | 9.5 | 9.5 | 0 | 9.5 | 1 | 140 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5303144 | CSVR10 | ● | R | 5 | 10 | 10 | 0 | 10 | 1 | 140 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5327929 | CSVR12 | ● | R | 5 | 12 | 12 | 0 | 12 | 1 | 140 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5474770 | CSVR12GX | ● | R | 5 | 12 | 12 | 0 | 12 | 1 | 85 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5303193 | CSVL07 | ● | L | 5 | 7 | 7 | 0.5 | 7 | 1 | 140 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5303201 | CSVL08 | ● | L | 5 | 8 | 8 | 0 | 8 | 1 | 140 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |
| 5303177 | CSVL10 | ● | L | 5 | 10 | 10 | 0 | 10 | 1 | 140 | 20 | 0.1 | CSVF../CSVB../CSV.. | CSVG../CSVT.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-----------------|-------------|-----------------------------|
| CSVR07 | LRIS-2.5*7 | CLR-15S |
| CSVR07GX | LRIS-2.5*7 | CLR-15S |
| CSVR08 | LRIS-2.5*7 | CLR-15S |
| CSVR08GX | LRIS-2.5*7 | CLR-15S |
| CSVR095 | LRIS-2.5*7 | CLR-15S |
| CSVR10 | LRIS-2.5*7 | CLR-15S |
| CSVR12 | LRIS-2.5*7 | CLR-15S |
| CSVR12GX | LRIS-2.5*7 | CLR-15S |
| CSVL07 | LRIS-2.5*7 | CLR-15S |
| CSVL08 | LRIS-2.5*7 | CLR-15S |
| CSVL10 | LRIS-2.5*7 | CLR-15S |

CSV-NC [91°] For Gang-style machine



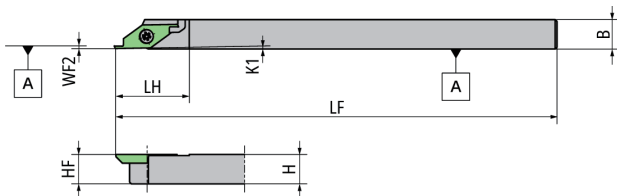
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | H mm | HF mm | K1 ° | LF mm | LH mm | WF2 mm | Insert Gage |
|---------|-------------|-------|------|--------------|---------|---------|----------|---------|----------|----------|-----------|---------------------------------------|
| 5514062 | CSVR08NC | ● | R | 5 | 8 | 8 | 8 | 1 | 120 | 20 | 0.1 | CSVF../CSVB../CSVC.. CSVG../CSVT.. |
| 5563010 | CSVR10GXNC | ● | R | 5 | 10 | 10 | 10 | 1 | 85 | 20 | 0.1 | CSVF../CSVB../CSVC.. CSVG../CSVT.. |
| 5477492 | CSVR10NC | ● | R | 5 | 10 | 10 | 10 | 1 | 120 | 20 | 0.1 | CSVF../CSVB../CSVC.. CSVG../CSVT.. |
| 5477534 | CSVR12NC | ● | R | 5 | 12 | 12 | 12 | 1 | 120 | 20 | 0.1 | CSVF../CSVB../CSVC.. CSVG../CSVT.. |
| 5514070 | CSVL08NC | ● | L | 5 | 8 | 8 | 8 | 1 | 120 | 20 | 0.1 | CSVF../CSVB../CSVC.. CSVG../CSVT.. |
| 5477542 | CSVL10NC | ● | L | 5 | 10 | 10 | 10 | 1 | 120 | 20 | 0.1 | CSVF../CSVB../CSVC.. CSVG../CSVT.. |
| 5477500 | CSVL12NC | ● | L | 5 | 12 | 12 | 12 | 1 | 120 | 20 | 0.1 | CSVF../CSVB../CSVC.. CSVG../CSVT.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CSVR08NC | LRIS-2.5*7 | CLR-15S |
| CSVR10GXNC | LRIS-2.5*7 | CLR-15S |
| CSVR10NC | LRIS-2.5*7 | CLR-15S |
| CSVR12NC | LRIS-2.5*7 | CLR-15S |
| CSVL08NC | LRIS-2.5*7 | CLR-15S |
| CSVL10NC | LRIS-2.5*7 | CLR-15S |
| CSVL12NC | LRIS-2.5*7 | CLR-15S |

CSV-NC-F [91°] For Gang-style machine



● Diagram shows right-hand tool

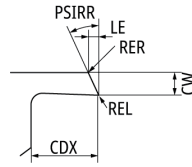
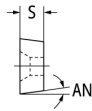
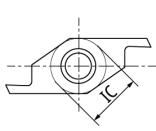
| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | H mm | HF mm | K1 ° | LF mm | LH mm | WF2 mm | Insert Gage |
|---------|-------------|-------|------|--------------|---------|---------|----------|---------|----------|----------|-----------|---------------------------------------|
| 5789615 | CSVR08NC-F | ● | R | 5 | 8 | 8 | 8 | 1 | 120 | 20 | 0-0.1 | CSVF../CSVB../CSVC.. CSVG../CSVT.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CSVR08NC-F | LRIS-2.5*7 | CLR-15S |

CSVC.. series/Inserts Carbide

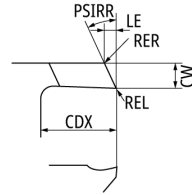
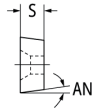
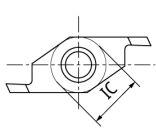
CSVC-V



● Diagram shows right-hand tool
All angles shown are obtained when insert is set in the holder.

| Item Number | Hand | Chip-breaker | CUTDIA | AN | CDX | CW | EPSR | IC | LE | PSIRR | REL | RER | S | Carbide PVD VM1 | |
|-------------|------|--------------|--------|----|-----|-----|------|----|------|-------|-----|-----|----|-----------------|---|
| | | | mm | ° | mm | mm | ° | mm | mm | ° | mm | mm | mm | | |
| CSVC11FRV06 | M | R | No | 3 | 7 | 2 | 0.6 | 35 | 6.35 | 0.31 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRV07 | M | R | No | 4 | 7 | 2.5 | 0.7 | 35 | 6.35 | 0.36 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRV08 | M | R | No | 4 | 7 | 2.5 | 0.8 | 35 | 6.35 | 0.41 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRV09 | M | R | No | 4 | 7 | 2.5 | 0.9 | 35 | 6.35 | 0.46 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRV10 | M | R | No | 5 | 7 | 3 | 1 | 35 | 6.35 | 0.51 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRV13 | M | R | No | 5 | 7 | 3 | 1.3 | 35 | 6.35 | 0.65 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRV15 | M | R | No | 5 | 7 | 3 | 1.5 | 35 | 6.35 | 0.74 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FLV07 | M | L | No | 4 | 7 | 2.5 | 0.7 | 35 | 6.35 | 0.36 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FLV08 | M | L | No | 4 | 7 | 2.5 | 0.8 | 35 | 6.35 | 0.41 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FLV10 | M | L | No | 5 | 7 | 3 | 1 | 35 | 6.35 | 0.51 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FLV13 | M | L | No | 5 | 7 | 3 | 1.3 | 35 | 6.35 | 0.65 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FLV15 | M | L | No | 5 | 7 | 3 | 1.5 | 35 | 6.35 | 0.74 | 25 | 0 | 0 | 2.38 | ● |

CSVC-VB

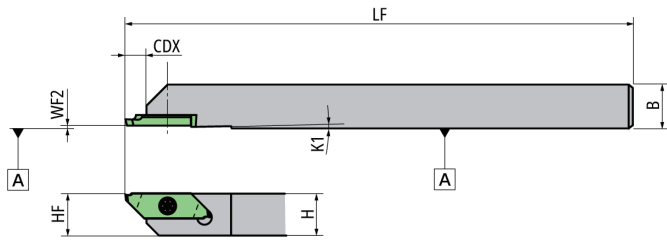


● Diagram shows right-hand tool
All angles shown are obtained when insert is set in the holder.

| Item Number | Hand | Chip-breaker | CUTDIA | AN | CDX | CW | EPSR | IC | LE | PSIRR | REL | RER | S | Carbide PVD VM1 | |
|--------------|------|--------------|--------|----|-----|-----|------|----|------|-------|-----|-----|----|-----------------|---|
| | | | mm | ° | mm | mm | ° | mm | mm | ° | mm | mm | mm | | |
| CSVC11FRVB06 | M | R | Yes | 3 | 7 | 2 | 0.6 | 35 | 6.35 | 0.31 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRVB07 | M | R | Yes | 4 | 7 | 2.5 | 0.7 | 35 | 6.35 | 0.36 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRVB08 | M | R | Yes | 4 | 7 | 2.5 | 0.8 | 35 | 6.35 | 0.41 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRVB09 | M | R | Yes | 4 | 7 | 2.5 | 0.9 | 35 | 6.35 | 0.46 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRVB10 | M | R | Yes | 5 | 7 | 3 | 1 | 35 | 6.35 | 0.51 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRVB13 | M | R | Yes | 5 | 7 | 3 | 1.3 | 35 | 6.35 | 0.65 | 25 | 0 | 0 | 2.38 | ● |
| CSVC11FRVB15 | M | R | Yes | 5 | 7 | 3 | 1.5 | 35 | 6.35 | 0.74 | 25 | 0 | 0 | 2.38 | ● |

CTPS.. series/Toolholder

CTPS



● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HF mm | K1 ° | LF mm | WF2 mm | Insert Gage | |
|---------|-------------|-------|------|--------------|---------|-----------|---------|----------|---------|----------|-----------|---------------|---------------|
| 5346572 | CTPSR10 | ● | R | 10 | 10 | 5 | 10 | 10 | 1 | 120 | 0 | TBPS../CTPS.. | GTPS../TTPS.. |
| 5397187 | CTPSR12 | ● | R | 10 | 12 | 5 | 12 | 12 | 1 | 120 | 0 | TBPS../CTPS.. | GTPS../TTPS.. |

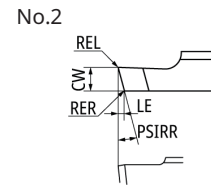
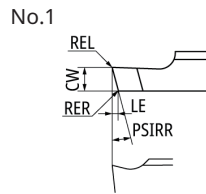
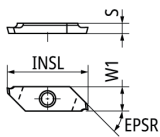
Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CTPSR10 | LRIS-2.5*7 | CLR-15S |
| CTPSR12 | LRIS-2.5*7 | CLR-15S |



CTPS.. series/Inserts Carbide

CTPS-FR

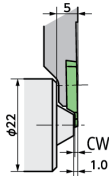
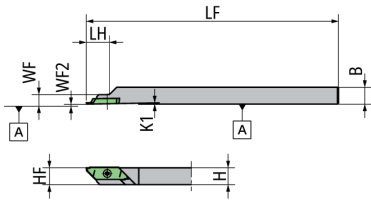


● Diagram shows right-hand tool
All angles shown are obtained when insert is set in the holder.

| Figure | Item Number | Hand | Chip-breaker | CUTDIA mm | CW mm | EPSR ° | INSL mm | LE mm | PSIRR ° | REL mm | RER mm | S mm | W1 mm | Carbide PVD | |
|--------|-------------|------|--------------|--------------|----------|-----------|------------|----------|------------|-----------|-----------|---------|----------|-------------|-----|
| | | | | | | | | | | | | | | VM1 | ZM3 |
| 1 | CTPS12FR | R | Yes | 4 | 1.2 | 45 | 20 | 0.37 | 16 | 0.05 | 0.05 | 2.5 | 6 | ● | ● |
| 1 | CTPS15FR | R | Yes | 5 | 1.5 | 45 | 20 | 0.46 | 16 | 0.05 | 0.05 | 2.5 | 6 | ● | ● |
| 1 | CTPS18FR | R | Yes | 8.5 | 1.8 | 45 | 20 | 0.55 | 16 | 0.05 | 0.05 | 2.5 | 6 | ● | ● |
| 1 | CTPS20FR | R | Yes | 10 | 2 | 45 | 20 | 0.61 | 16 | 0.05 | 0.05 | 2.5 | 6 | ● | ● |
| 2 | CTPS12FRV | M | No | 4 | 1.2 | 45 | 20 | 0.47 | 20 | 0 | 0 | 2.5 | 6 | ● | ● |
| 2 | CTPS15FRV | M | No | 5 | 1.5 | 45 | 20 | 0.58 | 20 | 0 | 0 | 2.5 | 6 | ● | ● |
| 2 | CTPS18FRV | M | No | 8.5 | 1.8 | 45 | 20 | 0.7 | 20 | 0 | 0 | 2.5 | 6 | ● | ● |
| 2 | CTPS20FRV | M | No | 10 | 2 | 45 | 20 | 0.77 | 20 | 0 | 0 | 2.5 | 6 | ● | ● |

