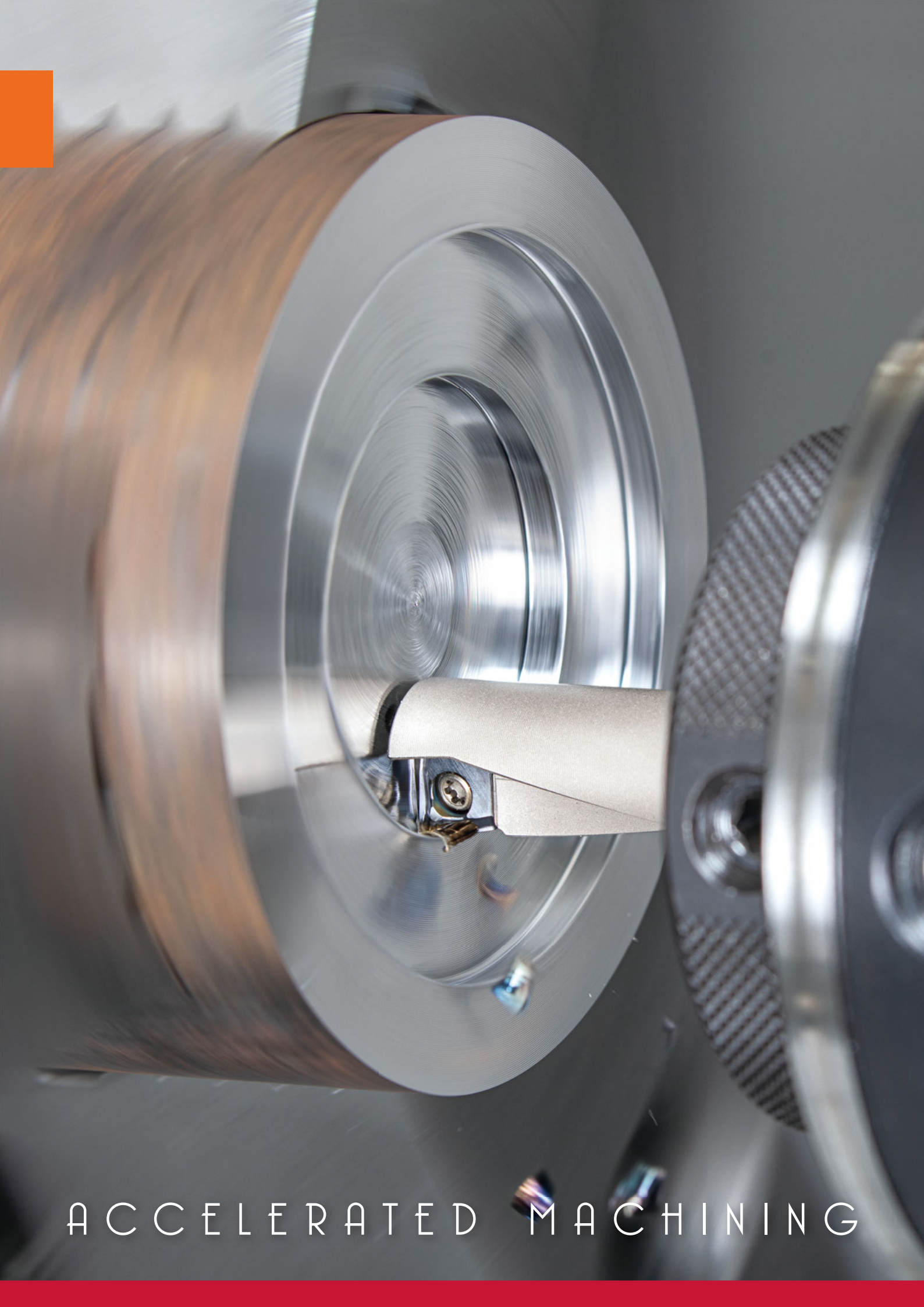


Multifunctional tool for drilling and turning





ACCELERATED MACHINING



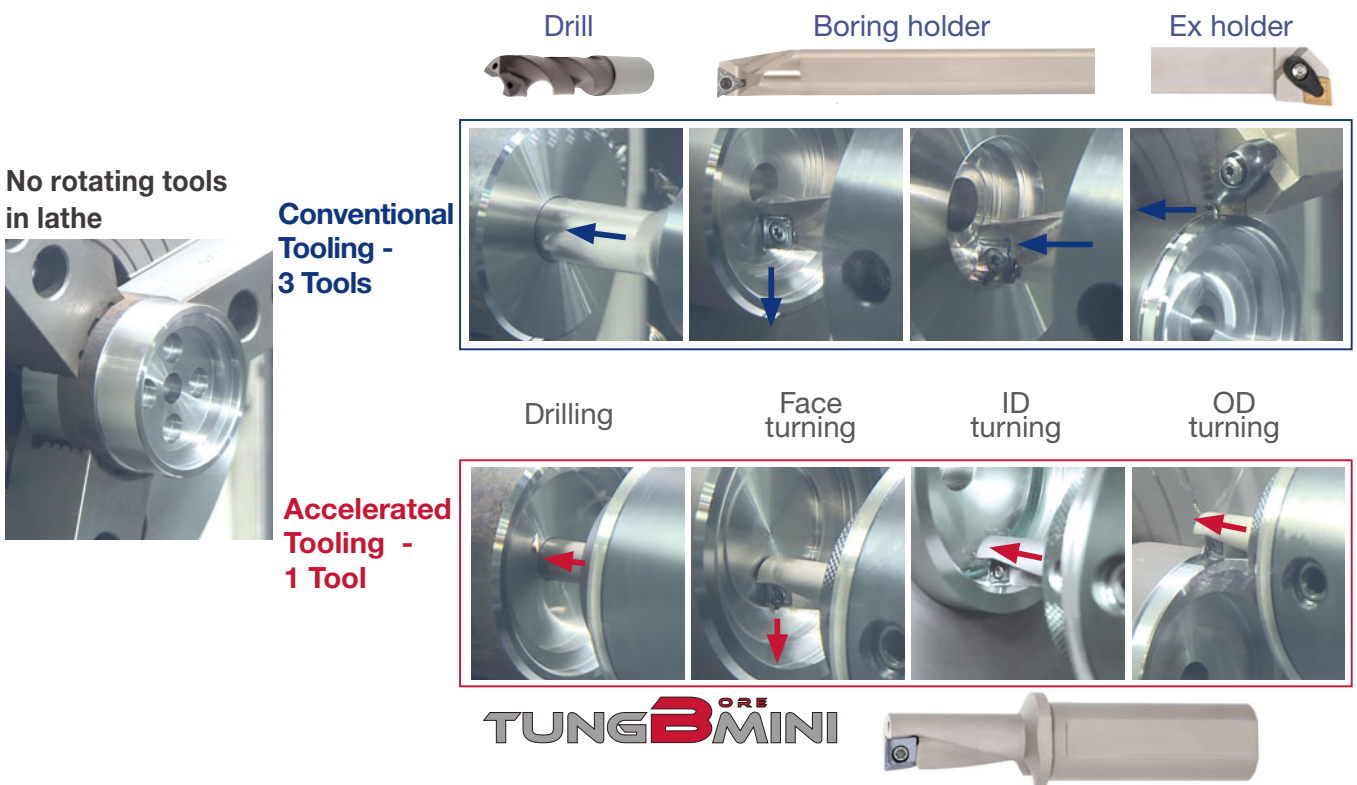
Reduced machine downtime thanks to eliminating the need for tool changes.

Multifunctional Tool for Drilling and Turning.

Multifunctional tool for improved productivity!

