



SECO TM DURATOMIC® TURNING GRADES

PRODUCT SUMMARY & RANGE

CONTROL CHIPS & END PART SCRAPPING IN CHALLENGING STAINLESS STEEL TURNING APPLICATIONS

DURATOMIC® TM GRADES

Take the machining difficulties out of turning stainless steels once and for all. Put Seco's new TM1501, TM2501 and TM3501 grades, designed specifically for stainless steels – to work for you and gain peak part-processing performance. Keep chip removal and part quality under control by using any of the efficient chipbreakers and versatile grades from the new range. Minimize typical tool life restricting wear modes, common in stainless steel turning, such as notch wear, chip hammering, burr formation, built-up-edge and chipping.

From heavy-roughing to finishing and easy austenitic to the most demanding steel turning applications, these new grades have you covered.

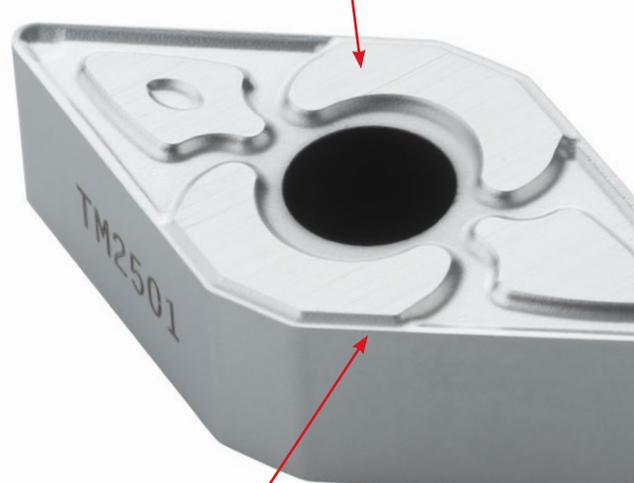
RANGE OVERVIEW

- Duratomic® TM1501, TM2501, TM3501 (480 total products)
- Covers a variety of stainless steel alloys, from finishing to heavy roughing

TM1501 - Provides speed, productivity and wear resistance on medium to large-sized austenitic stainless steel components under stable conditions.

TM2501 - The first choice in austenitic stainless steel alloy, providing long, predictable tool life and toughness for a variety of component sizes and conditions.

TM3501 - Versatile but tough, handles severe interrupted cuts in all stainless alloys or when cutting speed is restricted and provides excellent finishing ability. Peaks in a variety of component sizes and in difficult alloys stretching from duplex to complex, high-alloyed super-duplex stainless steel.



Comprehensive
geometry and
chipbreaker
range available

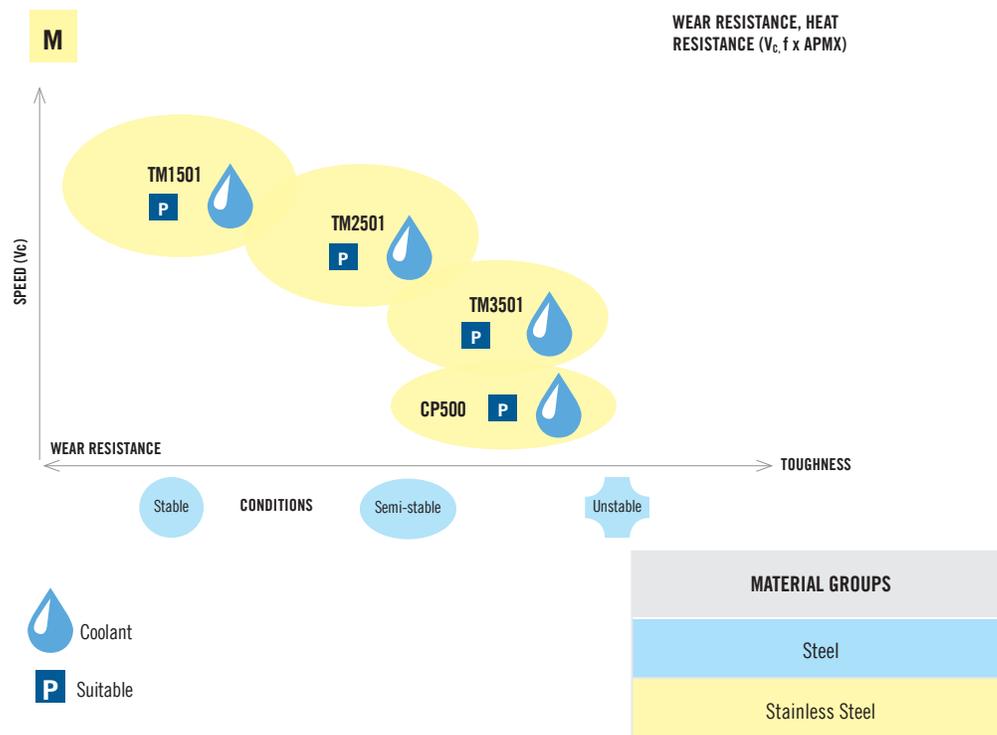
Duratomic®
used-edge detection
technology

