

# Tool Philosophy

## OVER 20 YEARS OF COMBINED EXPERTISE FOR YOUR SUCCESS

For over two decades, we have played a key role in shaping the dental industry and setting standards in the production of high-precision tools for dental restorations. Our focus is on the development and production of premium tools that impress with their quality and innovation.

Many years of experience and specialized know-how are the basis of our success. With an experienced team of CAD/CAM experts and a high-performance development department, we are continuously driving forward tool technology for dental applications. Each tool is developed in close cooperation with our customers and partners to ensure maximum precision and efficiency.

We not only optimize the tool geometry, but also develop individually tailored milling strategies, especially for use in our CORiTEC milling machines. Our aim is to offer a perfectly adapted solution for every application.



The highest quality standards in day-to-day work can only be achieved only through a seamless and holistic process. Instead of isolated individual solutions, we rely on a perfectly coordinated system for dental practices and dental laboratories. This comprises CORiTEC CNC machines, CAM software, materials, milling tools and workpiece holders, which interact precisely and reliably. The result is a significant reduction in process complexity and an efficient, optimized workflow.

Our tools are developed in close cooperation with leading manufacturers and produced using the latest manufacturing technologies. In this way, we ensure that every CORiTEC milling tool meets the highest quality standards and satisfies even the most demanding applications.

With CORiTEC milling tools from imes-core, you are choosing more than just a high-quality tool - you are choosing a reliable partner who consistently supports your demands for precision and innovation.

# Tool Explanation

**Material compatibility with tool number**  
The tool number above (T-number) shows which tool number must be assigned in the machine for the corresponding material.  
For example: T13 = Zirconia | T40 = SINT | T50 = COMP

**Image of the tool**

**Diameter of the tool tip**  
Ø 2.5mm

**Material height**  
This symbol indicates the maximum material height that can be processed with this milling tool, e.g., up to 25 mm for a disc.

**Coating**  
1 diamond = diamond grit  
2 diamonds = diamond coating

**Designation of the tool**  
The tool designation consists of:  
-Specification of possible tool numbers (T13/T40/T50)  
-Diameter of the tool tip and shank (2.5 | 3.0 mm)  
-Tool type (Radius Milling Tool)  
-Special tool features (diamond coated)

**Article number**

**T13/T40/T50 - 2.5 | 3.0 mm**  
**Radius Milling Tool (diamond coated)**  
**Art.-No. 530013 2503**

**T13** Zr  
**T40** SINT  
**T50** COMP

## BASE COLORS PACKAGING

The color coding indicates which material can be processed with the tool and is defined as follows:

- Milling tool for Ti and/or CoCr
- Milling tool for plastic/wax/Zr
- Diamond-coated milling tool for Zr/sintered metal/composite
- Grinding tool for glass ceramics
- Universal milling tool
- Calibration tool

## MATERIAL LEGEND

Zr Zirconia	glass ceramics Glass ceramics	Ti Titanium	calibr. Calibration
PMMA PMMA / Plastics	COMP Composite materials	CoCr Cobalt chrome	Aligner Aligner
WAX Wax	PEEK PEEK	SINT Sintered metal	



# 3 mm | Soft Materials

FOR ZIRCONIA, PMMA, PEEK, WAX, COMPOSITE, AND SINTERED METAL

3-mm shaft tools for the precise machining of soft materials. Whether zirconia, PMMA, PEEK, wax, composite, or sintered metal – these milling tools combine universal application possibilities with maximum efficiency.

Thanks to their specially optimized cutting edge geometry, they deliver clean cutting results and ensure excellent surface quality – providing you with maximum flexibility and reliability.