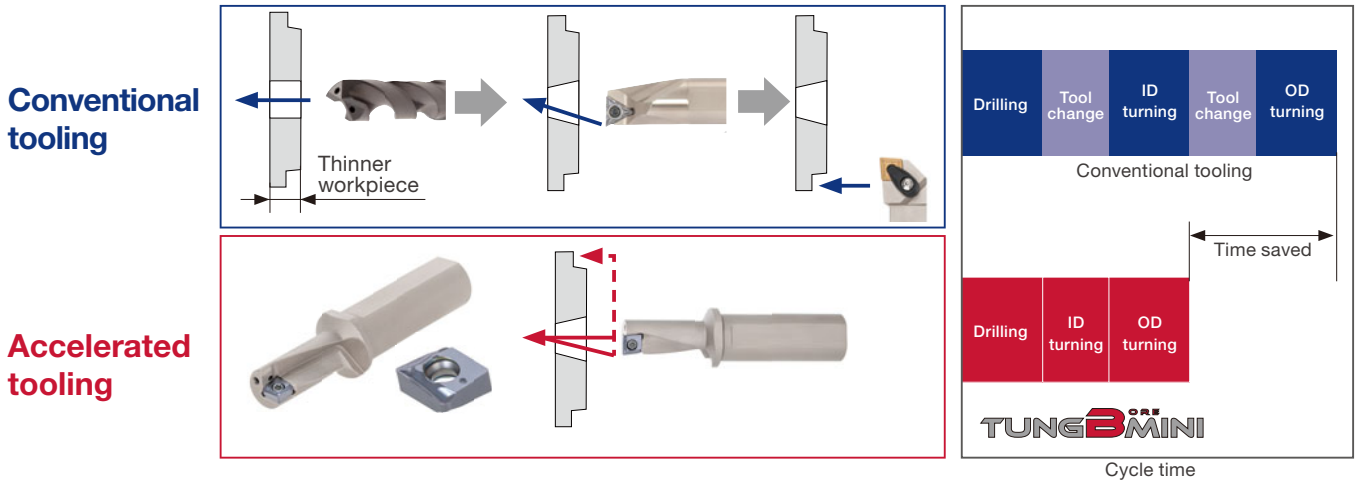
Minimum number of tools for maximum productivity

- A single TungBoreMini tool can handle multiple operations such as ID turning after drilling without exchanging the tools
- Allows drilling and hole enlargement on various materials, instead of using a drill and turning tool
- Can be used just like a standard ISO turning tool for ID, OD, and/or face turning applications

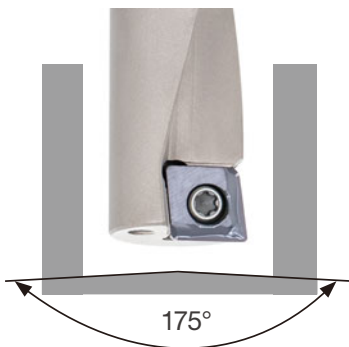


Reduced machine downtime

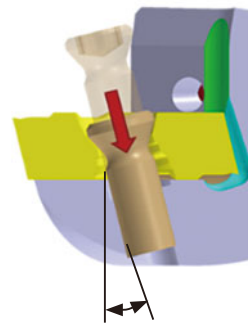
Multifunctional TungBoreMini eliminates tool changeover time, resulting in significantly reduced cycle time - this is especially effective in applications where individual processing time is short and quick, resulting in tremendous improvement in cycle time.



Features



Hole bottoms is almost flat because the front cutting edge of TungBoreMini does not have a point angle as with a twisted drill.



Slant clamping screw design allows increased screw the length of engagement for improved clamping rigidity.

PVD grade: AH725

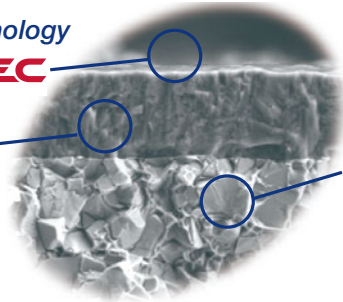
AH725 features a super tough substrate with a new PVD coating layer.