DESCRIPTION	GRADES (PRODUCT NUMBER)			DESCRIPTION	GRADES (PRODUCT NUMBER)			DESCRIPTION	GRADES (PRODUCT NUMBER)		
	TM1501	TM2501	TM3501		TM1501	TM2501	TM3501		TM1501	TM2501	TM3501
CCMT21.50.5-F1	-	03275902	-	CNMG542-M3	-	03276038	-	DNMG441-MF2	03276287	-	-
CCMT21.50.5-FF1	-	-	03275903	CNMG542-M5	-	03273912	-	DNMG441-MF4	03276288	03276289	03276290
CCMT21.50.5-M3	03275904	-	03275905	CNMG542-MF4	03273913	03273915	03273917	DNMG442-M3	03276295	03276297	03276298
CCMT21.50.5-MF2	-	-	03275907	CNMG543-M3	-	03276039	03276040	DNMG442-M5	03274159	03274160	-
CCMT21.51-F1	03275908	03275909	03275910	CNMG543-M5	03273919	03273921	-	DNMG442-MF2	03274164	-	-
CCMT21.51-FF1	-	-	03275912	CNMG543-MF4	03273923	03273926	03273928	DNMG442-MF3	-	-	03276299
CCMT21.51-M3	03275914	03275915	03275916	CNMG544-M3	-	03276041	-	DNMG442-MF4	03276300	03276301	03276302
CCMT21.51-MF2	03275917	-	03275918	CNMG544-M5	03273930	03273932	-	DNMG442-MR3	-	03280981	03280985
CCMT21.51W-MF2	-	03277067	-	CNMG544-MR7	-	03276042	-	DNMG443-M3	03276303	03276304	03276305
CCMT21.52-F1	-	03275919	-	CNMG642-M3	-	-	03276043	DNMG443-M5	03274022	03274023	-
CCMT21.52-M3	03275920	03275921	03275922	CNMG642-M5	-	03276044	-	DNMG443-MF2	03276306	-	-
CCMT21.52-MF2	03275923	-	03275924	CNMG643-M3	-	-	03273934	DNMG443-MF4	03276307	03276308	03276309
CCMT32.50.5-F1	-	03275925	-	CNMG643-M5	03273936	03273938	-	DNMG443-MR3	-	03280982	03280986
CCMT32.50.5-M3	03275926	-	-	CNMG643-MF4	03276045	03276046	03276047	DNMG444-M3	-	-	03276310
CCMT32.50.5-MF2	-	-	03275927	CNMG643-MR7	03274152	03274153	-	DNMG444-M5	-	03276311	-
CCMT32.51-F1	03275928	03275929	03275930	CNMG644-M3	-	03276048	03276177	DNMG542-M5	03279992	-	-
CCMT32.51-FF1	-	-	03280012	CNMG644-M5	03274154	03274155	-	DNMP431-M3	-	-	03276269
CCMT32.51-M3	03275931	03275933	03275934	CNMG644-MF4	-	03276178	03276179	DNMP441-MF1	03276284	03276285	03276286
CCMT32.51-M5	-	03275935	-	CNMG644-MR7	-	03276180	-	DNMP442-MF1	03274161	03274162	03274163
CCMT32.51-MF2	03275936	03275937	03275938	CNMM543-RR6	03276182	03276183	03276184	DNMU110404-M3	-	03276314	-
CCMT32.51W-MF2	-	03277068	-	CNMM544-RR6	03279989	03279990	03279991	DNMU330.5-M3	-	-	03276312
CCMT32.52-F1	03275939	03275940	03275941	CNMM643-RR6	03276185	03276186	-	DNMU331-M3	03276313	-	03276315
CCMT32.52-FF1	-	-	03275942	CNMM644-RR6	03276187	03276188	-	DNMU331-MF1	03276316	03276317	03276318
CCMT32.52-M3	03275943	03275944	03275945	CNMM646-RR6	03276189	03276190	-	DNMU331-MF2	03276319	-	-
CCMT32.52-M5	-	03275963	-	CNMP431-MF1	03275986	03275987	03275988	DNMU331-MF4	03276320	03276321	03276322
CCMT32.52-MF2	03275964	03275965	03275966	CNMP432-MF1	03275994	03275995	03275996	DNMU332-M3	03280018	03280019	03280020
CCMT32.52W-MF2	-	03277070	-	CPMT21.51-F1	03276191	-	-	DNMU332-MF1	03276323	03276324	03276325
CCMT431-M3	03275967	-	-	CPMT21.52-F1	03276192	-	-	DNMU332-MF2	03276326	-	-
CCMT432-M3	03275968	03275969	03275970	CPMT32.51-F1	03276193	-	-	DNMU332-MF4	03276327	03276328	03276329
CCMT432-M5	-	03275971	-	CPMT32.52-F1	03276194	-	-	DNMX432W-MF4	03277083	-	-
CCMT432-MF2	03275972	-	03275973	DCMT21.50.5-F1	03276195	-	-	DNMX442W-MF4	03277084	-	-
