KORLOY DENTAL MILLING TOOLS





Holystar B/D, 1350, Nambusunhwan-ro, Geumcheon-gu, Seoul, 08536, Korea
Tel: +82-2-522-3181 Fax: +82-2-522-3184, +82-2-3474-4744 Web: www.korloy.com E-mail: export@korloy.com

KORLOY AMERICA620 Maple Avenue, Torrance, CA 90503, USA

620 Maple Avenue, Torrance, CA 90503, USA
Tel:+1-310-782-3800 Toll Free:+1-888-711-0001 Fax:+1-310-782-3885
www.korlovamerica.com E-mail:sales@korlov.us

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Gablonzer Str. 25-27, 61440 Oberursel, Germany
Tel: +49-6171-277-83-0 Fax: +49-6171-277-83-59
www.korloveurope.com E-mail: sales@korloveurope.com

(a) KORLOY INDIA

Plot NO.415, Sector 8, IMT Manesar, Gurgaon 122051, Haryana, INDIA
Tel: +91-124-4391790 Fax: +91-124-4050032
www.korlovindia.com E-mail: sales.kip@korlov.com

BR05-EM-02 / 20170820

(A) KORLOY BRASIL

Av. Aruana 280, conj.12, WLC, Alphaville, Barueri, CEP06460-010, SP, Brasil Tel: +55-11-4193-3810 E-mail: vendas@korloy.com KORLOY Dental Milling Tools

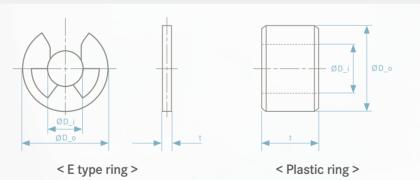
T ENDMILL Code System



** Stop rings and other tool resources can be made to order. CData sheet> Type of machine Dental material D1 Cutting diameter D2 Shank diameter L1 Cutting length L2 Neck length L3 Stop ring position L4 Overall length ** Should you make a special order, please complete this form and send it to an adjacent KORLOY sales office.

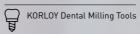
STOP RING SPECIFICATION

CUSTOM MADE TOOLS



Туре		Stop ring		Shank diameter		
туре	ØD_o(mm)	ØD_i(mm)	t(mm)	Ø3	Ø4	Ø6
	Ø7.55	Ø3	4.45	•		
Plastic ring	Ø7.7	Ø4	5.0		•	
	Ø10.5	Ø6	6.5			•
E type ring	Ø 6.0	Ø2.5	0.4	•		

X Stop rings can be made to order when specified sizes are sent to an adjacent KORLOY sales office.



Recommended Cutting Conditions

Dia.	Application	ap (mm)	ae(mm)	Rpm(rev/min)	Feed(mm/min
Ø3.0	Roughing	0.12	0.70	10500	1150
Ø2.5	Semi-Finishing	0.08	0.53	11500	850
Ø2.0	Semi-Finishing	0.08	0.42	14500	850
Ø1.5	Finishing	0.04	0.32	19000	850
Ø1.0	Finishing	0.02	0.07	28500	850
Ø0.6	Finishing	0.02	0.07	28500	850

Dia.	Application	ap(mm)	ae(mm)	Rpm(rev/min)	Feed(mm/min)
Ø3.0	Roughing	0.50	1.50	23500	1600
Ø 2.5	Semi-Finishing	0.30	1.25	28000	1200
Ø 2.0	Semi-Finishing	0.30	1.00	35000	1200
Ø1.0	Finishing	0.10	0.20	38000	1050
Ø0.6	Finishing	0.10	0.20	63500	630

Glass-Ceramic

Dia.	Application	ap(mm)	ae(mm)	Rpm(rev/min)	Feed(mm/min
Ø3.0	Roughing	0.15	0.02	48000	2400
Ø2.0	Semi-Finishing	0.10	0.02	51000	2000
Ø 1.5	Finishing	0.10	0.01	52000	1500
Ø 1.0	Finishing	0.05	0.01	53000	1350

These data above may vary slightly, depending on the equipment and the workpiece shape you have.

T ENDMILL Specification

Endmills for Co-Cr / Ti Machining

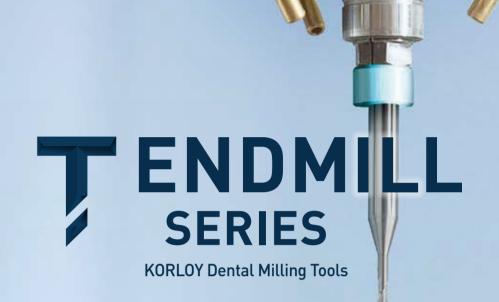
Туре	No. of flutes	Dia. (mm)	Neck length (mm)	Overall length (mm)	Shank dia. (mm)	Stop ring	Coating	Workpiece
Ball Radius	2F	Ø0.3~ Ø3.0	~20	40~	Ø3~Ø6	Customized	TiAlN or Non Coating	Ti Co-Cr