Special surface technology

PREMIUMTEC

Excellent adhesion strength of coating layer

PVD coating



Remarkable toughness

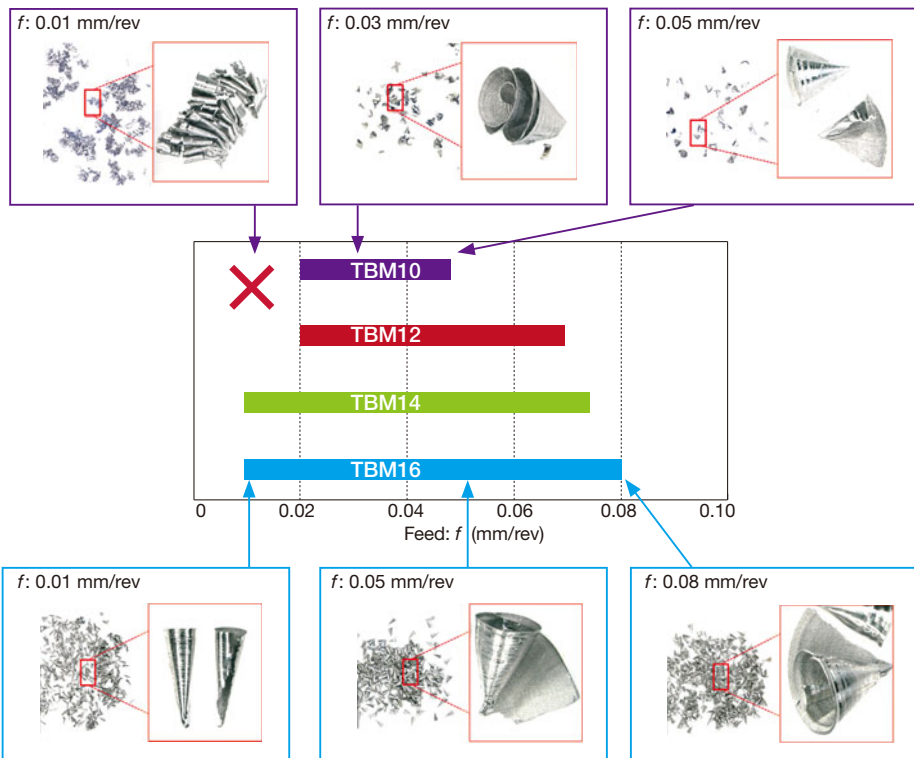
Fine grain carbide

Standard cutting conditions and chip control for drilling

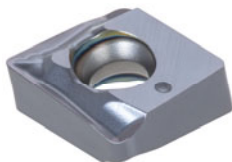
DMIN	Description		Feed: f (mm/rev)	Cutting speed: V_c (m/min)	
	Holder	Insert		Carbon steel, Alloy steel	Stainless steel
ø10	TBM10R/LF12-2.25	XOMU05X204-PS	0.02 - 0.050	50-180 m/min	50-160 m/min
ø12	TBM12R/LF16-2.25	XOMU06H204-PS	0.02 - 0.070		
ø14	TBM14R/LF16-2.25	XOMU07H304-PS	0.01 - 0.075		
ø16	TBM16R/LF20-2.25	XOMU08T304-PS	0.01 - 0.080		



Drilling



Please adjust the center height of the tool post before use



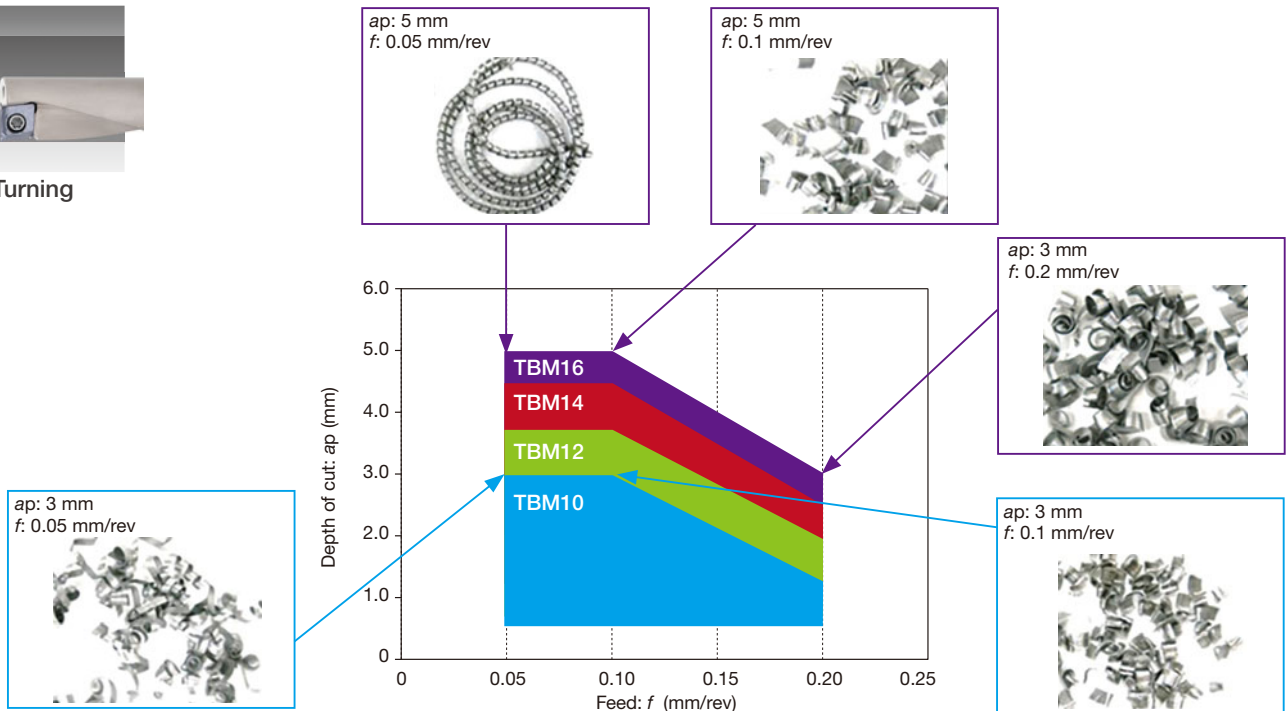
Improved chip evacuation during drilling by optimizing rake angle and breaker width.

