sandvik.coromant.com/
coromillplurabarrel

# CoroMill® Plura barrel

## Maximizing profiling performance

CoroMill® Plura barrel rises to the challenge of the most demanding requirements, ensuring optimal performance and high-quality profiling in ISO S materials.

## Application

- Optimized for high-productivity surfacing, such as blade milling operations
- Semi-finishing to finishing applications
- Primary workpiece area is ISO S (titanium and HRSA)
- Secondary workpiece areas are ISO M (stainless steel), ISO P (steel) and ISO H (hardened steel)

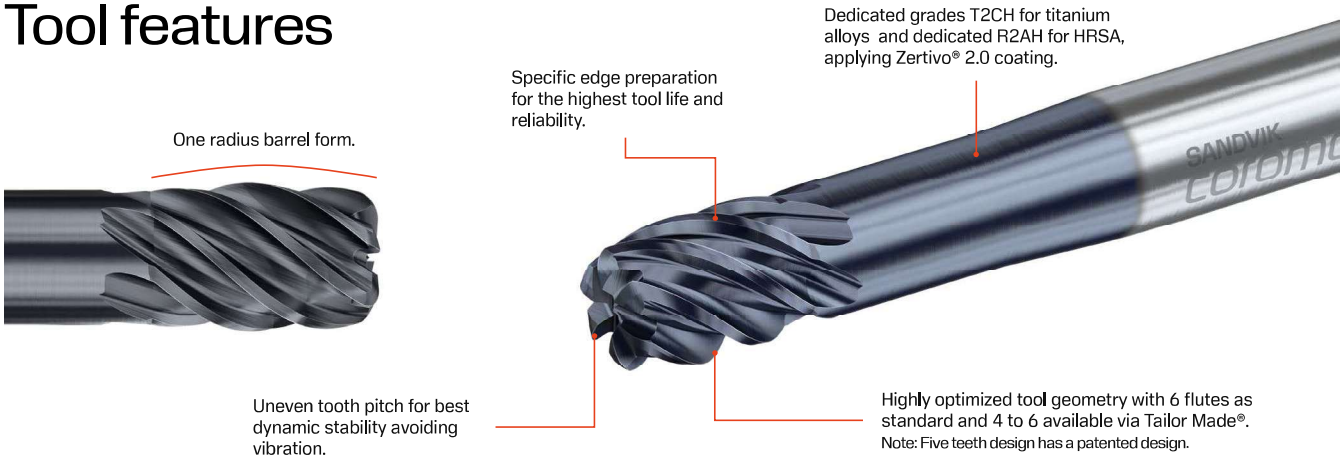

S P M H

ISO application areas

## Features and benefits

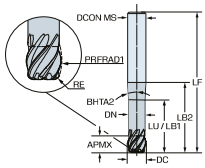
- Increased step-over rates leading to major productivity gains and cycle-time reductions
- Large cutting edge contact area creates smaller cusp height, improving surface quality (Rz and Ra)
- Optimized edge preparation contributes to high tool life and reliability

## Tool features



# CoroMill® Plura barrel, solid carbide end mill for profiling

Optimised for titanium




Common data values

| ZEFP | FHA [deg] | TCDCON |
|---|---|---|
| 6 | 42.00 | h6 |

Metric (mm)

