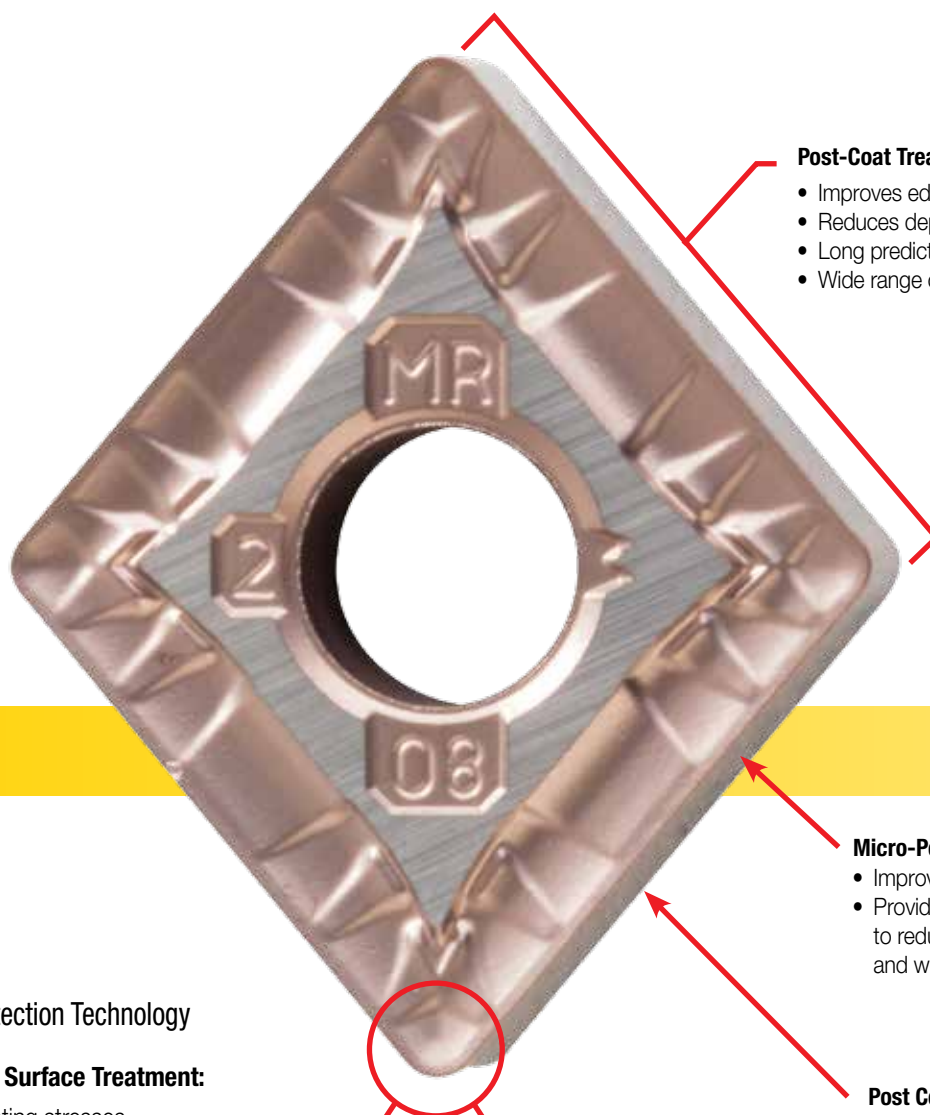


➤ Beyond™ Drive™

The solution for those looking for increased metal removal rates, longer tool life, versatility and improved wear detection.



Post-Coat Treatment

- Improves edge toughness.
- Reduces depth-of-cut notching.
- Long predictable tool life.
- Wide range of applications.

Micro-Polished Cutting Edges

- Improves edge toughness.
- Provides smooth outer surface to reduce forces, friction, and workpiece sticking.

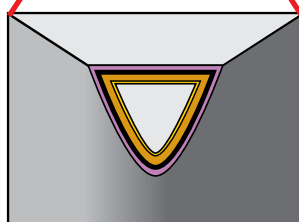
Post Coat Grinding — Bottom

- Provides secure seating surface.

With Wear Detection Technology

The Advanced Surface Treatment:

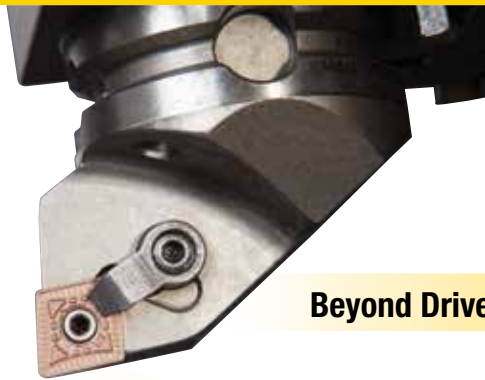
- Reduces coating stresses.
- Improves coating adhesion.
- Bronze outer layer simplifies wear detection.



Fine-Grained Alumina Layer

- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high cutting temperatures.

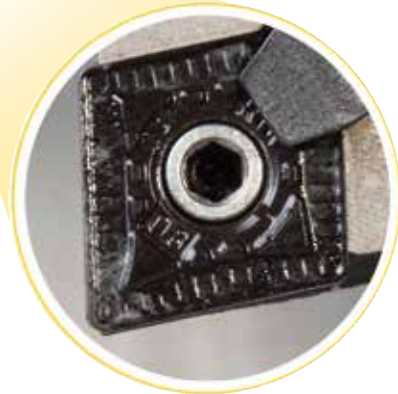
TiN/MT-TiCN/TiCN/Al₂O₃/TiCN



Beyond Drive™



Black Inserts



With Wear Detection Technology



- Higher productivity and profitability — up to 30% higher.
- Lower cutting forces — increase speeds and reduce cycle time.
- Extended tool life.
- Predictable tool life/uniform wear.
- Resists chip flow damage.
- Consistent surface finish.
- Products can be applied across a wide range of applications.
- Use it in low speed to high speed applications.
- For finish to rough turning of steel, cast iron, stainless steel, and high-temp alloy turning.



➤ Beyond™ PVD Grades

KCU10™

- PVD-coated grade with superior wear resistance at elevated temperatures, allowing higher metal cutting speeds.
- For use in all materials, especially stainless steels and high-temp alloys.
- Improved depth-of-cut notch resistance.
- Increase speed by 20–30% or feed by 10–15%.
- Use in finishing to medium applications.

KCU25™

- PVD-coated grade with superior edge toughness and excellent wear resistance. Medium to roughing applications.
- Use in all materials.
- Increase speed, feed, and depth of cut by 10–20%.



	P	M	K	N	S	H
KCP10B	●	○	○	○	○	○
KCP25B	●	○	○	○	○	○
KCP40B	●	○	○	○	○	○
KCM15B	○	●	○	○	○	○
KCM25B	○	●	○	○	○	○
KCK15B	○	○	●	○	○	○
KCK20B	○	○	●	○	○	○
KCU10	○	●	○	○	●	○
KCS10	○	○	○	○	●	○
KCU25	○	●	○	○	●	○

- First Choice
- Alternate Choice

order number	catalog number	grade
CCGT-HP • Finishing • High Positive		
4045134	CCGT21505HP	KCU10
4050372	CCGT21505HP	KCU25
4045137	CCGT2151HP	KCU10
4045141	CCGT32505HP	KCU10
4050405	CCGT32505HP	KCU25
4045194	CCGT3251HP	KCU10
4050406	CCGT3251HP	KCU25
4045196	CCGT3252HP	KCU10
4050407	CCGT3252HP	KCU25
4045198	CCGT4305HP	KCU10
4050409	CCGT431HP	KCU25
4045200	CCGT432HP	KCU10
CCGT-LF • Light Finishing		
4045135	CCGT21505LF	KCU10
4045136	CCGT2150LF	KCU10
4045138	CCGT2151LF	KCU10
4045140	CCGT2152LF	KCU10
4045142	CCGT32505LF	KCU10
4045193	CCGT3250LF	KCU10
4045195	CCGT3251LF	KCU10
4045197	CCGT3252LF	KCU10
CCMT-FP • Finishing Positive		
5591141	CCMT21505FP	KCM25B
3769290	CCMT21505FP	KCU10
3769413	CCMT21505FP	KCU25
5640904	CCMT2151FP	KCM15B
5591140	CCMT2151FP	KCM25B
5537375	CCMT2151FP	KCP10B
5537376	CCMT2151FP	KCP25B
3769291	CCMT2151FP	KCU10
3769414	CCMT2151FP	KCU25
5591126	CCMT2152FP	KCM25B
5537377	CCMT2152FP	KCP10B
5537378	CCMT2152FP	KCP25B
3769292	CCMT2152FP	KCU10
3769415	CCMT2152FP	KCU25
5591144	CCMT32505FP	KCM25B
5537379	CCMT32505FP	KCP25B
3769343	CCMT32505FP	KCU10
3769416	CCMT32505FP	KCU25
5640908	CCMT3251FP	KCM15B
5591128	CCMT3251FP	KCM25B
5537420	CCMT3251FP	KCP10B
5537421	CCMT3251FP	KCP25B
3769344	CCMT3251FP	KCU10
3769417	CCMT3251FP	KCU25
5640384	CCMT3252FP	KCK20B
5640962	CCMT3252FP	KCM15B
5591142	CCMT3252FP	KCM25B
5537422	CCMT3252FP	KCP10B
5537423	CCMT3252FP	KCP25B
3482532	CCMT3252FP	KCU10
3769418	CCMT3252FP	KCU25
5640389	CCMT431FP	KCK20B
5591146	CCMT431FP	KCM25B
5537426	CCMT431FP	KCP25B
3769345	CCMT431FP	KCU10
5640966	CCMT432FP	KCM15B
5537428	CCMT432FP	KCP10B
5537427	CCMT432FP	KCP25B
CCMT-FW • Finishing Wiper		
4045201	CCMT21505FW	KCU10
5639845	CCMT2151FW	KCK20B
4045202	CCMT2151FW	KCU10
5639848	CCMT2152FW	KCK20B
4045203	CCMT2152FW	KCU10
5640380	CCMT3251FW	KCK20B
4045204	CCMT3251FW	KCU10
5640385	CCMT3252FW	KCK20B
5640963	CCMT3252FW	KCM15B
4045206	CCMT3252FW	KCU10

order number	catalog number	grade
CCMT-LF • Light Finishing		
5640442	CCMT2151LF	KCM15B
5596451	CCMT2151LF	KCM25B
5639849	CCMT2152LF	KCK20B
5640907	CCMT2152LF	KCM15B
5591147	CCMT2152LF	KCM25B
5640381	CCMT3251LF	KCK20B
5596450	CCMT3251LF	KCM25B
5388031	CCMT3251LF	KCP10B
5387627	CCMT3251LF	KCP25B
5596415	CCMT3252LF	KCM25B
5388032	CCMT3252LF	KCP10B
5387628	CCMT3252LF	KCP25B
5640390	CCMT431LF	KCK20B
5596453	CCMT431LF	KCM25B
5596414	CCMT432LF	KCM25B
5640394	CCMT433LF	KCK20B
CCMT-MF • Medium Finishing		
5639846	CCMT2151MF	KCK20B
5640905	CCMT2151MF	KCM15B
5591174	CCMT2151MF	KCM25B
5640382	CCMT3251MF	KCK20B
5640909	CCMT3251MF	KCM15B
5591172	CCMT3251MF	KCM25B
5596455	CCMT3252MF	KCM25B
5388033	CCMT3252MF	KCP10B
5387629	CCMT3252MF	KCP25B
5640388	CCMT3253MF	KCK20B
5591256	CCMT3253MF	KCM25B
5413119	CCMT3253MF	KCP10B
5413170	CCMT3253MF	KCP25B
5640391	CCMT432MF	KCK20B
5596456	CCMT432MF	KCM25B
5388035	CCMT432MF	KCP10B
5387661	CCMT432MF	KCP25B
5640395	CCMT433MF	KCK20B
CCMT-MP • Medium Positive		
5639847	CCMT2151MP	KCK20B
5640906	CCMT2151MP	KCM15B
5591914	CCMT2151MP	KCM25B
3744975	CCMT2151MP	KCU10
5640383	CCMT3251MP	KCK20B
5640960	CCMT3251MP	KCM15B
5591792	CCMT3251MP	KCM25B
3744976	CCMT3251MP	KCU10
5640386	CCMT3252MP	KCK20B
5640964	CCMT3252MP	KCM15B
5591783	CCMT3252MP	KCM25B
3744977	CCMT3252MP	KCU10
5640392	CCMT432MP	KCK20B
5640967	CCMT432MP	KCM15B
5591777	CCMT432MP	KCM25B
3744978	CCMT432MP	KCU10
5640396	CCMT433MP	KCK20B
5591793	CCMT433MP	KCM25B
CCMT-MW • Medium Wiper		
5640961	CCMT3251MW	KCM15B
4045205	CCMT3251MW	KCU10
5640387	CCMT3252MW	KCK20B
5640965	CCMT3252MW	KCM15B
4045207	CCMT3252MW	KCU10
5640393	CCMT432MW	KCK20B
5640968	CCMT432MW	KCM15B
CCMW • Roughing		
5640397	CCMW2151	KCK20B
5640398	CCMW3251	KCK20B
5640399	CCMW3252	KCK20B
5640400	CCMW432	KCK20B
5640401	CCMW433	KCK20B
CDG		
4053310	CDG120302R	KCU10
4053311	CDG120402R	KCU10

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(Beyond™ Drive™ • Beyond PVD Grades — continued)