Standard cutting conditions and chip control for turning

DMIN	Description		Depth of cut: a_p (mm)	Feed: f (mm/rev)	Cutting speed: V_c (m/min)	
	Holder	Insert			Carbon steel, Alloy steel	Stainless steel
ø10	TBM10R/LF12-2.25	XOMU05X204-PS	0.5 - 3.0	0.05 - 0.2	50 - 180 m/min	50 - 160 m/min
ø12	TBM12R/LF16-2.25	XOMU06H204-PS	0.5 - 3.5			
ø14	TBM14R/LF16-2.25	XOMU07H304-PS	0.5 - 4.5			
ø16	TBM16R/LF20-2.25	XOMU08T304-PS	0.5 - 5.0			



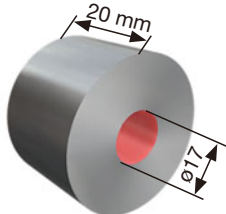
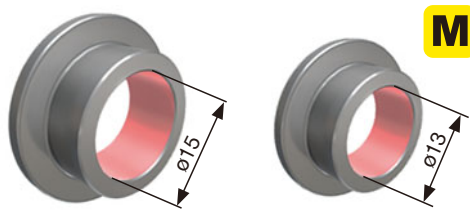
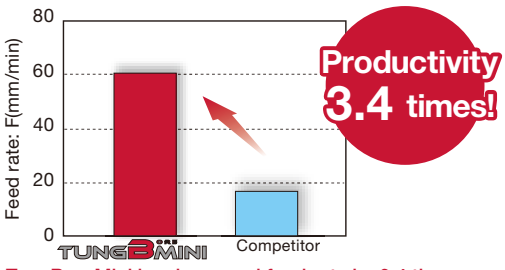

Turning



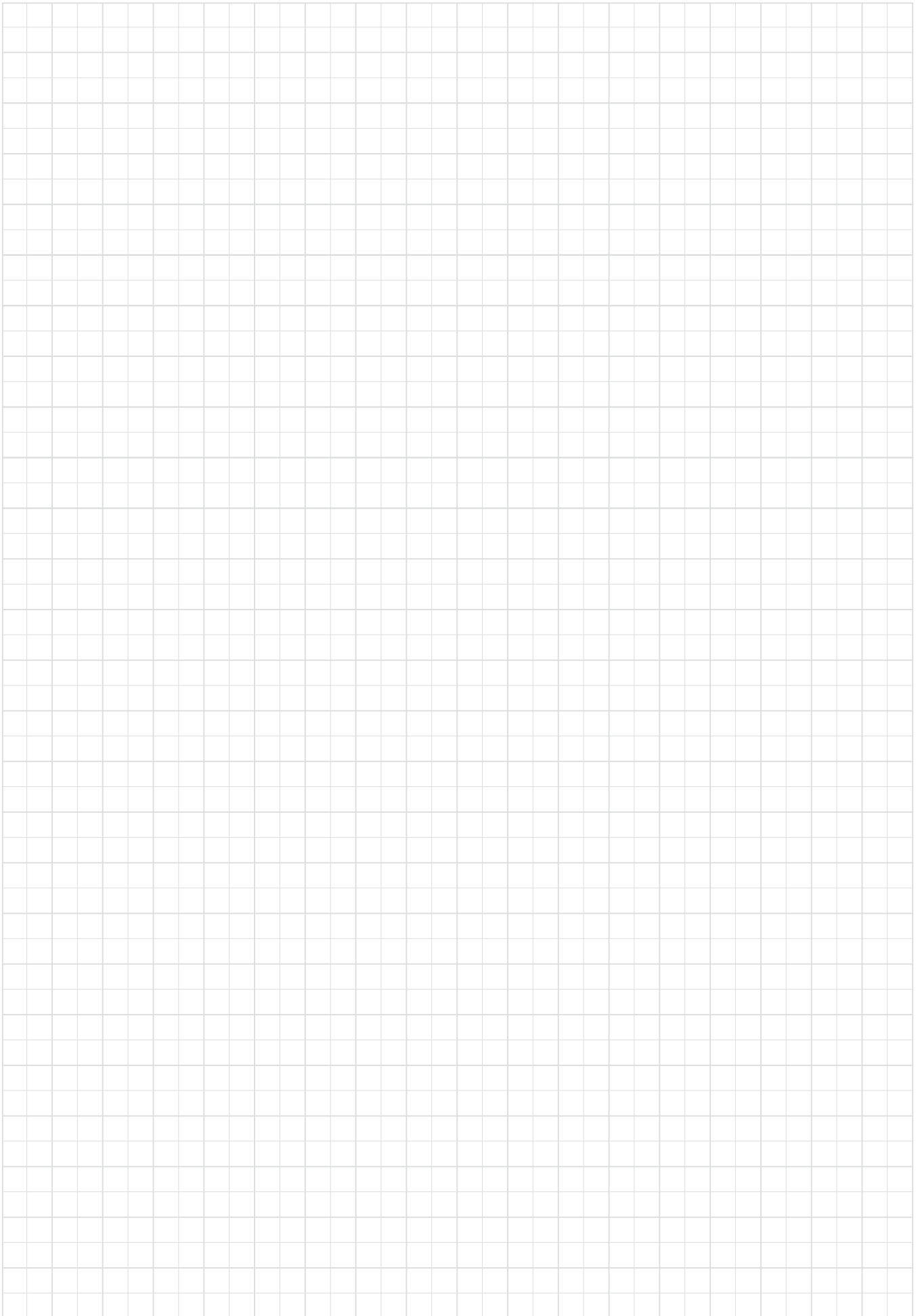
The first protrusion is effective for improving chip control at low feed rate machining.



