



**NEW
DURATOMIC®
GRADES**

**A FASTER AND
LESS EXPENSIVE WAY
TO TURN STAINLESS STEEL**

SECO ■■■

AUSTENITIC STAINLESS STEELS

KEEP CHIPS UNDER CONTROL AND STOP SCRAPPING STAINLESS STEEL PARTS

Austenitic alloys contain higher amounts of nickel, which makes for a tough material with a tendency toward the creation of build-up on an insert's cutting edge. Machining these alloys requires significantly more energy consumption due to their thermal properties; deformation-resistant austenitic stainless steels, which resist the natural deformation caused by the metalcutting process, generate excessive heat and tend to work harden easily. And because austenitic stainless steel chips only absorb a limited amount of heat due to the alloy's low thermal conductivity, the excess heat goes into the cutting tool, leading to short tool life.

These properties combine to make all operations involving these materials more difficult, from roughing to finishing. To solve the problem and help you overcoming your austenitic stainless steel challenges, Seco Tools has designed inserts with exceptionally sharp edges, which prevent build-up at the insert edge and work hardening on the workpiece surface, and highly wear-resistant surfaces.

MACHINING STAINLESS STEEL CAN BE CHALLENGING

Stainless steel offers impressive corrosion resistance and strength, but these properties also make it one of the most difficult common materials in the metal-cutting industry.

- Poor stability or a lack of sufficient rigidity dramatically decreases productivity for stainless steel applications.
- Stainless steel with austenite surfaces easily becomes work hardened, leading to long, difficult chips and poor surface finishes in addition to impacting part tolerances.
- Interrupted cutting paths further increase work hardening and decrease surface finish quality.
- Harder surfaces impact tool life, leading to insert overconsumption.

HOW TO REACH PEAK PRODUCTIVITY WITH STAINLESS STEEL

To fully optimize your stainless steel part production, you need effective tools that have been designed to handle the unique challenges of stainless steel machining.

- Utilize flexible tooling solutions capable of handling a wide range of stainless steel alloys.
- Take advantage of optimized chipbreaker geometries designed to prioritize chip control and process consistency.
- Use inserts made for easy identification of used edges to prevent waste and avoid the use of dull cutting edges.
- Select highly optimized insert grades for secure, reliable and efficient processes.

OVERCOME THE CHALLENGES OF TURNING IN STAINLESS STEELS

STAY AHEAD OF YOUR COMPETITION WITH NEW STAINLESS STEEL TURNING GRADES

Seco Tools has introduced three new grades and geometries featuring our proprietary Duratomic® coating technology that ensures exceptional productivity across the entire stainless steel turning application area.

- TM1501 provides speed, productivity and wear resistance on medium to large-sized austenitic stainless steel components under stable conditions.
- TM2501 is the first choice in austenitic stainless steel alloys, providing long, predictable tool life and toughness for a variety of component sizes and conditions.
- TM3501 peaks in a variety of component sizes and in difficult alloys stretching from duplex to complex, high-alloyed super-duplex stainless steel.
- The versatile but tough TM3501 handles severe interrupted cuts in all stainless alloys or when cutting speed is restricted in addition to its excellent finishing ability.
- All your applications are covered with an expanded range that includes 479 total items and features three new geometries for stainless steel turning: FF1 for finishing, M3 for medium roughing on challenging surfaces, and MR3 for medium roughing on easier surfaces.

NEW DURATOMIC® GRADES



THE POWER OF DURATOMIC®

Increase your productivity, reduce waste and get consistent part quality with exclusive Duratomic® coating technology. The improved mechanical properties, as well as the thermal and chemical inertness of the inserts, are achieved with the superior α-based Al_2O_3 coating that utilizes precisely arranged aluminum and oxygen atoms.

STOP WASTING UNUSED EDGES THANKS TO USED-EDGE DETECTION

Give every insert the long life it deserves with Duratomic® Used-Edge Detection technology, which makes wear visible to the naked eye without impacting turning performance to eliminate waste and reduce tooling costs.



Watch the Application video

HIGHER ALLOY DUPLEX STEELS



Higher alloy duplex steels are known for being difficult to machine – especially when it comes to heat generation, cutting forces and chip control – higher alloy duplex steels require optimized chip control and coolant to avoid plastic deformation.