Turning

order number	catalog number	grade
CDHB		
4050607	CDHB120601	KCU25
4053323	CDHB120605	KCU10
4050608	CDHB120605	KCU25
4053324	CDHB12061	KCU10
4050609	CDHB12061	KCU25
4053312	CDHB1206X0	KCU10
CDHH		
4053325	CDHH120605L	KCU10
4050611	CDHH120605L	KCU25
4053326	CDHH120605R	KCU10
4050612	CDHH120605R	KCU25
4053327	CDHH12061L	KCU10
4050613	CDHH12061L	KCU25
4053328	CDHH12061R	KCU10
CNGG-FS • Finishing Sharp		
4050397	CNGG431FS	KCU25
4050398	CNGG432FS	KCU25
CNGG-LF • Light Finishing		
4050666	CNGG431LF	KCU10
4050667	CNGG432LF	KCU10
CNGP • Medium Machining		
4050671	CNGP430	KCU10
4050672	CNGP4305	KCU10
4050673	CNGP431	KCU10
4050674	CNGP433	KCU10
CNMA • Roughing		
5640402	CNMA431	KCK20B
5640403	CNMA544	KCK20B
5640404	CNMA642	KCK20B
5640405	CNMA643	KCK20B
5640406	CNMA644	KCK20B
4050709	CNMG643	KCU10
CNMG-FF • Fine Finishing		
4171771	CNMG321FF	KCU10
5640970	CNMG431FF	KCM15B
5534828	CNMG431FF	KCP10B
5534829	CNMG431FF	KCP25B
4050677	CNMG431FF	KCU10
5640974	CNMG432FF	KCM15B
5535022	CNMG432FF	KCP10B
5535023	CNMG432FF	KCP25B
4050684	CNMG432FF	KCU10
CNMG-FM • Finishing Medium		
5387230	CNMG433FM	KCP10B
5387231	CNMG433FM	KCP25B
CNMG-FN • Finishing Negative		
4171823	CNMG4305FN	KCU10
5531837	CNMG431FN	KCK15B
5531836	CNMG431FN	KCP10B
5531838	CNMG431FN	KCP25B
5387753	CNMG432FN	KCK15B
5531839	CNMG432FN	KCP10B
5531890	CNMG432FN	KCP25B
5531895	CNMG433FN	KCK15B
5531894	CNMG433FN	KCP10B
5531893	CNMG433FN	KCP25B
CNMG-FP • Finishing Positive		
5531835	CNMG431FP	KCP25B
4171824	CNMG431FP	KCU10
5531891	CNMG432FP	KCP10B
5531892	CNMG432FP	KCP25B
4050061	CNMG432FP	KCU10
4050062	CNMG433FP	KCU10
CNMG-FW • Finishing Wiper		
4050678	CNMG431FW	KCU10
4050685	CNMG432FW	KCU10

order number	catalog number	grade
CNMG-MN • Medium Negative		
5591729	CNMG323MN	KCP40B
5697921	CNMG431MN	KCP10B
5591773	CNMG431MN	KCP40B
5388036	CNMG432MN	KCP10B
5387662	CNMG432MN	KCP25B
5596457	CNMG432MN	KCP40B
5388061	CNMG433MN	KCP10B
5387667	CNMG433MN	KCP25B
5591716	CNMG433MN	KCP40B
5413178	CNMG543MN	KCP10B
5413179	CNMG543MN	KCP25B
5591715	CNMG543MN	KCP40B
5388081	CNMG643MN	KCP10B
5387688	CNMG643MN	KCP25B
5591725	CNMG643MN	KCP40B
5430968	CNMG644MN	KCP10B
5425547	CNMG644MN	KCP25B
CNMG-MP • Medium Positive		
5640969	CNMG322MP	KCM15B
4050676	CNMG322MP	KCU10
5640971	CNMG431MP	KCM15B
5591779	CNMG431MP	KCM25B
4050679	CNMG431MP	KCU10
5596460	CNMG432MP	KCM25B
4050686	CNMG432MP	KCU10
4050451	CNMG432MP	KCU25
5640979	CNMG433MP	KCM15B
5591901	CNMG433MP	KCM25B
4050692	CNMG433MP	KCU10
4050452	CNMG433MP	KCU25
4050697	CNMG434MP	KCU10
5640982	CNMG542MP	KCM15B
4050700	CNMG542MP	KCU10
5640985	CNMG543MP	KCM15B
5591780	CNMG543MP	KCM25B
4050702	CNMG543MP	KCU10
5591775	CNMG544MP	KCM25B
5640988	CNMG642MP	KCM15B
5591787	CNMG642MP	KCM25B
4050708	CNMG642MP	KCU10
5640989	CNMG643MP	KCM15B
5591799	CNMG643MP	KCM25B
4050710	CNMG643MP	KCU10
4050514	CNMG643MP	KCU25
5640992	CNMG644MP	KCM15B
5591918	CNMG644MP	KCM25B
4050713	CNMG644MP	KCU10
CNMG-MR • Medium Roughing		
5641048	CNMG431MR	KCM15B
5403092	CNMG432MR	KCK15B
5640976	CNMG432MR	KCM15B
5403019	CNMG432MR	KCP10B
5403090	CNMG432MR	KCP25B
5403099	CNMG433MR	KCK15B
5403096	CNMG433MR	KCP10B
5403097	CNMG433MR	KCP25B
5403108	CNMG434MR	KCP10B
5403109	CNMG434MR	KCP25B
5641049	CNMG542MR	KCM15B
5592104	CNMG542MR	KCP10B
5592103	CNMG542MR	KCP25B
5403106	CNMG543MR	KCK15B
5641041	CNMG543MR	KCM15B
5403103	CNMG543MR	KCP10B
5403104	CNMG543MR	KCP25B
5403114	CNMG544MR	KCK15B
5403112	CNMG544MR	KCP10B
5403113	CNMG544MR	KCP25B
5641042	CNMG643MR	KCM15B
5403118	CNMG643MR	KCP10B
5403119	CNMG643MR	KCP25B
5641050	CNMG644MR	KCM15B
5592129	CNMG644MR	KCP10B
5592128	CNMG644MR	KCP25B

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(Beyond™ Drive™ • Beyond PVD Grades — continued)

order number	catalog number	grade
CNMG-MS • Medium Sharp		
5090494	CNMG4305MS	KCU10
4050399	CNMG4305MS	KCU25
5090495	CNMG430MS	KCU10
4050400	CNMG430MS	KCU25
5090496	CNMG431MS	KCU10
4050402	CNMG431MS	KCU25
5090497	CNMG432MS	KCU10
4050454	CNMG432MS	KCU25
5090498	CNMG433MS	KCU10
4050455	CNMG433MS	KCU25
5090499	CNMG434MS	KCU10
5090680	CNMG542MS	KCU10
4050460	CNMG542MS	KCU25
5090681	CNMG543MS	KCU10
4050462	CNMG543MS	KCU25
5090682	CNMG642MS	KCU10
4050466	CNMG642MS	KCU25
5062149	CNMG643MS	KCU25
5090684	CNMG644MS	KCU10
4050469	CNMG644MS	KCU25
CNMG-MW • Medium Wiper		
5387755	CNMG432MW	KCK15B
5591963	CNMG432MW	KCM25B
5388037	CNMG432MW	KCP10B
5387663	CNMG432MW	KCP25B
5413173	CNMG433MW	KCK15B
CNMG-P • Medium Positive		
4050681	CNMG431P	KCU10
4050688	CNMG432P	KCU10
4050694	CNMG433P	KCU10
4050698	CNMG434P	KCU10
5065608	CNMG543P	KCU10
4050711	CNMG643P	KCU10
CNMG-RN • Roughing Negative		
5388038	CNMG432RN	KCP10B
5387664	CNMG432RN	KCP25B
5393244	CNMG432RN	KCP40B
5388062	CNMG433RN	KCP10B
5387668	CNMG433RN	KCP25B
5596465	CNMG433RN	KCP40B
5388064	CNMG434RN	KCP10B
5387681	CNMG434RN	KCP25B
5596466	CNMG434RN	KCP40B
5430966	CNMG543RN	KCP10B
5425545	CNMG543RN	KCP25B
5591983	CNMG543RN	KCP40B
5430967	CNMG544RN	KCP10B
5425546	CNMG544RN	KCP25B
5591913	CNMG544RN	KCP40B
5388082	CNMG643RN	KCP10B
5387689	CNMG643RN	KCP25B
5591973	CNMG643RN	KCP40B
5388084	CNMG644RN	KCP10B
5387691	CNMG644RN	KCP25B
5591975	CNMG644RN	KCP40B

order number	catalog number	grade
CNMG-RP • Roughing Positive		
5640407	CNMG431RP	KCK20B
5640972	CNMG431RP	KCM15B
5591950	CNMG431RP	KCM25B
4050682	CNMG431RP	KCU10
4050453	CNMG431RP	KCU25
5596468	CNMG432RP	KCM25B
5388039	CNMG432RP	KCP10B
5387665	CNMG432RP	KCP25B
4050689	CNMG432RP	KCU10
4050057	CNMG432RP	KCU25
5596469	CNMG433RP	KCM25B
5413174	CNMG433RP	KCP10B
5413175	CNMG433RP	KCP25B
4050695	CNMG433RP	KCU10
4050456	CNMG433RP	KCU25
5640408	CNMG434RP	KCK20B
5591957	CNMG434RP	KCM25B
5413176	CNMG434RP	KCP10B
5413177	CNMG434RP	KCP25B
4050699	CNMG434RP	KCU10
5640983	CNMG542RP	KCM15B
4050701	CNMG542RP	KCU10
4050461	CNMG542RP	KCU25
5640409	CNMG543RP	KCK20B
5640986	CNMG543RP	KCM15B
5591919	CNMG543RP	KCM25B
5413180	CNMG543RP	KCP10B
5413181	CNMG543RP	KCP25B
4050704	CNMG543RP	KCU10
4050463	CNMG543RP	KCU25
5640410	CNMG544RP	KCK20B
5591960	CNMG544RP	KCM25B
5413182	CNMG544RP	KCP10B
5413183	CNMG544RP	KCP25B
4050707	CNMG544RP	KCU10
4050465	CNMG544RP	KCU25
5640411	CNMG643RP	KCK20B
5640990	CNMG643RP	KCM15B
5591931	CNMG643RP	KCM25B
5591971	CNMG643RP	KCP40B
4050712	CNMG643RP	KCU10
4050468	CNMG643RP	KCU25
5640993	CNMG644RP	KCM15B
5591955	CNMG644RP	KCM25B
4050714	CNMG644RP	KCU10
4050470	CNMG644RP	KCU25
CNMM-RH • Roughing Heavy		
5591615	CNMM644RH	KCP40B
5387698	CNMM646RH	KCP25B
5596462	CNMM646RH	KCP40B
5413059	CNMM866RH	KCP25B
5591614	CNMM866RH	KCP40B
CNMM-RM • Roughing Medium		
5388085	CNMM433RM	KCP10B
5387692	CNMM433RM	KCP25B
5388088	CNMM543RM	KCP10B
5387695	CNMM543RM	KCP25B
5591631	CNMM643RM	KCP40B
5388090	CNMM644RM	KCP10B
5387697	CNMM644RM	KCP25B
5591632	CNMM644RM	KCP40B
5388091	CNMM646RM	KCP10B
5387699	CNMM646RM	KCP25B
5596464	CNMM646RM	KCP40B
5413210	CNMM866RM	KCP25B
5591618	CNMM866RM	KCP40B

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(Beyond™ Drive™ • Beyond PVD Grades — continued)

Turning

order number	catalog number	grade
CNMM-RP • Roughing Positive		
5596481	CNMM432RP	KCM25B
5388086	CNMM433RP	KCP10B
5387693	CNMM433RP	KCP25B
5387694	CNMM434RP	KCP25B
5596488	CNMM543RP	KCM25B
5388089	CNMM544RP	KCP10B
5387696	CNMM544RP	KCP25B
5596489	CNMM643RP	KCM25B
5596485	CNMM644RP	KCM25B
5591633	CNMM646RP	KCM25B
CPGM		
4045210	CPGM3250	KCU10
4045211	CPGM3250S	KCU10
4050412	CPGM3250S	KCU25
5641067	CPGM3251	KCM15B
5591122	CPGM3251	KCM25B
4045212	CPGM3251	KCU10
4050413	CPGM3251	KCU25
5641068	CPGM3252	KCM15B
5591121	CPGM3252	KCM25B
4045213	CPGM3252	KCU10
4050414	CPGM3252	KCU25
CPGT-HP • Finishing • High Positive		
4045214	CPGT21505HP	KCU10
4045217	CPGT2151HP	KCU10
4050416	CPGT2151HP	KCU25
4050417	CPGT2152HP	KCU25
4045221	CPGT32505HP	KCU10
4045223	CPGT3251HP	KCU10
4050419	CPGT3251HP	KCU25
4045225	CPGT3252HP	KCU10
4050420	CPGT3252HP	KCU25
CPGT-LF • Light Finishing		
4045215	CPGT21505LF	KCU10
4045216	CPGT2150LF	KCU10
4045218	CPGT2151LF	KCU10
4045220	CPGT2152LF	KCU10
4045222	CPGT32505LF	KCU10
4045224	CPGT3251LF	KCU10
4045226	CPGT3252LF	KCU10
CPMT-FP • Finishing Positive		
3769347	CPMT181505FP	KCU10
3769421	CPMT181505FP	KCU25
3769348	CPMT18151FP	KCU10
3769422	CPMT18151FP	KCU25
3769349	CPMT21505FP	KCU10
3769423	CPMT21505FP	KCU25
5640412	CPMT2151FP	KCK20B
5537429	CPMT2151FP	KCP25B
3769350	CPMT2151FP	KCU10
3769424	CPMT2151FP	KCU25
3769351	CPMT2152FP	KCU10
3769425	CPMT2152FP	KCU25
3769352	CPMT32505FP	KCU10
3769426	CPMT32505FP	KCU25
5640417	CPMT3251FP	KCK20B
5537432	CPMT3251FP	KCP25B
3769353	CPMT3251FP	KCU10
3769427	CPMT3251FP	KCU25
3769354	CPMT3252FP	KCU10
3769428	CPMT3252FP	KCU25
CPMT-FW • Finishing Wiper		
4045227	CPMT21505FW	KCU10
5640413	CPMT2151FW	KCK20B
4045228	CPMT2151FW	KCU10
5640414	CPMT2152FW	KCK20B
4045229	CPMT2152FW	KCU10
5640418	CPMT3251FW	KCK20B
4045230	CPMT3251FW	KCU10
5640420	CPMT3252FW	KCK20B
4045232	CPMT3252FW	KCU10

order number	catalog number	grade
CPMT-LF • Light Finishing		
5596454	CPMT2151LF	KCM25B
5640415	CPMT2152LF	KCK20B
5640419	CPMT3251LF	KCK20B
5641090	CPMT3251LF	KCM15B
5591157	CPMT3251LF	KCM25B
5640421	CPMT3252LF	KCK20B
5591150	CPMT3252LF	KCM25B
5413185	CPMT3252LF	KCP10B
5413186	CPMT3252LF	KCP25B
CPMT-MF • Medium Finishing		
5640416	CPMT2152MF	KCK20B
5641069	CPMT2152MF	KCM15B
5591711	CPMT2152MF	KCM25B
5640422	CPMT3252MF	KCK20B
5641091	CPMT3252MF	KCM15B
5591169	CPMT3252MF	KCM25B
5413187	CPMT3252MF	KCP10B
5413188	CPMT3252MF	KCP25B
CPMT-MP • Medium Positive		
5413184	CPMT2152MP	KCP25B
3744979	CPMT2152MP	KCU10
5640423	CPMT3252MP	KCK20B
5591916	CPMT3252MP	KCM25B
5413189	CPMT3252MP	KCP25B
3744980	CPMT3252MP	KCU10
CPMT-MW • Medium Wiper		
4045231	CPMT3251MW	KCU10
5640424	CPMT3252MW	KCK20B
5641092	CPMT3252MW	KCM15B
CPMT-UF • Ultra-Fine Finishing		
5537431	CPMT2151UF	KCP10B
5537430	CPMT2151UF	KCP25B
5537433	CPMT3251UF	KCP25B
CPT		
4053332	CPT20052L	KCU10
4053333	CPT20052R	KCU10
DCGT-HP • Finishing • High Positive		
4045237	DCGT21505HP	KCU10
4045239	DCGT2151HP	KCU10
4045240	DCGT2152HP	KCU10
4045241	DCGT32505HP	KCU10
4050424	DCGT32505HP	KCU25
4045263	DCGT3251HP	KCU10
4050425	DCGT3251HP	KCU25
4045264	DCGT3252HP	KCU10
DCGT-LF • Light Finishing		
4045238	DCGT2150LF	KCU10
4045242	DCGT3250LF	KCU10
4045265	DCGT432LF	KCU10
DCMT-FP • Finishing Positive		
5537436	DCMT21505FP	KCP25B
3769355	DCMT21505FP	KCU10
5591143	DCMT2151FP	KCM25B
3769356	DCMT2151FP	KCU10
5591127	DCMT2152FP	KCM25B
5537437	DCMT2152FP	KCP25B
3769357	DCMT2152FP	KCU10
5591129	DCMT32505FP	KCM25B
5537439	DCMT32505FP	KCP10B
5537438	DCMT32505FP	KCP25B
3769358	DCMT32505FP	KCU10
3769431	DCMT32505FP	KCU25
5591124	DCMT3251FP	KCM25B
5537442	DCMT3251FP	KCP10B
5537443	DCMT3251FP	KCP25B
3769359	DCMT3251FP	KCU10
3769432	DCMT3251FP	KCU25
5591123	DCMT3252FP	KCM25B
5538858	DCMT3252FP	KCP10B
3769360	DCMT3252FP	KCU10
3769433	DCMT3252FP	KCU25
5538859	DCMT431FP	KCP25B