 <p>Ø 1.5mm</p> <p>T5 T10 T17 ≤25mm Ti CoCr WAX PMMA Zr</p> <p><b>T5/T10/T17 - 1.5   3.0 mm</b> Shaft Milling Tool (l = 15mm), universal Art.-No. 530001 1503</p>	 <p>Ø 2.5mm</p> <p>T11 ≤25mm PMMA WAX PEEK</p> <p><b>T11 - 2.5   3.0 mm</b> Radius Milling Tool (single blade, slide coated) Art.-No. 530004 2503</p>	 <p>Ø 2.5mm</p> <p>T11 T13 ≤25mm PMMA Zr WAX</p> <p><b>T11/T13 - 2.5   3.0 mm</b> Radius Milling Tool Art.-No. 530016 2503</p>
 <p>Ø 1.0mm</p> <p>T12 ≤25mm PMMA WAX PEEK</p> <p><b>T12 - 1.0   3.0 mm</b> Radius Milling Tool (single blade, slide coated) Art.-No. 530004 1003</p>	 <p>Ø 1.0mm</p> <p>T12 T14 ≤25mm PMMA Zr WAX</p> <p><b>T12/T14 - 1.0   3.0 mm</b> Radius Milling Tool Art.-No. 530016 1003</p>	 <p>Ø 2.5mm</p> <p>T13 T40 T50 ≤25mm Zr SINT COMP</p> <p><b>T13/T40/T50 - 2.5   3.0 mm</b> Radius Milling Tool (diamond coated) Art.-No. 530013 2503</p>

 <p>Ø 1.0mm</p> <p>T14 T41 T51 ≤25mm Zr SINT COMP</p> <p><b>T14/T41/T51 - 1.0   3.0 mm</b> Radius Milling Tool (diamond coated) Art.-No. 530013 1003</p>	 <p>Ø 0.6mm</p> <p>T15 T42 T52 ≤25mm PMMA WAX Zr SINT COMP</p> <p><b>T15/T42/T52 - 0.6   3.0 mm</b> Radius Milling Tool (conical) Art.-No. 530016 0603</p>	 <p>Ø 1.5mm</p> <p>T16 ≤15mm PMMA WAX Zr</p> <p><b>T16 - 1.5   3.0 mm</b> Radius Milling Tool (l = 15 mm) Art.-No. 530016 1503</p>
 <p>Ø 0.5mm</p> <p>T19 ≤15mm universal</p> <p><b>T19 - 0.5   3.0 mm</b> Shaft Milling Tool (l = 4 mm), universal Art.-No. 530001 0503</p>	 <p>Ø 3.0mm</p> <p>T31 ≤30mm PMMA WAX PEEK</p> <p><b>T31 - 3.0   3.0 mm</b> Shaft Milling Tool long (single blade, slide coated) Art.-No. 530012 3003</p>	 <p>Ø 0.6mm</p> <p>T32 ≤25mm PMMA WAX Zr</p> <p><b>T32 - 0.6   3.0 mm</b> Radius Milling Tool (l = 12 mm) Art.-No. 530012 0603</p>
 <p>Ø 0.3mm</p> <p>T33 T43 T53 ≤25mm PMMA WAX Zr SINT COMP</p> <p><b>T33/T43/T53 - 0.3   3.0 mm</b> Radius Milling Tool (conical) Art.-No. 530016 0303</p>	 <p>Ø 1.5mm</p> <p>T37 ≤25mm PMMA WAX Zr</p> <p><b>T37 - 1.5   3.0 mm</b> Torus Milling Tool (r = 0,08 mm, l = 20mm) Art.-No. 530035 1503</p>	 <p>Ø 2.5mm</p> <p>T98 ≤25mm calibr.</p> <p><b>T98 - 2.5   3.0 mm</b> Shaft Milling Tool (l = 20mm, three blades) Art.-No. 530024 2503</p>

# 3 mm | Metal Processing

FOR TITANIUM AND COBALT-CHROME



Ø 3.0mm

T1	T6	≤15mm
Ti	CoCr	

**T1/T6 - 3.0 | 3.0 mm**  
Radius Milling Tool (l = 15 mm)  
Art.-No. 530029 3003



Ø 2.0mm

T2	T7	≤15mm
Ti	CoCr	

**T2/T7 - 2.0 | 3.0 mm**  
Radius Milling Tool (l = 12 mm)  
Art.-No. 530029 2003



Ø 1.5mm

T3	T8	≤15mm
Ti	CoCr	

**T3/T8 - 1.5 | 3.0 mm**  
Radius Milling Tool (l = 12 mm)  
Art.-No. 530029 1503



Ø 1.0mm

T4	T9	≤15mm
Ti	CoCr	

**T4/T9 - 1.0 | 3.0 mm**  
Radius Milling Tool (l = 9 mm)  
Art.-No. 530029 1003

The milling tools are specifically tailored to the demands of modern metalworking. They impress with the highest precision when machining challenging materials such as titanium and CoCr, setting new standards in efficiency and durability.