To achieve good surface finishes in these materials, use cutting tools with internal high-pressure coolant supply, which provide more efficient cooling of the insert in the heated zone of contact as it forces the chip away from the insert face quickly, reducing insert wear. Internal coolant will also break the chips into smaller pieces, simplifying evacuation from the cutting area. Common wear mechanisms are flank and crater wear, plastic deformation, chip hammering and notch wear.



See the TM2501 in action

IMPROVE PRODUCTIVITY, SPEED AND TOOL LIFE WITH THE NEW TM GRADES

TM1501—THE PRODUCTIVITY GRADE

Utilize the full speed potential of your machine with TM1501, a high-productivity grade with higher recommended cutting speeds for medium to large-sized austenitic stainless steel components (SMG M1-M3).

- Offers speed, productivity and wear resistance in stable continuous cut applications with medium to large-sized components (150 mm/6" or larger).
- Secondary usage in steel (SMG P2-P8), including ferritic and martensitic stainless steels (SMG P11), at low cutting speeds or for specific surface requirements.
- Leverages the partnership of Seco Tools with customers to improve upon the TM2000 grade.

TM2501—THE FIRST-CHOICE GRADE

TM 2501—THE FIRST-CHOICE GRADE

A general grade that offers long tool life and toughness across the widest application area, TM2501 is the versatile and cost-effective first choice for any medium-austenitic stainless steel alloy (SMG M1-M3).

- For moderate/high cutting speeds in continuous cuts or light interruptions for medium to large-sized components (150 mm/6" or larger).
- May also be used in steel (SMG P2-P8), especially for applications with severe interruptions.
- Leverages the partnership of Seco Tools with customers to improve upon the TM4000 grade.

TM3501—THE STURDY

MULTIPURPOSE GRADE

A brand new grade designed for the toughest stainless steel applications, the versatile TM3501 grade provides good performance across all stainless steels.

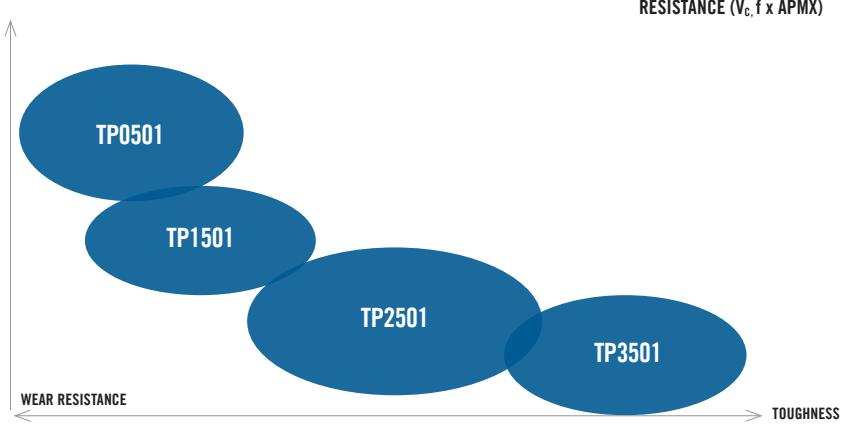
- Ideal for difficult high-alloyed stainless steels (SMG M4-M5), including duplex and super-duplex stainless steels in small to medium-sized (150 mm/6" or smaller) components.
- May be used for stainless steels (SMG M1-M3) at low cutting speeds or for applications with heavy interrupted cuts.
- Additionally serves as excellent finishing insert in all stainless alloys.



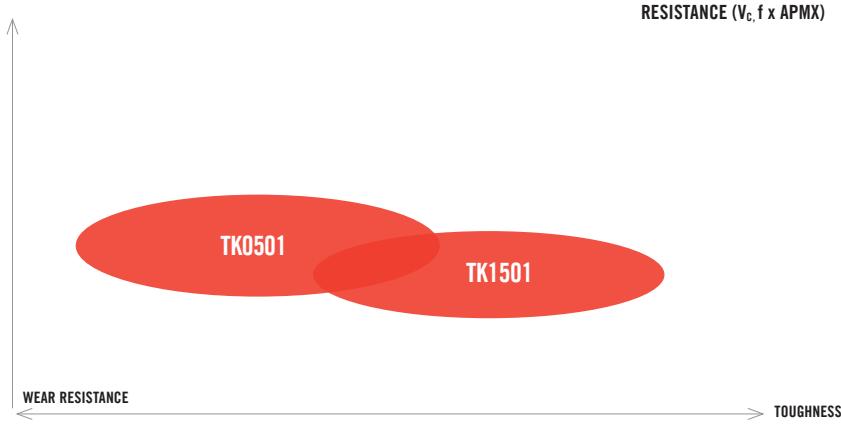
DURATOMIC® GRADES FOR ALL TURNING APPLICATIONS