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order number	catalog number	grade
DCMT-FW • Finishing Wiper		
4045266	DCMT3251FW	KCU10
4045268	DCMT3252FW	KCU10
DCMT-LF • Light Finishing		
5641093	DCMT2151LF	KCM15B
5591151	DCMT2151LF	KCM25B
5596419	DCMT3251LF	KCM25B
5596417	DCMT3252LF	KCM25B
5388095	DCMT3252LF	KCP10B
5387727	DCMT3252LF	KCP25B
4045269	DCMT3252LF	KCU10
DCMT-MF • Medium Finishing		
5591173	DCMT3251MF	KCM25B
5641094	DCMT3252MF	KCM15B
5413190	DCMT3252MF	KCP10B
5413191	DCMT3252MF	KCP25B
5388097	DCMT3253MF	KCP10B
5387729	DCMT3253MF	KCP25B
DCMT-MP • Medium Positive		
3744981	DCMT3251MP	KCU10
3639878	DCMT3252MP	KCU10
DCMT-MW • Medium Wiper		
4045267	DCMT3251MW	KCU10
4045270	DCMT3252MW	KCU10
DCMT-UF • Ultra-Fine Finishing		
5537440	DCMT32505UF	KCP10B
5537441	DCMT32505UF	KCP25B
5537444	DCMT3251UF	KCP10B
5538857	DCMT3251UF	KCP25B
DNGG-FS • Finishing Sharp		
5109290	DNGG3305FS	KCU10
5109291	DNGG331FS	KCU10
5109292	DNGG332FS	KCU10
5109294	DNGG4305FS	KCU10
4050472	DNGG4305FS	KCU25
5109293	DNGG430FS	KCU10
5109296	DNGG431FS	KCU10
4050473	DNGG431FS	KCU25
5109298	DNGG432FS	KCU10
4050475	DNGG432FS	KCU25
DNGG-LF • Light Finishing		
4053352	DNGG4305LF	KCU10
4053363	DNGG431LF	KCU10
4053364	DNGG432LF	KCU10
DNGP • Medium Machining		
4053365	DNGP430	KCU10
4053366	DNGP4305	KCU10
4053367	DNGP431	KCU10
4053368	DNGP432	KCU10
DNMG-FF • Fine Finishing		
4171825	DNMG331FF	KCU10
5535026	DNMG332FF	KCP10B
5641096	DNMG431FF	KCM15B
4053377	DNMG431FF	KCU10
4050744	DNMG432FF	KCU10
5535029	DNMG441FF	KCP10B
5535042	DNMG442FF	KCP10B
DNMG-FN • Finishing Negative		
5531896	DNMG331FN	KCP10B
5531897	DNMG332FN	KCP25B
5531898	DNMG431FN	KCK15B
5531899	DNMG431FN	KCP25B
5387752	DNMG432FN	KCK15B
5531900	DNMG432FN	KCP10B
5531902	DNMG441FN	KCK15B
5531901	DNMG441FN	KCP10B
5531903	DNMG441FN	KCP25B
5531907	DNMG442FN	KCK15B
5388116	DNMG442FN	KCP10B
5531906	DNMG442FN	KCP25B
5531908	DNMG443FN	KCP10B

order number	catalog number	grade
DNMG-FP • Finishing Positive		
4171826	DNMG331FP	KCU10
4050743	DNMG332FP	KCU10
4171827	DNMG431FP	KCU10
4171828	DNMG432FP	KCU10
4171829	DNMG433FP	KCU10
5531904	DNMG442FP	KCP10B
5531905	DNMG442FP	KCP25B
DNMG-FW • Finishing Wiper		
4053371	DNMG331FW	KCU10
5641095	DNMG332FW	KCM15B
5641097	DNMG431FW	KCM15B
4053378	DNMG431FW	KCU10
5535028	DNMG432FW	KCP10B
4053383	DNMG432FW	KCU10
5535040	DNMG441FW	KCP10B
5535043	DNMG442FW	KCK15B
5535044	DNMG442FW	KCP10B
DNMG-MN • Medium Negative		
5413192	DNMG333MN	KCP10B
5413193	DNMG333MN	KCP25B
5430969	DNMG431MN	KCP10B
5388111	DNMG432MN	KCP10B
5387732	DNMG432MN	KCP25B
5596459	DNMG432MN	KCP40B
5431070	DNMG433MN	KCP10B
5425548	DNMG433MN	KCP25B
5591721	DNMG433MN	KCP40B
5388117	DNMG442MN	KCP10B
5387737	DNMG442MN	KCP25B
5591722	DNMG442MN	KCP40B
5413200	DNMG443MN	KCP10B
5387541	DNMG443MN	KCP25B
5591727	DNMG443MN	KCP40B
5591770	DNMG444MN	KCP40B
DNMG-MP • Medium Positive		
5591791	DNMG332MP	KCM25B
4053373	DNMG332MP	KCU10
5591930	DNMG333MP	KCM25B
5641098	DNMG431MP	KCM15B
5591902	DNMG431MP	KCM25B
4053379	DNMG431MP	KCU10
5641099	DNMG432MP	KCM15B
5591782	DNMG432MP	KCM25B
4053384	DNMG432MP	KCU10
4053390	DNMG433MP	KCU10
5641101	DNMG441MP	KCM15B
5591788	DNMG441MP	KCM25B
5641102	DNMG442MP	KCM15B
5591900	DNMG442MP	KCM25B
5591795	DNMG443MP	KCM25B
DNMG-MR • Medium Roughing		
5641054	DNMG332MR	KCM15B
5592142	DNMG332MR	KCP10B
5592141	DNMG332MR	KCP25B
5402969	DNMG432MR	KCP10B
5402980	DNMG432MR	KCP25B
5402993	DNMG433MR	KCK15B
5402990	DNMG433MR	KCP10B
5402992	DNMG433MR	KCP25B
5402987	DNMG442MR	KCK15B
5641055	DNMG442MR	KCM15B
5402985	DNMG442MR	KCP10B
5402986	DNMG442MR	KCP25B
5523588	DNMG443MR	KCP10B
5518566	DNMG443MR	KCP25B
5402994	DNMG444MR	KCP10B
5402995	DNMG444MR	KCP25B

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order number	catalog number	grade
DNMG-MS • Medium Sharp		
5090685	DNMG332MS	KCU10
4050477	DNMG332MS	KCU25
5090686	DNMG4305MS	KCU10
4050479	DNMG4305MS	KCU25
5090687	DNMG430MS	KCU10
5090688	DNMG431MS	KCU10
4050480	DNMG431MS	KCU25
5090689	DNMG432MS	KCU10
4050481	DNMG432MS	KCU25
5090740	DNMG433MS	KCU10
DNMG-P • Medium Positive		
4053380	DNMG431P	KCU10
4053386	DNMG432P	KCU10
5641103	DNMG442P	KCM15B
DNMG-RN • Roughing Negative		
5388112	DNMG432RN	KCP10B
5387733	DNMG432RN	KCP25B
5591966	DNMG432RN	KCP40B
5431071	DNMG433RN	KCP10B
5425549	DNMG433RN	KCP25B
5591905	DNMG433RN	KCP40B
5591908	DNMG434RN	KCP40B
5592008	DNMG442RN	KCP40B
5413201	DNMG443RN	KCP10B
5387542	DNMG443RN	KCP25B
5591903	DNMG443RN	KCP40B
5387829	DNMG444RN	KCP10B
5387544	DNMG444RN	KCP25B
5591998	DNMG444RN	KCP40B
DNMG-RP • Roughing Positive		
4053374	DNMG332RP	KCU10
4050478	DNMG332RP	KCU25
5591976	DNMG432RP	KCM25B
4053387	DNMG432RP	KCU10
4050482	DNMG432RP	KCU25
5591978	DNMG433RP	KCM25B
5413195	DNMG433RP	KCP10B
5413196	DNMG433RP	KCP25B
4053391	DNMG433RP	KCU10
4053393	DNMG434RP	KCU10
5591932	DNMG442RP	KCM25B
5413197	DNMG442RP	KCP10B
5413198	DNMG442RP	KCP25B
5591980	DNMG443RP	KCM25B
5413202	DNMG443RP	KCP10B
5387543	DNMG443RP	KCP25B
5387851	DNMG444RP	KCP10B
5387545	DNMG444RP	KCP25B
5596486	DNMM442RP	KCM25B
5596487	DNMM443RP	KCM25B
5413209	DNMM444RP	KCP10B
5413266	DNMM444RP	KCP25B
DNMP-K • Medium Positive		
5535046	DNMP442K	KCP25B
DPGT-HP • Finishing • High Positive		
4045271	DPGT21505HP	KCU10
4050427	DPGT21505HP	KCU25
4045274	DPGT2151HP	KCU10
4050428	DPGT2151HP	KCU25
4050429	DPGT2152HP	KCU25
4045279	DPGT3251HP	KCU10
4050430	DPGT3251HP	KCU25
4045281	DPGT3252HP	KCU10
4050431	DPGT3252HP	KCU25
DPGT-LF • Light Finishing		
4045272	DPGT21505LF	KCU10
4045273	DPGT2150LF	KCU10
4045275	DPGT2151LF	KCU10
4045277	DPGT32505LF	KCU10
4045280	DPGT3251LF	KCU10
4045282	DPGT3252LF	KCU10

order number	catalog number	grade
DPMT-FP • Finishing Positive		
3769364	DPMT21505FP	KCU10
3769365	DPMT2151FP	KCU10
3769435	DPMT2151FP	KCU25
3769366	DPMT2152FP	KCU10
3769436	DPMT2152FP	KCU25
3769367	DPMT32505FP	KCU10
3769368	DPMT3251FP	KCU10
3769369	DPMT3252FP	KCU10
3769439	DPMT3252FP	KCU25
DPMT-FW • Finishing Wiper		
4045283	DPMT2152FW	KCU10
DPMT-LF • Light Finishing		
5591155	DPMT3251LF	KCM25B
5387853	DPMT3252LF	KCP10B
5387547	DPMT3252LF	KCP25B
DPMT-MP • Medium Positive		
3744983	DPMT3252MP	KCU10
GPCD		
4050615	GPCD505	KCU25
4050616	GPCD51	KCU25
RCGH		
5090744	RCGH43	KCU10
RCGH-MP • Medium Positive		
3787512	RCGH43MP	KCS10
RCGK-FS • Finishing Sharp		
4050632	RCGK152FS	KCU10
4050656	RCGK35FS	KCU10
4050658	RCGK46FS	KCU10
RCGK-HP • Finishing • High Positive		
4050653	RCGK152HP	KCU10
4050655	RCGK23HP	KCU10
4050657	RCGK35HP	KCU10
4050659	RCGK46HP	KCU10
4045285	RCGT1204M0HP	KCU10
4050433	RCGT1204M0HP	KCU25
RCGT-MS • Medium Sharp		
4171769	RCGT1204M0MS	KCU10
4160768	RCGT1204M0MS	KCU25
4160769	RCGT1606M0MS	KCU25
RCGV		
4050749	RCGV35	KCU10
RCGV-MP • Medium Positive		
3787485	RCGV35MP	KCS10
3787486	RCGV45MP	KCS10
RCMK		
4050661	RCMK23	KCU10
RCMK-MP • Medium Positive		
3787506	RCMK152MP	KCS10
3787507	RCMK23MP	KCS10
3787508	RCMK35MP	KCS10
RCMT-M		
4045286	RCMT0602M0	KCU10
4045288	RCMT10T3M0	KCU10
4045289	RCMT1204M0	KCU10
4045292	RCMT215	KCU10
4045293	RCMT325	KCU10
RCMT-MP • Medium Positive		
3787492	RCMT0803M0MP	KCS10
3884923	RCMT1204M0MP	KCS10
3787505	RCMT1606M0MP	KCS10
RCMT-RP • Roughing Positive		
5642164	RCMT1204M0RP	KCK20B
5642165	RCMT2006M0RP	KCK20B
RNMG-RN • Roughing Negative		
5425580	RNMG32RN	KCP10B
5425581	RNMG43RN	KCP10B
5425597	RNMG43RN	KCP25B
5591996	RNMG43RN	KCP40B
4053408	RNMG43RN	KCU10
5591994	RNMG54RN	KCP40B
5592006	RNMG64RN	KCP40B
4053409	RNMG64RN	KCU10

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order number	catalog number	grade
RPGT-MP • Medium Positive		
3787488	RPGT23MP	KCS10
RPGV-MP • Medium Positive		
3787462	RPGV35MP	KCS10
3787483	RPGV45MP	KCS10
SCMT-FP • Finishing Positive		
3769370	SCMT3251FP	KCU10
5387551	SCMT3252FP	KCP25B
3769371	SCMT3252FP	KCU10
3769441	SCMT3252FP	KCU25
5387556	SCMT432FP	KCP25B
3769373	SCMT432FP	KCU10
SCMT-LF • Light Finishing		
5641104	SCMT3251LF	KCM15B
5591148	SCMT3251LF	KCM25B
5387856	SCMT3251LF	KCP10B
5387550	SCMT3251LF	KCP25B
5413242	SCMT3252LF	KCP10B
5413269	SCMT3252LF	KCP25B
5591158	SCMT431LF	KCM25B
5591152	SCMT432LF	KCM25B
5387864	SCMT433LF	KCP10B
5387558	SCMT433LF	KCP25B
SCMT-MF • Medium Finishing		
5591175	SCMT3252MF	KCM25B
5387858	SCMT3252MF	KCP10B
5387553	SCMT3252MF	KCP25B
5387860	SCMT3253MF	KCP10B
5387555	SCMT3253MF	KCP25B
5591166	SCMT432MF	KCM25B
5387862	SCMT432MF	KCP10B
5387557	SCMT432MF	KCP25B
5591165	SCMT433MF	KCM25B
5387866	SCMT433MF	KCP10B
5387559	SCMT433MF	KCP25B
SCMT-MP • Medium Positive		
5591776	SCMT3252MP	KCM25B
5387554	SCMT3252MP	KCP25B
3639874	SCMT3252MP	KCU10
5591794	SCMT432MP	KCM25B
3744986	SCMT432MP	KCU10
SNGP • Medium Machining		
5062102	SNGP431	KCU10
SNMA • Roughing		
5639718	SNMA543	KCK20B
5639719	SNMA643	KCK20B
5639760	SNMA644	KCK20B
SNMG		
5062115	SNMG643	KCU10
5062118	SNMG644	KCU10
5062121	SNMG866	KCU10
SNMG-FN • Finishing Negative		
5531909	SNMG322FN	KCK15B
5531910	SNMG431FN	KCP10B
SNMG-FP • Finishing Positive		
4171836	SNMG432FP	KCU10
4050745	SNMG433FP	KCU10
SNMG-MN • Medium Negative		
5425582	SNMG322MN	KCP10B
5425598	SNMG322MN	KCP25B
5591726	SNMG431MN	KCP40B
5591714	SNMG432MN	KCP40B
5425583	SNMG433MN	KCP10B
5425599	SNMG433MN	KCP25B
5425586	SNMG543MN	KCP10B
5425602	SNMG543MN	KCP25B
5591771	SNMG543MN	KCP40B
5591772	SNMG544MN	KCP40B