CTPS..001 series/Toolholder

CTPS-SUB for Sub-spindle



● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HF mm | K1 ° | LF mm | LH mm | WF mm | WF2 mm | Insert Gage |
|---------|---------------|-------|------|--------------|---------|-----------|---------|----------|---------|----------|----------|----------|-----------|-------------|
| 5486717 | CTPSR08-SUB04 | ● | R | 4 | 8 | 5 | 8 | 8 | 1 | 120 | 11 | 4.5 | 0 | CTPS..-001 |

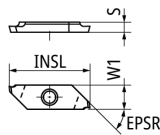
Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|---------------|--------------|-----------------------------|
| CTPSR08-SUB04 | LRIS-2.5*4.5 | CLR-15S |

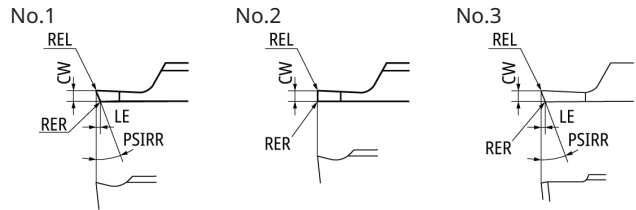
S Cut-off

CTPS..001 series/Inserts Carbide

CTPS-001



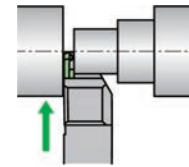
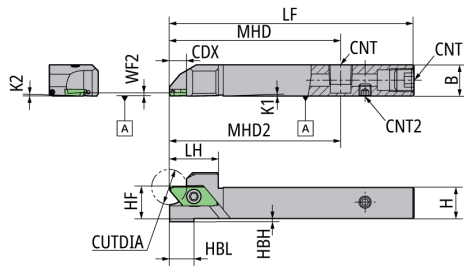
● Diagram shows right-hand tool
All angles shown are obtained when insert is set in the holder.



| Figure | Item Number | Hand | Chip-breaker | CUTDIA mm | CW mm | EPSR ° | INSL mm | LE mm | PSIR ° | PSIRR ° | REL mm | RER mm | S mm | W1 mm | Carbide PVD ZM3 |
|--------|---------------|------|--------------|--------------|----------|-----------|------------|----------|-----------|------------|-----------|-----------|---------|----------|-----------------------|
| 1 | CTPS07FR-001 | R | Yes | 4 | 0.7 | 45 | 20 | 0.23 | - | 16 | 0.05 | 0.05 | 2.5 | 6 | ● |
| 2 | CTPS07FRN-001 | R | Yes | 4 | 0.7 | 45 | 20 | - | 0 | - | 0.05 | 0.05 | 2.5 | 6 | ● |
| 3 | CTPS07FRV-001 | R | No | 4 | 0.7 | 45 | 20 | 0.28 | - | 20 | 0 | 0 | 2.5 | 6 | ● |

CTP.. series/Toolholder

CTP-OH2 Coolant through (direct connect compatible)



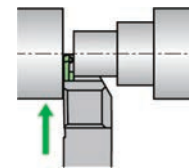
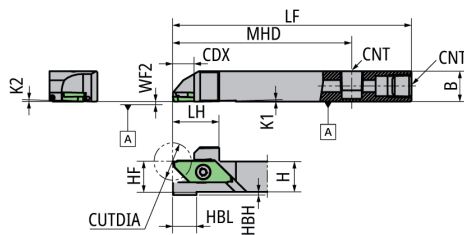
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | CNT | CNT2 | H mm | HBH mm | HBL mm | HF mm | K1 ° | K2 ° | LF mm | LH mm | MHD mm | MHD2 mm | WF2 mm | Insert Gage |
|---------|-------------|-------|------|--------------|---------|-----------|-------|------|---------|-----------|-----------|----------|---------|---------|----------|----------|-----------|------------|-----------|-------------|
| 5037874 | CTPR12H-OH2 | ● | R | 12 | 12 | 7 | Rc1/8 | M5 | 12 | 2 | 10 | 12 | 1 | 2 | 100 | 19.5 | 70 | 80 | 1.5 | CTP.. |
| 5037866 | CTPL12H-OH2 | ● | L | 12 | 12 | 7 | Rc1/8 | M5 | 12 | 2 | 10 | 12 | 1 | 2 | 100 | 19.5 | 70 | 80 | 1.5 | CTP.. |

Spare Parts

| Item Number | Clamp screw | Screw (for CNT) | Screw (for CNT2) | Wrench (for Clamp screw) | Wrench (for CNT2) |
|-------------|-------------|--------------------|---------------------|-----------------------------|----------------------|
| CTPR12H-OH2 | LRIS-4*12PW | SPR1/8 | SS0505SC | CLR-15S | LW-2.5 |
| CTPL12H-OH2 | LRIS-4*12PW | SPR1/8 | SS0505SC | CLR-15S | LW-2.5 |

CTP-OH Coolant through



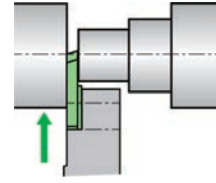
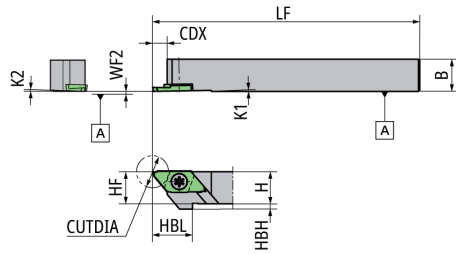
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | CNT | H mm | HBH mm | HBL mm | HF mm | K1 ° | K2 ° | LF mm | LH mm | MHD mm | WF2 mm | Insert Gage |
|---------|--------------|-------|------|--------------|---------|-----------|-------|---------|-----------|-----------|----------|---------|---------|----------|----------|-----------|-----------|-------------|
| 5921853 | CTPR1012H-OH | ● | R | 12 | 12 | 7 | M6*1 | 10 | 4 | 19 | 10 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTP.. |
| 5918651 | CTPR12H-OH | ● | R | 12 | 12 | 7 | Rc1/8 | 12 | 2 | 10 | 12 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTP.. |
| 5921879 | CTPR16H-OH | ● | R | 12 | 16 | 7 | Rc1/8 | 16 | - | - | 16 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTP.. |
| 5921861 | CTPL1012H-OH | ● | L | 12 | 12 | 7 | M6*1 | 10 | 4 | 19 | 10 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTP.. |
| 5918040 | CTPL12H-OH | ● | L | 12 | 12 | 7 | Rc1/8 | 12 | 2 | 10 | 12 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTP.. |
| 5921887 | CTPL16H-OH | ● | L | 12 | 16 | 7 | Rc1/8 | 16 | - | - | 16 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTP.. |

Spare Parts

| Item Number | Clamp screw | Screw (for CNT) | Wrench (for Clamp screw) | Wrench (for CNT) |
|--------------|-------------|--------------------|-----------------------------|---------------------|
| CTPR1012H-OH | LRIS-4*12PW | SS0605SC | CLR-15S | LW-3 |
| CTPR12H-OH | LRIS-4*12PW | SPR1/8 | CLR-15S | - |
| CTPR16H-OH | LRIS-4*12PW | SPR1/8 | CLR-15S | - |
| CTPL1012H-OH | LRIS-4*12PW | SS0605SC | CLR-15S | LW-3 |
| CTPL12H-OH | LRIS-4*12PW | SPR1/8 | CLR-15S | - |
| CTPL16H-OH | LRIS-4*12PW | SPR1/8 | CLR-15S | - |

CTP



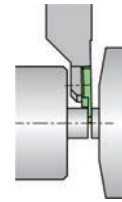
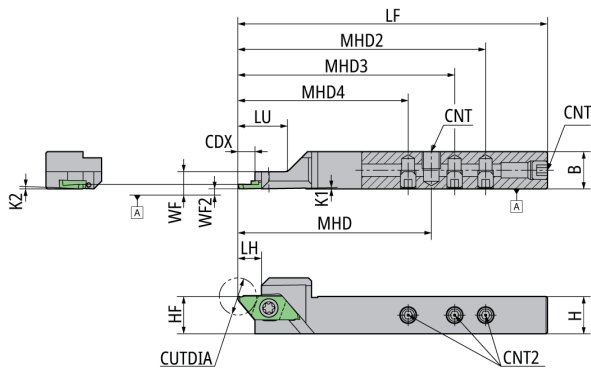
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HBH mm | HBL mm | HF mm | K1 ° | K2 ° | LF mm | WF2 mm | Insert Gage |
|---------|-------------|-------|------|--------------|---------|-----------|---------|-----------|-----------|----------|---------|---------|----------|-----------|-------------|
| 5131362 | CTPR08 | ● | R | 12 | 10 | 5.5 | 8 | 4 | 15 | 8 | 1 | 2 | 120 | 0 | CTP.. |
| 5089644 | CTPR10 | ● | R | 12 | 10 | 5.5 | 10 | 2 | 15 | 10 | 1 | 2 | 120 | 0 | CTP.. |
| 5873849 | CTPR10H | ● | R | 12 | 10 | 5.5 | 10 | 2 | 15 | 10 | 1 | 2 | 100 | 0 | CTP.. |
| 5089651 | CTPR12 | ● | R | 12 | 12 | 5.5 | 12 | - | - | 12 | 1 | 2 | 120 | 0 | CTP.. |
| 5459730 | CTPR12GX | ● | R | 12 | 12 | 5.5 | 12 | - | - | 12 | 1 | 2 | 85 | 0 | CTP.. |
| 5089677 | CTPR13 | ● | R | 12 | 13 | 5.5 | 13 | - | - | 13 | 1 | 2 | 120 | 0 | CTP.. |
| 5183496 | CTPR16 | ● | R | 12 | 16 | 5.5 | 16 | - | - | 16 | 1 | 2 | 120 | 0 | CTP.. |
| 5459755 | CTPR16H | ● | R | 12 | 16 | 5.5 | 16 | - | - | 16 | 1 | 2 | 100 | 0 | CTP.. |
| 5131354 | CTPL08 | ● | L | 12 | 10 | 5.5 | 8 | 4 | 15 | 8 | 1 | 2 | 120 | 0 | CTP.. |
| 5089636 | CTPL10 | ● | L | 12 | 10 | 5.5 | 10 | 2 | 15 | 10 | 1 | 2 | 120 | 0 | CTP.. |
| 5893458 | CTPL10H | ● | L | 12 | 10 | 5.5 | 10 | 2 | 15 | 10 | 1 | 2 | 100 | 0 | CTP.. |
| 5089669 | CTPL12 | ● | L | 12 | 12 | 5.5 | 12 | - | - | 12 | 1 | 2 | 120 | 0 | CTP.. |
| 5459748 | CTPL12GX | ● | L | 12 | 12 | 5.5 | 12 | - | - | 12 | 1 | 2 | 85 | 0 | CTP.. |
| 5089685 | CTPL13 | ● | L | 12 | 13 | 5.5 | 13 | - | - | 13 | 1 | 2 | 120 | 0 | CTP.. |
| 5183504 | CTPL16 | ● | L | 12 | 16 | 5.5 | 16 | - | - | 16 | 1 | 2 | 120 | 0 | CTP.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CTPR08 | LRIS-4*10PW | CLR-15S |
| CTPR10 | LRIS-4*10PW | CLR-15S |
| CTPR10H | LRIS-4*10PW | CLR-15S |
| CTPR12 | LRIS-4*12PW | CLR-15S |
| CTPR12GX | LRIS-4*12PW | CLR-15S |
| CTPR13 | LRIS-4*12PW | CLR-15S |
| CTPR16 | LRIS-4*12PW | CLR-15S |
| CTPR16H | LRIS-4*12PW | CLR-15S |
| CTPL08 | LRIS-4*10PW | CLR-15S |
| CTPL10 | LRIS-4*10PW | CLR-15S |
| CTPL10H | LRIS-4*10PW | CLR-15S |
| CTPL12 | LRIS-4*12PW | CLR-15S |
| CTPL12GX | LRIS-4*12PW | CLR-15S |
| CTPL13 | LRIS-4*12PW | CLR-15S |
| CTPL16 | LRIS-4*12PW | CLR-15S |