DURATOMIC® GRADE POSITIONING

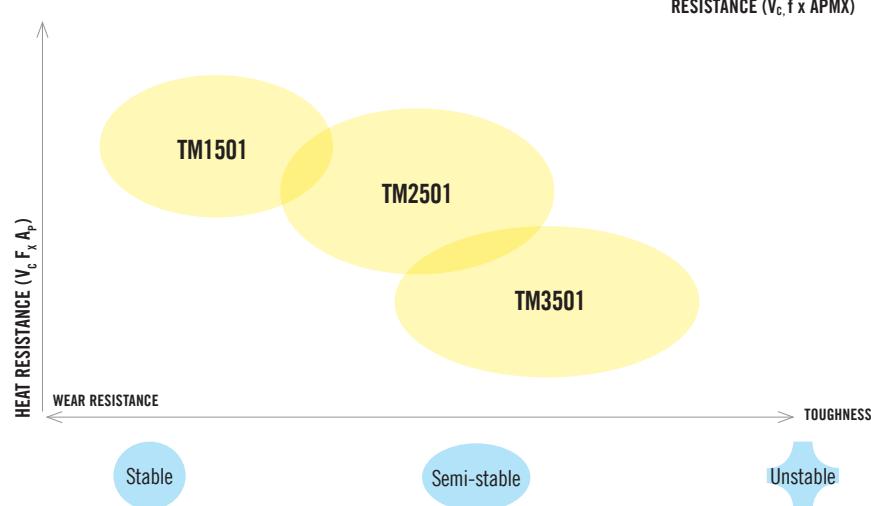
APPLICATION AREA IN STEEL



APPLICATION AREA IN CAST IRON



APPLICATION AREA IN STAINLESS STEEL



STEEL

TP2501 is the “king” of versatility and TP3501 the secure choice. TP1501 provides a balance of performance and productivity for applications in low-alloy steels or using lower speeds. TP0501 offers a high-heat profile in general steel machining, particularly in high-alloy steels.

CAST IRON

TK1501 is the first choice in ductile cast iron and TK0501 is the first choice in grey cast iron material. TP1501 is a complementary grade in cast irons, particularly at higher speeds in ductile irons with interrupted cuts.

STAINLESS STEEL

TM2501 is the versatile first-choice insert grade for austenitic stainless steel. TM1501 offers the highest productivity for continuous-cut applications. TM3501 primarily handles difficult stainless steels, including duplex, super-austenitic and super-duplex stainless steels.



Watch the Application video

DURATOMIC® STAINLESS STEEL- TM GRADES



DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER	DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER	DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER
CCMT060202-F1 CCMT21.50.5-F1	TM2501	03275902	CCMT09T308-M5 CCMT32.52-M5	TM2501	03275963	CNMG120408-M5 CNMG432-M5	TM1501	03275992
CCMT060202-FF1 CCMT21.50.5-F1	TM3501	03275903	CCMT09T308-MF2 CCMT32.52-MF2	TM1501	03275964	CNMG120408-M5 CNMG432-M5	TM2501	03275993
CCMT060202-M3 CCMT21.50.5-M3	TM3501	03275905	CCMT09T308-MF2 CCMT32.52-MF2	TM2501	03275965	CNMG120408-MF1 CNMP432-MF1	TM1501	03275994
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CCMT060204-F1 CCMT21.51-F1	TM1501	03275908	CCMT09T308W-MF2 CCMT32.52W-MF2	TM2501	03277070	CNMG120408-MF1 CNMP432-MF1	TM3501	03275996
CCMT060204-F1 CCMT21.51-F1	TM2501	03275909	CCMT120408-M3 CCMT432-M3	TM1501	03275968	CNMG120408-MF3 CNMG432-MF3	TM2501	03275999
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CCMT060204-M3 CCMT21.51-M3	TM2501	03275915	CCMT120408-MF2 CCMT432-MF2	TM1501	03275972	CNMG120408-MF4 CNMG432-MF4	TM3501	03273905
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CCMT060204-MF2 CCMT21.51-MF2	TM3501	03275918	CCMT120412-M5 CCMT433-M5	TM2501	03276548	CNMG120408-MR7 CNMG432-MR7	TM2501	03276001
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DURATOMIC® STAINLESS STEEL- TM GRADES



DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER	DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER	DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER
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CNMM190624-RR6 CNMM646-RR6	TM1501	03276189	DCMT150408-M3 DCMT432-M3	TM3501	03276267	DNNMG150608-MR3 DNMG442-MR3	TM3501	03280985
CNMM190624-RR6 CNMM646-RR6	TM2501	03276190	DNNMG150404-M3 DNMP431-M3	TM3501	03276269	DNNMG150612-M3 DNMG443-M3	TM2501	03276304
DCMT070202-F1 DCMT21.50.5-F1	TM1501	03276195	DNNMG150404-MF4 DNMG431-MF4	TM2501	03276270	DNNMG150612-M3 DNMG443-M3	TM3501	03276305

DURATOMIC® STAINLESS STEEL- TM GRADES



DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER	DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER	DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER
DNMG150612-M5 DNMG443-M5	TM1501	03274022	SCMT09T308-MF2 SCMT32.52-MF2	TM3501	03276581	SNMM250924-RR6 SNMM856-RR6	TM2501	03280001
DNMG150612-M5 DNMG443-M5	TM2501	03274023	SCMT09T312-MF2 SCMT32.53-MF2	TM3501	03276582	SNMM250924-RR6 SNMM866-RR6	TM2501	03280002
DNMG150612-MF4 DNMG443-MF4	TM1501	03276307	SCMT120408-F1 SCMT432-F1	TM1501	03276583	TCGT110204L-UX TCGT21.51L-UX	TM3501	03280004
DNMG150612-MF4 DNMG443-MF4	TM2501	03276308	SCMT120408-M3 SCMT432-M3	TM1501	03276584	TCGT110204R-UX TCGT21.51R-UX	TM3501	03280005
DNMG150612-MF4 DNMG443-MF4	TM3501	03276309	SCMT120408-M3 SCMT432-M3	TM3501	03276585	TCMT110204-F1 T CMT21.51-F1	TM1501	03276588
DNMG150612-MR3 DNMG443-MR3	TM2501	03280982	SCMT120408-M5 SCMT432-M5	TM2501	03276586	TCMT110204-F1 T CMT21.51-F1	TM2501	03276589
DNMG150612-MR3 DNMG443-MR3	TM3501	03280986	SCMT120408-MF2 SCMT432-MF2	TM3501	03276587	TCMT110204-F1 T CMT21.51-F1	TM3501	03276590
DNMG150616-M3 DNMG444-M3	TM3501	03276310	SCMT120412-MF2 SCMT433-MF2	TM1501	03281577	TCMT110204-MF2 TCMT21.51-MF2	TM3501	03276591
DNMG150616-M5 DNMG444-M5	TM2501	03276311	SCMT120412-MF2 SCMT433-MF2	TM3501	03281578	TCMT110208-MF2 TCMT21.51-MF2	TM3501	03276592
DNMU110402-M3 DNMU1330.5-M3	TM3501	03276312	SNMG120408-M3 SNMG432-M3	TM3501	03276645	TCMT16T302-F1 TCMT32.50.5-F1	TM2501	03276593
DNMU110404-M3 DNMU110404-M3	TM2501	03276314	SNMG120408-M5 SNMG432-M5	TM1501	03274165	TCMT16T304-F1 TCMT32.51-F1	TM1501	03276594
DNMU110404-M3 DNMU331-M3	TM3501	03276315	SNMG120408-M5 SNMG432-M5	TM2501	03274166	TCMT16T304-F1 TCMT32.51-F1	TM2501	03276595
DNMU110404-MF1 DNMU331-MF1	TM1501	03276316	SNMG120408-MF1 SNMP432-MF1	TM1501	03276647	TCMT16T304-F1 TCMT32.51-F1	TM3501	03276596
DNMU110404-MF1 DNMU331-MF1	TM2501	03276317	SNMG120408-MF1 SNMP432-MF1	TM3501	03276648	TCMT16T304-M3 TCMT32.51-M3	TM1501	03276597
DNMU110404-MF1 DNMU331-MF1	TM3501	03276318	SNMG120408-MF4 SNMG432-MF4	TM3501	03273946	TCMT16T304-MF2 TCMT32.51-MF2	TM3501	03280021
DNMU110404-MF4 DNMU331-MF4	TM1501	03276320	SNMG120408-MF4 SNMG432-MF4	TM2501	03274024	TCMT16T308-F1 TCMT32.52-F1	TM1501	03276598
DNMU110404-MF4 DNMU331-MF4	TM2501	03276321	SNMG120408-MF4 SNMG432-MF4	TM1501	03274046	TCMT16T308-F1 TCMT32.52-F1	TM2501	03276599