CCMT433-M3	-	-	03276547	DCMT21.50.5-MF2	-	-	03276196	DPMT32.52-F1	03276330	-	-
CCMT433-M5	-	03276548	-	DCMT21.51-F1	03276197	03276198	-	LNMX191940-MF	03280995	-	-
CCMT53.52-M3	03275974	03275975	03275976	DCMT21.51-M3	03276199	-	03276200	LNMX191940-MR	03280996	-	-
CCMT53.52-M5	-	03275977	-	DCMT21.51-MF2	-	-	03276201	RCMM43-46	03279993	-	-
CCMT53.53-M3	03275978	03275979	03275980	DCMT21.52-F1	03276202	03276203	-	RCMM64-46	03279994	-	-
CCMT53.53-M5	-	03276549	-	DCMT21.52-M3	03276204	-	03276205	RCMT0602M0-M3	03276561	-	-
CCMT53.54-M5	-	03276550	-	DCMT21.52-MF2	-	-	03276206	RCMT0803M0-F1	03276562	-	-
CNMG321-M3	-	03275981	-	DCMT32.50.5-F1	-	-	03276207	RCMT0803M0-M3	03276563	-	-
CNMG322-M3	-	03275982	-	DCMT32.50.5-FF1	-	-	03280016	RCMT1073M0-F1	03276564	-	-
CNMG431-FF1	-	-	03275983	DCMT32.50.5-MF2	-	-	03276208	RCMT1073M0-M3	03276565	-	-
CNMG431-M3	03280013	03280014	03280015	DCMT32.51-F1	03276209	03276210	03276211	RCMT1204M0-F1	03276566	-	-
CNMG431-M5	03275984	03275985	-	DCMT32.51-FF1	-	-	03280017	RCMT1204M0-M3	03276567	-	-
CNMG431-MF2	03276010	-	-	DCMT32.51-M3	03276212	03276213	03276214	RCMT1606M0-M3	03276568	-	-
CNMG431-MF4	03273899	03273901	03273902	DCMT32.51-MF2	03276215	03276216	03276250	RCMX200600-RR93	03276569	-	-
CNMG431W-MF1	-	-	03277071	DCMT32.52-F1	03276251	03276252	-	RCMX250700-RR93	03276570	-	-
CNMG431W-MF4	03277072	03277073	03277074	DCMT32.52-FF1	-	-	03276253	RCMX320900-RR93	03276571	-	-
CNMG432-FF1	-	-	03279988	DCMT32.52-M3	03276254	03276255	03276256	SCMT2.522-M3	-	-	03276574
CNMG432-M3	03275989	03275990	03275991	DCMT32.52-M5	-	03276257	-	SCMT21.51-M3	03276572	-	03276573
CNMG432-M5	03275992	03275993	-	DCMT32.52-MF2	03276258	03276259	03276260	SCMT32.51-M3	03276575	-	03276576
CNMG432-MF2	03275997	-	-	DCMT32.53-M5	-	03276261	-	SCMT32.51-MF2	-	-	03276577
CNMG432-MF3	03275998	03275999	03276000	DCMT32.53-MF2	-	-	03276262	SCMT32.52-M3	03276578	-	03276579
CNMG432-MF4	03273903	03273904	03273905	DCMT431-M3	03276263	-	03276264	SCMT32.52-M5	-	03276580	-
CNMG432-MR3	-	03280979	03280983	DCMT432-M3	03276265	-	03276267	SCMT32.52-MF2	-	-	03276581
CNMG432-MR7	-	03276001	-	DNMG431-M3	03276268	-	-	SCMT32.53-MF2	-	-	03276582
CNMG432-R4	03276181	-	-	DNMG431-MF4	-	03276270	03276271	SCMT432-F1	03276583	-	-
CNMG432W-MF4	03277075	03277077	03277078	DNMG432-M3	03276272	03276273	03276274	SCMT432-M3	03276584	-	03276585
CNMG433-M3	03276029	03276030	03276031	DNMG432-M5	03274156	03274157	-	SCMT432-M5	-	03276586	-
CNMG433-M5	03273906	03273907	-	DNMG432-MF4	03276275	03276276	03276277	SCMT21.51-M3	03276572	-	03276573
CNMG433-MF3	-	-	03276032	DNMG432-MR3	-	03280989	03280993	SCMT32.51-MF2	-	-	03276576
CNMG433-MF4	03273908	03273909	03273910	DNMG433-M3	03276278	-	03276279	SCMT32.52-M3	03276578	-	03276579
CNMG433-MR3	-	03280980	03280984	DNMG433-M5	-	03274158	-	SCMT32.52-M5	-	03276580	-
CNMG433-MR7	-	03276033	-	DNMG433-MF4	03273940	03273942	03276280	SCMT32.53-MF2	-	-	03276581
CNMG433W-MF4	03277079	03277080	03277081	DNMG433-MR3	-	03280990	03280994	SCMT32.53-MF2	-	-	03276582
CNMG434-M5	-	03276034	-	DNMG441-FF1	-	-	03276281	SCMT432-M3	03276584	-	03276585
CNMG434-MF4	03276035	03276036	03276037	DNMG441-M3	03276282	-	03276283	SCMT432-M5	-	03276586	-