Ø 1.5mm

T5	T10	T17	≤25mm
Ti	CoCr PMMA	WAX Zr	

**T5/T10/T17 - 1.5 | 3.0 mm**  
Shaft Milling Tool (l = 15 mm), universal  
Art.-No. 530001 1503



Ø 0.5mm

T19	≤15mm
universal	

**T19 - 0.5 | 3.0 mm**  
Shaft Milling Tool (l = 4 mm)  
Art.-No. 530001 0503



Ø 0.6mm

T20	≤15mm
Ti CoCr	

**T20 - 0.6 | 3.0 mm**  
Radius Milling Tool (conical)  
Art.-No. 530003 0603



Ø 2.0mm

T58	T59	≤15mm
Ti	CoCr	

**T58/T59 - 2.0 | 3.0 mm**  
Highspeed Milling Tool Short (l = 15 mm)  
Art.-No. 530031 2003

Thanks to their optimized design, they enable uniform cutting and ensure reliable machining with outstanding surface quality. Our milling tools combine stability and versatility, minimize wear to an absolute minimum, and meet even the highest demands.



PHILOSOPHY  
LEGEND  
3 MM TOOLS  
6 MM TOOLS  
DEVELOPMENTS

# 3 mm | Grinding Tools

FOR GLASS-CERAMICS SUCH AS LITHIUM DISILICATE AND FELDSPAR CERAMICS

Our grinding tools feature electroplated coatings specially designed for machining glass ceramics. The diamond grit is precisely tailored in size and shape to the specific application, as is the concentration of diamonds. A robust carbide substrate ensures additional stability and long service life. As a result, the tools offer maximum efficiency and precision – ideal for use with demanding materials.



## HIGHLIGHTS

- Tailored for hard materials such as glass ceramics
- Diamond grit and concentration adapted to the application
- Stability and precision for high-quality results

PHILOSOPHY  
LEGEND  
3 MM TOOLS  
6 MM TOOLS  
DEVELOPMENTS

# 6 mm | Soft Materials

FOR ZIRCONIA, PMMA, PEEK, WAX, COMPOSITE, AND SINTERED METAL

The 6-mm milling tools are characterized by their strengthened shaft, which ensures increased stability and reduced vibrations. This not only enables precise machining but also extends tool life. Especially when processing hard materials, they offer maximum reliability and consistent performance thanks to their optimized design and robustness.