DNMU110404-MF4 DNMU331-MF4	TM3501	03276322	SNMG120408-MR3 SNMG432-MR3	TM2501	03280987	TCMT16T308-M3 TCMT32.52-M3	TM1501	03276600
DNMU110408-M3 DNMU332-M3	TM2501	03280019	SNMG120408-MR3 SNMG432-MR3	TM3501	03280991	TCMT16T308-M3 TCMT32.52-M3	TM3501	03276601
DNMU110408-M3 DNMU332-M3	TM3501	03280020	SNMG120408-MR7 SNMG432-MR7	TM2501	03276650	TCMT16T308-M5 TCMT32.52-M5	TM2501	03276602
DNMU110408-MF1 DNMU332-MF1	TM1501	03276323	SNMG120412-M3 SNMG433-M3	TM3501	03276651	TCMT16T308-MF2 TCMT32.52-MF2	TM3501	03276603
DNMU110408-MF1 DNMU332-MF1	TM2501	03276324	SNMG120412-M5 SNMG433-M5	TM1501	03274167	TNMG160404-FF1 TNMG331-FF1	TM3501	03276657
DNMU110408-MF1 DNMU332-MF1	TM3501	03276325	SNMG120412-M5 SNMG433-M5	TM2501	03274168	TNMG160404-M3 TNMG331-M3	TM2501	03276659
DNMU110408-MF4 DNMU332-MF4	TM1501	03276327	SNMG120412-MF1 SNMP433-MF1	TM3501	03276652	TNMG160404-M3 TNMG331-M3	TM3501	03276660
DNMU110408-MF4 DNMU332-MF4	TM2501	03276328	SNMG120412-MF4 SNMG433-MF4	TM1501	03273948	TNMG160404-MF1 TNMP331-MF1	TM1501	03274173
DNMU110408-MF4 DNMU332-MF4	TM3501	03276329	SNMG120412-MF4 SNMG433-MF4	TM2501	03273950	TNMG160404-MF1 TNMP331-MF1	TM2501	03274174
DNMX150408W-MF4 DNMX432W-MF4	TM1501	03277083	SNMG120412-MF4 SNMG433-MF4	TM3501	03273952	TNMG160404-MF1 TNMP331-MF1	TM3501	03274175
DNMX150608W-MF4 DNMX442W-MF4	TM1501	03277084	SNMG120412-MR3 SNMG433-MR3	TM2501	03280988	TNMG160404-MF4 TNMG331-MF4	TM1501	03276662
RCMT10T3M0-F1 RCMT10T3M0-F1	TM1501	03276564	SNMG120412-MR3 SNMG433-MR3	TM3501	03280992	TNMG160404-MF4 TNMG331-MF4	TM2501	03276663
RCMT10T3M0-M3 RCMT10T3M0-M3	TM1501	03276565	SNMG120416-M5 SNMG434-M5	TM2501	03276653	TNMG160404-MF4 TNMG331-MF4	TM3501	03276664
RCMT1204M0-F1 RCMT1204M0-F1	TM1501	03276566	SNMG150612-M5 SNMG543-M5	TM2501	03274169	TNMG160408-FF1 TNMG332-FF1	TM3501	03276665
RCMT1204M0-M3 RCMT1204M0-M3	TM1501	03276567	SNMG150616-M5 SNMG544-M5	TM2501	03274170	TNMG160408-M3 TNMG332-M3	TM2501	03276667
SCMT060204-M3 SCMT21.51-M3	TM3501	03276573	SNMG190612-M5 SNMG643-M5	TM2501	03274171	TNMG160408-M3 TNMG332-M3	TM3501	03276668
SCMT070308-M3 SCMT2.52-M3	TM3501	03276574	SNMG190612-MR7 SNMG643-MR7	TM2501	03276654	TNMG160408-M5 TNMG332-M5	TM2501	03274176
SCMT09T304-M3 SCMT32.51-M3	TM1501	03276575	SNMG190616-M5 SNMG644-M5	TM2501	03274172	TNMG160408-MF1 TNMP332-MF1	TM1501	03276669
SCMT09T304-M3 SCMT32.51-M3	TM3501	03276576	SNMG190616-MR7 SNMG644-MR7	TM2501	03276655	TNMG160408-MF1 TNMP332-MF1	TM2501	03276670
SCMT09T304-MF2 SCMT32.51-MF2	TM3501	03276577	SNMM120408-RR6 SNMM432-RR6	TM2501	03279998	TNMG160408-MF1 TNMP332-MF1	TM3501	03276671
SCMT09T308-M3 SCMT32.52-M3	TM1501	03276578	SNMM150616-RR6 SNMM544-RR6	TM2501	03281369	TNMG160408-MF3 TNMG332-MF3	TM3501	03280022
SCMT09T308-M3 SCMT32.52-M3	TM3501	03276579	SNMM190616-RR6 SNMM644-RR6	TM2501	03276656	TNMG160408-MF4 TNMG332-MF4	TM1501	03276673
SCMT09T308-M5 SCMT32.52-M5	TM2501	03276580	SNMM190624-RR6 SNMM646-RR6	TM2501	03279999			