CTPR-SUB-OH3 Coolant through (direct connect compatible) for Sub-Spindle



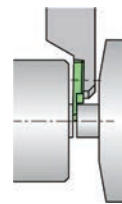
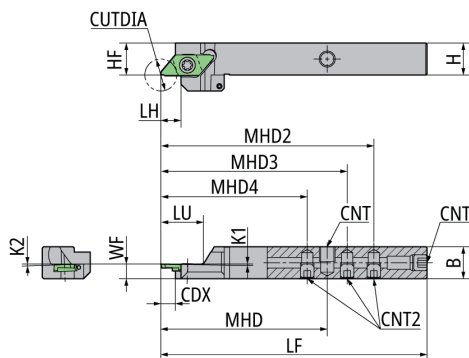
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | CNT | CNT2 | H mm | HF mm | K1 ° | K2 ° | LF mm | LH mm | LU mm | MHD mm | MHD2 mm | MHD3 mm | MHD4 mm | WF mm | WF2 mm | Insert Gage |
|---------|-----------------|--|------|--------------|---------|-----------|------|------|---------|----------|---------|---------|----------|----------|----------|-----------|------------|------------|------------|----------|-----------|-------------|
| 5117809 | CTPR12H-SUB-OH3 | ● ● | R | 12 | 12 | 5.5 | M6*1 | M5 | 12 | 12 | 1 | 2 | 100 | 7.6 | 16 | 62.5 | 80 | 70 | 55 | 5.5 | 0 | CTP.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-----------------|-------------|-----------------------------|
| CTPR12H-SUB-OH3 | LRIS-4*5 | LLR-25S |

CTPL-SUB-OH3 Coolant through (direct connect compatible) for Sub-spindle



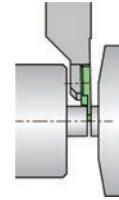
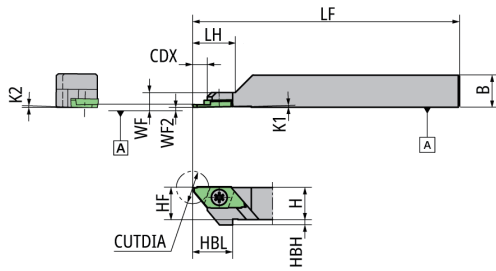
● Diagram shows left-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | CNT | CNT2 | H mm | HF mm | K1 ° | K2 ° | LF mm | LH mm | LU mm | MHD mm | MHD2 mm | MHD3 mm | MHD4 mm | WF mm | WF2 mm | Insert Gage |
|---------|-----------------|--|------|--------------|---------|-----------|------|------|---------|----------|---------|---------|----------|----------|----------|-----------|------------|------------|------------|----------|-----------|-------------|
| 5117783 | CTPL12H-SUB-OH3 | ● ● | L | 12 | 12 | 5.5 | M6*1 | M5 | 12 | 12 | 1 | 2 | 100 | 7.6 | 16 | 62.5 | 80 | 70 | 55 | 5.5 | 0 | CTP.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-----------------|-------------|-----------------------------|
| CTPL12H-SUB-OH3 | LRIS-4*5 | LLR-25S |

CTPR-SUB for Sub-Spindle



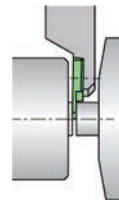
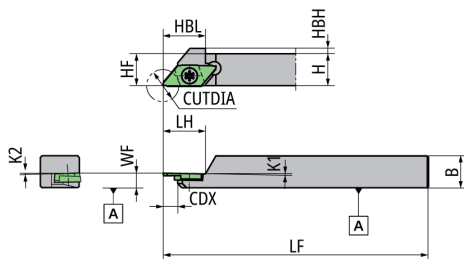
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HBH mm | HBL mm | HF mm | K1 ° | K2 ° | LF mm | LH mm | WF mm | WF2 mm | Insert Gage |
|---------|--------------|-------|------|--------------|---------|-----------|---------|-----------|-----------|----------|---------|---------|----------|----------|----------|-----------|-------------|
| 5607999 | CTPR08J-SUB | ● | R | 12 | 8 | 5.5 | 8 | 4 | 15 | 8 | 1 | 2 | 110 | 16 | 5.5 | 0 | CTP.. |
| 5571831 | CTPR08-SUB | ● | R | 12 | 8 | 5.5 | 8 | 4 | 15 | 8 | 1 | 2 | 120 | 16 | 5.5 | 0 | CTP.. |
| 5391610 | CTPR10F-SUB | ● | R | 12 | 10 | 5.5 | 10 | 2 | 15 | 10 | 1 | 2 | 80 | 16 | 5.5 | 0 | CTP.. |
| 5605282 | CTPR10KX-SUB | ● | R | 12 | 10 | 5.5 | 10 | 2 | 15 | 10 | 1 | 2 | 120 | 16 | 5.5 | 0 | CTP.. |
| 5474580 | CTPR12GX-SUB | ● | R | 12 | 12 | 5.5 | 12 | - | - | 12 | 1 | 2 | 85 | 16 | 5.5 | 0 | CTP.. |
| 5391628 | CTPR12-SUB | ● | R | 12 | 12 | 5.5 | 12 | - | - | 12 | 1 | 2 | 120 | 16 | 5.5 | 0 | CTP.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|--------------|-------------|-----------------------------|
| CTPR08J-SUB | LRIS-4*5 | LLR-25S |
| CTPR08-SUB | LRIS-4*5 | LLR-25S |
| CTPR10F-SUB | LRIS-4*5 | LLR-25S |
| CTPR10KX-SUB | LRIS-4*5 | LLR-25S |
| CTPR12GX-SUB | LRIS-4*5 | LLR-25S |
| CTPR12-SUB | LRIS-4*5 | LLR-25S |

CTPL-SUB for Sub-Spindle



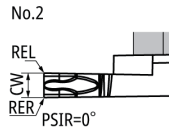
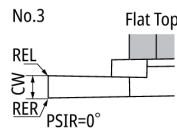
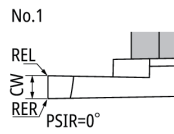
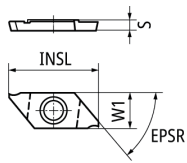
● Diagram shows left-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HBH mm | HBL mm | HF mm | K1 ° | K2 ° | LF mm | LH mm | WF mm | Insert Gage |
|---------|--------------|-------|------|--------------|---------|-----------|---------|-----------|-----------|----------|---------|---------|----------|----------|----------|-------------|
| 5608005 | CTPL08J-SUB | ● | L | 12 | 8 | 5.5 | 8 | 4 | 15 | 8 | 1 | 2 | 110 | 16 | 5.5 | CTP.. |
| 5570791 | CTPL08-SUB | ● | L | 12 | 8 | 5.5 | 8 | 4 | 15 | 8 | 1 | 2 | 120 | 16 | 5.5 | CTP.. |
| 5499389 | CTPL10GX-SUB | ● | L | 12 | 10 | 5.5 | 10 | 2 | 15 | 10 | 1 | 2 | 85 | 16 | 5.5 | CTP.. |
| 5482534 | CTPL12GX-SUB | ● | L | 12 | 12 | 5.5 | 12 | - | - | 12 | 1 | 2 | 85 | 16 | 5.5 | CTP.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|--------------|-------------|-----------------------------|
| CTPL08J-SUB | LRIS-4*5 | LLR-25S |
| CTPL08-SUB | LRIS-4*5 | LLR-25S |
| CTPL10GX-SUB | LRIS-4*5 | LLR-25S |
| CTPL12GX-SUB | LRIS-4*5 | LLR-25S |

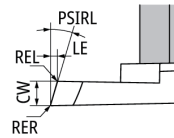
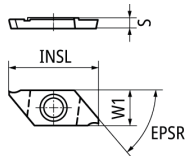
CTP-FRN



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

| Figure | Item Number | Hand | Chip-breaker | CUTDIA mm | CW mm | EPSR ° | INSL mm | PSIR ° | REL mm | RER mm | S mm | W1 mm | Carbide | | | | | | | PCD | | | | | | | | | |
|--------|---------------|------|--------------|--------------|----------|-----------|------------|-----------|-----------|-----------|---------|----------|---------|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|--|--|--|---|---|
| | | | | | | | | | | | | | DM4 | DT4 | QM3 | ST4 | TM4 | VM1 | ZM3 | KM1 | PD1 | | | | | | | | |
| 1 | CTP05FRN-SH | R | Yes | 5 | 0.5 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | | | | | | | | | | | | | | | |
| 1 | CTP10FRN | R | Yes | 12 | 1 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | ● | | | | | | | | | | | | | | | |
| 2 | CTP10FRN-CX | R | Yes | 12 | 1 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | ● | | | | ● | | | | | | | | | | | | |
| 1 | CTP10FRN-SH | R | Yes | 7 | 1 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | ● | | | | | | | | | | | | | | |
| 1 | CTP10FRN-TH | R | Yes | 12 | 1 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | | | ● | | | | | | | | | | | | |
| 1 | CTP13FRN | R | Yes | 12 | 1.3 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | ● | | | | | | | | | | | | | | |
| 2 | CTP13FRN02-CX | R | Yes | 12 | 1.3 | 50 | 20 | 0 | 0.2 | 0.2 | 2.5 | 8 | ● | | | | ● | | | | | | | | | | | | |
| 2 | CTP13FRN-CX | R | Yes | 12 | 1.3 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | ● | | | | ● | | | | | | | | | | | | |
| 1 | CTP15FRN | R | Yes | 12 | 1.5 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | | | | | | | ● | | ● | | | | | | |
| 2 | CTP15FRN02-CX | R | Yes | 12 | 1.5 | 50 | 20 | 0 | 0.2 | 0.2 | 2.5 | 8 | ● | | | | ● | | | | | | | | | | | | |
| 2 | CTP15FRN-CX | R | Yes | 12 | 1.5 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | ● | | | | ● | | | | | | | | | | | | |
| 1 | CTP15FRN-TH | R | Yes | 12 | 1.5 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | | | ● | | | | | | | | | | | | |
| 3 | CTP15FRNV | M | R | No | 12 | 1.5 | 50 | 20 | 0 | 0 | 0 | 2.5 | 8 | | | | | | | | | | | | | | | ● | |
| 1 | CTP15FRNX | R | Yes | 12 | 1.5 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | | | | | | | | | | | | | | | ● |
| 1 | CTP20FRN | R | Yes | 12 | 2 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | | | | | | | | ● | | ● | | | | | |
| 1 | CTP20FRN-TH | R | Yes | 12 | 2 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | | | | ● | | | | | | | | | | | |
| 3 | CTP20FRNV | M | R | No | 12 | 2 | 50 | 20 | 0 | 0 | 0 | 2.5 | 8 | | | | | | | | | | | | | | | ● | |
| 1 | CTP20FRNX | R | Yes | 12 | 2 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | | | | | | | | | | | | | | | ● |
| 1 | CTPX15FRN | R | Yes | 12 | 1.5 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | ● | | ● | | | | | | | | | | | | |
| 1 | CTPX20FRN | R | Yes | 12 | 2 | 50 | 20 | 0 | 0.05 | 0.05 | 2.5 | 8 | | | ● | | ● | | | | | | | | | | | | |

CTP-FRK

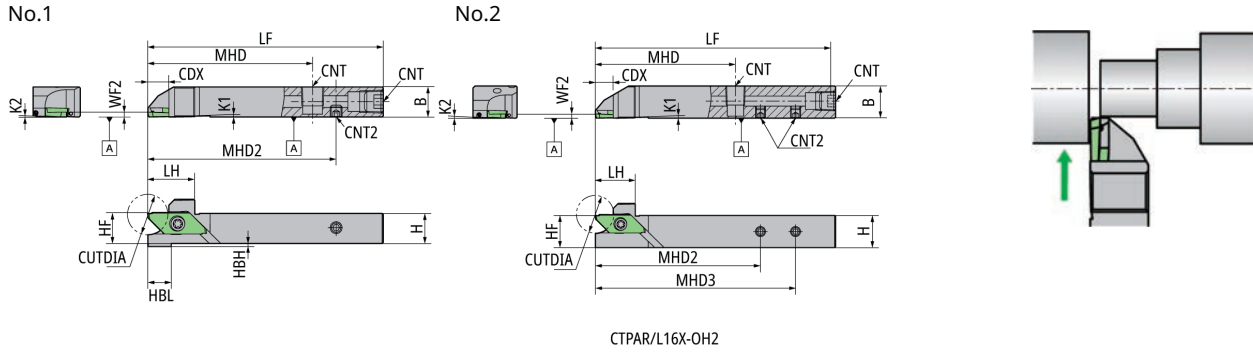


●All angles shown are obtained when insert is set in the holder.