| | P | M | S | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ordering code | T2CH | T2CH | T2CH | DC [mm] | $RE_2$ [mm] | APMX [mm] | LU [mm] | LF [mm] | $DCON_{MS}$ [mm] | PRFRAD [mm] | DN [mm] | $LB_1$ [mm] | $LB_2$ [mm] |
| 2A146-0600A012-TCMH | ○ | ○ | ● | 6.00 | 1.0 | 5.7 | 18.00 | 90.00 | 10.00 | 12.00 | 5.4 | 18.0 | 50.0 |
| 2A146-0600A030-TCMH | ○ | ○ | ● | 6.00 | 1.0 | 9.0 | 18.00 | 90.00 | 10.00 | 30.00 | 5.4 | 18.0 | 50.0 |
| 2A146-0800A016-TCMH | ○ | ○ | ● | 8.00 | 1.0 | 7.6 | 24.00 | 100.00 | 10.00 | 16.00 | 7.2 | 24.0 | 60.0 |
| 2A146-0800A040-TCMH | ○ | ○ | ● | 8.00 | 1.0 | 12.0 | 24.00 | 100.00 | 10.00 | 40.00 | 7.2 | 24.0 | 60.0 |
| 2A146-1000A020-TCMI | ○ | ○ | ● | 10.00 | 2.0 | 9.4 | 30.00 | 110.00 | 12.00 | 20.00 | 9.0 | 30.0 | 65.0 |
| 2A146-1000A050-TCMI | ○ | ○ | ● | 10.00 | 2.0 | 15.1 | 30.00 | 110.00 | 12.00 | 50.00 | 9.0 | 30.0 | 65.0 |
| 2A146-1200A024-TCMK | ○ | ○ | ● | 12.00 | 3.0 | 11.3 | 36.00 | 120.00 | 16.00 | 24.00 | 10.8 | 36.0 | 72.0 |
| 2A146-1200A060-TCMK | ○ | ○ | ● | 12.00 | 3.0 | 18.1 | 36.00 | 120.00 | 16.00 | 60.00 | 10.8 | 36.0 | 72.0 |

● = First choice ○ = Good choice

Common data values

| ZEFP | FHA [deg] | TCDCON |
|---|---|---|
| 6 | 42.000 | h6 |

Imperial (inch)

| | P | M | S | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ordering code | T2CH | T2CH | T2CH | DC [inch] | $RE_2$ [inch] | APMX [inch] | LU [inch] | LF [inch] | $DCON_{MS}$ [inch] | PRFRAD [inch] | DN [inch] | $LB_1$ [inch] | $LB_2$ [inch] |
| 2A146-0635A013-TCIE | ○ | ○ | ● | 0.250 | 0.040 | 0.236 | 0.750 | 3.750 | 0.375 | 0.500 | 0.225 | 0.750 | 2.187 |
| 2A146-0635A032-TCIE | ○ | ○ | ● | 0.250 | 0.040 | 0.376 | 0.750 | 3.750 | 0.375 | 1.250 | 0.225 | 0.750 | 2.187 |
| 2A146-0953A019-TCIG | ○ | ○ | ● | 0.375 | 0.080 | 0.354 | 1.125 | 4.250 | 0.500 | 0.750 | 0.338 | 1.125 | 2.467 |
| 2A146-0953A048-TCIG | ○ | ○ | ● | 0.375 | 0.080 | 0.564 | 1.125 | 4.250 | 0.500 | 1.875 | 0.338 | 1.125 | 2.467 |
| 2A146-1270A025-TCII | ○ | ○ | ● | 0.500 | 0.120 | 0.472 | 1.500 | 5.000 | 0.625 | 1.000 | 0.450 | 1.500 | 3.094 |
| 2A146-1270A064-TCII | ○ | ○ | ● | 0.500 | 0.120 | 0.753 | 1.500 | 5.000 | 0.625 | 2.500 | 0.450 | 1.500 | 3.094 |

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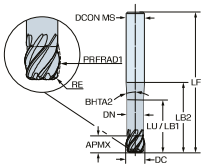
# CoroMill® Plura barrel, solid carbide end mill for profiling