DURATOMIC® STAINLESS STEEL- TM GRADES



DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER	DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER	DESIGNATION (ANSI)	GRADE	PRODUCT NUMBER
TNMG160408-MF4 TNMG332-MF4	TM2501	03276674	VBMG160408-M3 VBMG332-M3	TM2501	03276627	WNMG080408-M3 WNMG432-M3	TM2501	03280030
TNMG160408-MF4 TNMG332-MF4	TM3501	03276675	VBMG160408-M3 VBMG332-M3	TM3501	03276628	WNMG080408-M3 WNMG432-M5	TM3501	03280031
TNMG160412-M3 TNMG333-M3	TM2501	03276677	VBMG160408-M5 VBMG332-M5	TM2501	03276629	WNMG080408-M5 WNMG432-M5	TM1501	03274179
TNMG160412-M3 TNMG333-M3	TM3501	03276678	VBMG160408-MF2 VBMG332-MF2	TM2501	03276630	WNMG080408-M5 WNMG432-M5	TM2501	03274180
TNMG160412-M5 TNMG333-M5	TM1501	03273954	VBMG160408-MF2 VBMG332-MF2	TM3501	03276631	WNMG080408-MF1 WNMP432-MF1	TM2501	03276720
TNMG160412-M5 TNMG333-M5	TM2501	03273956	VBMG160412-F1 VBMG333-F1	TM1501	03276632	WNMG080408-MF1 WNMP432-MF1	TM3501	03276721
TNMG160412-MF4 TN-MG333-MF4	TM1501	03276679	VBMG160412-M3 VBMG333-M3	TM1501	03280024	WNMG080408-MF3 WNMG432-MF3	TM2501	03280032
TNMG160412-MF4 TN-MG333-MF4	TM2501	03276680	VBMG160412-M3 VBMG333-M3	TM2501	03280025	WNMG080408-MF3 WNMG432-MF3	TM3501	03280033
TNMG160412-MF4 TN-MG333-MF4	TM3501	03276681	VBMG160412-M3 VBMG333-M3	TM3501	03280026	WNMG080408-MF4 WNMG432-MF4	TM1501	03273962
TNMG220408-M3 TNMG432-M3	TM3501	03276683	VBMG160412-MF2 VBMG332-MF2	TM3501	03276633	WNMG080408-MF4 WNMG432-MF4	TM2501	03273964
TNMG220408-M5 TNMG432-M5	TM2501	03274178	WCMT06T308-F1 WCMT32.52-F1	TM3501	03276634	WNMG080408-MF4 WNMG432-MF4	TM3501	03273966
TNMG220408-MF4 TNMG432-MF4	TM1501	03276684	WNMG060404-M3 WNMG331-M3	TM3501	03276694	WNMG080408W-MF4 WNMG432W-MF4	TM1501	03277089
TNMG220408-MF4 TNMG432-MF4	TM2501	03276685	WNMG060404-MF1 WNMP331-MF1	TM2501	03276695	WNMG080408W-MF4 WNMG432W-MF4	TM2501	03277090
TNMG220408-MF4 TNMG432-MF4	TM3501	03276686	WNMG060404-MF1 WNMP331-MF1	TM3501	03276696	WNMG080408W-MF4 WNMG432W-MF4	TM3501	03277091
TNMG220412-M3 TNMG433-M3	TM3501	03276687	WNMG060404-MF4 WNMG331-MF4	TM1501	03276698	WNMG080408W-MF4 WNMG432W-MF4	TM2501	03280034
TNMG220412-M5 TNMG433-M5	TM2501	03276688	WNMG060404-MF4 WNMG331-MF4	TM2501	03276699	WNMG080408W-MF4 WNMG432W-MF4	TM3501	03280035
TNMG220412-MF4 TNMG433-MF4	TM1501	03276689	WNMG060404-MF4 WNMG331-MF4	TM3501	03276700	WNMG080412-M5 WNMG433-M5	TM1501	03274182
TNMG220412-MF4 TNMG433-MF4	TM2501	03276690	WNMG060408-M3 WNMG332-M3	TM3501	03276702	WNMG080412-M5 WNMG433-M5	TM2501	03274183
TNMG220412-MF4 TNMG433-MF4	TM3501	03276691	WNMG060408-M5 WNMG332-M5	TM2501	03280027	WNMG080412-MF4 WNMG433-MF4	TM1501	03273968