| Item Number | Hand | Chip-breaker | CUTDIA mm | CW mm | EPSR ° | INSL mm | LE mm | PSIRL ° | REL mm | RER mm | S mm | W1 mm | Carbide | | | | | | | PCD | | | | | | | | | | | | | |
|-------------|------|--------------|--------------|----------|-----------|------------|----------|------------|-----------|-----------|---------|----------|---------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | DM4 | DT4 | QM3 | ST4 | TM4 | VM1 | ZM3 | KM1 | PD1 | | | | | | | | | | | | |
| CTP10FRK | R | Yes | 11 | 1 | 50 | 20 | 0.32 | 16 | 0.05 | 0.05 | 2.5 | 8 | | | | | | | | | | | | | | | | | | | | | |
| CTP13FRK | R | Yes | 12 | 1.3 | 50 | 20 | 0.4 | 16 | 0.05 | 0.05 | 2.5 | 8 | | ● | | | | | | | | | | | | | | | | | | | |
| CTP15FRK | R | Yes | 11 | 1.5 | 50 | 20 | 0.46 | 16 | 0.05 | 0.05 | 2.5 | 8 | | | | | | | | | | | | | | | | | | | | | |
| CTP20FRK | R | Yes | 11 | 2 | 50 | 20 | 0.61 | 16 | 0.05 | 0.05 | 2.5 | 8 | | | | | | | | | | | | | | | | | | | | | |

CTPA.. series/Toolholder

CTPA-OH2 Coolant through (direct connect compatible)



CTPAR/L16X-OH2

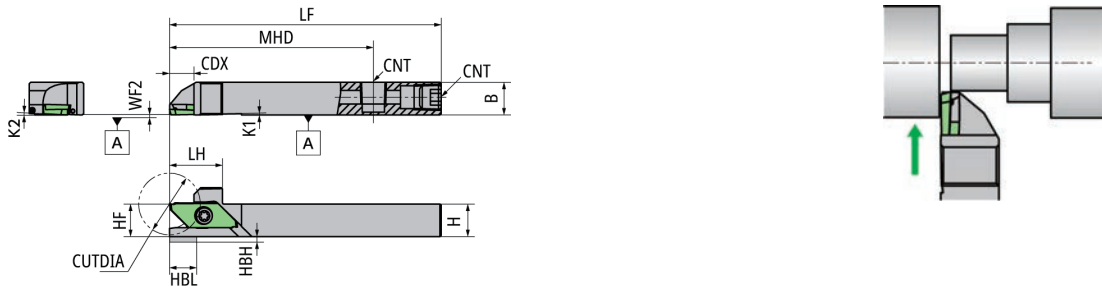
● Diagram shows right-hand tool

| Figure | EDP | Item Number | Stock | Hand | CUTDIA | DMAX | B | CDX | CNT | CNT2 | H | HBH | HBL | HF | K1 | K2 | LF | LH | MHD | MHD2 | MHD3 | WF2 | Insert | Gage | | | | | | | | | | | | | | | | | | | | | | |
|--------|---------|--------------|-------|------|--------|------|----|-----|-------|------|----|-----|-----|----|----|----|-----|------|-----|------|------|-----|--------|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | ° | ° | mm | mm | mm | mm | mm | mm | | |
| 1 | 5037932 | CTPAR12H-OH2 | ● | R | 16 | 16 | 12 | 9 | Rc1/8 | M5 | 12 | 2 | 10 | 12 | 1 | 2 | 100 | 19.5 | 70 | 80 | - | 2 | CTPA.. | TBPA.. | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5043872 | CTPAR16X-OH2 | ● | R | 16 | 16 | 16 | 9 | Rc1/8 | M5 | 16 | - | - | 16 | 1 | 2 | 120 | 19.5 | 70 | 82.5 | 100 | 2 | CTPA.. | TBPA.. | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5037924 | CTPAL12H-OH2 | ● | L | 16 | 16 | 12 | 9 | Rc1/8 | M5 | 12 | 2 | 10 | 12 | 1 | 2 | 100 | 19.5 | 70 | 80 | - | 2 | CTPA.. | TBPA.. | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5043864 | CTPAL16X-OH2 | ● | L | 16 | 16 | 16 | 9 | Rc1/8 | M5 | 16 | - | - | 16 | 1 | 2 | 120 | 19.5 | 70 | 82.5 | 100 | 2 | CTPA.. | TBPA.. | | | | | | | | | | | | | | | | | | | | | | |

Spare Parts

| Item Number | Clamp screw | Screw (for CNT) | Screw (for CNT2) | Wrench (for Clamp screw) | Wrench (for CNT2) |
|--------------|-------------|-----------------|------------------|--------------------------|-------------------|
| CTPAR12H-OH2 | LRIS-4*12PW | SPR1/8 | SS0505SC | CLR-15S | LW-2.5 |
| CTPAR16X-OH2 | LRIS-4*12PW | SPR1/8 | SS0505SC | CLR-15S | LW-2.5 |
| CTPAL12H-OH2 | LRIS-4*12PW | SPR1/8 | SS0505SC | CLR-15S | LW-2.5 |
| CTPAL16X-OH2 | LRIS-4*12PW | SPR1/8 | SS0505SC | CLR-15S | LW-2.5 |

CTPA-OH Coolant through



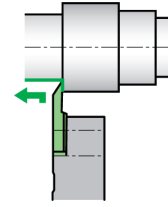
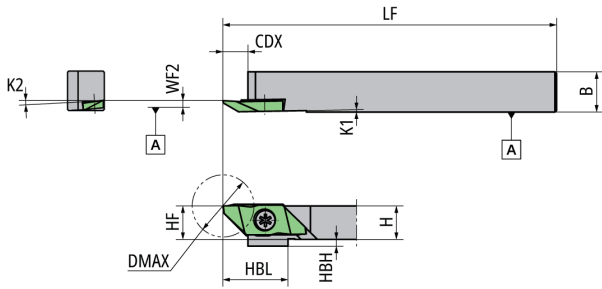
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA | DMAX | B | CDX | CNT | H | HBH | HBL | HF | K1 | K2 | LF | LH | MHD | WF2 | Insert | Gage | | | | | | | | | | | | | | | | | | | |
|---------|-------------|-------|------|--------|------|----|-----|-------|----|-----|-----|----|----|----|-----|------|-----|-----|--------|--------|----|----|----|----|----|----|----|----|----|----|----|---|---|----|----|----|----|--|--|
| | | | | | | | | | | | | | | | | | | | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | ° | ° | mm | mm | mm | mm | | |
| 5931522 | CTPAR12H-OH | ● | R | 16 | 16 | 12 | 9 | Rc1/8 | 12 | 2 | 10 | 12 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTPA.. | TBPA.. | | | | | | | | | | | | | | | | | | | |
| 5931548 | CTPAR16H-OH | ● | R | 16 | 16 | 16 | 9 | Rc1/8 | 16 | - | - | 16 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTPA.. | TBPA.. | | | | | | | | | | | | | | | | | | | |
| 5931530 | CTPAL12H-OH | ● | L | 16 | 16 | 12 | 9 | Rc1/8 | 12 | 2 | 10 | 12 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTPA.. | TBPA.. | | | | | | | | | | | | | | | | | | | |
| 5931563 | CTPAL16H-OH | ● | L | 16 | 16 | 16 | 9 | Rc1/8 | 16 | - | - | 16 | 1 | 2 | 100 | 19.5 | 75 | 0 | CTPA.. | TBPA.. | | | | | | | | | | | | | | | | | | | |

Spare Parts

| Item Number | Clamp screw | Screw (for CNT) | Wrench (for Clamp screw) |
|-------------|-------------|-----------------|--------------------------|
| CTPAR12H-OH | LRIS-4*12PW | SPR1/8 | CLR-15S |
| CTPAR16H-OH | LRIS-4*12PW | SPR1/8 | CLR-15S |
| CTPAL12H-OH | LRIS-4*12PW | SPR1/8 | CLR-15S |
| CTPAL16H-OH | LRIS-4*12PW | SPR1/8 | CLR-15S |

CTPA



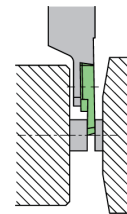
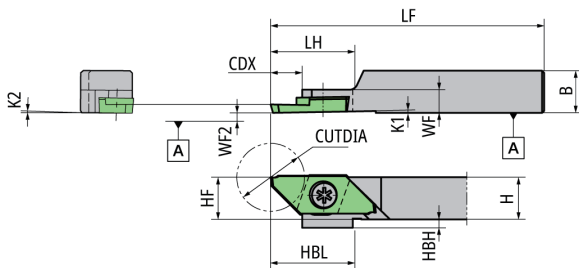
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HBH mm | HBL mm | HF mm | K1 ° | K2 ° | LF mm | WF2 mm | Insert Gage | |
|---------|-------------|-------|------|--------------|---------|-----------|---------|-----------|-----------|----------|---------|---------|----------|-----------|-------------|--------|
| 5199187 | CTPAR10 | ● | R | 16 | 10 | 7.5 | 10 | 2 | 19.5 | 10 | 1 | 2 | 120 | 0 | CTPA.. | TBPA.. |
| 5199195 | CTPAR12 | ● | R | 16 | 12 | 7.5 | 12 | - | - | 12 | 1 | 2 | 120 | 0 | CTPA.. | TBPA.. |
| 5016209 | CTPAR12GX | ● | R | 16 | 12 | 7.5 | 12 | - | - | 12 | 1 | 2 | 85 | 0 | CTPA.. | TBPA.. |
| 5199203 | CTPAR16 | ● | R | 16 | 16 | 7.5 | 16 | - | - | 16 | 1 | 2 | 120 | 0 | CTPA.. | TBPA.. |
| 5459540 | CTPAR20F | ● | R | 16 | 20 | 7.5 | 20 | - | - | 20 | 1 | 2 | 80 | 0 | CTPA.. | TBPA.. |
| 5199153 | CTPAL10 | ● | L | 16 | 10 | 7.5 | 10 | 2 | 19.5 | 10 | 1 | 2 | 120 | 0 | CTPA.. | TBPA.. |
| 5199161 | CTPAL12 | ● | L | 16 | 12 | 7.5 | 12 | - | - | 12 | 1 | 2 | 120 | 0 | CTPA.. | TBPA.. |
| 5016217 | CTPAL12GX | ● | L | 16 | 12 | 7.5 | 12 | - | - | 12 | 1 | 2 | 85 | 0 | CTPA.. | TBPA.. |
| 5199179 | CTPAL16 | ● | L | 16 | 16 | 7.5 | 16 | - | - | 16 | 1 | 2 | 120 | 0 | CTPA.. | TBPA.. |
| 5459557 | CTPAL20F | ● | L | 16 | 20 | 7.5 | 20 | - | - | 20 | 1 | 2 | 80 | 0 | CTPA.. | TBPA.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CTPAR10 | LRIS-4*10PW | CLR-15S |
| CTPAR12 | LRIS-4*12PW | CLR-15S |
| CTPAR12GX | LRIS-4*12PW | CLR-15S |
| CTPAR16 | LRIS-4*12PW | CLR-15S |
| CTPAR20F | LRIS-4*10 | LLR-25S |
| CTPAL10 | LRIS-4*10PW | CLR-15S |
| CTPAL12 | LRIS-4*12PW | CLR-15S |
| CTPAL12GX | LRIS-4*12PW | CLR-15S |
| CTPAL16 | LRIS-4*12PW | CLR-15S |
| CTPAL20F | LRIS-4*10 | LLR-25S |