order number	catalog number	grade
SNMG-MP • Medium Positive		
5535050	SNMG432MP	KCK15B
5641105	SNMG432MP	KCM15B
5591907	SNMG432MP	KCM25B
5062106	SNMG432MP	KCU10
5591933	SNMG433MP	KCM25B
4050517	SNMG433MP	KCU25
5591952	SNMG434MP	KCM25B
5062112	SNMG543MP	KCU10
5591951	SNMG644MP	KCM25B
SNMG-MR • Medium Roughing		
5641043	SNMG432MR	KCM15B
5592124	SNMG432MR	KCP25B
5402922	SNMG433MR	KCK15B
5402879	SNMG433MR	KCP10B
5402920	SNMG433MR	KCP25B
5641044	SNMG543MR	KCM15B
5641045	SNMG544MR	KCM15B
SNMG-MS • Medium Sharp		
5090760	SNMG432MS	KCU10
4121683	SNMG432MS	KCU25
4121685	SNMG433MS	KCU25
4121687	SNMG543MS	KCU25
4121689	SNMG643MS	KCU25
SNMG-P • Medium Positive		
5062107	SNMG432P	KCU10
SNMG-RM • Roughing Medium		
3652863	SNMG644RM	KCU10
5062122	SNMG866RM	KCU10
SNMG-RN • Roughing Negative		
5592000	SNMG432RN	KCP40B
5425584	SNMG433RN	KCP10B
5425600	SNMG433RN	KCP25B
5591988	SNMG433RN	KCP40B
5425585	SNMG434RN	KCP10B
5425601	SNMG434RN	KCP25B
5591990	SNMG434RN	KCP40B
5425587	SNMG543RN	KCP10B
5425603	SNMG543RN	KCP25B
5591968	SNMG543RN	KCP40B
5592001	SNMG544RN	KCP40B
5592004	SNMG643RN	KCP40B
5591977	SNMG644RN	KCP40B
5591911	SNMG866RN	KCP40B
SNMG-RP • Roughing Positive		
5639761	SNMG432RP	KCK20B
5596482	SNMG432RP	KCM25B
5062108	SNMG432RP	KCU10
4121684	SNMG432RP	KCU25
5413203	SNMG433RP	KCK15B
5639762	SNMG433RP	KCK20B
5591982	SNMG433RP	KCM25B
5387874	SNMG433RP	KCP10B
5387563	SNMG433RP	KCP25B
5062111	SNMG433RP	KCU10
5639763	SNMG434RP	KCK20B
5090763	SNMG434RP	KCU10
5641106	SNMG543RP	KCM15B
5591984	SNMG543RP	KCM25B
5387882	SNMG543RP	KCP10B
5387567	SNMG543RP	KCP25B
4050519	SNMG543RP	KCU25
5591953	SNMG544RP	KCM25B
4121688	SNMG544RP	KCU25
5639765	SNMG643RP	KCK20B
5591935	SNMG643RP	KCM25B
5062117	SNMG643RP	KCU10
4050520	SNMG643RP	KCU25
5591936	SNMG644RP	KCM25B
5062120	SNMG644RP	KCU10
4121690	SNMG644RP	KCU25

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order number	catalog number	grade
SNMM-RH • Roughing Heavy		
5591616	SNMM646RH	KCP40B
5413211	SNMM856RH	KCP25B
5591612	SNMM856RH	KCP40B
5413212	SNMM866RH	KCP25B
5591613	SNMM866RH	KCP40B
SNMM-RM • Roughing Medium		
5413276	SNMM644RM	KCP25B
5596463	SNMM644RM	KCP40B
5591617	SNMM646RM	KCP40B
SNMM-RP • Roughing Positive		
5596483	SNMM644RP	KCM25B
5591635	SNMM856RP	KCM25B
5591634	SNMM866RP	KCM25B
SPG		
4050752	SPG322	KCU10
4050764	SPG421	KCU10
4050765	SPG422	KCU10
4050766	SPG423	KCU10
4050767	SPG424	KCU10
4050768	SPG433	KCU10
4050769	SPG633	KCU10
SPMT-LF • Light Finishing		
5639766	SPMT3251LF	KCK20B
5639767	SPMT3252LF	KCK20B
5387884	SPMT3252LF	KCP10B
5387571	SPMT3252LF	KCP25B
SPMT-MF • Medium Finishing		
5639768	SPMT3252MF	KCK20B
5591168	SPMT3252MF	KCM25B
5639780	SPMT432MF	KCK20B
TCGT-HP • Finishing • High Positive		
4044819	TCGT21505HP	KCU10
4050434	TCGT21505HP	KCU25
4044821	TCGT2151HP	KCU10
4050435	TCGT2151HP	KCU25
4045313	TCGT2152HP	KCU10
4045316	TCGT3251HP	KCU10
4050438	TCGT3251HP	KCU25
TCGT-LF • Light Finishing		
4044820	TCGT2150LF	KCU10
4044822	TCGT2151LF	KCU10
4045315	TCGT32505LF	KCU10
4045317	TCGT3251LF	KCU10
4045319	TCGT3252LF	KCU10
TCMT-FP • Finishing Positive		
5538891	TCMT18151FP	KCP25B
3769377	TCMT18151FP	KCU10
3769446	TCMT18151FP	KCU25
3769378	TCMT18152FP	KCU10
3769448	TCMT21505FP	KCU25
5639781	TCMT2151FP	KCK20B
3769380	TCMT2151FP	KCU10
3769449	TCMT2151FP	KCU25
5639783	TCMT2152FP	KCK20B
3769381	TCMT2152FP	KCU10
5538894	TCMT221FP	KCP10B
5538895	TCMT221FP	KCP25B
3769382	TCMT221FP	KCU10
3769451	TCMT221FP	KCU25
3769386	TCMT3251FP	KCU10
3769454	TCMT3251FP	KCU25
5639789	TCMT3252FP	KCK20B
3769455	TCMT3252FP	KCU25
5538897	TCMT3253FP	KCP10B
5591125	TCMT432FP	KCM25B

order number	catalog number	grade
TCMT-LF • Light Finishing		
5639782	TCMT2151LF	KCK20B
5591149	TCMT2151LF	KCM25B
5639784	TCMT2152LF	KCK20B
5591160	TCMT2152LF	KCM25B
5639787	TCMT3251LF	KCK20B
5591156	TCMT3251LF	KCM25B
5639790	TCMT3252LF	KCK20B
5591159	TCMT3252LF	KCM25B
5639793	TCMT3253LF	KCK20B
TCMT-MF • Medium Finishing		
5639785	TCMT2152MF	KCK20B
5591713	TCMT2152MF	KCM25B
5639791	TCMT3252MF	KCK20B
5591167	TCMT3252MF	KCM25B
5591170	TCMT3253MF	KCM25B
TCMT-MP • Medium Positive		
5639786	TCMT2152MP	KCK20B
5639788	TCMT3251MP	KCK20B
5591904	TCMT3251MP	KCM25B
5639792	TCMT3252MP	KCK20B
5591906	TCMT3252MP	KCM25B
TCMW		
5639796	TCMW3251	KCK20B
5639797	TCMW3252	KCK20B
TDHB		
4053335	TDHB12807501	KCU10
4050619	TDHB12807501	KCU25
4053336	TDHB12807505	KCU10
4050620	TDHB12807505	KCU25
4053337	TDHB1280751	KCU10
4053338	TDHB1280752	KCU10
TDHH		
4053339	TDHH12807505L	KCU10
4050623	TDHH12807505L	KCU25
4053340	TDHH12807505R	KCU10
4053341	TDHH1280751L	KCU10
4050624	TDHH1280751L	KCU25
4053342	TDHH1280751R	KCU10
TNGP • Medium Machining		
5062127	TNGP331	KCU10
5062128	TNGP332	KCU10
TNMA • Roughing		
5639799	TNMA332	KCK20B
5639820	TNMA333	KCK20B
5639821	TNMA334	KCK20B
5639822	TNMA432	KCK20B
5639823	TNMA433	KCK20B
5639824	TNMA434	KCK20B
TNMG-FN • Finishing Negative		
5413249	TNMG332FN	KCP10B
5413251	TNMG333FN	KCP10B
5507610	TNMG432FN	KCP10B
4171838	TNMG331FP	KCU10
4171839	TNMG332FP	KCU10
4171841	TNMG431FP	KCU10
4171842	TNMG432FP	KCU10
TNMG-MN • Medium Negative		
5591728	TNMG331MN	KCP40B
5413250	TNMG332MN	KCP10B
5413277	TNMG332MN	KCP25B
5591717	TNMG332MN	KCP40B
5425588	TNMG333MN	KCP10B
5591723	TNMG432MN	KCP40B
5591720	TNMG433MN	KCP40B

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(Beyond™ Drive™ • Beyond PVD Grades — continued)

order number	catalog number	grade
TNMG-MP • Medium Positive		
5641110	TNMG331MP	KCM15B
5591785	TNMG331MP	KCM25B
5062131	TNMG331MP	KCU10
5596461	TNMG332MP	KCM25B
5062135	TNMG332MP	KCU10
5641111	TNMG333MP	KCM15B
5591956	TNMG333MP	KCM25B
5641113	TNMG432MP	KCM15B
5591910	TNMG432MP	KCM25B
5507556	TNMG432MP	KCP10B
5062140	TNMG432MP	KCU10
5591796	TNMG433MP	KCM25B
TNMG-MR • Medium Roughing		
5402928	TNMG332MR	KCK15B
5641057	TNMG332MR	KCM15B
5402926	TNMG332MR	KCP10B
5402927	TNMG332MR	KCP25B
5402932	TNMG333MR	KCK15B
5402930	TNMG333MR	KCP10B
5402931	TNMG333MR	KCP25B
5592122	TNMG432MR	KCP10B
5592121	TNMG432MR	KCP25B
5592126	TNMG433MR	KCP10B
5592146	TNMG543MR	KCP25B
TNMG-MS • Medium Sharp		
5090767	TNMG3305MS	KCU10
4121695	TNMG3305MS	KCU25
5090768	TNMG331MS	KCU10
4121696	TNMG331MS	KCU25
5090769	TNMG332MS	KCU10
4121697	TNMG332MS	KCU25
5090810	TNMG431MS	KCU10
4121700	TNMG431MS	KCU25
5090811	TNMG432MS	KCU10
4121701	TNMG432MS	KCU25
5090812	TNMG433MS	KCU10
4121703	TNMG433MS	KCU25
4121706	TNMG542MS	KCU25
TNMG-P • Medium Positive		
5062136	TNMG332P	KCU10
5062141	TNMG432P	KCU10
5062144	TNMG433P	KCU10
TNMG-RN • Roughing Negative		
5425589	TNMG333RN	KCP10B
5425605	TNMG333RN	KCP25B
5591986	TNMG432RN	KCP40B
5592010	TNMG433RN	KCP40B
5425590	TNMG434RN	KCP10B
5425606	TNMG434RN	KCP25B
5591965	TNMG543RN	KCP40B
5591992	TNMG544RN	KCP40B
5591970	TNMG666RN	KCP40B

order number	catalog number	grade
TNMG-RP • Roughing Positive		
5413204	TNMG332RP	KCK15B
5596484	TNMG332RP	KCM25B
5062137	TNMG332RP	KCU10
4121698	TNMG332RP	KCU25
5387896	TNMG333RP	KCP10B
5387575	TNMG333RP	KCP25B
5639826	TNMG432RP	KCK20B
5591962	TNMG432RP	KCM25B
5062142	TNMG432RP	KCU10
4121702	TNMG432RP	KCU25
5639827	TNMG433RP	KCK20B
5591964	TNMG433RP	KCM25B
5062145	TNMG433RP	KCU10
4121704	TNMG433RP	KCU25
5387899	TNMG434RP	KCP10B
5387577	TNMG434RP	KCP25B
5090813	TNMG434RP	KCU10
4121705	TNMG434RP	KCU25
5639828	TNMG438RP	KCK20B
5591985	TNMG438RP	KCM25B
5387901	TNMG438RP	KCP10B
5090814	TNMG438RP	KCU10
5591967	TNMG543RP	KCM25B
5062147	TNMG543RP	KCU10
4121707	TNMG543RP	KCU25
5591974	TNMG666RP	KCP40B
5062148	TNMG666RP	KCU10
TPCH		
4050627	TPCH2205	KCU25
TPG		
4050771	TPG221	KCU10
4050772	TPG222	KCU10
4050773	TPG3205	KCU10
4050774	TPG321	KCU10
4050775	TPG322	KCU10
4050776	TPG323	KCU10
4050777	TPG324	KCU10
4050778	TPG431	KCU10
4050779	TPG432	KCU10
4050780	TPG433	KCU10
TPGF		
4050782	TPGF221	KCU10
4050783	TPGF222	KCU10
4050784	TPGF321	KCU10
4050785	TPGF322	KCU10
4050786	TPGF431	KCU10
4050787	TPGF432	KCU10
TPGH		
4053344	TPGH321	KCU10
4050628	TPGH321	KCU25
4053345	TPGH322	KCU10
4050629	TPGH322	KCU25

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(Beyond™ Drive™ • Beyond PVD Grades — continued)