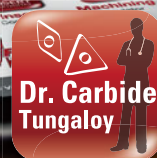
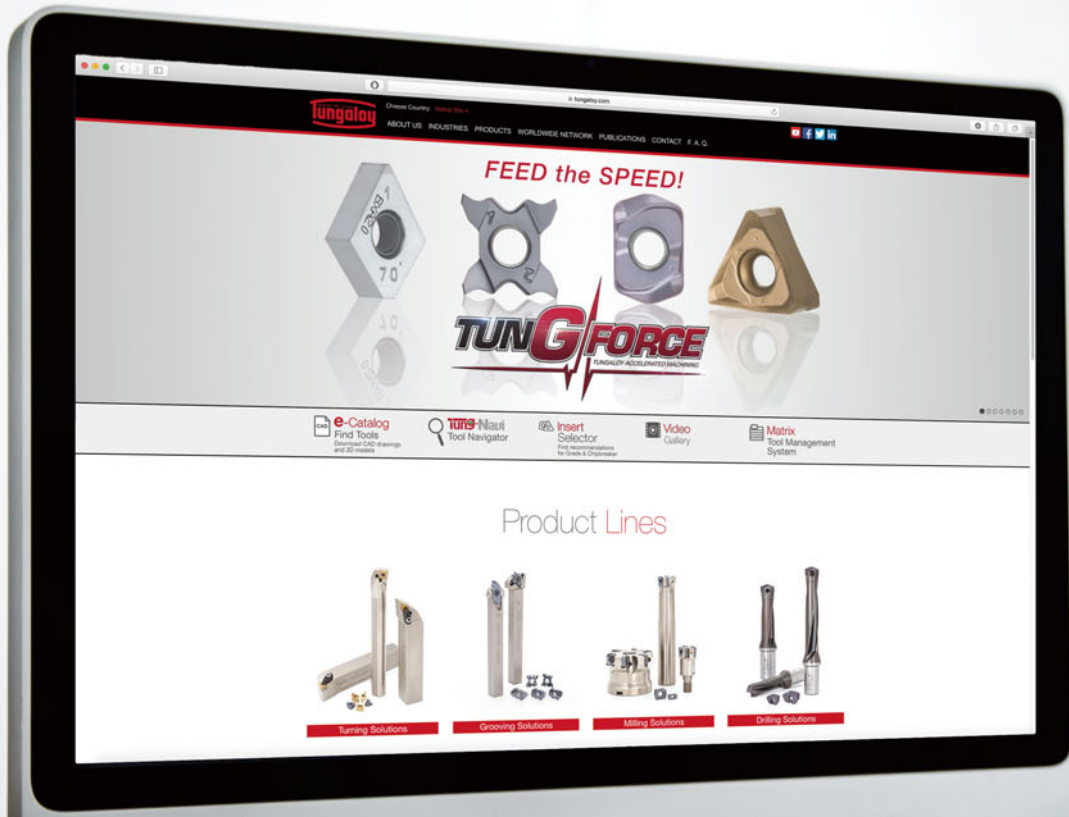
PRACTICAL EXAMPLES