CTPAR-SUB for Sub-Spindle



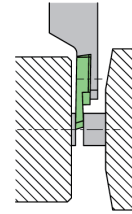
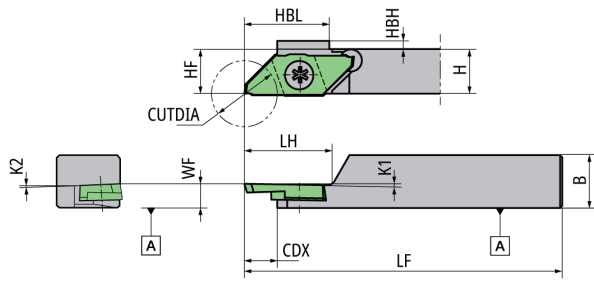
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HBH mm | HBL mm | HF mm | K1 ° | K2 ° | LF mm | LH mm | WF mm | WF2 mm | Insert Gage |
|---------|---------------|-------|------|--------------|---------|-----------|---------|-----------|-----------|----------|---------|---------|----------|----------|----------|-----------|-------------|
| 5600770 | CTPAR10GX-SUB | ● | R | 16 | 10 | 7.5 | 10 | 2 | 19.5 | 10 | 1 | 2 | 85 | 20 | 5.5 | 0 | CTPA.. |
| 5454681 | CTPAR12GX-SUB | ● | R | 16 | 12 | 7.5 | 12 | - | - | 12 | 1 | 2 | 85 | 20 | 5.5 | 0 | CTPA.. |
| 5570676 | CTPAR12KX-SUB | ● | R | 16 | 12 | 7.5 | 12 | - | - | 12 | 1 | 2 | 120 | 20 | 5.5 | 0 | CTPA.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|---------------|-------------|-----------------------------|
| CTPAR10GX-SUB | LRIS-4*5 | LLR-25S |
| CTPAR12GX-SUB | LRIS-4*5 | LLR-25S |
| CTPAR12KX-SUB | LRIS-4*5 | LLR-25S |

CTPAL-SUB for Sub-Spindle



● Diagram shows left-hand tool

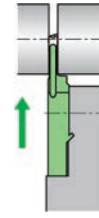
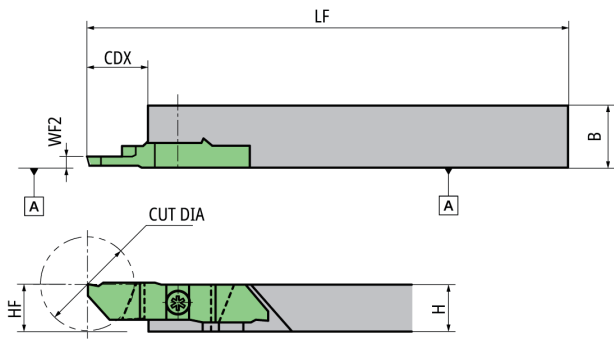
| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HBH mm | HBL mm | HF mm | K1 ° | K2 ° | LF mm | LH mm | WF mm | Insert Gage |
|---------|---------------|-------|------|--------------|---------|-----------|---------|-----------|-----------|----------|---------|---------|----------|----------|----------|-------------|
| 5505904 | CTPAL10GX-SUB | ● | L | 16 | 10 | 7.5 | 10 | 2 | 19.5 | 10 | 1 | 2 | 85 | 20 | 5.5 | CTPA.. |
| 5454699 | CTPAL12GX-SUB | ● | L | 16 | 12 | 7.5 | 12 | - | - | 12 | 1 | 2 | 85 | 20 | 5.5 | CTPA.. |
| 5570684 | CTPAL12KX-SUB | ● | L | 16 | 12 | 7.5 | 12 | - | - | 12 | 1 | 2 | 120 | 20 | 5.5 | CTPA.. |
| 5604871 | CTPAL16GX-SUB | ● | L | 16 | 16 | 7.5 | 16 | - | - | 16 | 1 | 2 | 85 | 28 | 5.5 | CTPA.. |
| 5981659 | CTPAL16KX-SUB | ● | L | 16 | 16 | 7.5 | 16 | - | - | 16 | 1 | 2 | 120 | 28 | 5.5 | CTPA.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|---------------|-------------|-----------------------------|
| CTPAL10GX-SUB | LRIS-4*5 | LLR-25S |
| CTPAL12GX-SUB | LRIS-4*5 | LLR-25S |
| CTPAL12KX-SUB | LRIS-4*5 | LLR-25S |
| CTPAL16GX-SUB | LRIS-4*5 | LLR-25S |
| CTPAL16KX-SUB | LRIS-4*5 | LLR-25S |

CTPW.. series/Toolholder

CTPW



● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HF mm | LF mm | WF2 mm | Insert Gage |
|---------|-------------|-------|------|--------------|---------|-----------|---------|----------|----------|-----------|-------------|
| 5443593 | CTPWR10 | ● | R | 20 | 16 | 15 | 10 | 9.95 | 120 | 0.6 | CTPW.. |
| 5443601 | CTPWR12 | ● | R | 20 | 16 | 15 | 12 | 11.95 | 120 | 0.6 | CTPW.. |
| 5443627 | CTPWR16 | ● | R | 20 | 16 | 15 | 16 | 15.95 | 120 | 0.6 | CTPW.. |
| 5443635 | CTPWR20 | ● | R | 20 | 20 | 15 | 20 | 19.95 | 120 | 0.6 | CTPW.. |
| 5487004 | CTPWL10A | ● | L | 20 | 12 | 15 | 10 | 9.95 | 120 | 0.6 | CTPW.. |
| 5488150 | CTPWL12A | ● | L | 20 | 12 | 15 | 12 | 11.95 | 120 | 0.6 | CTPW.. |
| 5486980 | CTPWL16 | ● | L | 20 | 16 | 15 | 16 | 15.95 | 120 | 0.6 | CTPW.. |
| 5486998 | CTPWL20 | ● | L | 20 | 20 | 15 | 20 | 19.95 | 120 | 0.6 | CTPW.. |

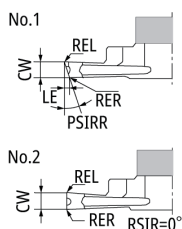
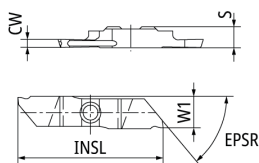
Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CTPWR10 | LRIS-4*10 | LLR-25S |
| CTPWR12 | LRIS-4*10 | LLR-25S |
| CTPWR16 | LRIS-4*10 | LLR-25S |
| CTPWR20 | LRIS-4*10 | LLR-25S |
| CTPWL10A | LRIS-4*10 | LLR-25S |
| CTPWL12A | LRIS-4*10 | LLR-25S |
| CTPWL16 | LRIS-4*10 | LLR-25S |
| CTPWL20 | LRIS-4*10 | LLR-25S |

S
Cut-off

CTPW.. series/Inserts Carbide Right-Hand

CTPW25-R

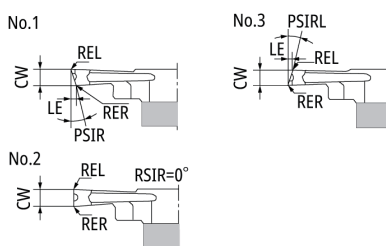
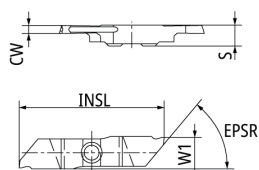


●All angles shown are obtained when insert is set in the holder.

| Figure | Item Number | Hand | Chip-breaker | CUTDIA | CW | EPSR | INSL | LE | PSIR | PSIRL | PSIRR | REL | RER | S | W1 | Carbide |
|--------|-------------|------|--------------|--------|-----|------|------|------|------|-------|-------|------|------|-----|-----|---------|
| | | | | | | | | | | | | | | | | PVD |
| | | | | | | | | | | | | | | | | ZM3 |
| 1 | CTPW25FR | R | Yes | 20 | 2.5 | 50 | 45 | 0.81 | - | - | 17 | 0.2 | 0.05 | 6.5 | 9.7 | ● |
| 1 | CTPW25FRP | M R | No | 20 | 2.5 | 50 | 45 | 0.81 | - | 17 | - | 0.2 | 0.05 | 6.5 | 9.7 | ● |
| 2 | CTPW25FRN | R | Yes | 20 | 2.5 | 50 | 45 | - | 0 | - | - | 0.05 | 0.05 | 6.5 | 9.7 | ● |
| 2 | CTPW25FRNV | M R | No | 20 | 2.5 | 50 | 45 | - | 0 | - | - | 0 | 0 | 6.5 | 9.7 | ● |

CTPW.. series/Inserts Carbide Left-Hand

CTPW25-L



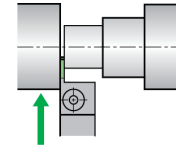
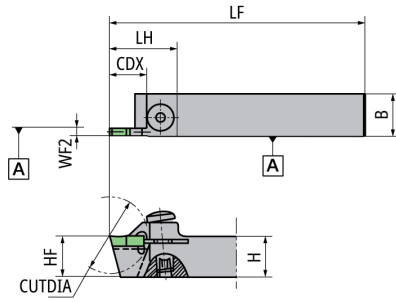
●All angles shown are obtained when insert is set in the holder.

| Figure | Item Number | Hand | Chip-breaker | CUTDIA | CW | EPSR | INSL | LE | PSIR | PSIRL | PSIRR | REL | RER | S | W1 | Carbide |
|--------|-------------|------|--------------|--------|-----|------|------|------|------|-------|-------|------|------|-----|-----|---------|
| | | | | | | | | | | | | | | | | PVD |
| | | | | | | | | | | | | | | | | ZM3 |
| 1 | CTPW25FLK | L | Yes | 20 | 2.5 | 50 | 45 | 0.81 | - | - | 17 | 0.2 | 0.05 | 6.5 | 9.7 | ● |
| 2 | CTPW25FLN | L | Yes | 20 | 2.5 | 50 | 45 | - | 0 | - | - | 0.05 | 0.05 | 6.5 | 9.7 | ● |
| 2 | CTPW25FLNV | M L | No | 20 | 2.5 | 50 | 45 | - | 0 | - | - | 0 | 0 | 6.5 | 9.7 | ● |
| 3 | CTPW25FL | L | Yes | 20 | 2.5 | 50 | 45 | 0.81 | - | 17 | - | 0.2 | 0.05 | 6.5 | 9.7 | ● |
| 3 | CTPW25FLP | M L | No | 20 | 2.5 | 50 | 45 | 0.81 | - | - | 17 | 0.2 | 0.05 | 6.5 | 9.7 | ● |



CTV-S.. series/Toolholder

CTV-K2



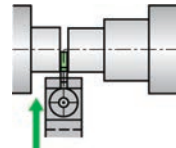
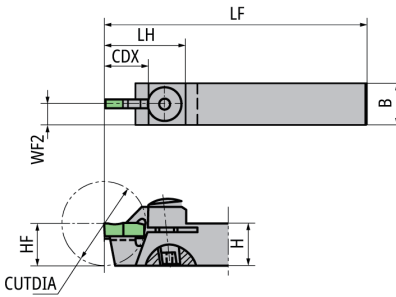
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HF mm | LF mm | LH mm | WF2 mm | Insert Gage |
|---------|-------------|-------|------|--------------|---------|-----------|---------|----------|----------|----------|-----------|-------------|
| 5111919 | CTVR10K2 | ● | R | 20 | 10 | 11 | 10 | 10 | 120 | 20 | 0 | CTV..S |
| 5111950 | CTVR12K2 | ● | R | 20 | 12 | 11 | 12 | 12 | 120 | 20 | 0 | CTV..S |
| 5111927 | CTVL10K2 | ● | L | 20 | 10 | 11 | 10 | 10 | 120 | 20 | 0 | CTV..S |
| 5459763 | CTVL12GX2 | ● | L | 20 | 12 | 11 | 12 | 12 | 85 | 20 | 0 | CTV..S |
| 5111935 | CTVL12K2 | ● | L | 20 | 12 | 11 | 12 | 12 | 120 | 20 | 0 | CTV..S |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CTVR10K2 | AOS-5*16 | LW-2.5S |
| CTVR12K2 | AOS-5*16 | LW-2.5S |
| CTVL10K2 | AOS-5*16 | LW-2.5S |
| CTVL12GX2 | AOS-5*16 | LW-2.5S |
| CTVL12K2 | AOS-5*16 | LW-2.5S |