SECO TM DURATOMIC® TURNING GRADES

PRODUCT SUMMARY & RANGE

APPLICATION AREA IN STAINLESS STEEL



INDUSTRY TARGETS

- **Automotive:** Trunnions, sensor bodies and rod ends. Reliable inserts with consistent tool life for process security in high productivity environments.
- **General Machining:** Batch work and small production runs such as covers and adapters require highly versatile inserts that can keep up with the demand from job to job.
- **Oil & Gas:** Sleeves, valves, and flange components. Virtually no sacrifice in part quality or process safety. To achieve the specific surface finish required, the feed rate is set at a relatively high level.
- **Power Generation:** Large to small diameter work pieces. Provides a highly adaptable grade chain for short time in cut at high sfm or long time in cut at low sfm.

IMPACT	BENEFITS	ADVANTAGES	FEATURES
<ul style="list-style-type: none"> • Overcome low machinability issues in stainless steels 	<ul style="list-style-type: none"> • Improved machining process with less risk of machine down time • Process security in stainless steels 	<ul style="list-style-type: none"> • Secured machining process • Decreased risk of insert breakage 	<ul style="list-style-type: none"> • Duratomic® coating and substrate technology
<ul style="list-style-type: none"> • Stop wasting unused insert edges 	<ul style="list-style-type: none"> • Avoid throwing away unused edges • Fewer unnecessary insert changes • No microscope necessary 	<ul style="list-style-type: none"> • Easily determine which edges are used • Less inventory & scrap 	<ul style="list-style-type: none"> • Duratomic® used-edge detection
<ul style="list-style-type: none"> • Control your ability to turn in easy to rough applications with or without coolant 	<ul style="list-style-type: none"> • Three grades to choose from in heavy-roughing to finishing 	<ul style="list-style-type: none"> • Gain greater process predictability in steels 	<ul style="list-style-type: none"> • TM1501, TM2501 & TM3501 grades