TNMG220416-M5 TNMG434-M5	TM2501	03276692	WNMG060408-MF1 WNMP332-MF1	TM1501	03276703	WNMG080412-MF4 WNMG433-MF4	TM2501	03273970
TNMG270612-M5 TNMG543-M5	TM2501	03280007	WNMG060408-MF1 WNMP332-MF1	TM2501	03276704	WNMG080412-MF4 WNMG433-MF4	TM3501	03273972
TNMG270616-M5 TNMG544-M5	TM2501	03280008	WNMG060408-MF4 WNMG332-MF4	TM1501	03276706	WNMG080412-MR7 WNMG433-MR7	TM2501	03274184
TPMR160304-F1 TPMR321-F1	TM2501	03276606	WNMG060408-MF4 WNMG332-MF4	TM2501	03276707	WNMG080412W-MF4 WNMG433W-MF4	TM1501	03277092
TPMR160308-F1 TPMR322-F1	TM2501	03276608	WNMG060408-MF4 WNMG332-MF4	TM3501	03276708	WNMG080412W-MF4 WNMG433W-MF4	TM2501	03277093
VBMG110202-MF2 VBMG21.50.5-MF2	TM3501	03276610	WNMG060408W-MF4 WNMG332W-MF4	TM1501	03277085	WNMG080412W-MF4 WNMG433W-MF4	TM3501	03277094
VBMG110204-MF2 VBMG21.51-MF2	TM3501	03276612	WNMG060408W-MF4 WNMG332W-MF4	TM2501	03277086	WNMG080416-M5 WNMG433-M5	TM2501	03274185
VBMG110302-F1 VBMG220.5-F1	TM3501	03276613	WNMG060408W-MF4 WNMG332W-MF4	TM3501	03277088	WNMG080612-M5 WNMG443-M5	TM2501	03276723
VBMG110304-F1 VBMG221-F1	TM3501	03276614	WNMG060412-M3 WNMG333-M3	TM3501	03276709	WNMG080616-M5 WNMG444-M5	TM2501	03276724
VBMG110308-F1 VBMG222-F1	TM3501	03276615	WNMG060412-M5 WNMG333-M5	TM2501	03276710	VNMG160404-FF1 VNMG331-FF1	TM3501	03276725
VBMG160402-MF2 VBMG330.5-MF2	TM3501	03276616	WNMG060412-MF4 WNMG333-MF4	TM1501	03273958	VNMG160404-M3 VNMG331-M3	TM2501	03276727
VBMG160404-F1 VBMG331-F1	TM1501	03276617	WNMG060412-MF4 WNMG333-MF4	TM2501	03273960	VNMG160404-MF4 VNMG331-MF4	TM1501	03273974
VBMG160404-F1 VBMG331-F1	TM2501	03276618	WNMG060412-MF4 WNMG333-MF4	TM3501	03276711	VNMG160404-MF4 VNMG331-MF4	TM2501	03273976
VBMG160404-M3 VBMG331-M3	TM1501	03276619	WNMG080404-M3 WNMG431-M3	TM3501	03276713	VNMG160404-MF4 VNMG331-MF4	TM3501	03273978
VBMG160404-M3 VBMG331-M3	TM2501	03276620	WNMG080404-MF1 WNMP431-MF1	TM1501	03276714	VNMG160408-M3 VNMG332-M3	TM2501	03276729
VBMG160404-M3 VBMG331-M3	TM3501	03276621	WNMG080404-MF1 WNMP431-MF1	TM2501	03276715	VNMG160408-MF4 VNMG332-MF4	TM1501	03273980
VBMG160404-MF2 VBMG331-MF2	TM2501	03276622	WNMG080404-MF1 WNMP431-MF1	TM3501	03276716	VNMG160408-MF4 VNMG332-MF4	TM2501	03273982
VBMG160404-MF2 VBMG331-MF2	TM3501	03276623	WNMG080404-MF3 WNMG431-MF3	TM3501	03280028	VNMG160408-MF4 VNMG332-MF4	TM3501	03273984
VBMG160408-F1 VBMG332-F1	TM1501	03276624	WNMG080404-MF4 WNMG431-MF4	TM1501	03276717	VNMU130404-M3 VNMU2.531-M3	TM3501	03280036
VBMG160408-F1 VBMG332-F1	TM2501	03276625	WNMG080404-MF4 WNMG431-MF4	TM2501	03276718	VNMU130408-M3 VNMU2.532-M3	TM3501	03280037
VBMG160408-M3 VBMG332-M3	TM1501	03276626	WNMG080404-MF4 WNMG431-MF4	TM3501	03276719			