Optimised for titanium




Common data values

| ZEFP | FHA [deg] | TCDCON |
|---|---|---|
| 6 | 42.00 | h6 |

Metric (mm)

| | P | M | S | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ordering code** | **T2CH** | **T2CH** | **T2CH** | **DC [mm]** | **$RE_2$ [mm]** | **APMX [mm]** | **LU [mm]** | **LF [mm]** | **$DCON_{MS}$ [mm]** | **PRFRAD [mm]** | **DN [mm]** | **$LB_1$ [mm]** | **$LB_2$ [mm]** |
| 2A146-0600A012-TCMD | ○ | ○ | ● | 6.00 | 1.0 | 5.7 | 18.00 | 60.00 | 6.00 | 12.00 | 5.4 | 18.0 | 24.0 |
| 2A146-0600A030-TCMD | ○ | ○ | ● | 6.00 | 1.0 | 9.0 | 18.00 | 60.00 | 6.00 | 30.00 | 5.4 | 18.0 | 24.0 |
| 2A146-0800A016-TCMF | ○ | ○ | ● | 8.00 | 1.0 | 7.6 | 24.00 | 70.00 | 8.00 | 16.00 | 7.2 | 24.0 | 34.0 |
| 2A146-0800A040-TCMF | ○ | ○ | ● | 8.00 | 1.0 | 12.0 | 24.00 | 70.00 | 8.00 | 40.00 | 7.2 | 24.0 | 34.0 |
| 2A146-1000A020-TCMH | ○ | ○ | ● | 10.00 | 2.0 | 9.4 | 30.00 | 80.00 | 10.00 | 20.00 | 9.0 | 30.0 | 40.0 |
| 2A146-1000A050-TCMH | ○ | ○ | ● | 10.00 | 2.0 | 15.1 | 30.00 | 80.00 | 10.00 | 50.00 | 9.0 | 30.0 | 40.0 |
| 2A146-1200A024-TCMI | ○ | ○ | ● | 12.00 | 3.0 | 11.3 | 36.00 | 90.00 | 12.00 | 24.00 | 10.8 | 36.0 | 45.0 |
| 2A146-1200A060-TCMI | ○ | ○ | ● | 12.00 | 3.0 | 18.1 | 36.00 | 90.00 | 12.00 | 60.00 | 10.8 | 36.0 | 45.0 |

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Common data values

| ZEFP | FHA [deg] | TCDCON |
|---|---|---|
| 6 | 42.000 | h6 |

Imperial (inch)

| | P | M | S | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 2A146-0635A013-TCIC | ○ | ○ | ● | 0.250 | 0.040 | 0.236 | 0.750 | 2.500 | 0.250 | 0.500 | 0.225 | 0.750 | 1.083 |
| 2A146-0635A032-TCIC | ○ | ○ | ● | 0.250 | 0.040 | 0.376 | 0.750 | 2.500 | 0.250 | 1.250 | 0.225 | 0.750 | 1.083 |
| 2A146-0953A019-TCIE | ○ | ○ | ● | 0.375 | 0.080 | 0.354 | 1.125 | 3.000 | 0.375 | 0.750 | 0.338 | 1.125 | 1.437 |
| 2A146-0953A048-TCIE | ○ | ○ | ● | 0.375 | 0.080 | 0.564 | 1.125 | 3.000 | 0.375 | 1.875 | 0.338 | 1.125 | 1.437 |
| 2A146-1270A025-TCIG | ○ | ○ | ● | 0.500 | 0.120 | 0.472 | 1.500 | 3.750 | 0.500 | 1.000 | 0.450 | 1.500 | 1.967 |
| 2A146-1270A064-TCIG | ○ | ○ | ● | 0.500 | 0.120 | 0.753 | 1.500 | 3.750 | 0.500 | 2.500 | 0.450 | 1.500 | 1.967 |

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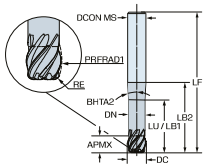
# CoroMill® Plura barrel, solid carbide end mill for profiling

Optimised for heat resistant super alloys (HRSA)