Turning

order number	catalog number	grade
TPGM		
4045320	TPGM3251	KCU10
TPGT-HP • Finishing • High Positive		
4045323	TPGT21505HP	KCU10
4050440	TPGT21505HP	KCU25
4045326	TPGT2151HP	KCU10
4050441	TPGT2151HP	KCU25
4045328	TPGT2152HP	KCU10
4050442	TPGT2152HP	KCU25
4045330	TPGT32505HP	KCU10
4050444	TPGT3251HP	KCU25
4045333	TPGT3252HP	KCU10
4050445	TPGT3252HP	KCU25
TPGT-LF • Light Finishing		
4045321	TPGT181505LF	KCU10
4045322	TPGT18151LF	KCU10
4045324	TPGT21505LF	KCU10
4045325	TPGT2150LF	KCU10
4045327	TPGT2151LF	KCU10
4045329	TPGT2152LF	KCU10
4045334	TPGT3252LF	KCU10
TPHB		
4053343	TPHB21505	KCU10
4053334	TPHB321	KCU10
TPMT-FP • Finishing Positive		
5538899	TPMT18151FP	KCP10B
5538898	TPMT18151FP	KCP25B
3769390	TPMT18151FP	KCU10
5387902	TPMT18152FP	KCP10B
3769391	TPMT18152FP	KCU10
3769392	TPMT21505FP	KCU10
3769393	TPMT2151FP	KCU10
3769460	TPMT2151FP	KCU25
3769394	TPMT2152FP	KCU10
5538900	TPMT221FP	KCP10B
5538901	TPMT221FP	KCP25B
3769397	TPMT3251FP	KCU10
3769462	TPMT3251FP	KCU25
3769463	TPMT3252FP	KCU25
3769400	TPMT432FP	KCU10
TPMT-LF • Light Finishing		
5639830	TPMT2151LF	KCK20B
5591162	TPMT2151LF	KCM25B
5639831	TPMT2152LF	KCK20B
5591163	TPMT2152LF	KCM25B
5387903	TPMT2152LF	KCP10B
5387579	TPMT2152LF	KCP25B
5639833	TPMT3251LF	KCK20B
5591161	TPMT3251LF	KCM25B
5387905	TPMT3252LF	KCP10B
5387581	TPMT3252LF	KCP25B
5639839	TPMT432LF	KCK20B
TPMT-MF • Medium Finishing		
5639832	TPMT2152MF	KCK20B
5591171	TPMT2152MF	KCM25B
5387580	TPMT2152MF	KCP25B
5591164	TPMT3252MF	KCM25B
TPMT-MP • Medium Positive		
3744991	TPMT2152MP	KCU10
TPMT-MP • Medium Positive		
4045335	VBGT2205HP	KCU10
4045338	VBGT221HP	KCU10
4050447	VBGT221HP	KCU25
4045342	VBGT331HP	KCU10
4050448	VBGT331HP	KCU25
4045344	VBGT332HP	KCU10
4050449	VBGT332HP	KCU25

order number	catalog number	grade
VBGT-LF • Light Finishing		
4045336	VBGT2205LF	KCU10
4045337	VBGT220LF	KCU10
4045339	VBGT221LF	KCU10
4045340	VBGT3305LF	KCU10
4045341	VBGT330LF	KCU10
4045343	VBGT331LF	KCU10
VBMT-FP • Finishing Positive		
3769401	VBMT2205FP	KCU10
3769402	VBMT221FP	KCU10
3769464	VBMT221FP	KCU25
3769403	VBMT222FP	KCU10
3769465	VBMT222FP	KCU25
3769404	VBMT3305FP	KCU10
3769466	VBMT3305FP	KCU25
5640425	VBMT331FP	KCK20B
5387907	VBMT331FP	KCP10B
5387584	VBMT331FP	KCP25B
3769405	VBMT331FP	KCU10
3769467	VBMT331FP	KCU25
5640427	VBMT332FP	KCK20B
5538903	VBMT332FP	KCP10B
5538904	VBMT332FP	KCP25B
3769406	VBMT332FP	KCU10
3769468	VBMT332FP	KCU25
5387910	VBMT333FP	KCP10B
5387588	VBMT333FP	KCP25B
VBMT-LF • Light Finishing		
5591154	VBMT221LF	KCM25B
5413255	VBMT221LF	KCP10B
5413291	VBMT221LF	KCP25B
5596418	VBMT331LF	KCM25B
5413256	VBMT331LF	KCP10B
5413292	VBMT331LF	KCP25B
5596416	VBMT332LF	KCM25B
5413257	VBMT332LF	KCP10B
5413293	VBMT332LF	KCP25B
5640429	VBMT333LF	KCK20B
VBMT-MP • Medium Positive		
5640426	VBMT331MP	KCK20B
5591786	VBMT331MP	KCM25B
5640428	VBMT332MP	KCK20B
5591778	VBMT332MP	KCM25B
5387587	VBMT332MP	KCP25B
VNGG-FS • Finishing Sharp		
5090815	VNGG3305FS	KCU10
4121708	VNGG3305FS	KCU25
5090816	VNGG330FS	KCU10
4121709	VNGG330FS	KCU25
5090817	VNGG331FS	KCU10
4121710	VNGG331FS	KCU25
5090819	VNGG332FS	KCU10
4121711	VNGG332FS	KCU25
VNGG-LF • Light Finishing		
4045101	VNGG3305LF	KCU10
4045102	VNGG331LF	KCU10
4045143	VNGG332LF	KCU10
4045144	VNGG432LF	KCU10
VNGP • Medium Machining		
4045145	VNGP330	KCU10
4045146	VNGP3305	KCU10
4045147	VNGP431	KCU10
4045148	VNGP432	KCU10
VNMG-FF • Fine Finishing		
4045149	VNMG331FF	KCU10
4045163	VNMG332FF	KCU10
VNMG-FP • Finishing Positive		
4171843	VNMG331FP	KCU10
4171844	VNMG332FP	KCU10

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(Beyond™ Drive™ • Beyond PVD Grades — continued)

order number	catalog number	grade
VNMG-MN • Medium Negative		
5425591	VNMG332MN	KCP10B
5425607	VNMG332MN	KCP25B
VNMG-MP • Medium Positive		
5641115	VNMG331MP	KCM15B
5591789	VNMG331MP	KCM25B
4045150	VNMG331MP	KCU10
5641116	VNMG332MP	KCM15B
5591781	VNMG332MP	KCM25B
4045164	VNMG332MP	KCU10
5641117	VNMG333MP	KCM15B
VNMG-MR • Medium Roughing		
5592100	VNMG332MR	KCP10B
5592059	VNMG332MR	KCP25B
5641063	VNMG333MR	KCM15B
VNMG-MS • Medium Sharp		
5090851	VNMG3305MS	KCU10
4121712	VNMG3305MS	KCU25
5090852	VNMG330MS	KCU10
4121713	VNMG330MS	KCU25
5090853	VNMG331MS	KCU10
4121714	VNMG331MS	KCU25
5090854	VNMG332MS	KCU10
4121715	VNMG332MS	KCU25
5090855	VNMG431MS	KCU10
4121718	VNMG431MS	KCU25
5090856	VNMG432MS	KCU10
4121719	VNMG432MS	KCU25
VNMG-P • Medium Positive		
4045151	VNMG331P	KCU10
4045166	VNMG332P	KCU10
VNMG-RP • Roughing Positive		
5640431	VNMG332RP	KCK20B
4045167	VNMG332RP	KCU10
4121716	VNMG332RP	KCU25
5413205	VNMG333RP	KCK15B
5430965	VNMG433RP	KCK15B
WCMT-FP • Finishing Positive		
3769407	WCMT2151FP	KCU10
3769469	WCMT2151FP	KCU25
3769408	WCMT3252FP	KCU10
WNGG-FS • Finishing Sharp		
5090858	WNGG431FS	KCU10
5090859	WNGG432FS	KCU10
4045170	WNGG4305LF	KCU10
4045171	WNGG430LF	KCU10
4045172	WNGG431LF	KCU10
4045173	WNGG432LF	KCU10
WNMG-FF • Fine Finishing		
4171845	WNMG331FF	KCU10
4171846	WNMG332FF	KCU10
4171848	WNMG431FF	KCU10
4171850	WNMG432FF	KCU10
4050746	WNMG331FP	KCU10
4171847	WNMG332FP	KCU10
4171849	WNMG431FP	KCU10
4171851	WNMG432FP	KCU10
WNMG-FW • Finishing Wiper		
4045174	WNMG331FW	KCU10
5641118	WNMG431FW	KCM15B
4045179	WNMG431FW	KCU10
5507611	WNMG432FW	KCP10B
4045181	WNMG432FW	KCU10
WNMG-MN • Medium Negative		
5591719	WNMG333MN	KCP40B
5413260	WNMG432MN	KCP10B
5387611	WNMG432MN	KCP25B
5596458	WNMG432MN	KCP40B
5425593	WNMG433MN	KCP10B
5387614	WNMG433MN	KCP25B
5591718	WNMG433MN	KCP40B
5489410	WNMG434MN	KCP25B

order number	catalog number	grade
WNMG-MP • Medium Positive		
5591937	WNMG331MP	KCM25B
4045175	WNMG331MP	KCU10
5591912	WNMG332MP	KCM25B
4045177	WNMG332MP	KCU10
5641120	WNMG432MP	KCM15B
5591774	WNMG432MP	KCM25B
4045182	WNMG432MP	KCU10
5591790	WNMG433MP	KCM25B
WNMG-MR • Medium Roughing		
5641064	WNMG332MR	KCM15B
5592109	WNMG332MR	KCP10B
5592107	WNMG332MR	KCP25B
5402960	WNMG432MR	KCK15B
5641046	WNMG432MR	KCM15B
5402937	WNMG432MR	KCP10B
5402938	WNMG432MR	KCP25B
5641047	WNMG433MR	KCM15B
5402964	WNMG433MR	KCP10B
5402965	WNMG433MR	KCP25B
5592162	WNMG434MR	KCP10B
5592163	WNMG434MR	KCP25B
WNMG-MS • Medium Sharp		
5090890	WNMG332MS	KCU10
5090891	WNMG4305MS	KCU10
4121722	WNMG4305MS	KCU25
5090892	WNMG430MS	KCU10
5090893	WNMG431MS	KCU10
4121723	WNMG431MS	KCU25
5090894	WNMG432MS	KCU10
4121724	WNMG432MS	KCU25
WNMG-MW • Medium Wiper		
5413261	WNMG432MW	KCP10B
5387612	WNMG432MW	KCP25B
5413263	WNMG433MW	KCP10B
5387615	WNMG433MW	KCP25B
WNMG-RN • Roughing Negative		
5425592	WNMG332RN	KCP10B
5387610	WNMG332RN	KCP25B
5507612	WNMG432RN	KCP10B
5424912	WNMG432RN	KCP25B
5591981	WNMG432RN	KCP40B
5425594	WNMG433RN	KCP10B
5387616	WNMG433RN	KCP25B
5591979	WNMG433RN	KCP40B
5425595	WNMG434RN	KCP10B
5387618	WNMG434RN	KCP25B
WNMG-RP • Roughing Positive		
5640436	WNMG432RP	KCK20B
5641122	WNMG432RP	KCM15B
5591959	WNMG432RP	KCM25B
5387915	WNMG432RP	KCP10B
5413206	WNMG432RP	KCP25B
5591972	WNMG432RP	KCP40B
4045185	WNMG432RP	KCU10
4121725	WNMG432RP	KCU25
5640437	WNMG433RP	KCK20B
5591938	WNMG433RP	KCM25B
5387919	WNMG433RP	KCP10B
5413207	WNMG433RP	KCP25B
4045188	WNMG433RP	KCU10
5640438	WNMG434RP	KCK20B
5413208	WNMG434RP	KCP25B
4121727	WNMG434RP	KCU25
WPGT-UF • Ultra-Fine Finishing		
4045345	WPGT15105UF	KCU10
4045346	WPGT1510UF	KCU10
4045347	WPGT21505UF	KCU10
WPMT-FP • Finishing Positive		
3769412	WPMT15121FP	KCU10
3769409	WPMT2151FP	KCU10
3769410	WPMT3251FP	KCU10
3769411	WPMT3252FP	KCU10

GOturn™

The Inserts You Want at a Price You'll Love

GOturn inserts — the cost-effective line from the brand you already know and trust for quality. Each insert is engineered and manufactured by Kennametal to outperform competitive inserts when cutting steel, stainless steel, cast iron, and high-temperature alloys. These inserts can be used in an incredible 80% of all applications. This versatility, along with the simple grade selection method and great price, make GOturn inserts perfect for small and midsize turning operations.



Features and Benefits

Getting the Most From Every Insert

GOturn products make it simple to get the most out of your inserts, and your money. Every insert is gold, which exposes wear as the tool continues to be used. This makes it easy to detect when an insert is ready to be changed — maximizing the product's value and protecting the workpiece. Also, because GOturn inserts can be used in most applications, a single insert can take on any number of tasks, thus reducing your inventory. GOturn products are also reliable enough to cut steel, stainless steel, cast iron, and high-temperature alloys, enabling quick changes in workpiece materials without the need to swap inserts, saving time and money.

Best Way to Save

GOturn inserts were developed to make it easy for small and midsize turning operations to utilize an affordable quality product. With greater durability than competitively listed products, GOturn inserts ensure an overall reduction of tooling costs.

	P	M	K	N	S	H
K10P	●		○			
K25P	●		○			
K35P	●	○				
K10M	○	●				
K25M	○	●				
K20K	○		●			
K10U	○	●	○	○	●	○
K15U	○	●	○	○	●	

- First Choice
- Alternate Choice

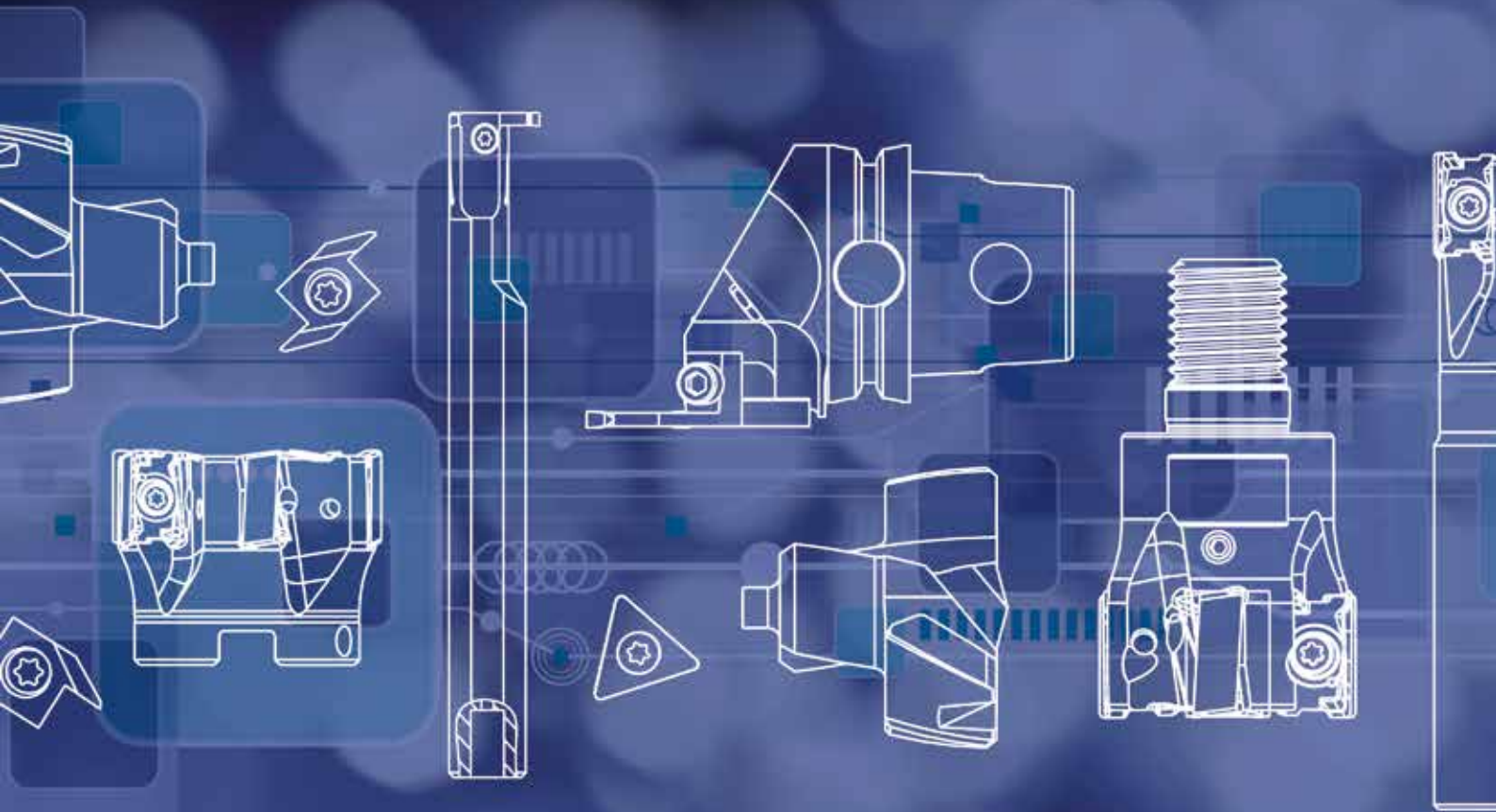
order number	catalog number	grade
CCGT-F Finishing		
4165248	CCGT21505F	K10U
4165317	CCGT3251F	K10U
4165319	CCGT3252F	K10U
CCMT-F Finishing		
4165439	CCMT2151F	K10U
4165438	CCMT2151F	K25M
4165435	CCMT2151F	K25P
4165441	CCMT2152F	K10P
4165449	CCMT3251F	K10P
4165454	CCMT3251F	K10U
4165455	CCMT3251F	K15U
4165453	CCMT3251F	K25M
4165450	CCMT3251F	K25P
4165459	CCMT3252F	K10M
4165461	CCMT3252F	K10U
4165462	CCMT3252F	K15U
4165460	CCMT3252F	K25M
4165457	CCMT3252F	K25P
4165532	CCMT432F	K25P
CNGP Medium Machining		
4165345	CNGP430	K10U
4165344	CNGP4305	K10U
4165346	CNGP431	K10U
4165348	CNGP432	K10U
4165349	CNGP432	K15U
CNMA Roughing		
4165305	CNMA431	K20K
4165306	CNMA432	K20K
CNMG-F Finishing		
4166023	CNMG431F	K10M
4166025	CNMG431F	K10U
4165961	CNMG431F	K25P
4166032	CNMG432F	K10U
4166033	CNMG432F	K15U
CNMG-H Heavy Roughing		
4166109	CNMG432H	K10P
4166112	CNMG432H	K20K
4166110	CNMG432H	K25P
4166111	CNMG432H	K35P
4166174	CNMG433H	K25P
4166175	CNMG433H	K35P
4166181	CNMG543H	K25P
4166190	CNMG643H	K25P
4166191	CNMG643H	K35P
4166197	CNMG866H	K35P
CNMG-M Medium Roughing		
4165368	CNMG431M	K10M
4165369	CNMG431M	K25M
4165370	CNMG432M	K10M
4165371	CNMG432M	K25M
4165393	CNMG433M	K25M
4165395	CNMG543M	K25M
4165397	CNMG643M	K25M
CNMG-R Roughing		
4165646	CNMG431R	K25P
4165652	CNMG432R	K10M
4165649	CNMG432R	K10P
4165653	CNMG432R	K25M
4165650	CNMG432R	K25P
4165651	CNMG432R	K35P
4165659	CNMG543R	K25P
4165663	CNMG643R	K25P
4165664	CNMG643R	K35P