T11  
PMMA  
WAX  
PEEK  
≤25mm

**T11 - 2.5 | 6.0 mm**  
Radius Milling Tool (single blade, slide coated)  
Art.-No. 530004 2506



T11 T13  
PMMA Zr  
WAX  
≤25mm

**T11/T13 - 2.5 | 6.0 mm**  
Radius Milling Tool  
Art.-No. 526019 2506



T12  
PMMA  
WAX  
PEEK  
≤25mm

**T12 - 1.0 | 6.0 mm**  
Radius Milling Tool (single blade, slide coated)  
Art.-No. 530004 1006



T12 T14  
PMMA Zr  
WAX  
≤25mm

**T12/T14 - 1.0 | 6.0 mm**  
Radius Milling Tool  
Art.-No. 526019 1006



T13 T40 T50  
Zr SINT COMP  
≤25mm

**T13/T40/T50 - 2.5 | 6.0 mm**  
Radius Milling Tool (diamond coated)  
Art.-No. 526013 2506



T14 T41 T51  
Zr SINT COMP  
≤25mm

**T14/T41/T51 - 1.0 | 6.0 mm**  
Radius Milling Tool (diamond coated)  
Art.-No. 526013 1006



T15 T42 T52  
PMMA WAX Zr SINT COMP  
≤25mm

**T15/T42/T52 - 0.6 | 6.0 mm**  
Radius Milling Tool (conical)  
Art.-No. 526019 0606



T16  
PMMA  
WAX  
Zr  
≤25mm

**T16 - 1.5 | 6.0 mm**  
Radius Milling Tool long (l = 15 mm)  
Art.-No. 526019 1506



T17  
PMMA  
WAX  
Zr  
≤25mm

**T17 - 1.5 | 6.0 mm**  
Shaft Milling Tool (l = 15 mm)  
Art.-No. 526001 1506



T18  
universal  
≤15mm

**T18 - 0.5 | 6.0 mm**  
Radius Milling Tool (l = 4 mm), universal  
Art.-No. 526026 0506



T19  
universal  
≤15mm

**T19 - 0.5 | 6.0 mm**  
Shaft Milling Tool (l = 4 mm), universal  
Art.-No. 526001 0506



T30  
PMMA  
WAX  
PEEK  
≤30mm

**T30 - 4.0 | 6.0 mm**  
Shaft Milling Tool long (l=32mm, single blade, slide coated)  
Art.-No. 526012 4006



T32  
PMMA  
WAX  
Zr  
≤25mm

**T32 - 0.6 | 6.0 mm**  
Radius Milling Tool long (l = 12 mm)  
Art.-No. 526012 0606



## SPECIAL APPLICATIONS



**T33 T43 T53**  
 PMMA WAX Zr SINT COMP  
 ≤25mm

**T33/T43/T53 - 0.3 | 6.0 mm**  
 Radius Milling Tool (conical)  
 Art.-No. 526019 0306



**T34**  
 PMMA WAX  
 ≤30mm

**T34 - 3.0 | 6.0 mm**  
 Radius Milling Tool long (l = 27 mm)  
 Art.-No. 526012 3006



**T35**  
 PMMA WAX  
 ≤30mm

**T35 - 2.0 | 6.0 mm**  
 Radius Milling Tool long (l = 20 mm)  
 Art.-No. 526012 2006



**T98**  
 calibr.

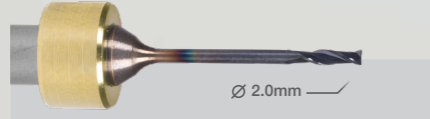
**T98 - 2.5 | 6.0 mm**  
 Shaft Milling Tool (l = 20 mm, three blades)  
 Art.-No. 526024 2506

For reliable and precise results, the correct calibration of your machines is essential. Our calibration tools ensure that your manufacturing processes are always optimally adjusted. With the highest accuracy, they help you minimize downtime and maintain consistently high quality.



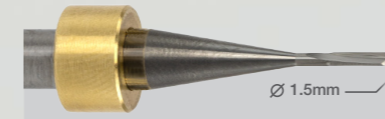
**T36**  
 PMMA WAX  
 ≤30mm

**T36 - 4.0 | 6.0 mm**  
 Radius Milling Tool long (l = 31 mm)  
 Art.-No. 530019 4006



**T37**  
 PMMA WAX Zr  
 ≤30mm

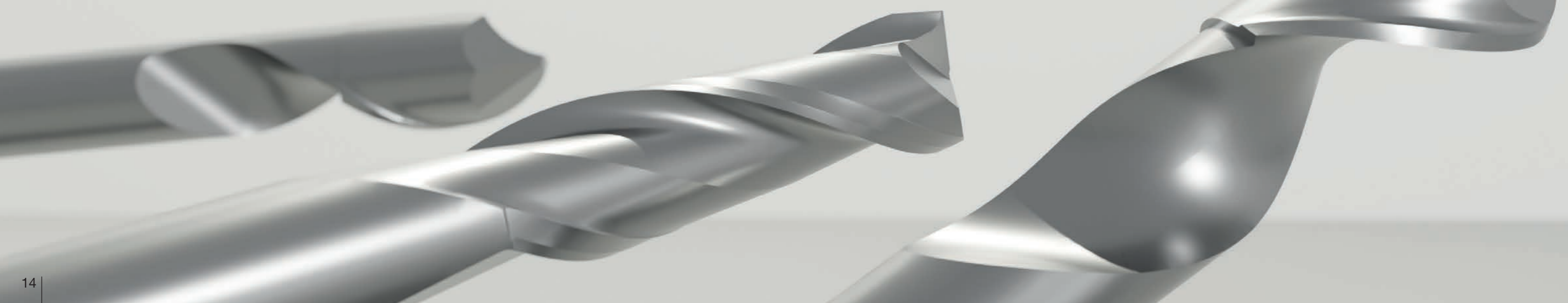
**T37 - 1.5 | 6.0 mm**  
 Torus Milling Tool long (r=0,08 mm, l = 20 mm)  
 Art.-No. 530035 1506



**T112**  
 Aligner  
 ≤30mm

**T112 - 1.5 | 6.0 mm**  
 Shaft Milling Tool (single blade)  
 Art.-No. 526041 1506

Special milling tools for processing aligners for selected imes-icore machines.