Workpiece type		Machine parts	Machine parts
Holder		TBM12R/LF16-2.25	TBM12R/LF16-2.25
Insert		XOMU06H204-PS	XOMU06H204-PS
Grade		AH725	AH725
		X70CrMo15	X5CrNi18-9
Workpiece material			
Cutting conditions	Cutting speed: Vc (m/min)	350	80
	Feed : f (mm/rev)	0.15	0.04
	Depth of cut : ap (mm)	0.2	1, 1.5
	Coolant	Wet	Wet
Results		 <p>Productivity 3.4 times!</p> <p>TungBoreMini has improved feed rate by 3.4 times for drilling and 1.7 times for ID turning over the competitor's multifunction tool. Tool life has been improved by as much as 1.2 times.</p>	 <p>TungBoreMini can reduce the number of tools from 3 to 1.</p>

MEMO

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

Check our site and our App to get more info!



Tungaloy Corporation (Head office)

11-1 Yoshima-Kogyodanchi
Iwaki-city, Fukushima 970-1144 Japan
Phone: +81-246-36-8501
Fax: +81-246-36-8542
www.tungaloy.co.jp

Tungaloy America, Inc.

3726 N Ventura Drive
Arlington Heights, IL 60004, U.S.A.
Phone: +1-888-554-8394
Fax: +1-888-554-8392
www.tungaloy.com/us

Tungaloy Canada

432 Elgin St. Unit 3
Brantford, Ontario N3S 7P7, Canada
Phone: +1-519-758-5779
Fax: +1-519-758-5791
www.tungaloy.com/ca

Tungaloy de Mexico S.A.

C Los Arellano 113,
Parque Industrial Siglo XXI
Aguascalientes, AGS, Mexico 20290
Phone: +52-449-929-5410
Fax: +52-449-929-5411
www.tungaloy.com/mx

Tungaloy do Brasil Ltda.

Avd. Independencia N4158 Residencial Flora
13280-000 Vinhedo, São Paulo, Brasil
Phone: +55-19-38262757
Fax: +55-19-38262757
www.tungaloy.com/br

Tungaloy Germany GmbH

An der Alten Ziegelei 1
D-40789 Monheim, Germany
Phone: +49-2173-90420-0
Fax: +49-2173-90420-19
www.tungaloy.de

Tungaloy France S.A.S.

ZA Courtaboef - Le Rio
1 rue de la Terre de feu
F-91952 Courtaboef Cedex, France
Phone: +33-1-6486-4300
Fax: +33-1-6907-7817
www.tungaloy.com/fr

Tungaloy Italia S.r.l.

Via E. Andolfato 10
I-20126 Milano, Italy
Phone: +39-02-252012-1
Fax: +39-02-252012-65
www.tungaloy.com/it

Tungaloy Czech s.r.o.

Turanka 115
CZ-627 00 Brno, Czech Republic
Phone: +420-532 123 391
Fax: +420-532 123 392
www.tungaloy.com/cz

Tungaloy Ibérica S.L.

C/Miquel Servet, 43B, Nau 7
Pol. Ind. Bufalvent
ES-08243 Manresa (BCN), Spain
Phone: +34 93 113 1360
Fax: +34 93 876 2798
www.tungaloy.com/es

Tungaloy Scandinavia AB

Bultgatan 38
442 40 Kungälv, Sweden
Phone: +46-462119200
Fax: +46-462119207
www.tungaloy.com/se

Tungaloy Rus, LLC

Andropova avenue, h.18/7,
11 floor, office 3, 115432,
Moscow, Russia
Phone: +7-499-683-01-80
Fax: +7-499-683-01-81
www.tungaloy.com/ru

Tungaloy Polska Sp. z o.o.