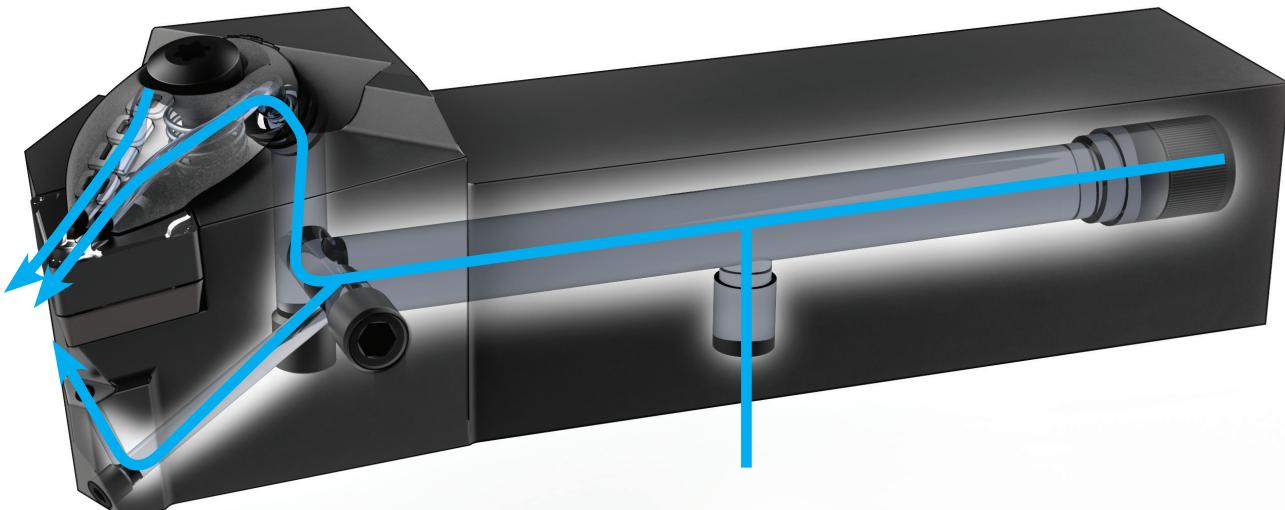
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External coolant systems require a constant stock of spare parts for different turning applications. Operators, rushing between tasks, might choose the wrong one, increasing the risk of problems such as collisions or chip jamming, or drop or lose a part that renders the entire holder useless. And even when used correctly, external coolant systems have numerous issues. It's hard to get the coolant position right; normally it takes two to three attempts. Poor chip control often knocks the pipe away, and re-setting is a regular occurrence that leads to erratic processes and frequent machine stoppage. Pipe connections can be fitted into a shank holder, but this will create a new chip trap and increase the setup time for every tool change while doing little to reduce interference. JETI Tooling of Seco Tools is a quick-change plug-and-play solution that will save you time and money with hassle-free coolant.



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