# 6 mm | Metal Processing

## FOR TITANIUM UND COBALT-CHROME

When maximum stability and reliability are required, our 6-mm tools are the ideal solution. Specifically designed for the demands of larger CORiTEC machines, they impress with their robustness and efficiency when machining metals such as titanium and CoCr.

With their strengthened shaft, they minimize vibrations and ensure consistent, precise cutting results – even during intensive machining. These milling tools are the perfect choice for tasks that demand performance and durability.



**T1** **T6**  $\leq 15\text{mm}$   
Ti CoCr

**T1/T6 - 3.0 | 6.0 mm**  
Radius Milling Tool short (l = 15mm)  
Art.-No. 526029 3006



**T2** **T7**  $\leq 15\text{mm}$   
Ti CoCr

**T2/T7 - 2.0 | 6.0 mm**  
Radius Milling Tool short (l = 1mm)  
Art.-No. 526029 2006



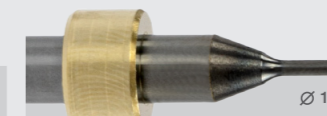
**T3** **T8**  $\leq 15\text{mm}$   
Ti CoCr

**T3/T8 - 1.5 | 6.0 mm**  
Radius Milling Tool (l = 12 mm)  
Art.-No. 526029 1506



**T4** **T9**  $\leq 15\text{mm}$   
Ti CoCr

**T4/T9 - 1.0 | 6.0 mm**  
Radius Milling Tool short (l = 9 mm)  
Art.-No. 526029 1006



**T5** **T10**  $\leq 15\text{mm}$   
Ti CoCr

**T5/T10 - 1.5 | 6.0 mm**  
Shaft Milling Tool short (l = 12mm, four blades)  
Art.-No. 526002 1506



**T18**  $\leq 15\text{mm}$   
universal

**T18 - 0.5 | 6.0 mm**  
Radius Milling Tool (l = 4 mm), universal  
Art.-No. 526026 0506



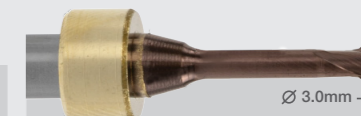
**T19**  $\leq 15\text{mm}$   
universal