Endmills for Zirconium Machining

Туре	No. of flutes	Dia. (mm)	Neck length (mm)	Overall length (mm)	Shank dia. (mm)	Stop ring	Coating	Workpiece
Ball Radius	2F	Ø0.3~ Ø3.0	~20	40~	Ø3~Ø6	Customized	Dia. or Non Coating	Zirconium PMMA WAX Resin

Endmills for Glass-Ceramic Machining

Туре	No. of flutes	Dia. (mm)	Neck length (mm)	Overall length (mm)	Shank dia. (mm)	Stop ring	Coating	Workpiece
Ball Radius	-	Ø0.3~ Ø3.0	~20	40~	Ø3~Ø6	Customized	-	Glass- Ceramic







TENDMILL



Dental prosthetics must be harmless to the human body and requires special workpiece materials to also be corrosion-resistant. Precision tools are required to machine small and extremely small parts.

In order to meet these demands we provide customized solutions ideal for machining various dental prosthetics based on our 50 years expertise on grades and forming.



Dental Solution?

The T Endmill is the key to boosting your productivity considering its high accuracy and quality performance. This dental milling tool will lead the dental implant market which has been rapidly growing due to the aging population and recent advances in medical technology.

Who We Serve with the **TENDMILL**

- >> Customers who need custom tools and technical support according to prosthetic materials such as Zirconium, Co-Cr, Ti, Glass-Ceramic, PMMA, WAX, etc.
- >> Customers who need custom dental milling tools with different effective lengths, Shank diameters, stop ring points, etc.
- >> Customers who want higher productivity without the need to replace tools



Endmills for Co-Cr & Ti Machining

KORLOY coated endmills show advanced performance in machining metallic materials like Co-Cr & Ti thanks to their excellent wear resistance and minimized cutting force. Ultrafine substrate and TiAIN coated layers have been applied as well as corner design for low cutting loads.



Features • The ultra-fine substrate offers excellent wear resistance

- The coating technology offering low friction and high welding resistance
- Cutting edge design for low cutting loads







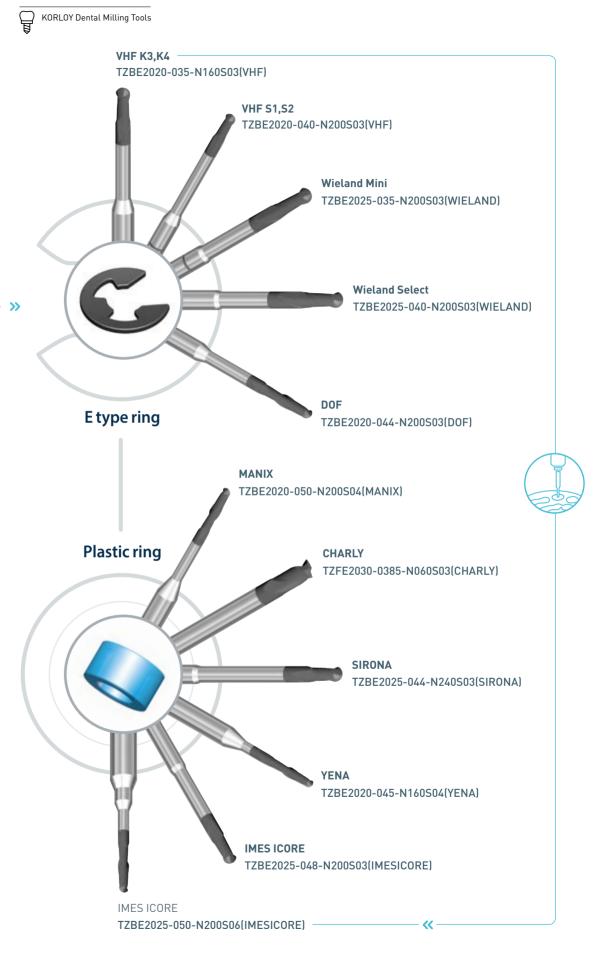
Endmills for Glass-Ceramic Machining

KORLOY electroplated diamond tools excel in machining glass-ceramics, and other materials due to their concentrated abrasive grains and exceptional performance. These tools make good use of a single layer of diamond powder electroplated on the shank surface.

Features • Use of natural diamond abrasive grains

- Uniformly distributed grains
- A high quality coating and its strong adhesion to the substrate





Endmills for Zirconium Machining

The T Endmill TZ Series is ideally suited for machining zirconium, aluminum oxide ceramic, hybrid resin and PMMA which demands high wear resistance and high speed applicability on cutting tools. Our technology leverages a CVD diamond coating that has extremely high hardness and purity.

Features • A high-purity diamond coating

- Improved resistance to wear and flaking thanks to the coating's exceptional adhesion to the substrate
- High precision gained through the ball's one-pass grinding







KORLOY

Dental Milling Tools

