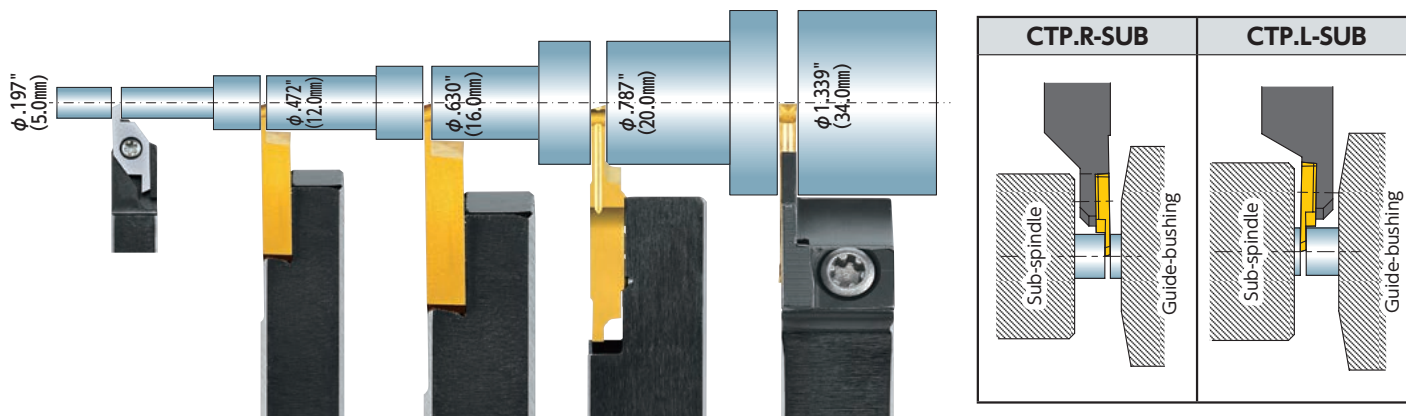

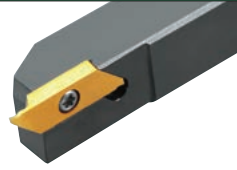
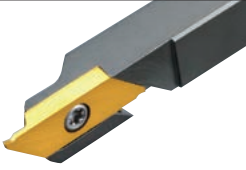
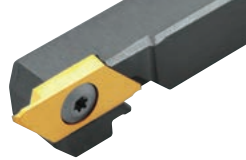
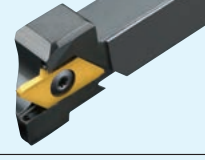
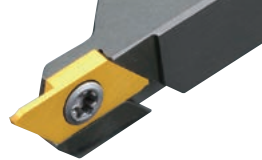
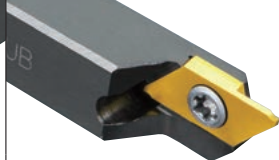






NTK Cut-off Tools - Product Lines




NTK offers a variety of cut-off tools with as narrow a width as .020" (0.5mm)
 NTK cut-off tools are specialized for small part applications








| Insert | CSV | CTPS | CTPS-001 |
|----------------------|--|--|---|
| | CSV-NC | CTPS | CTPSR-SUB |
| Holder |  |  |  |
| Max Cut-off Diameter | ~ $\phi .197''$ (~5.0mm) | ~ $\phi .394''$ (~10.0mm) | ~ $\phi .157''$ (~4.0mm) |
| Blade width | .024" - .059" (0.6 - 1.5mm) | .047" - .079" (1.2 - 2.0mm) | .028" (0.7mm) |

| Insert | CTP | | | |
|----------------------|---|--|--|---|
| | CTP | CTP-OH | CTPR-SUB | CTPL-SUB |
| Holder |  |  Coolant through |  |  |
| Max Cut-off Diameter | ~ $\phi .472''$ (~12.0mm) | | | |
| Blade width | .020" - .079" (0.5 - 2.0mm) | | | |

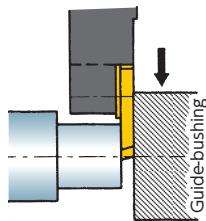
| Insert | CTPA | | | |
|----------------------|---|--|--|---|
| | CTPA | CTPA-OH | CTPAR-SUB | CTPAL-SUB |
| Holder |  |  Coolant through |  |  |
| Max Cut-off Diameter | ~ $\phi .630''$ (~16.0mm) | | | |
| Blade width | .028" - .118" (0.7 - 3.0mm) | | | |

| Insert | CTPW | CTDP | GWPFM |
|----------------------|---|---|--|
| | CTPW | CTDP | CTWP |
| Holder |  |  | NEW  |
| Max Cut-off Diameter | ~ ϕ .787" (~20.0mm) | ~ ϕ 1.339" (~34.0mm) | ~ ϕ 1.653" (~42.0mm) |
| Blade width | .098" (2.5mm) | .079"-.098" (2.0-2.5mm) | .118" (3.0mm) |

| Insert | CTV-S | | CTV | | |
|----------------------|---|---|--|---|---|
| | CTV-K2 | CTVN-K2 | CTV-S | CTV-M (B) | CTV-X |
| Holder |  |  |  |  |  |
| Max Cut-off Diameter | ~ ϕ .787" (~20.0mm) | | ~ ϕ 1.378" (~35.0mm) | ~ ϕ 1.772" (~45.0mm) | ~ 1.378" (~35.0mm) |
| Blade width | .087" - .098" (2.2 - 2.5mm) | | .098"-.118" (2.5-3.0mm) | .098"-.118" (2.5-3.0mm) | .118" (3.0mm) |

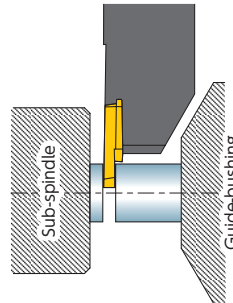
■ CTP/CTPA/CTPS/CTPW selection guide : Right hand? Or Left hand?

Right-hand recommended



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

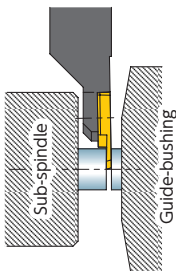
Left-hand recommended



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

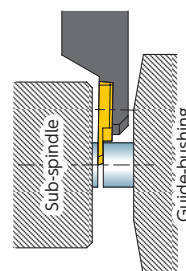
■ CTP/CTPA-SUB selection guide Right hand? Or Left hand?

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