**T19 - 0.5 | 6.0 mm**  
Shaft Milling Tool (l = 4 mm), universal  
Art.-No. 526001 0506



**T20**  $\leq 15\text{mm}$   
Ti CoCr

**T20 - 0.6 | 6.0 mm**  
Radius milling Tool (conical)  
Art.-No. 526003 0606



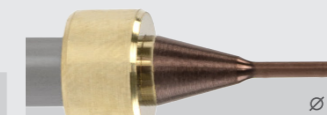
**T26** 16-20mm  
Ti CoCr

**T26 - 3.0 | 6.0 mm**  
Radius Milling Tool long (l = 20 mm)  
Art.-No. 526030 3006



**T27** 16-20mm  
Ti CoCr

**T27 - 2.0 | 6.0 mm**  
Radius Milling Tool long (l = 16 mm)  
Art.-No. 526030 2006



**T28** 16-20mm  
Ti CoCr

**T28 - 1.5 | 6.0 mm**  
Radius Milling Tool long (l = 15 mm)  
Art.-No. 526030 1506



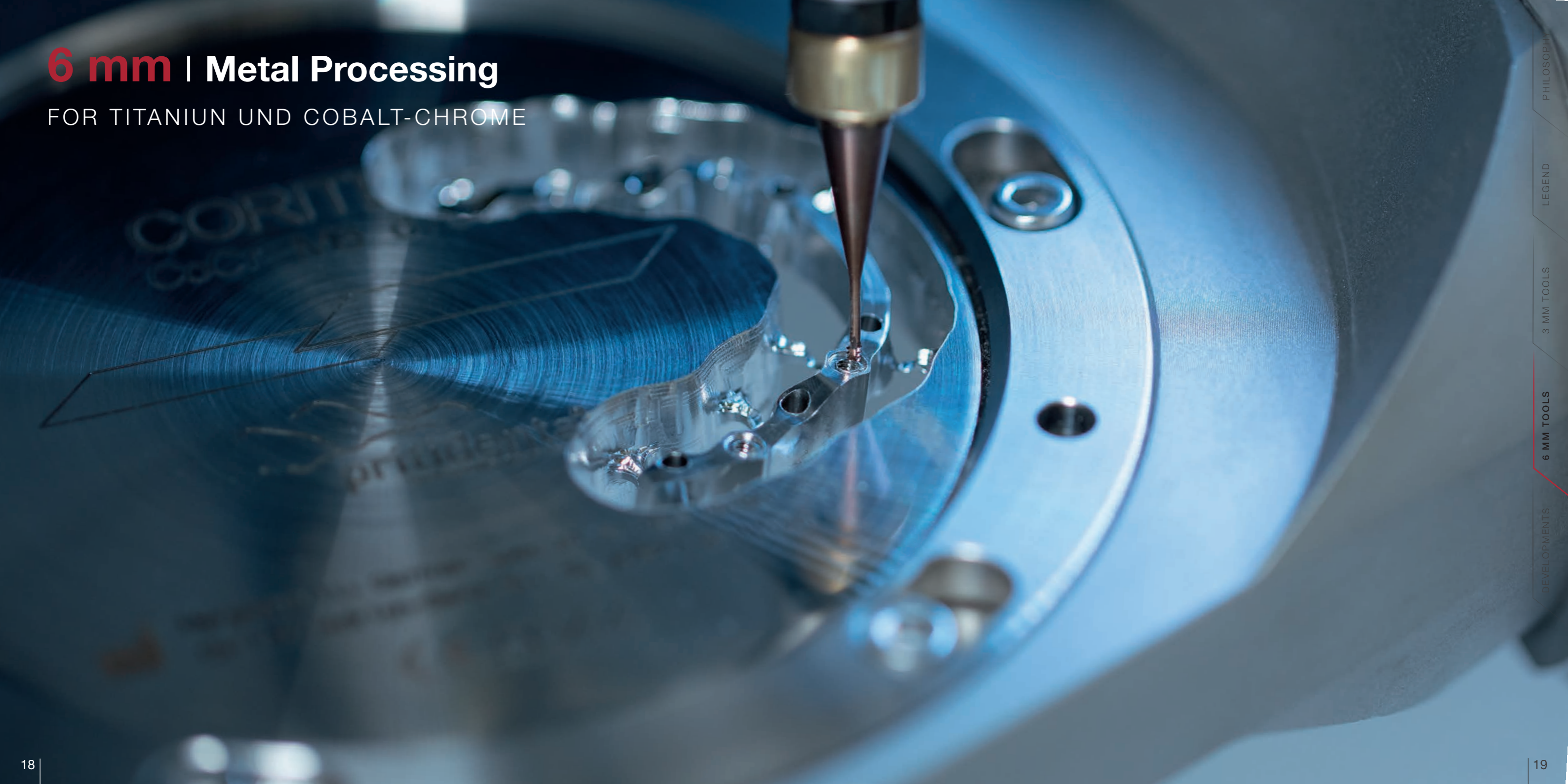
**T29** 16-20mm  
Ti CoCr

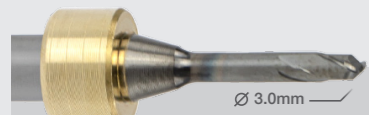
**T29 - 1.0 | 6.0 mm**  
Radius Milling Tool long (l = 11 mm)  
Art.-No. 526030 1006