CTVN-K2



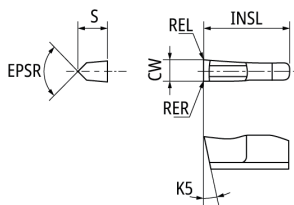
| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | H mm | HF mm | LF mm | LH mm | WF2 mm | Insert Gage |
|---------|-------------|-------|------|--------------|---------|-----------|---------|----------|----------|----------|-----------|-------------|
| 5208236 | CTVN10K2 | ● | N | 20 | 10 | 11 | 10 | 10 | 120 | 19.5 | 5 | CTV..S |
| 5208244 | CTVN12K2 | ● | N | 20 | 12 | 11 | 12 | 12 | 120 | 19.5 | 6 | CTV..S |

Spare Parts

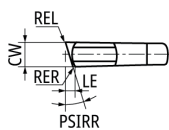
| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CTVN10K2 | AOS-5*16 | LW-2.5S |
| CTVN12K2 | AOS-5*16 | LW-2.5S |

CTV-S.. series/Inserts Carbide

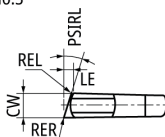
CTV-S



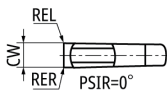
No.1



No.3



No.2

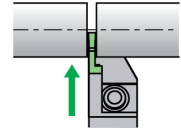
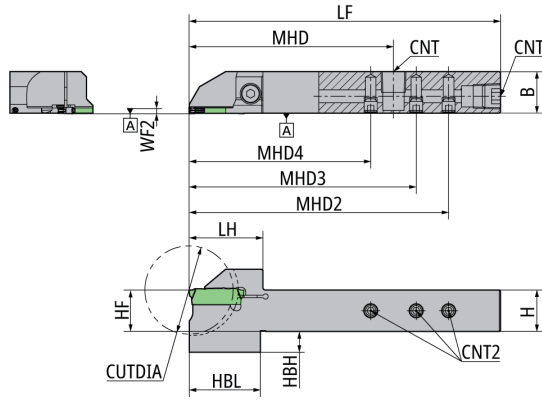


| Figure | Item Number | Hand | Chip-breaker | CW | EPSR | INSL | K5 | LE | PSIR | PSIRL | PSIRR | REL | RER | S | Carbide |
|--------|-------------|------|--------------|-----|------|------|----|------|------|-------|-------|------|------|----|------------|
| | | | | mm | ° | mm | ° | mm | ° | ° | ° | mm | mm | mm | PVD ZM3 |
| 1 | CTV22R05S | R | Yes | 2.2 | 90 | 10 | 12 | 0.74 | - | - | 17 | 0.05 | 0.05 | 4 | ● |
| 1 | CTV22R10S | R | Yes | 2.2 | 90 | 10 | 12 | 0.74 | - | - | 17 | 0.1 | 0.1 | 4 | ● |
| 1 | CTV25R05S | R | Yes | 2.5 | 90 | 10 | 12 | 0.83 | - | - | 17 | 0.05 | 0.05 | 4 | ● |
| 1 | CTV25R10S | R | Yes | 2.5 | 90 | 10 | 12 | 0.83 | - | - | 17 | 0.1 | 0.1 | 4 | ● |
| 2 | CTV22N05S | N | Yes | 2.2 | 90 | 10 | 12 | - | 0 | - | - | 0.05 | 0.05 | 4 | ● |
| 2 | CTV22N10S | N | Yes | 2.2 | 90 | 10 | 12 | - | 0 | - | - | 0.1 | 0.1 | 4 | ● |
| 2 | CTV25N05S | N | Yes | 2.5 | 90 | 10 | 12 | - | 0 | - | - | 0.05 | 0.05 | 4 | ● |
| 2 | CTV25N10S | N | Yes | 2.5 | 90 | 10 | 12 | - | 0 | - | - | 0.1 | 0.1 | 4 | ● |
| 3 | CTV22L05S | L | Yes | 2.2 | 90 | 10 | 12 | 0.74 | - | 17 | - | 0.05 | 0.05 | 4 | ● |
| 3 | CTV22L10S | L | Yes | 2.2 | 90 | 10 | 12 | 0.74 | - | 17 | - | 0.1 | 0.1 | 4 | ● |
| 3 | CTV25L05S | L | Yes | 2.5 | 90 | 10 | 12 | 0.83 | - | 17 | - | 0.05 | 0.05 | 4 | ● |
| 3 | CTV25L10S | L | Yes | 2.5 | 90 | 10 | 12 | 0.83 | - | 17 | - | 0.1 | 0.1 | 4 | ● |

Cut-off S

CTDP.. series/Toolholder

CTDP-OH3 Coolant through (direct connect compatible) CUT DUO SPLASH



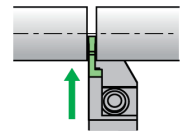
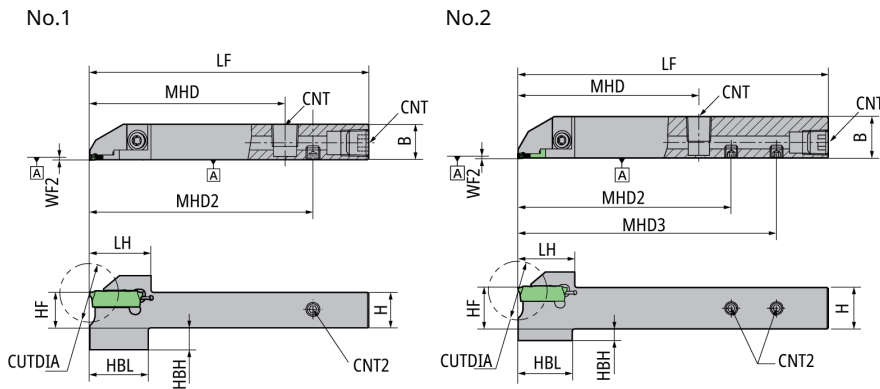
• Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CNT | CNT2 | H mm | HBH mm | HBL mm | HF mm | LF mm | LH mm | MHD mm | MHD2 mm | MHD3 mm | MHD4 mm | WF2 mm | Insert Gage |
|---------|--------------------|--|------|--------------|---------|-------|------|---------|-----------|-----------|----------|----------|----------|-----------|------------|------------|------------|-----------|-------------|
| 5121835 | CTDPR16-20D25-OH3 | ● ● | R | 25.4 | 16 | Rc1/8 | M5 | 16 | 4.5 | 21 | 15.5 | 120 | 22 | 78.75 | 100 | 87.5 | 70 | 0.2 | CTDP20.. |
| 5122551 | CTDPR16-25D34A-OH3 | ● ● | R | 34 | 16 | Rc1/8 | M5 | 16 | 8 | 27.5 | 15.5 | 120 | 28.5 | 78.8 | 100 | 87.5 | 70 | 0.2 | CTDP25.. |
| 5121827 | CTDPL16-20D25-OH3 | ● ● | L | 25.4 | 16 | Rc1/8 | M5 | 16 | 4.5 | 21 | 16 | 120 | 22 | 78.75 | 100 | 87.5 | 70 | 0.2 | CTDP20.. |
| 5122379 | CTDPL16-25D34A-OH3 | ● ● | L | 34 | 16 | Rc1/8 | M5 | 16 | 8 | 27.5 | 16 | 120 | 28.5 | 78.8 | 100 | 87.5 | 70 | 0.2 | CTDP25.. |

Spare Parts

| Item Number | Clamp screw | Screw (for CNT) | Screw (for CNT2) | Wrench (for Clamp screw) | Wrench (for CNT2) |
|--------------------|-------------|--------------------|---------------------|-----------------------------|----------------------|
| CTDPR16-20D25-OH3 | LRIS-4*12 | SPR1/8L | SS0505SC | LLR-25S | LW-2.5 |
| CTDPR16-25D34A-OH3 | CS0516LSH | SPR1/8L | SS0505SC | LW-3 | LW-2.5 |
| CTDPL16-20D25-OH3 | LRIS-4*12 | SPR1/8L | SS0505SC | LLR-25S | LW-2.5 |
| CTDPL16-25D34A-OH3 | CS0516LSH | SPR1/8L | SS0505SC | LW-3 | LW-2.5 |

CTDP-OH2 Coolant through (direct connect compatible) CUT DUO SPLASH



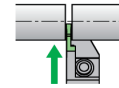
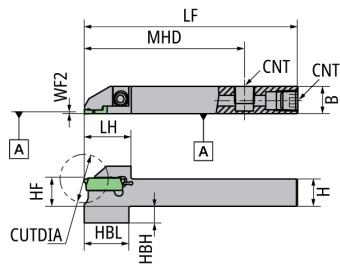
• Diagram shows right-hand tool

| Figure | EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CNT | CNT2 | H mm | HBH mm | HBL mm | HF mm | LF mm | LH mm | MHD mm | MHD2 mm | MHD3 mm | WF2 mm | Insert Gage |
|--------|---------|--------------------|--|------|--------------|---------|-------|------|---------|-----------|-----------|----------|----------|----------|-----------|------------|------------|-----------|-------------|
| 1 | 5037916 | CTDPR12-20D25-OH2 | ● ● | R | 25.4 | 12 | Rc1/8 | M5 | 12 | 8.5 | 21 | 12 | 100 | 22 | 70 | 80 | - | 0.2 | CTDP20.. |
| 2 | 5043856 | CTDPR16-20D25-OH2 | ● ● | R | 25.4 | 16 | Rc1/8 | M5 | 16 | 4.5 | 21 | 16 | 120 | 22 | 70 | 82.5 | 100 | 0.2 | CTDP20.. |
| 1 | 5043930 | CTDPR20-25D34A-OH2 | ● ● | R | 34 | 20 | Rc1/8 | M5 | 20 | 4 | 27.5 | 20 | 120 | 28.5 | 75 | 100 | - | 0.2 | CTDP25.. |
| 1 | 5037908 | CTDPL12-20D25-OH2 | ● ● | L | 25.4 | 12 | Rc1/8 | M5 | 12 | 8.5 | 21 | 12 | 100 | 22 | 70 | 80 | - | 0.2 | CTDP20.. |
| 2 | 5043849 | CTDPL16-20D25-OH2 | ● ● | L | 25.4 | 16 | Rc1/8 | M5 | 16 | 4.5 | 21 | 16 | 120 | 22 | 70 | 82.5 | 100 | 0.2 | CTDP20.. |
| 1 | 5043948 | CTDPL20-25D34A-OH2 | ● ● | L | 34 | 20 | Rc1/8 | M5 | 20 | 4 | 27.5 | 20 | 120 | 28.5 | 75 | 100 | - | 0.2 | CTDP25.. |

Spare Parts

| Item Number | Clamp screw | Screw (for CNT) | Screw (for CNT2) | Wrench (for Clamp screw) | Wrench (for CNT2) |
|--------------------|-------------|--------------------|---------------------|-----------------------------|----------------------|
| CTDPR12-20D25-OH2 | LRIS-4*12 | SPR1/8 | SS0505SC | LLR-25S | LW-2.5 |
| CTDPR16-20D25-OH2 | LRIS-4*12 | SPR1/8L | SS0505SC | LLR-25S | LW-2.5 |
| CTDPR20-25D34A-OH2 | CS0516LSH | SPR1/8 | SS0505SC | LW-3 | LW-2.5 |
| CTDPL12-20D25-OH2 | LRIS-4*12 | SPR1/8 | SS0505SC | LLR-25S | LW-2.5 |
| CTDPL16-20D25-OH2 | LRIS-4*12 | SPR1/8L | SS0505SC | LLR-25S | LW-2.5 |
| CTDPL20-25D34A-OH2 | CS0516LSH | SPR1/8 | SS0505SC | LW-3 | LW-2.5 |