order number	catalog number	grade
DCGT-F Finishing		
4165323	DCGT3250F	K10U
4165324	DCGT3250F	K15U
4165697	DCMT21505F	K10U
4165701	DCMT2151F	K20K
4165713	DCMT3251F	K10U
4165709	DCMT3251F	K25P
4165715	DCMT3252F	K10P
4165717	DCMT3252F	K20K
4165716	DCMT3252F	K25P
DNMG-F Finishing		
4166039	DNMG431F	K10P
4166044	DNMG431F	K10U
4166045	DNMG431F	K15U
4166046	DNMG432F	K10P
4166066	DNMG432F	K10U
4166048	DNMG432F	K25P
DNMG-H Heavy Roughing		
4166201	DNMG432H	K25P
4166202	DNMG432H	K35P
4167040	DNMG433H	K35P
4167049	DNMG543H	K25P
DNMG-M Medium Machining		
4165400	DNMG432M	K10M
4165401	DNMG432M	K25M
DNMG-R Roughing		
4165667	DNMG332R	K10P
4165669	DNMG332R	K25M
4165671	DNMG431R	K25P
4165674	DNMG432R	K10P
4165675	DNMG432R	K25P
4165676	DNMG432R	K35P
4165680	DNMG433R	K25P
4165766	DNMG543R	K35P
SCMT-F Finishing		
4165799	SCMT3252F	K20K
4165798	SCMT3252F	K25P
4165810	TCMT21505F	K10P
4165813	TCMT2151F	K10P
4165817	TCMT2151F	K25M
4165819	TCMT2152F	K10P
4165825	TCMT3251F	K25P
4165262	TCMT3252F	K25M
4165259	TCMT3252F	K25P
4165264	TCMT3253F	K10U
4165266	TCMT432F	K25P
TNMG-H Heavy Roughing		
4166080	TNMG432H	K10P
4166083	TNMG432H	K20K
4166081	TNMG432H	K25P
4166084	TNMG433H	K25P
4166085	TNMG433H	K35P
4166093	TNMG666H	K35P
TNMG-R Roughing		
4165924	TNMG431R	K25P
4165927	TNMG432R	K10P
4165931	TNMG432R	K25M
4165928	TNMG432R	K25P
4165929	TNMG432R	K35P
VBGT-F Finishing		
4165334	VBGT2205F	K10U
4165338	VBGT2221F	K10U
4165341	VBGT330F	K10U
VBMT-F Finishing		
4165279	VBMT221F	K15U
4165291	VBMT331F	K25P
4165301	VBMT332F	K25M
4165298	VBMT332F	K25P

(continued)

(GoTurn™ — continued)

order number	catalog number	grade
VNGP Medium Machining		
4165385	VNGP330	K10U
4165386	VNGP330	K15U
4165384	VNGP3305	K10U
4165387	VNGP431	K10U
4165389	VNGP432	K10U
VNMG-F Finishing		
4166206	VNMG331F	K10P
4166212	VNMG331F	K15U
4166207	VNMG331F	K25P
VNMG-M Medium Machining		
4165422	VNMG331M	K10M
4165423	VNMG331M	K25M
4165424	VNMG332M	K10M
4165425	VNMG332M	K25M
VNMG-R Roughing		
4165932	VNMG332R	K10P
4165935	VNMG332R	K25M
4165933	VNMG332R	K25P
WNMG-M Medium Machining		
4165426	WNMG431M	K10M
4165427	WNMG431M	K25M
WNMG-R Roughing		
4165940	WNMG432R	K10P
4165954	WNMG432R	K25M
4165941	WNMG432R	K25P



NOVO KNOWS ART TO PART TO PROFIT

Being as productive and profitable as possible is your fundamental goal. With the addition of NOVO™ to your team, your goal can be achieved. NOVO possesses powerful digital tools that link together process planning, inventory availability and purchase, cost-per-part management, and productivity improvements.

NOVO can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. kennametal.com/novo

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THE DIGITAL SOURCE FOR DELIVERING SMART MACHINING SOLUTIONS

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NOVO™

order number	catalog number	gage insert	shank height and width (inch)
DCLN-KC -5°			
right hand			
1875137	DCLNR124BKC3	CN..432	0.750
1875134	DCLNR164CKC3	CN..432	1.000
1874862	DCLNR164DKC3	CN..432	1.000
1875141	DCLNR204DKC3	CN..432	1.250
1875150	DCLNR205DKC4	CN..543	1.250
2273010	DCLNR206DKC4	CN..643	1.250
left hand			
1875142	DCLNL124BKC3	CN..432	0.750
1875135	DCLNL164CKC3	CN..432	1.000
1875133	DCLNL164DKC3	CN..432	1.000
1875147	DCLNL165DKC4	CN..543	1.000
1875146	DCLNL204DKC3	CN..432	1.250
1875153	DCLNL205DKC4	CN..543	1.250
DCLN-KC 95°			
right hand			
1875193	DCLNR2525M12KC04	CN..120408	0.984
left hand			
1875196	DCLNL2525M12KC04	CN..120408	0.984
DDJN-KC -3°			
right hand			
2273014	DDJNR123BKC3	DN..332	0.750
1875140	DDJNR164CKC3	DN..432	1.000
1875136	DDJNR164DKC3	DN..432	1.000
1875148	DDJNR204DKC3	DN..432	1.250
left hand			
1875139	DDJNL164DKC3	DN..432	1.000
1875151	DDJNL204DKC3	DN..432	1.250
DDJN-KC 93°			
right hand			
1875191	DDJNR2525M15KC06	DN..150608	0.984
left hand			
1875192	DDJNL2525M15KC06	DN..150608	0.984
DVJN-KC -3°			
right hand			
2503996	DVJNR123CKC3	VN..332	0.750
2503998	DVJNR163DKC3	VN..332	1.000
left hand			
2503997	DVJNL123CKC3	VN..332	0.750
2503999	DVJNL163DKC3	VN..332	1.000
DWLN-KC -5°			
right hand			
1875144	DWLN164CKC3	WN..432	1.000
1875138	DWLN164DKC3	WN..432	1.000
left hand			
1875143	DWLN164DKC3	WN..432	1.000
SCAC 0°			
right hand			
1094437	SCACR083D	CC..3252	0.500
left hand			
1094438	SCACL083D	CC..3252	0.500
SCLC -5°			
right hand			
1094477	SCLCR062	CC..2151	0.375
1094479	SCLCR082	CC..2151	0.500
1094483	SCLCR103	CC..3252	0.625
1094485	SCLCR123	CC..3252	0.750
left hand			
1094478	SCLCL062	CC..2151	0.375
1094480	SCLCL082	CC..2151	0.500
SCLP -5°			
right hand			
1095592	SCLPR123B	CP..3252	0.750
1094576	SCLCR163	CC..3252	1.000

(continued)

(Toolholders — continued)

order number	catalog number	gage insert	shank height and width (inch)
SCLC-F -5°			
right hand			
1094491	SCLCRF062D	CC..2151	0.375
1094493	SCLCRF082D	CC..2151	0.500
1094495	SCLCRF083D	CC..3252	0.500
1094593	SCLCRF103B	CC..3252	0.625
SCLP -5°			
right hand			
1095594	SCLPR062	CP..2151	0.375
1095595	SCLPR083V	CP..3252	0.500
SDJC -3°			
right hand			
1094525	SDJCR083	DC..3252	0.500
1094529	SDJCR123	DC..3252	0.750
1094531	SDJCR163	DC..3252	1.000
SDJC-F -3°			
right hand			
1094603	SDJCRF082D	DC..2151	0.500
1232019	SDJCRF083D	DC..3252	0.500
1094605	SDJCRF103B	DC..3252	0.625
SRDC			
neutral			
1097903	SRDCN2525M08	RC..0803M0	0.984
1097895	SRDCN2525M12	RC..1204M0	0.984
SVAB 0°			
right hand			
1094609	SVABR082D	VB..221	0.500
1094611	SVABR103B	VB..332	0.625
SVHB 107,5°			
right hand			
1097807	SVHBR2525M16	VB..160408	0.984
SVJB -3°			
right hand			
1094535	SVJBR082	VB..221	0.500
1094539	SVJBR123	VB..332	0.750
1094541	SVJBR163	VB..332	1.000
left hand			
1094542	SVJBL163	VB..332	1.000
SVJB 93°			
right hand			
1097802	SVJBR2020K16	VB..160408	0.787
1097803	SVJBR2525M16	VB..160408	0.984
SVJB-F -3°			
right hand			
1094617	SVJBRF082D	VB..221	0.500
1094613	SVJBRF103B	VB..332	0.625
left hand			
1094614	SVJBLF103B	VB..332	0.625

(continued)

■ Boring Bars

order number	catalog number	gage insert	(D) diameter (inch)	(D min) minimum bore diameter (inch)
A-CTLP -5°				
left hand				
3994022	A10SCTLPL2	TP.221	0.625	0.770
A-DCLN-KC -5°				
right hand				
2408518	A16TDCLNR4KC3	CN..432	1.000	1.200
2408519	A20UDCLNR4KC3	CN..432	1.250	1.470
2408520	A24UDCLNR4KC3	CN..432	1.500	1.760
left hand				
2408507	A16TDCLNL4KC3	CN..432	1.000	1.200
A-MCLN -5°				
right hand				
1016456	A16TMCLNR4	CN..432	1.000	1.200
1096418	A20UMCLNR4	CN..432	1.250	1.470
1096419	A24UMCLNR4	CN..432	1.500	1.760
1096420	A28UMCLNR4	CN..432	1.750	2.010
1096421	A32VMCLNR4	CN..432	2.000	2.400
left hand				
1096430	A16TMCLNL4	CN..432	1.000	1.200
1096431	A20UMCLNL4	CN..432	1.250	1.470
1096432	A24UMCLNL4	CN..432	1.500	1.760
1096434	A32VMCLNL4	CN..432	2.000	2.400
A-MCLN-D -5°				
right hand				
1096370	A20MCLNR4D	CN..432	1.250	1.875
1096371	A24MCLNR4D	CN..432	1.500	2.125
A-MDUN -3°				
right hand				
1096444	A16MDUNR3	DN..332	1.000	1.300
1096447	A20UMDUNR4	DN..432	1.250	1.705
1096448	A24UMDUNR4	DN..432	1.500	2.000
1096450	A32VMDUNR4	DN..432	2.000	2.500
A-MTFN 0°				
right hand				
1096385	A16MTFNR3	TN..332	1.000	1.220
left hand				
1096394	A16MTFNL3	TN..332	1.000	1.220
A-MVUN -3°				
right hand				
1096466	A20UMVUNR3	VN..332	1.250	1.705
1096467	A24UMVUNR3	VN..332	1.500	2.000
1095795	A16TMWLN4	WN..432	1.000	1.220
1095797	A20UMWLN4	WN..432	1.250	1.470
1095796	A24UMWLN4	WN..432	1.500	1.760
left hand				
1095798	A16TMWLN4	WN..432	1.000	1.220
A-SCFP 0°				
right hand				
1094725	A06MSCFPR2	CPMT2151	0.375	0.480
1094727	A08RSCFPR2	CPMT2151	0.500	0.600
1094731	A12SSCFPR3	CPMT3252	0.750	0.930
A-SCLC -5°				
right hand				
1328582	A06MSCLCR2	CC..2151	0.375	0.480
1328584	A08RSCLCR2	CC..2151	0.500	0.600
1328586	A10SSCLCR2	CC..2151	0.625	0.770
1328588	A10SSCLCR3	CC..3252	0.625	0.770
1328590	A12SSCLCR3	CC..3252	0.750	0.930
1328592	A16TSCLCR3	CC..3252	1.000	1.200
left hand				
1328585	A08RSCLCL2	CC..2151	0.500	0.600
1328591	A12SSCLCL3	CC..3252	0.750	0.930

(continued)