# 6 mm | Metal Processing

FOR TITANIUM UND COBALT-CHROME





**T60** ≤15mm  
Ti

**T60 - 3.0 | 6.0 mm**  
Highspeed Milling Tool short(l = 15 mm)  
Art.-No. 530031 3006



**T61** ≤15mm  
CoCr

**T61 - 3.0 | 6.0 mm**  
Quattro Speed Milling Tool (l = 15 mm)  
Art.-No. 526025 3006



**T62** ≤15mm  
Ti  
CoCr

**T62 - 2.0 | 6.0 mm**  
Torus Milling Tool (r=0,2mm, l=16mm, four blades)  
Art.-No. 526025 2006



**T80** ≤20mm  
Ti  
CoCr

**T80 - 2.5 | 6.0 mm**  
Drilling Tool (l = 22 mm)  
Art.-No. 526023 2506



**T81** ≤20mm  
Ti  
CoCr

**T81 - 1.5 | 6.0 mm**  
Drilling Tool (l = 18 mm)  
Art.-No. 526023 1506



**T82** ≤20mm  
Ti  
CoCr

**T82 - 2.65 | 6.0 mm**  
Drilling Tool (l=21 mm)  
Art.-No. 526031 26506



**T63** ≤15mm  
Ti  
CoCr

**T63 - 1.5 | 6.0 mm**  
Torus Milling Tool (r=0,08mm, l=7mm, two blades)  
Art.-No. 526025 1506



**T64** ≤15mm  
Ti  
CoCr

**T64 - 1.5 | 6.0 mm**  
Torus Milling Tool (r=0,08mm, l=15mm, two blades)  
Art.-No. 526028 1506



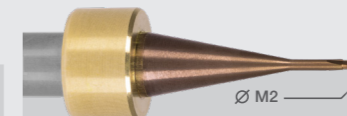
**T67** ≤15mm  
Ti  
CoCr

**T67 - 2.0 | 6.0 mm**  
Shaft Milling Tool short(l = 7 mm, four blades)  
Art.-No. 526002 2006



**T83** ≤20mm  
Ti  
CoCr

**T83 - 2.25 | 6.0 mm**  
Drilling Tool (l = 21 mm)  
Art.-No. 526032 22506



**T103**  
Ti  
CoCr

**T103 - M2 | 6.0 mm**  
Thread Milling Tool  
Art.-No. 526040 2006



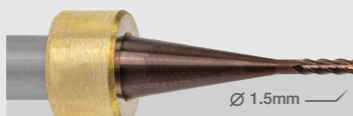
**T121** ≤25mm  
Ti  
CoCr

**T121 - 1.6x 0.7 | 6.0 mm**  
T-tool 90°(d = 0,65 mm, l= 7,5 mm, three blades)  
Art.-No. 530040 1606



**T68**  
Ti  
CoCr

**T68 - 1.5 | 6.0 mm**  
Shaft Milling Tool long (l = 15 mm, four blades)  
Art.-No. 526021 1506



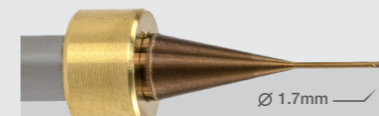
**T69** ≤15mm  
Ti  
CoCr

**T69 - 1.5 | 6.0 mm**  
Shaft Milling Tool short(l = 7 mm, four blades)  
Art.-No. 530032 1506



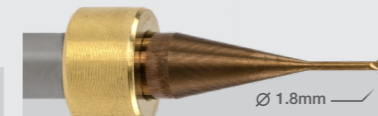
**T71**  
CoCr

**T71 - 3.0 | 6.0 mm**  
Ironbiter, Milling Tool (l = 15 mm)  
Art.-No. 530025 3006



**T122**  
Ti  
CoCr

**T122 - 1.7 x 0.7 | 6.0 mm**  
T-tool 90°(d= 0.65 mm, l= 8.0 mm, three blades)  
Art.-No. 530040 1706



**T123**  
Ti  
CoCr

**T123 - 1.8 x 1.0 | 6.0 mm**  
T-tool 90°(d= 0,9 mm, l= 7.1 mm, three blades)  
Art.-No. 530040 1806



**T124** ≤25mm  
Ti  
CoCr

**T124 - 2.0 x 1.0 | 6.0 mm**  
T-tool 90°(d= 1.0 mm, l= 9.0 mm, three blades)  
Art.-No. 530040 2006

# 6 mm | Grinding Tools

FOR GLASS-CERAMICS SUCH AS LITHIUM DISILICATE AND FELDSPAR CERAMICS

Our grinding tools feature electroplated coatings specifically designed for the machining of glass ceramics. The diamond grit is precisely tailored in size and shape to the specific application, as is the concentration of diamonds. A robust carbide substrate provides additional stability and ensures a long service life. This results in maximum efficiency and precision, making these tools ideal for use with demanding materials – perfect for dental and laboratory applications.