CTDP-OH Coolant through CUT DUO SPLASH



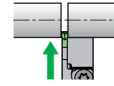
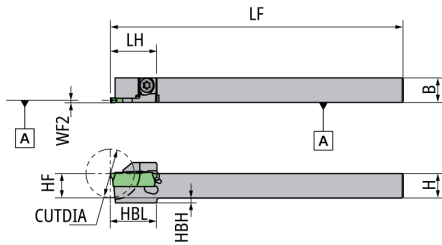
· Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CNT | H mm | HBH mm | HBL mm | HF mm | LF mm | LH mm | MHD mm | WF2 mm | Insert Gage |
|---------|------------------|-------|------|--------------|---------|-------|---------|-----------|-----------|----------|----------|----------|-----------|-----------|-------------|
| 5972567 | CTDPR12-20D25-OH | ● | R | 25.4 | 12 | Rc1/8 | 12 | 8.5 | 21 | 12 | 100 | 22 | 75 | 0.2 | CTDP20.. |
| 5972575 | CTDPR16-20D25-OH | ● | R | 25.4 | 16 | Rc1/8 | 16 | 4.5 | 21 | 16 | 100 | 22 | 75 | 0.2 | CTDP20.. |
| 5972989 | CTDPL12-20D25-OH | ● | L | 25.4 | 12 | Rc1/8 | 12 | 8.5 | 21 | 12 | 100 | 22 | 75 | 0.2 | CTDP20.. |
| 5973003 | CTDPL16-20D25-OH | ● | L | 25.4 | 16 | Rc1/8 | 16 | 4.5 | 21 | 16 | 100 | 22 | 75 | 0.2 | CTDP20.. |

Spare Parts

| Item Number | Clamp screw | Screw (for CNT) | Wrench (for Clamp screw) |
|------------------|-------------|--------------------|-----------------------------|
| CTDPR12-20D25-OH | LRIS-4*12 | SPR1/8 | LLR-25S |
| CTDPR16-20D25-OH | LRIS-4*12 | SPR1/8 | LLR-25S |
| CTDPL12-20D25-OH | LRIS-4*12 | SPR1/8 | LLR-25S |
| CTDPL16-20D25-OH | LRIS-4*12 | SPR1/8 | LLR-25S |

CTDP CUT DUO



• Diagram shows right-hand tool

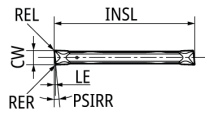
| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | H mm | HBH mm | HBL mm | HF mm | LF mm | LH mm | WF2 mm | Insert Gage |
|---------|------------------|-------|------|--------------|---------|---------|-----------|-----------|----------|----------|----------|-----------|-------------|
| 5750534 | CTDPR10-20D20 | ● | R | 20 | 10 | 10 | 2 | 19 | 10 | 120 | 19 | 0.2 | CTDP20.. |
| 5717087 | CTDPR12-20D20 | ● | R | 20 | 12 | 12 | - | - | 12 | 120 | 19 | 0.2 | CTDP20.. |
| 5717103 | CTDPR12-20D25 | ● | R | 25.4 | 12 | 12 | - | - | 12 | 120 | 22 | 0.2 | CTDP20.. |
| 5750567 | CTDPR16-20D25 | ● | R | 25.4 | 16 | 16 | - | - | 16 | 120 | 22 | 0.2 | CTDP20.. |
| 5842299 | CTDPR16-20D32A | ● | R | 32 | 16 | 16 | - | - | 16 | 120 | 27.5 | 0.2 | CTDP20.. |
| 5842356 | CTDPR16-25D34A | ● | R | 34 | 16 | 16 | - | - | 16 | 120 | 28.5 | 0.2 | CTDP25.. |
| 5842331 | CTDPR2012-20D32A | ● | R | 32 | 12 | 20 | - | - | 20 | 120 | 29.5 | 0.2 | CTDP20.. |
| 5842398 | CTDPR2012-25D34A | ● | R | 34 | 12 | 20 | - | - | 20 | 120 | 29.5 | 0.2 | CTDP25.. |
| 5842315 | CTDPR20-20D32A | ● | R | 32 | 20 | 20 | - | - | 20 | 120 | 29.5 | 0.2 | CTDP20.. |
| 5842372 | CTDPR20-25D34A | ● | R | 34 | 20 | 20 | - | - | 20 | 120 | 29.5 | 0.2 | CTDP25.. |
| 5750559 | CTDPL10-20D20 | ● | L | 20 | 10 | 10 | 2 | 19 | 10 | 120 | 19 | 0.2 | CTDP20.. |
| 5717079 | CTDPL12-20D20 | ● | L | 20 | 12 | 12 | - | - | 12 | 120 | 19 | 0.2 | CTDP20.. |
| 5717095 | CTDPL12-20D25 | ● | L | 25.4 | 12 | 12 | - | - | 12 | 120 | 22 | 0.2 | CTDP20.. |
| 5750575 | CTDPL16-20D25 | ● | L | 25.4 | 16 | 16 | - | - | 16 | 120 | 22 | 0.2 | CTDP20.. |
| 5842307 | CTDPL16-20D32A | ● | L | 32 | 16 | 16 | - | - | 16 | 120 | 27.5 | 0.2 | CTDP20.. |
| 5842364 | CTDPL16-25D34A | ● | L | 34 | 16 | 16 | - | - | 16 | 120 | 28.5 | 0.2 | CTDP25.. |
| 5842349 | CTDPL2012-20D32A | ● | L | 32 | 12 | 20 | - | - | 20 | 120 | 29.5 | 0.2 | CTDP20.. |
| 5842406 | CTDPL2012-25D34A | ● | L | 34 | 12 | 20 | - | - | 20 | 120 | 29.5 | 0.2 | CTDP25.. |
| 5842323 | CTDPL20-20D32A | ● | L | 32 | 20 | 20 | - | - | 20 | 120 | 29.5 | 0.2 | CTDP20.. |
| 5842380 | CTDPL20-25D34A | ● | L | 34 | 20 | 20 | - | - | 20 | 120 | 29.5 | 0.2 | CTDP25.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|------------------|-------------|-----------------------------|
| CTDPR10-20D20 | LRIS-4*12 | LLR-25S |
| CTDPR12-20D20 | LRIS-4*12 | LLR-25S |
| CTDPR12-20D25 | LRIS-4*12 | LLR-25S |
| CTDPR16-20D25 | LRIS-4*12 | LLR-25S |
| CTDPR16-20D32A | LRIS-5*10 | LLR-28S |
| CTDPR16-25D34A | CS0516LSH | LW-3 |
| CTDPR2012-20D32A | LRIS-5*10 | LLR-28S |
| CTDPR2012-25D34A | CS0516LSH | LW-3 |
| CTDPR20-20D32A | LRIS-5*10 | LLR-28S |
| CTDPR20-25D34A | CS0516LSH | LW-3 |
| CTDPL10-20D20 | LRIS-4*12 | LLR-25S |
| CTDPL12-20D20 | LRIS-4*12 | LLR-25S |
| CTDPL12-20D25 | LRIS-4*12 | LLR-25S |
| CTDPL16-20D25 | LRIS-4*12 | LLR-25S |
| CTDPL16-20D32A | LRIS-5*10 | LLR-28S |
| CTDPL16-25D34A | CS0516LSH | LW-3 |
| CTDPL2012-20D32A | LRIS-5*10 | LLR-28S |
| CTDPL2012-25D34A | CS0516LSH | LW-3 |
| CTDPL20-20D32A | LRIS-5*10 | LLR-28S |
| CTDPL20-25D34A | CS0516LSH | LW-3 |

CTDP.. series/Inserts Carbide

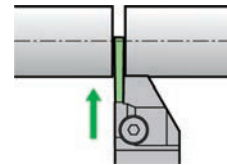
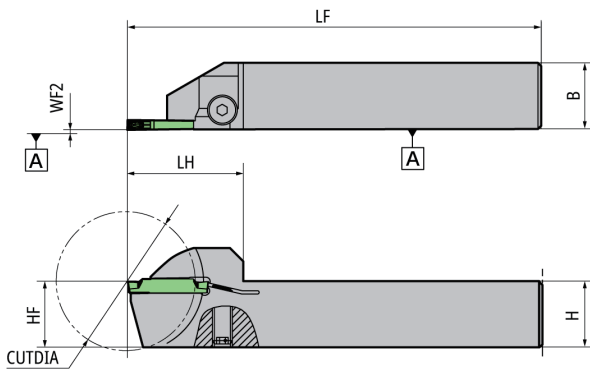
CTDP20/25 CUT DUO



| Item Number | Hand | Chip-breaker | CW | INSL | PSIRR | REL | RER | Carbide | | |
|-------------|------|--------------|-----|------|-------|------|------|---------|-----|-----|
| | | | mm | mm | ° | mm | mm | DM4 | QM3 | TM4 |
| CTDP20N | N | Yes | 2 | 19.1 | - | 0.05 | 0.05 | ● | ● | ● |
| CTDP20N02 | N | Yes | 2 | 19.1 | - | 0.2 | 0.2 | ● | ● | ● |
| CTDP25N | N | Yes | 2.5 | 21.2 | - | 0.05 | 0.05 | ● | ● | ● |
| CTDP25N02 | N | Yes | 2.5 | 21.2 | - | 0.2 | 0.2 | ● | ● | ● |
| CTDP20R6 | R | Yes | 2 | 19.1 | 6 | 0.05 | 0.05 | ● | ● | ● |
| CTDP25R6 | R | Yes | 2.5 | 21.2 | 6 | 0.05 | 0.05 | ● | ● | ● |
| CTDP20R15 | R | Yes | 2 | 19.1 | 15 | 0.05 | 0.05 | ● | ● | ● |
| CTDP25R15 | R | Yes | 2.5 | 21.2 | 15 | 0.05 | 0.05 | ● | ● | ● |

CTWP.. series/Toolholder

CTWP CUT DUO EXTRA



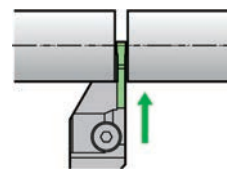
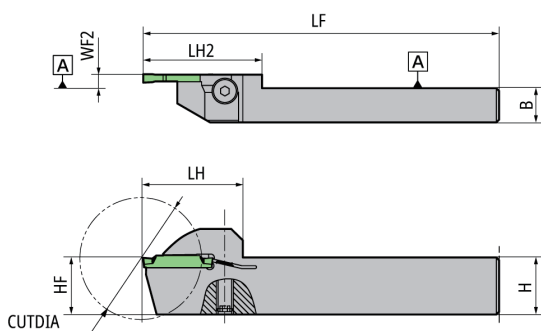
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | H mm | HF mm | LF mm | LH mm | WF2 mm | Insert Gage |
|---------|-----------------|-------|------|--------------|---------|---------|----------|----------|----------|-----------|-------------|
| 5973912 | CTWPR2012K-3D42 | ● | R | 42 | 12 | 20 | 20 | 125 | 35 | 0.25 | GWPFM300.. |
| 5973870 | CTWPR2020K-3D42 | ● | R | 42 | 20 | 20 | 20 | 125 | 35 | 0.25 | GWPFM300.. |
| 5973854 | CTWPR2525M-3D42 | ● | R | 42 | 25 | 25 | 25 | 150 | 35 | 0.25 | GWPFM300.. |
| 5973920 | CTWPL2012K-3D42 | ● | L | 42 | 12 | 20 | 20 | 125 | 35 | 0.25 | GWPFM300.. |
| 5973904 | CTWPL2020K-3D42 | ● | L | 42 | 20 | 20 | 20 | 125 | 35 | 0.25 | GWPFM300.. |
| 5973862 | CTWPL2525M-3D42 | ● | L | 42 | 25 | 25 | 25 | 150 | 35 | 0.25 | GWPFM300.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-----------------|-------------|-----------------------------|
| CTWPR2012K-3D42 | CS0623LSHW | LW-3 |
| CTWPR2020K-3D42 | CS0623LSHW | LW-3 |
| CTWPR2525M-3D42 | CS0623LSHW | LW-3 |
| CTWPL2012K-3D42 | CS0623LSHW | LW-3 |
| CTWPL2020K-3D42 | CS0623LSHW | LW-3 |
| CTWPL2525M-3D42 | CS0623LSHW | LW-3 |

CTWP-003 CUT DUO EXTRA



● Diagram shows left-hand tool

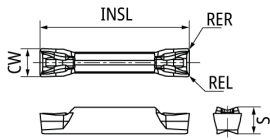
| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | H mm | HF mm | LF mm | LH mm | LH2 mm | WF2 mm | Insert Gage |
|---------|---------------------|-------|------|--------------|---------|---------|----------|----------|----------|-----------|-----------|-------------|
| 5012976 | CTWPL2012K-3D42-003 | ★ | L | 42 | 12 | 20 | 20 | 125 | 44 | 49 | 5 | GWPFM300.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|---------------------|-------------|-----------------------------|
| CTWPL2012K-3D42-003 | CS0623LSHW | LW-3 |