Ul. Irysowa 1, 55-040 Bielany
Wroclawskie, Poland
Phone: +48 607 907 237
www.tungaloy.com/pl

Tungaloy U.K. Ltd

Gallan Park, Watling Street,
Cannock, WS110XG, UK
Phone: +44 121 4000 231
Fax: +44 121 270 9694
www.tungaloy.com/uk

Tungaloy Hungary Kft

Erzsébet királyné útja 125
H-1142 Budapest, Hungary
Phone: +36 1 781-6846
Fax: +36 1 781-6866
www.tungaloy.com/hu

Tungaloy Turkey

Dudullu, OSB 4. Cad No:4
34776 Umraniye Istanbul, TURKEY
Phone: +90 216 540 04 67
Fax: +90 216 540 04 87
www.tungaloy.com/tr

Tungaloy Benelux b.v.

Tjalk 70
NL-2411 NZ Bodegraven, Netherlands
Phone: +31 172 630 420
Fax: +31 172 630 429
www.tungaloy.com/nl

Tungaloy Croatia

Ulica bana Josipa Jelačića 87,
10430, Samobor, Croatia
Phone: +385 1 3326 604
Fax: +385 1 3327 683
www.tungaloy.com/hr

Tungaloy Cutting Tool (Shanghai) Co.,Ltd.

Rm No 401 No.88 Zhabei
Jiangchang No.3 Rd
Shanghai 200436, China
Phone: +86-21-3632-1880
Fax: +86-21-3621-1918
www.tungaloy.com/cn

Tungaloy Cutting Tools (Taiwan) Co.,Ltd.

9F, No.293, Zhongyang Rd,
Xinzhuan Dist, New Taipei City,
24251 Taiwan
Phone: +886-2-8521-9986
Fax: +886-2-8521-8935
www.tungaloy.com/tw

Tungaloy Cutting Tools (Thailand) Co.,Ltd.

Interlink tower 4th Fl.
1858/5-7 Bangna-Trad Road
km.5 Bangna, Bangna, Bangkok 10260
Thailand
Phone: +66-2-751-5711
Fax: +66-2-751-5715
www.tungaloy.com/th

Tungaloy Singapore (Pte.), Ltd.

62 Ubi Road 1, #06-11 Oxley BizHub 2
Singapore 408734
Phone: +65-6391-1833
Fax: +65-6299-4557
www.tungaloy.com/sg

Tungaloy Vietnam

LE04.38, Lexington Residence
67 Mai Chi Tho St., Dist. 2,
Ho Chi Minh City, Vietnam
Phone: +84-2837406660
www.tungaloy.com/sg

Tungaloy India Pvt. Ltd.

Indiabulls Finance Centre,
Unit # 902-A, 9th Floor,
Tower 1, Senapati Bapat Marg,
Elphinstone Road (West),
Mumbai-400013, India
Phone: +91-22-6124-8804
Fax: +91-22-6124-8899
www.tungaloy.com/in

Tungaloy Korea Co., Ltd

#1312, Byucksan Digital Valley 5-cha
Beotkkot-ro 244, Geumcheon-gu
153-788 Seoul, Korea
Phone: +82-2-2621-6161
Fax: +82-2-6393-8952
www.tungaloy.com/kr

Tungaloy Malaysia Sdn Bhd

50 K-2, Kelana Mall, Jalan SS6/14
Kelana Jaya, 47301
Petaling Jaya, Selangor Darul Ehsan
Malaysia
Phone: +603-7805-3222
Fax: +603-7804-8563
www.tungaloy.com/my

Tungaloy Australia Pty Ltd

Unit 68 1470 Ferntree Gully Road
Knoxfield 3180 Victoria, Australia
Phone: +61-3-9755-8147
Fax: +61-3-9755-6070
www.tungaloy.com/au

PT. Tungaloy Indonesia

Kompleks Grand Wisata Block AA-10 No.3-5
Cibitung
Bekasi 17510, Indonesia
Phone: +62-21-8261-5808
Fax: +62-21-8261-5809
www.tungaloy.com/id



www.tungaloy.com

follow us at:
facebook.com/tungaloyjapan
twitter.com/tungaloyjapan

To see this product in action visit:

Tung-TV

www.youtube.com/tungaloycorporation

Distributed by:



DOWNLOAD
Dr. Carbide App



FIND US ON THE CLOUD!
machiningcloud.com



Available on the
App Store



GET IT ON
Google play



AS9100 Certified
78006
2015.11.04
ISO14001 Certified
EC97J1123
1997.11.26