**T21**  
glass ceramics

**T21 - 2.5 | 6.0 mm**  
Radius Grinding Tool (diamond)  
Art.-No. 526005 2506



**T22**  
glass ceramics

**T22 - 1.0 | 6.0 mm**  
Radius Grinding Tool (diamond)  
Art.-No. 526005 1006



**T23**  
glass ceramics

**T23 - 0.6 | 6.0 mm**  
Radius Grinding Tool (conical, diamond)  
Art.-No. 526005 0606



**T24**  
glass ceramics

**T24 - 1.5 | 6.0 mm**  
Radius Grinding Tool (diamond)  
Art.-No. 526005 1506



# Developments

DISCOVER OUR NEW TOOLS



Smoother running behavior,  
faster roughing & avoidance  
of material adhesion

Ideal for  
dentures



NEW

**Milling tool** | PMMA  
WAX

T36 – 4.0 | 6.0 mm



Special application for  
metal processing

Fast and precise  
processing of drill channels



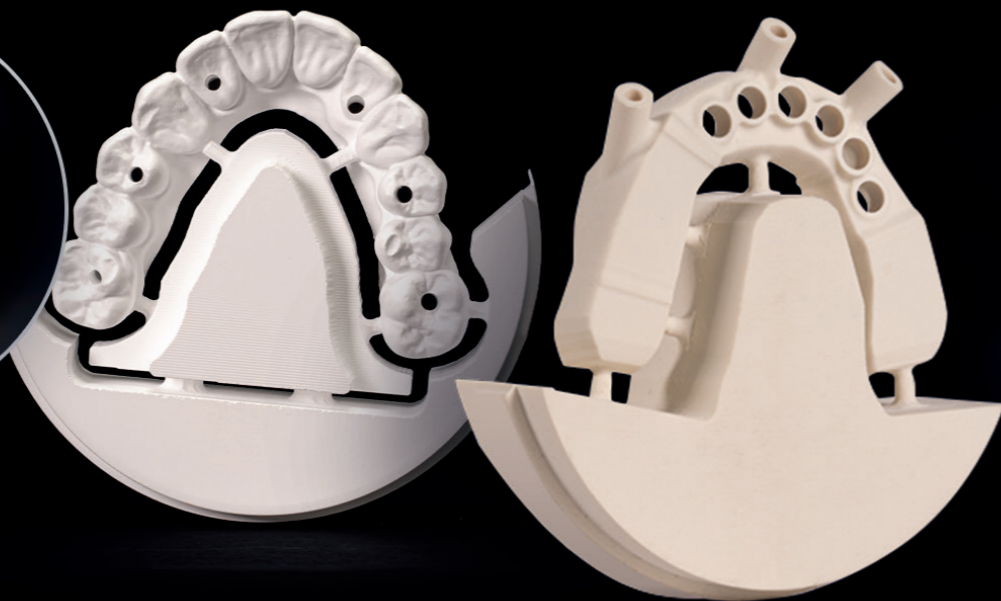
NEW

**Drilling tool** | Ti  
CoCr

T82 – 2.65 | 6.0 mm

T83 – 2.25 | 6.0 mm

Enables the machining of  
**extra-long screw channels**  
(up to 20 mm)



**NEW**

## Torus Milling tool

PMMA  
WAX  
Zr

T37 – 1.5 | 6.0 mm  
1.5 | 3.0 mm



Relieves 1 mm tool  
effectively

More precise  
screw channels



Perfect for  
• All glass materials  
• Hybrid ceramics  
• Sintered zirconia

**NEW**

## Grinding tool

glas-  
ceramics

T24 – 1.5 | 6.0 mm

# Global Support

SALES AND SUPPORT PARTNERS  
IN OVER 100 COUNTRIES



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**uberVo dental**  
**BusinessPark Zevenhuis**  
Jelle Zijlstraweg 62E  
1689 ZX Zwaag  
The Netherlands

[www.ubervo.nl](http://www.ubervo.nl)