Common data values

| ZEFP | TCDCON |
|---|---|
| 6 | h6 |

Metric (mm)

| | K | S | H |
|---|---|---|---|

| Ordering code | R2AH | R2AH | R2AH | DC [mm] | $RE_2$ [mm] | APMX [mm] | LU [mm] | LF [mm] | $DCON_{MS}$ [mm] | PRFRAD [mm] | DN [mm] | $LB_1$ [mm] | $LB_2$ [mm] | FHA [deg] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A146-0600A012-RCMH | ○ | ● | ○ | 6.00 | 1.0 | 5.7 | 18.00 | 90.00 | 10.00 | 12.00 | 5.4 | 18.0 | 50.0 | 38.00 |
| 2A146-0600A030-RCMH | ○ | ● | ○ | 6.00 | 1.0 | 9.0 | 18.00 | 90.00 | 10.00 | 30.00 | 5.4 | 18.0 | 50.0 | 42.00 |
| 2A146-0800A016-RCMH | ○ | ● | ○ | 8.00 | 1.0 | 7.6 | 24.00 | 100.00 | 10.00 | 16.00 | 7.2 | 24.0 | 60.0 | 38.00 |
| 2A146-0800A040-RCMH | ○ | ● | ○ | 8.00 | 1.0 | 12.0 | 24.00 | 100.00 | 10.00 | 40.00 | 7.2 | 24.0 | 60.0 | 42.00 |
| 2A146-1000A020-RCMI | ○ | ● | ○ | 10.00 | 2.0 | 9.4 | 30.00 | 110.00 | 12.00 | 20.00 | 9.0 | 30.0 | 65.0 | 38.00 |
| 2A146-1000A050-RCMI | ○ | ● | ○ | 10.00 | 2.0 | 15.1 | 30.00 | 110.00 | 12.00 | 50.00 | 9.0 | 30.0 | 65.0 | 42.00 |
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Imperial (inch)

| | K | S | H |
|---|---|---|---|

| Ordering code | R2AH | R2AH | R2AH | DC [inch] | $RE_2$ [inch] | APMX [inch] | LU [inch] | LF [inch] | $DCON_{MS}$ [inch] | PRFRAD [inch] | DN [inch] | $LB_1$ [inch] | $LB_2$ [inch] | FHA [deg] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A146-0635A013-RCIE | ○ | ● | ○ | 0.250 | 0.040 | 0.236 | 0.750 | 3.750 | 0.375 | 0.500 | 0.225 | 0.750 | 2.187 | 38.000 |
| 2A146-0635A032-RCIE | ○ | ● | ○ | 0.250 | 0.040 | 0.376 | 0.750 | 3.750 | 0.375 | 1.250 | 0.225 | 0.750 | 2.187 | 42.000 |
| 2A146-0953A019-RCIG | ○ | ● | ○ | 0.375 | 0.080 | 0.354 | 1.125 | 4.250 | 0.500 | 0.750 | 0.338 | 1.125 | 2.467 | 38.000 |
| 2A146-0953A048-RCIG | ○ | ● | ○ | 0.375 | 0.080 | 0.564 | 1.125 | 4.250 | 0.500 | 1.875 | 0.338 | 1.125 | 2.467 | 42.000 |
| 2A146-1270A025-RCII | ○ | ● | ○ | 0.500 | 0.120 | 0.472 | 1.500 | 5.000 | 0.625 | 1.000 | 0.450 | 1.500 | 3.094 | 38.000 |
| 2A146-1270A064-RCII | ○ | ● | ○ | 0.500 | 0.120 | 0.753 | 1.500 | 5.000 | 0.625 | 2.500 | 0.450 | 1.500 | 3.094 | 42.000 |

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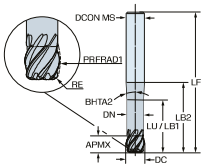


Common data values

| ZEFP | TCDCON |
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Metric (mm)

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| 2A146-0800A040-RCMF | ○ | ● | ○ | 8.00 | 1.0 | 12.0 | 24.00 | 70.00 | 8.00 | 40.00 | 7.2 | 24.0 | 34.0 | 42.00 |
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Imperial (inch)

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| 2A146-0953A019-RCIE | ○ | ● | ○ | 0.375 | 0.080 | 0.354 | 1.125 | 3.000 | 0.375 | 0.750 | 0.338 | 1.125 | 1.437 | 38.000 |
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