(Boring Bars — continued)

order number	catalog number	gage insert	(D) diameter (inch)	(D min) minimum bore diameter (inch)
A-SCLC 95°				
right hand				
1098168	A10KSCLCR06	CCMT060204	0.390	0.512
1098178	A12MSCLCR06	CC..060204	0.472	0.629
1098225	A16RSCLCR09	CCMT09T308	0.630	0.787
1098239	A20SSCLCR09	CCMT09T308	0.790	0.984
left hand				
1098244	A20SSCLCL09	CCMT09T308	0.790	0.984
E-SCLC -5°				
right hand				
2598552	E06MSCLCR2	CC..2151	0.375	0.480
2598694	E08RSCLCR2	CC..2151	0.500	0.600
A-SCLD -S -5°				
right hand				
1094663	A0306GSCLDR12	CD..12061	0.375	0.243
1094665	A0406HSCLDR12	CD..12061	0.375	0.300
A-SCLP -5°				
right hand				
1094669	A06MSCLPR2	CP..2151	0.375	0.480
1094671	A08RSCLPR2	CPMT2151	0.500	0.600
1094673	A10SSCLPR2	CPMT2151	0.625	0.770
1094675	A10SSCLPR3	CPMT3252	0.625	0.770
1094677	A12SSCLPR3	CPMT3252	0.750	0.930
1094679	A16TSCCLPR3	CP..3252	1.000	1.200
left hand				
1094670	A06MSCLPL2	CPMT2151	0.375	0.480
1094672	A08RSCCLPL2	CPMT2151	0.500	0.600
1094676	A10SSCLPL3	CPMT3252	0.625	0.770
1094678	A12SSCLPL3	CPMT3252	0.750	0.930
E-SCLP -5°				
right hand				
1152722	E05KSCCLPR18	CP..18151	0.312	0.415
1152724	E06SCLPR2	CP..2151	0.375	0.480
1152726	E08SCLPR2	CP..2151	0.500	0.600
1152728	E10SCLPR2	CP..2151	0.625	0.770
1152732	E10SCLPR3	CP..3252	0.625	0.770
1152734	E12SCLPR3	CP..3252	0.750	0.930
1152736	E16SCLPR3	CP..3252	1.000	1.200
left hand				
1152725	E06SCLPL2	CP..2151	0.375	0.480
1152727	E08SCLPL2	CP..2151	0.500	0.600
1152735	E12SCLPL3	CP..3252	0.750	0.930
L-SCLP -5°				
right hand				
3331042	L05MSCLPR2	CP..2151..	0.312	0.415
3331043	L06MSCLPR2	CP..2151..	0.375	0.479
3331041	L08RSCCLPR2	CP..2151..	0.500	0.600
3331045	L10RSCCLPR3	CP..3252..	0.625	0.770
3331046	L12RSCCLPR3	CP..3252..	0.750	0.929
A-SDUC 93°				
right hand				
1886506	A10KSDUCR07	DC..070204	0.393	0.511
left hand				
1098263	A25TSDUCL11	DC..11T308	0.984	1.259
A-SDUP -3°				
right hand				
1094689	A06MSDUPR2	DP..2151	0.375	0.600
1094691	A08RSDUPR2	DP..2151	0.500	0.730
1094693	A10SSDUPR2	DP..2151	0.625	0.850
1094695	A12SSDUPR3	DP..3252	0.750	0.980
E-SDUP -3°				
right hand				
1152738	E06SDUPR2	DP..2151	0.375	0.600
1152740	E08SDUPR2	DP..2151	0.500	0.730

(continued)

(Boring Bars — continued)

order number	catalog number	gage insert	(D) diameter (inch)	(D min) minimum bore diameter (inch)
A-STFP 0°				
right hand				
1094653	A06MSTFPR2	TPMT2151	0.375	0.480
1094655	A08RSTFPR2	TP..2151	0.500	0.600
1094657	A10SSTFPR2	TPMT2151	0.625	0.770
A-STLP -5°				
right hand				
1094745	A06MSTLPR2	TPMT2151	0.375	0.480
1094747	A08RSTLPR2	TPMT2151	0.500	0.600
1094749	A10SSTLPR2	TPMT2151	0.625	0.770
1094751	A12SSTLPR3	TP..3252	0.750	0.930
left hand				
1094750	A10SSTLPL2	TPMT2151	0.625	0.770
E-STLP -5°				
right hand				
1152767	E06STLPR2	TP..2151	0.375	0.480
1152769	E08STLPR2	TP..2151	0.500	0.600
A-SVMB -5°				
right hand				
1236002	A08RSVMBR2E	VB..221	0.500	0.980
1236006	A10SSVMBR2E	VB..221	0.625	0.980
1236007	A12SSVMBR3E	VB..332	0.750	1.286
1236018	A16TSVMBR3E	VB..332	1.000	1.286
A-SVQB -17.5°				
right hand				
1094719	A10SSVQBR2	VB..221	0.625	0.850
1094721	A12SSVQBR2	VB..221	0.750	0.980
A-SVUB -3°				
right hand				
1094699	A12SSVUBR2	VB..221	0.750	0.980
1094701	A16TSVUBR3	VBMT332	1.000	1.300
left hand				
1094700	A12SSVUBL2	VB..221	0.750	0.980
A-SWLP -5°				
right hand				
1094703	A0306SWLPR15	WP..15121	0.375	0.260
1094705	A0406SWLPR15	WP..15121	0.375	0.321
1094707	A0506KSWLPR15	WP..15121	0.375	0.415
1094709	A06MSWLPR2	WP..2151	0.375	0.490
1094711	A08RSWLPR2	WPMT2151	0.500	0.600
1094715	A12SSWLPR3	WP..3252	0.750	0.930

■ Boring Heads

order number	catalog number	gage insert	(D) diameter (inch)	(D min) minimum bore diameter (inch)
H-MCLN -5°				
right hand				
1095325	H20MCLNR4	CN..432	1.250	1.470
1095377	H24MCLNR4	CN..432	1.500	1.760
1095429	H28MCLNR4	CN..432	1.750	2.010
1095469	H32MCLNR4	CN..432	2.000	2.400
1095474	H32MCLNR5	CN..543	2.000	2.400
2384973	H40MCLNR4	CN..432	2.500	3.030
1095548	H40MCLNR5	CN..543	2.500	3.030
1095550	H40MCLNR6	CN..643	2.500	3.030
left hand				
1095378	H24MCLNL4	CN..432	1.500	1.760
1095472	H32MCLNL4	CN..432	2.000	2.400
H-MDUN -3°				
right hand				
1095388	H24MDUNR4	DN..432	1.500	2.000
1095480	H32MDUNR4	DN..432	2.000	2.500
1095553	H40MDUNR4	DN..432	2.500	3.250
left hand				
1095483	H32MDUNL4	DN..432	2.000	2.500
1095556	H40MDUNL4	DN..432	2.500	3.250

■ Cartridges

order number	catalog number	gage insert	(D min) minimum bore diameter (inch)
SCLC -5°			
right hand			
1098544	SCLCR12CA12	CC..120408/CC..432	1.968
SCLP -5°			
right hand			
1098542	SCLPR08CA06	CP..060204/CP..2151	0.984
1098543	SCLPR10CA09	CP..09T308/CP..3252	1.574

➤ A4™ Groove and Turn System

for Your O.D. and I.D. Applications

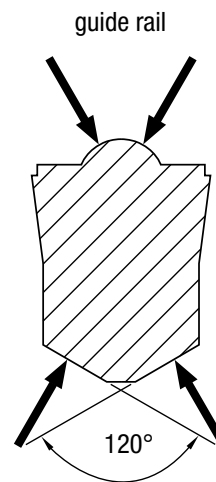
Primary Application

Choose A4 tooling for turning, facing, grooving, face grooving, and cut-off applications across a broad range of workpiece materials. The unique clamping system and versatile insert geometry deliver the highest metal removal rates in the industry.

Features and Benefits

A4 Grooving and Turning System

- One tool for turning, facing, grooving, face-grooving, and cut-off in O.D. and I.D. applications means exceptionally fast cycle times, no turret indexes!
- Extra-long clamping area, ground 120° bottom prism seating surface, and an exclusive top guide rail combine to deliver unsurpassed grooving and side-turning stability!
- Precise insert positioning is ensured for accurate cuts!
- Rigid clamping securely locks insert in place through the toughest cuts.
- Versatile design enables one system to handle O.D. and I.D. grooving, face grooving, back turning, undercutting, and even threading operations.
- Chip control inserts provide excellent chip evacuation in grooving, and offer better chip control in multidirectional turning.



A4™ Chipbreakers

GMP Chipbreaker



GMP Chipbreaker



GMN Chipbreaker



GUP Chipbreaker



GMN Chipbreaker



GUP Chipbreaker



The A4™ System Increases Productivity

- Covers multiple applications.
- Reduces tool cost.
- Minimizes machining time.



order number	catalog number	grade	insert size	(W) cutting width (inch)	(Re) corner radius center (inch)
A4G-P-E					
1998336	A4G0300M03P04E	KD1405	3	0.118	0.016
1998337	A4G0400M04P04E	KD1405	4	0.158	0.016
1998338	A4G0500M05P08E	KD1405	5	0.197	0.031
A4G-P-GMN					
4034806	A4G125I03P05GMN	KCU10	3	0.125	0.008
4114335	A4G125I03P05GMN	KCU25	3	0.125	0.008
4034807	A4G125I03P1GMN	KCU10	3	0.125	0.016
4114336	A4G125I03P1GMN	KCU25	3	0.125	0.016
4034808	A4G187I04P1GMN	KCU10	4	0.187	0.016
4114337	A4G187I04P1GMN	KCU25	4	0.187	0.016
4034809	A4G187I04P2GMN	KCU10	4	0.187	0.031
4114338	A4G187I04P2GMN	KCU25	4	0.187	0.031
4034810	A4G250I06P1GMN	KCU10	6	0.250	0.016
4114339	A4G250I06P1GMN	KCU25	6	0.250	0.016
4034811	A4G250I06P2GMN	KCU10	6	0.250	0.031
4114340	A4G250I06P2GMN	KCU25	6	0.250	0.031
4114341	A4G312I08P1GMN	KCU25	8	0.312	0.016
4034812	A4G375I10P2GMN	KCU10	10	0.375	0.031
4034802	A4G094I2BP05GMN	KCU10	2B	0.094	0.008
A4G-P-GMP					
4034717	A4G0200M02P02GMP	KCU10	2	0.079	0.008
4114295	A4G0200M02P02GMP	KCU25	2	0.079	0.008
1953085	A4G0300M03P02GMP	K313	3	0.118	0.008
4034721	A4G0300M03P02GMP	KCU10	3	0.118	0.008
4114299	A4G0300M03P02GMP	KCU25	3	0.118	0.008
4034722	A4G0300M03P04GMP	KCU10	3	0.118	0.016
4114300	A4G0300M03P04GMP	KCU25	3	0.118	0.016
1953087	A4G0400M04P02GMP	K313	4	0.158	0.008
4034777	A4G0400M04P02GMP	KCU10	4	0.158	0.008
4114306	A4G0400M04P02GMP	KCU25	4	0.158	0.008
4034778	A4G0400M04P04GMP	KCU10	4	0.158	0.016
4114307	A4G0400M04P04GMP	KCU25	4	0.158	0.016
4034779	A4G0400M04P08GMP	KCU10	4	0.158	0.032
4114308	A4G0400M04P08GMP	KCU25	4	0.158	0.032
1953090	A4G0500M05P04GMP	K313	5	0.197	0.016
4034784	A4G0500M05P04GMP	KCU10	5	0.197	0.016
1953091	A4G0500M05P08GMP	K313	5	0.197	0.032
4034785	A4G0500M05P08GMP	KCU10	5	0.197	0.032
4034790	A4G0600M06P04GMP	KCU10	6	0.236	0.016
4114320	A4G0600M06P04GMP	KCU25	6	0.236	0.016
4034791	A4G0600M06P08GMP	KCU10	6	0.236	0.031
4114321	A4G0600M06P08GMP	KCU25	6	0.236	0.031
4114328	A4G0800M08P08GMP	KCU25	8	0.315	0.031
4034720	A4G0250M2BP02GMP	KCU10	2B	0.098	0.008
A4G-P-GUP					
3781192	A4G0200M02P02GUP	KCU10	2	0.079	0.008
3781194	A4G0200M02P02GUP	KU10	2	0.079	0.008
3781252	A4G0200M02P02GUP	KCU25	2	0.079	0.008
3781253	A4G0300M03P02GUP	KCU25	3	0.118	0.008
3781278	A4G0300M03P02GUP	KCU10	3	0.118	0.008
3781254	A4G0300M03P04GUP	KCU25	3	0.118	0.016
3781279	A4G0300M03P04GUP	KCU10	3	0.118	0.016
5109131	A4G125I03P05GUP	KCU25	3	0.125	0.008
5109132	A4G125I03P1GUP	KCU25	3	0.125	0.016
3781255	A4G0400M04P02GUP	KCU25	4	0.157	0.008
3781280	A4G0400M04P02GUP	KCU10	4	0.157	0.008
3781256	A4G0400M04P04GUP	KCU25	4	0.157	0.016
3781281	A4G0400M04P04GUP	KCU10	4	0.157	0.016
3781257	A4G0400M04P08GUP	KCU25	4	0.157	0.031
3781282	A4G0400M04P08GUP	KCU10	4	0.157	0.031
3781258	A4G0500M05P04GUP	KCU25	5	0.197	0.016
3781283	A4G0500M05P04GUP	KCU10	5	0.197	0.016
3781259	A4G0500M05P08GUP	KCU25	5	0.197	0.032
3781284	A4G0500M05P08GUP	KCU10	5	0.197	0.032
3781202	A4G0600M06P04GUP	KU10	6	0.236	0.016
3781260	A4G0600M06P04GUP	KCU25	6	0.236	0.016
3781285	A4G0600M06P04GUP	KCU10	6	0.236	0.016
3781261	A4G0600M06P08GUP	KCU25	6	0.236	0.031
3781286	A4G0600M06P08GUP	KCU10	6	0.236	0.031