CTWP.. series/Inserts Carbide

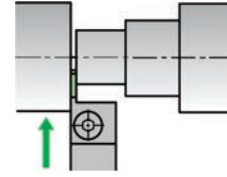
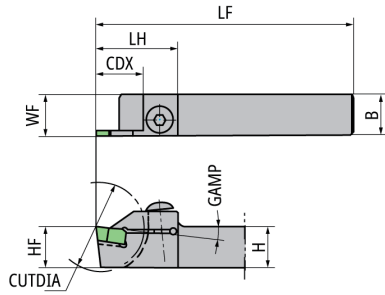
GWPFM



| Item Number | Hand | Chip-breaker | CW | INSL | REL | RER | S | Carbide PVD DM4 |
|----------------|------|--------------|----|------|-----|-----|-----|-----------------|
| | | | mm | mm | mm | mm | mm | |
| GWPFM300N02-GT | N | Yes | 3 | 24.5 | 0.2 | 0.2 | 4.2 | ● |
| GWPFM300N04-GT | N | Yes | 3 | 24.5 | 0.4 | 0.4 | 4.2 | ● |

CTV.. series/Toolholder

CTV (-S)



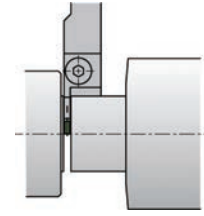
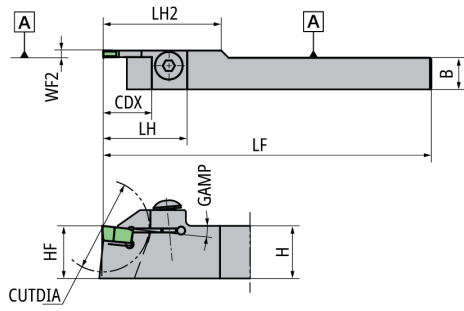
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | GMAP ° | H mm | LF mm | LH mm | WF mm | Insert Gage |
|---------|-------------|-------|------|--------------|---------|-----------|-----------|---------|----------|----------|----------|-------------|
| 5904131 | CTVR16K25S | ● | R | 23 | 16 | 12.2 | 6 | 16 | 125 | 24 | 16.5 | CTV25.. |
| 5904149 | CTVR16K30S | ● | R | 23 | 16 | 12.2 | 6 | 16 | 125 | 24 | 16.5 | CTV30.. |
| 5904180 | CTVR20K25S | ● | R | 23 | 20 | 12.2 | 6 | 20 | 125 | 24 | 20.5 | CTV25.. |
| 5904172 | CTVR20K30S | ● | R | 23 | 20 | 12.2 | 6 | 20 | 125 | 24 | 20.5 | CTV30.. |
| 5853619 | CTVR16K25 | ● | R | 35 | 16 | 18.5 | 6 | 16 | 125 | 32 | 16.5 | CTV25.. |
| 5853593 | CTVR16K30 | ● | R | 35 | 16 | 18.5 | 6 | 16 | 125 | 32 | 16.5 | CTV30.. |
| 5120423 | CTVR1913L25 | ● | R | 35 | 13 | 18.5 | 6 | 19 | 140 | 32 | 13 | CTV25.. |
| 5120431 | CTVR1913L30 | ● | R | 35 | 13 | 18.5 | 6 | 19 | 140 | 32 | 13 | CTV30.. |
| 5853643 | CTVR20K25 | ● | R | 35 | 20 | 18.5 | 6 | 20 | 125 | 32 | 20.5 | CTV25.. |
| 5853577 | CTVR20K30 | ● | R | 35 | 20 | 18.5 | 6 | 20 | 125 | 32 | 20.5 | CTV30.. |
| 5853627 | CTVL16K25 | ● | L | 35 | 16 | 18.5 | 6 | 16 | 125 | 32 | 16.5 | CTV25.. |
| 5853601 | CTVL16K30 | ● | L | 35 | 16 | 18.5 | 6 | 16 | 125 | 32 | 16.5 | CTV30.. |
| 5122197 | CTVL1913L25 | ● | L | 35 | 13 | 18.5 | 6 | 19 | 140 | 32 | 13 | CTV25.. |
| 5122189 | CTVL1913L30 | ● | L | 35 | 13 | 18.5 | 6 | 19 | 140 | 32 | 13 | CTV30.. |
| 5853635 | CTVL20K25 | ● | L | 35 | 20 | 18.5 | 6 | 20 | 125 | 32 | 20.5 | CTV25.. |
| 5853585 | CTVL20K30 | ● | L | 35 | 20 | 18.5 | 6 | 20 | 125 | 32 | 20.5 | CTV30.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CTVR16K25S | BS0620 | LW-4 |
| CTVR16K30S | BS0620 | LW-4 |
| CTVR20K25S | BS0620 | LW-4 |
| CTVR20K30S | BS0620 | LW-4 |
| CTVR16K25 | BS0620 | LW-4 |
| CTVR16K30 | BS0620 | LW-4 |
| CTVR1913L25 | BS0620 | LW-4 |
| CTVR1913L30 | BS0620 | LW-4 |
| CTVR20K25 | BS0620 | LW-4 |
| CTVR20K30 | BS0620 | LW-4 |
| CTVL16K25 | BS0620 | LW-4 |
| CTVL16K30 | BS0620 | LW-4 |
| CTVL1913L25 | BS0620 | LW-4 |
| CTVL1913L30 | BS0620 | LW-4 |
| CTVL20K25 | BS0620 | LW-4 |
| CTVL20K30 | BS0620 | LW-4 |

CTV-X



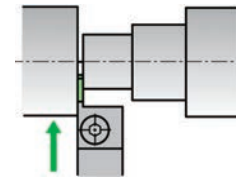
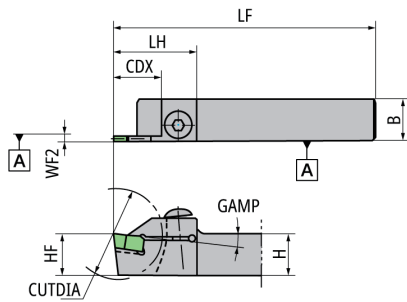
● Diagram shows right-hand tool

| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | GMAP ° | H mm | LF mm | LH mm | WF2 mm | Insert Gage |
|---------|----------------|-------|------|--------------|---------|-----------|-----------|---------|----------|----------|-----------|-------------|
| 5595384 | CTVL2012K30X-1 | ● | L | 35 | 12 | 18.5 | 6 | 20 | 125 | 32 | 3 | CTV30.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|----------------|-------------|-----------------------------|
| CTVL2012K30X-1 | BS0620 | LW-4 |

CTV-M (B)



● Diagram shows left-hand tool

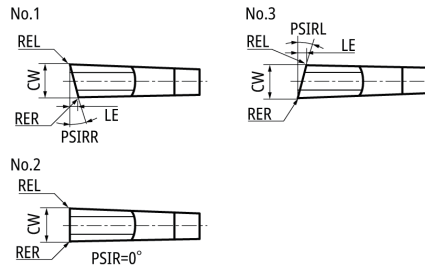
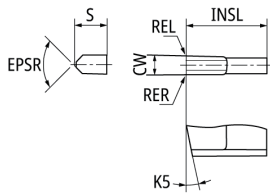
| EDP | Item Number | Stock | Hand | CUTDIA mm | B mm | CDX mm | GMAP ° | H mm | LF mm | LH mm | WF2 mm | Insert Gage |
|---------|-------------|-------|------|--------------|---------|-----------|-----------|---------|----------|----------|-----------|-------------|
| 5177100 | CTVR16-25M | ● | R | 28 | 16 | 15 | 6 | 16 | 120 | 25.5 | 0.5 | CTV25.. |
| 5185566 | CTVR16-30M | ● | R | 28 | 16 | 15 | 6 | 16 | 120 | 25.5 | 0.5 | CTV30.. |
| 5185541 | CTVR20-25M | ● | R | 28 | 20 | 15 | 6 | 20 | 120 | 25.5 | 0.5 | CTV25.. |
| 5183314 | CTVR20-30M | ● | R | 28 | 20 | 15 | 6 | 20 | 120 | 25.5 | 0.5 | CTV30.. |
| 5162219 | CTVR25-30B | ● | R | 45 | 25 | 23.5 | 6 | 25 | 150 | 34.5 | 0.5 | CTV30.. |
| 5184528 | CTVL25-30B | ● | L | 45 | 25 | 23.5 | 6 | 25 | 150 | 34.5 | 0.5 | CTV30.. |

Spare Parts

| Item Number | Clamp screw | Wrench (for Clamp screw) |
|-------------|-------------|-----------------------------|
| CTVR16-25M | BS0520 | LW-3 |
| CTVR16-30M | BS0520 | LW-3 |
| CTVR20-25M | BS0520 | LW-3 |
| CTVR20-30M | BS0520 | LW-3 |
| CTVR25-30B | BS0625 | LW-4 |
| CTVL25-30B | BS0625 | LW-4 |

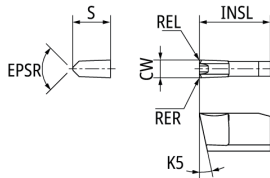
CTV.. series/Inserts Carbide

CTV-R/N/L



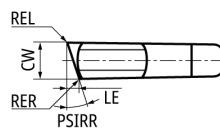
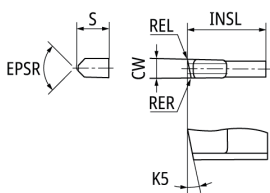
| Figure | Item Number | Hand | Chip-breaker | CW | EPSR | INSL | K5 | LE | PSIR | PSIRL | PSIRR | REL | RER | S | Carbide PVD | |
|--------|-------------|------|--------------|-----|------|------|----|------|------|-------|-------|-----|-----|------|-------------|-----|
| | | | | mm | ° | mm | ° | mm | ° | ° | ° | mm | mm | mm | QM3 | ZM3 |
| 1 | CTV25R | R | Yes | 2.5 | 90 | 12 | 12 | 0.41 | - | - | 8 | 0.2 | 0.2 | 6.39 | | ● |
| 1 | CTV30R | R | Yes | 3 | 90 | 12 | 12 | 0.49 | - | - | 8 | 0.2 | 0.2 | 6.39 | | ● |
| 2 | CTV25N | N | Yes | 2.5 | 90 | 12 | 12 | - | 0 | - | - | 0.2 | 0.2 | 6.39 | | ● |
| 2 | CTV30N | N | Yes | 3 | 90 | 12 | 12 | - | 0 | - | - | 0.2 | 0.2 | 6.39 | ● | ● |
| 3 | CTV30L | L | Yes | 3 | 90 | 12 | 12 | 0.49 | - | 8 | - | 0.2 | 0.2 | 6.39 | | ● |

CTV-038



| Item Number | Hand | Chip-breaker | CW | EPSR | INSL | K5 | PSIR | REL | RER | S | Carbide PVD | |
|-------------|------|--------------|----|------|------|----|------|-----|-----|------|-------------|-----|
| | | | mm | ° | mm | ° | ° | mm | mm | mm | QM3 | ZM3 |
| CTV30N038 | N | Yes | 3 | 90 | 12 | 12 | 0 | 0.2 | 0.2 | 6.39 | | ● |

CTV-A/B



| Item Number | Hand | Chip-breaker | CW | EPSR | INSL | K5 | LE | PSIRR | REL | RER | S | Carbide PVD | |
|-------------|------|--------------|-----|------|------|----|------|-------|---------|---------|------|-------------|-----|
| | | | mm | ° | mm | ° | mm | ° | mm | mm | mm | QM3 | ZM3 |
| CTV25R00A | R | Yes | 2.5 | 90 | 12 | 12 | 0.41 | 8 | 0.05MAX | 0.05MAX | 6.39 | | ● |
| CTV25R00B | R | Yes | 2.5 | 90 | 12 | 12 | 0.83 | 17 | 0.05MAX | 0.05MAX | 6.39 | | ● |
| CTV30R00A | R | Yes | 3 | 90 | 12 | 12 | 0.49 | 8 | 0.05MAX | 0.05MAX | 6.39 | | ● |
| CTV30R00B | R | Yes | 3 | 90 | 12 | 12 | 1 | 17 | 0.05MAX | 0.05MAX | 6.39 | | ● |