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(A4™ Groove and Turn Inserts — continued)

order number	catalog number	grade	insert size	(W) cutting width (inch)	(Re) corner radius center (inch)
A4G-P-GUP (continued)					
5109135	A4G250I06P1GUP	KCU25	6	0.250	0.016
5109136	A4G250I06P2GUP	KCU25	6	0.250	0.031
5109138	A4G375I10P1GUP	KCU25	10	0.375	0.016
A4G-P-S-ST					
4168928	A4G0300M03P04S02025ST	KB5625	3	0.118	0.016
4168929	A4G0400M04P04S02025ST	KB5625	4	0.157	0.016
4168930	A4G0500M05P08S02025ST	KB5625	5	0.197	0.031
A4G-P-T					
2658419	A4G0300M03P04T01025	KY3500	3	0.118	0.016
2659234	A4G125I03P1T0425	KY3500	3	0.125	0.016
2658420	A4G0400M04P04T01025	KY3500	4	0.157	0.016
2658421	A4G0500M05P08T01025	KY3500	5	0.197	0.031
2658422	A4G0600M06P08T01025	KY3500	6	0.236	0.031
2659236	A4G250I06P2T0425	KY3500	6	0.250	0.031
2659233	A4G0800M08P08T01025	KY3500	8	0.315	0.031
A4G-SP-GUP Face Grooving					
3871069	A4G0200M2SP02GUP	KCU10	2S	0.079	0.008
3871090	A4G0200M2SP02GUP	KCU25	2S	0.079	0.008
3871070	A4G0300M3SP02GUP	KCU10	3S	0.118	0.008
3871092	A4G0300M3SP04GUP	KCU25	3S	0.118	0.016
A4G-SU-GUP Face Grooving					
3871076	A4G0205M2SU02GUP	KCU10	2S	0.080	0.008
3871107	A4G0205M2SU02GUP	KCU25	2S	0.080	0.008
3871077	A4G0305M3SU02GUP	KCU10	3S	0.120	0.008
3871078	A4G0305M3SU04GUP	KCU10	3S	0.120	0.016
A4G-U-B					
3324722	A4G0405M04U04B	KCK20	4	0.159	0.015
3324723	A4G0505M05U04B	KCK20	5	0.199	0.015
3066053	A4G0605M06U04B	KCK20	6	0.238	0.016
3324724	A4G0805M08U08B	KCK20	8	0.316	0.031
3324725	A4G1005M10U08B	KCK20	10	0.395	0.031
A4G-U-GMN					
4034718	A4G0205M02U02GMN	KCU10	2	0.080	0.008
4114296	A4G0205M02U02GMN	KCU25	2	0.080	0.008
4034773	A4G0305M03U02GMN	KCU10	3	0.120	0.008
4114302	A4G0305M03U02GMN	KCU25	3	0.120	0.008
5069430	A4G0305M03U02GMN	KCP10	3	0.120	0.008
4034775	A4G0305M03U04GMN	KCU10	3	0.120	0.016
4114304	A4G0305M03U04GMN	KCU25	3	0.120	0.016
4120661	A4G0305M03U04GMN	KCP25	3	0.120	0.016
5069470	A4R0305M03U00GMN	KCP10	3	0.120	0.060
5069161	A4R0305M03U00GMN	KCP25	3	0.120	0.060
4034780	A4G0405M04U04GMN	KCU10	4	0.159	0.016
4114309	A4G0405M04U04GMN	KCU25	4	0.159	0.016
4034782	A4G0405M04U08GMN	KCU10	4	0.159	0.031
4114311	A4G0405M04U08GMN	KCU25	4	0.159	0.031
4137043	A4G0405M04U08GMN	KCP25	4	0.159	0.031
4114316	A4G0505M05U04GMN	KCU25	5	0.199	0.016
4137044	A4G0505M05U04GMN	KCP25	5	0.199	0.016
4034788	A4G0505M05U08GMN	KCU10	5	0.199	0.031
4114318	A4G0505M05U08GMN	KCU25	5	0.199	0.031
4071041	A4G0505M05U08GMN	KCP10	5	0.199	0.031
4034792	A4G0605M06U04GMN	KCU10	6	0.238	0.016
4114323	A4G0605M06U04GMN	KCU25	6	0.238	0.016
4034794	A4G0605M06U08GMN	KCU10	6	0.238	0.031
4114329	A4G0805M08U08GMN	KCU25	8	0.316	0.031
4114331	A4G0805M08U12GMN	KCU25	8	0.316	0.047
A4G-U-GMP					
4114297	A4G0205M02U02GMP	KCU25	2	0.080	0.008
1952742	A4G0305M03U02GMP	KT315	3	0.120	0.008
4034774	A4G0305M03U02GMP	KCU10	3	0.120	0.008
4114303	A4G0305M03U02GMP	KCU25	3	0.120	0.008
4034776	A4G0305M03U04GMP	KCU10	3	0.120	0.016
4114305	A4G0305M03U04GMP	KCU25	3	0.120	0.016
1952748	A4G0405M04U04GMP	KT315	4	0.159	0.015
4034781	A4G0405M04U04GMP	KCU10	4	0.159	0.015
4114310	A4G0405M04U04GMP	KCU25	4	0.159	0.015
4114312	A4G0405M04U08GMP	KCU25	4	0.159	0.031

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(A4™ Groove and Turn Inserts — continued)

Turning

order number	catalog number	grade	insert size	(W) cutting width (inch)	(Re) corner radius center (inch)
A4G-U-GMP (continued)					
4034787	A4G0505M05U04GMP	KCU10	5	0.199	0.015
4114317	A4G0505M05U04GMP	KCU25	5	0.199	0.015
4114319	A4G0505M05U08GMP	KCU25	5	0.199	0.032
4034805	A4G1005M10U08GMP	KCU10	10	0.395	0.031
4114334	A4G1005M10U08GMP	KCU25	10	0.395	0.031
4114298	A4G0255M2BU02GMP	KCU25	2B	0.103	0.008
A4G-U-GUP					
3791263	A4G0205M02U02GUP	KCU10	2	0.080	0.008
3791279	A4G0205M02U02GUP	KCU25	2	0.080	0.008
3791289	A4G0205M02U02GUP	KCP10	2	0.080	0.008
3791303	A4G0205M02U02GUP	KCP25	2	0.080	0.008
3791265	A4G0305M03U02GUP	KCU10	3	0.120	0.008
3791280	A4G0305M03U02GUP	KCU25	3	0.120	0.008
3791290	A4G0305M03U02GUP	KCP10	3	0.120	0.008
3791304	A4G0305M03U02GUP	KCP25	3	0.120	0.008
3791266	A4G0305M03U04GUP	KCU10	3	0.120	0.016
3791281	A4G0305M03U04GUP	KCU25	3	0.120	0.016
3791291	A4G0305M03U04GUP	KCP10	3	0.120	0.016
3791305	A4G0305M03U04GUP	KCP25	3	0.120	0.016
3774691	A4G0405M04U04GUP	KCU25	4	0.159	0.016
3791267	A4G0405M04U04GUP	KCU10	4	0.159	0.016
3791292	A4G0405M04U04GUP	KCP10	4	0.159	0.016
3791306	A4G0405M04U04GUP	KCP25	4	0.159	0.016
3774692	A4G0405M04U08GUP	KCU25	4	0.159	0.032
3791293	A4G0405M04U08GUP	KCP10	4	0.159	0.032
3791307	A4G0405M04U08GUP	KCP25	4	0.159	0.032
3791268	A4G0405M04U08GUP	KCU10	4	0.159	0.032
3791269	A4G0505M05U04GUP	KCU10	5	0.199	0.016
3791282	A4G0505M05U04GUP	KCU25	5	0.199	0.016
3791294	A4G0505M05U04GUP	KCP10	5	0.199	0.016
3791308	A4G0505M05U04GUP	KCP25	5	0.199	0.016
3774723	A4G0505M05U08GUP	KCU25	5	0.199	0.032
3791270	A4G0505M05U08GUP	KCU10	5	0.199	0.032
3791295	A4G0505M05U08GUP	KCP10	5	0.199	0.032
3791309	A4G0505M05U08GUP	KCP25	5	0.199	0.032
3791271	A4G0605M06U04GUP	KCU10	6	0.238	0.016
3791283	A4G0605M06U04GUP	KCU25	6	0.238	0.016
3791296	A4G0605M06U04GUP	KCP10	6	0.238	0.016
3791310	A4G0605M06U04GUP	KCP25	6	0.238	0.016
3791272	A4G0605M06U08GUP	KCU10	6	0.238	0.031
3791284	A4G0605M06U08GUP	KCU25	6	0.238	0.031
3791297	A4G0605M06U08GUP	KCP10	6	0.238	0.031
3791311	A4G0605M06U08GUP	KCP25	6	0.238	0.031
3791273	A4G0605M06U12GUP	KCU10	6	0.238	0.047
3791275	A4G0805M08U08GUP	KCU10	8	0.316	0.031
3791286	A4G0805M08U08GUP	KCU25	8	0.316	0.031
3791299	A4G0805M08U08GUP	KCP10	8	0.316	0.031
3791313	A4G0805M08U08GUP	KCP25	8	0.316	0.031
3791314	A4G0805M08U12GUP	KCP25	8	0.316	0.047
3791287	A4G1005M10U08GUP	KCU25	10	0.395	0.031
A4R-P-E-ST					
4168757	A4R0300M03P00EST	KB1630	3	0.118	0.059
4168758	A4R0400M04P00EST	KB1630	4	0.157	0.078
4168759	A4R0500M05P00EST	KB1630	5	0.197	0.098
4168760	A4R0600M06P00EST	KB1630	6	0.236	0.118
A4G-P-GMN					
4034826	A4R125I03P00GMN	KCU10	3	0.125	0.062
4114356	A4R125I03P00GMN	KCU25	3	0.125	0.062
4034827	A4R187I04P00GMN	KCU10	4	0.187	0.094
4114357	A4R187I04P00GMN	KCU25	4	0.187	0.094
4034828	A4R250I06P00GMN	KCU10	6	0.250	0.125
4114358	A4R250I06P00GMN	KCU25	6	0.250	0.125
4034829	A4R312I08P00GMN	KCU10	8	0.313	0.156

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(A4™ Groove and Turn Inserts — continued)

order number	catalog number	grade	insert size	(W) cutting width (inch)	(Re) corner radius center (inch)
A4R-P-GMP					
4034813	A4R0200M02P00GMP	KCU10	2	0.079	0.039
4114343	A4R0200M02P00GMP	KCU25	2	0.079	0.039
2235210	A4R0300M03P00GMP	K313	3	0.118	0.059
4034815	A4R0300M03P00GMP	KCU10	3	0.118	0.059
4114345	A4R0300M03P00GMP	KCU25	3	0.118	0.059
1953092	A4R0400M04P00GMP	K313	4	0.157	0.078
4034817	A4R0400M04P00GMP	KCU10	4	0.157	0.078
4114347	A4R0400M04P00GMP	KCU25	4	0.157	0.078
1953153	A4R0500M05P00GMP	K313	5	0.197	0.098
4034819	A4R0500M05P00GMP	KCU10	5	0.197	0.098
4114349	A4R0500M05P00GMP	KCU25	5	0.197	0.098
4034821	A4R0600M06P00GMP	KCU10	6	0.236	0.118
4114351	A4R0600M06P00GMP	KCU25	6	0.236	0.118
4114353	A4R0800M08P00GMP	KCU25	8	0.315	0.157
A4R-GUP					
5147211	A4R0300M03P00GUP	KCU25	3	0.118	0.059
5144597	A4R125I03P00GUP	KCU25	3	0.125	0.062
5147212	A4R0400M04P00GUP	KCU25	4	0.157	0.078
5144598	A4R187I04P00GUP	KCU25	4	0.187	0.093
5147213	A4R0500M05P00GUP	KCU25	5	0.197	0.098
5146919	A4R0505M05U00GUP	KCU25	5	0.199	0.099
5147214	A4R0600M06P00GUP	KCU25	6	0.236	0.118
5144599	A4R250I06P00GUP	KCU25	6	0.250	0.125
A4R-SP-GMP Face Grooving					
3871115	A4R0200M2SP00GMP	KCU25	2S	0.079	0.039
3871116	A4R0300M3SP00GMP	KCU25	3S	0.118	0.059
3871118	A4R0500M5SP00GMP	KCU25	5S	0.197	0.098
A4R-U-GMN					
4034814	A4R0205M02U00GMN	KCU10	2	0.080	0.042
4114344	A4R0205M02U00GMN	KCU25	2	0.080	0.042
4034816	A4R0305M03U00GMN	KCU10	3	0.120	0.060
4114346	A4R0305M03U00GMN	KCU25	3	0.120	0.060
4034818	A4R0405M04U00GMN	KCU10	4	0.159	0.079
4114348	A4R0405M04U00GMN	KCU25	4	0.159	0.079
4086956	A4R0405M04U00GMN	KCP10	4	0.159	0.079
4034820	A4R0505M05U00GMN	KCU10	5	0.199	0.099
4114350	A4R0505M05U00GMN	KCU25	5	0.199	0.099
4034822	A4R0605M06U00GMN	KCU10	6	0.238	0.119

order number	catalog number	insert size	(CD) cutting depth (inch)	(H) shank height (inch)	(B) shank width (inch)
A4SM – Inch					
right hand					
1953177	A4SMR100314	3	0.551	0.625	0.625
2976496	A4SMR120214	2	0.551	0.750	0.750
2976497	A4SMR120217	2	0.669	0.750	0.750
1953179	A4SMR120314	3	0.551	0.750	0.750
1953323	A4SMR120414	4	0.551	0.750	0.750
1953327	A4SMR120519	5	0.748	0.750	0.750
2976498	A4SMR160217	2	0.669	1.000	1.000
1953181	A4SMR160317	3	0.669	1.000	1.000
1953325	A4SMR160417	4	0.669	1.000	1.000
1953329	A4SMR160520	5	0.787	1.000	1.000
2263176	A4SMR160620	6	0.787	1.000	1.000
2263177	A4SMR160624	6	0.944	1.000	1.000
2263186	A4SMR160824	8	0.944	1.000	1.000
1957226	A4SMR200417	4	0.669	1.250	1.250
1957228	A4SMR200522	5	0.866	1.250	1.250
2263178	A4SMR200626	6	1.023	1.250	1.250
left hand					
1953180	A4SML120314	3	0.551	0.750	0.750
1953182	A4SML160317	3	0.669	1.000	1.000
1953326	A4SML160417	4	0.669	1.000	1.000
1953330	A4SML160520	5	0.787	1.000	1.000
2263181	A4SML160620	6	0.787	1.000	1.000
2263182	A4SML160624	6	0.944	1.000	1.000
1957227	A4SML200417	4	0.669	1.250	1.250
2263183	A4SML200626	6	1.023	1.250	1.250
2263194	A4SML201026	10	1.023	1.250	1.250
A4SM – Metric					
right hand					
3017342	A4SMR1616K0214	2	0.551	0.629	0.629
2503551	A4SMR2020K0317	3	0.669	0.787	0.787
1949637	A4SMR2525M0317	3	0.669	0.984	0.984
1949641	A4SMR2525M0417	4	0.669	0.984	0.984
1949647	A4SMR2525M0520	5	0.787	0.984	0.984
2245484	A4SMR2525M0620	6	0.787	0.984	0.984
left hand					
2503550	A4SML2020K0317	3	0.669	0.787	0.787
1949638	A4SML2525M0317	3	0.669	0.984	0.984
1949642	A4SML2525M0417	4	0.669	0.984	0.984
1949648	A4SML2525M0520	5	0.787	0.984	0.984

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(A4™ Groove and Turn Toolholders — continued)

order number	catalog number	insert size	(CD) cutting depth (inch)	(D min) minimum bore diameter (inch)	(D) diameter (inch)
A-A4E — Inch Boring Bar					
right hand					
1953335	A12RA4EMR0307N	3	0.275	0.984	0.750
1953341	A12RA4EMR0407N	4	0.275	0.984	0.750
1953344	A16RA4EML0410N	4	0.393	1.259	1.000
2979229	A16RA4EMR0210N	2	0.393	1.259	1.000
1953337	A16RA4EMR0310N	3	0.393	1.259	1.000
1953343	A16RA4EMR0410N	4	0.393	1.259	1.000
left hand					
1953340	A20SA4EML0312N	3	0.472	1.574	1.250
1953339	A20SA4EMR0312N	3	0.472	1.574	1.250
1953347	A24TA4EMR0416N	4	0.629	2.047	1.500
1953351	A24TA4EMR0516N	5	0.629	2.047	1.500

order number	catalog number	insert size	(CD) cutting depth (inch)	(D max) maximum axial groove diameter (inch)	(D min) minimum axial groove diameter (inch)	cartridge size
A4M-S-B OutBoard Sweep — Modular Blade Face Grooving						
right hand						
2398778	A4M50R0414B132300	4	0.551	11.811	5.196	50
2398785	A4M50R0519B058094	5	0.748	3.700	2.283	50
2398786	A4M50R0519B080136	5	0.748	5.354	3.149	50
3557178	A4M65L0624B100-212	6	0.944	8.346	3.937	65
3557193	A4M65R0824B184-999	8	0.944	39.330	7.244	65
left hand						
2398772	A4M50L0314B090160	3	0.551	6.299	3.543	50
2398773	A4M50L0314B130300	3	0.551	11.811	5.118	50
2398783	A4M50L0414B132300	4	0.551	11.811	5.196	50
2398789	A4M50L0519B058094	5	0.748	3.700	2.283	50
2398791	A4M50L0519B120300	5	0.748	11.811	4.724	50