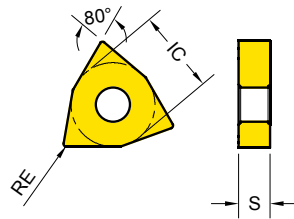


Turning Inserts - Negative

WNMA / WNMG (80° Trigon)

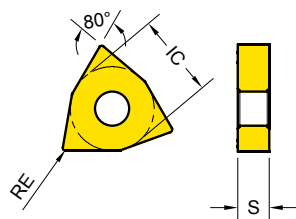


Series	IC	S
WN** 0604	9.525	4.76
WN** 0804	12.700	4.76

EDP 2200..

● : Stock item ○ : Order made item

WNMA WNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05	P10	P15	P10	P20	P30	P20	M25	M15	M30	M40	S10	P15	M15	N20	N20
					K20	K30										S30	K15				
..MA  Cast iron	WNMA 080404	0.4	0.15 ~ 0.50	0.5 ~ 5.0	●	○	○														
	WNMA 080408	0.8	0.15 ~ 0.50	1.0 ~ 5.0	●	○	○														
	WNMA 080412	1.2	0.15 ~ 0.50	1.5 ~ 5.0	●	○	○														
-UF  Finishing	WNMG 060404 - UF	0.4	0.05 ~ 0.20	0.5 ~ 2.0			○			●	●	○									
	WNMG 080404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.5			○			●	●	○									
	WNMG 080408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.5			○			●	●	○									
	WNMG 080412 - UF	1.2	0.05 ~ 0.25	1.5 ~ 2.5			○			●	●	○									
-UL  Light Machining and Sticky Material	WNMG 060408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 2.5			○			●	●	○									
	WNMG 080404 - UL	0.4	0.10 ~ 0.30	0.5 ~ 3.0			○			●	●	○									
	WNMG 080408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 3.0			○			●	●	○									
	WNMG 080412 - UL	1.2	0.10 ~ 0.30	1.5 ~ 3.0			○			●	●	○									
-UM  Medium Machining Unstable condition	WNMG 060404 - UM	0.4	0.15 ~ 0.30	0.5 ~ 2.5	○	○	○			●	●	○									
	WNMG 060408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 2.5	○	○	○			●	●	○									
	WNMG 080404 - UM	0.4	0.15 ~ 0.30	0.5 ~ 3.0		○	○			●	●	○									
	WNMG 080408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0		○	○			●	●	○									
	WNMG 080412 - UM	1.2	0.15 ~ 0.30	1.5 ~ 3.0		○	○			●	●	○									
	WNMG 080416 - UM	1.6	0.15 ~ 0.30	2.0 ~ 3.0		○	○			●	●	○									

Turning Inserts - Negative
WNMG (80° Trigon)

Series	IC	S
WN** 0604	9.525	4.76
WN** 0804	12.700	4.76

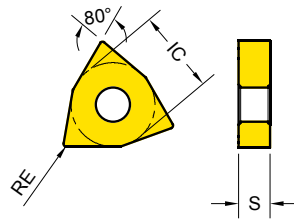
EDP 2200..

● : Stock item ○ : Order made item

					K10	P05	P10	P15	P10	P20	P30	P20	M25	M15	M30	M40	S10	P15	M15	N20	N20
					K20	K30										S30		K15			
WNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10	
-UG  Medium Machining at stable condition	WNMG 060408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	●	○	○		●	●	●	○									
	WNMG 080404 - UG	0.4	0.20 ~ 0.40	0.5 ~ 3.0	1649	0697	1047		2428	0438	0874	0059									
	WNMG 080408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	●	○	○	○	●	●	●	○									
	WNMG 080412 - UG	1.2	0.20 ~ 0.40	1.5 ~ 3.0	0908	0463	0147	0582	2194	0148	0149	0056									
	WNMG 080416 - UG	1.6	0.20 ~ 0.40	2.0 ~ 4.0	●	○	○	○	●	●	●										
-PWM  Wiper-Medium	WNMG 080408 - PWM	0.8	0.10 ~ 0.50	0.8 ~ 3.5	1643	1233	1056	0764	2575	0583	1238										
									●												
									2706												
-UC  Cast iron and Medium roughing	WNMG 060408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 3.0	●	○	○		●	●	●										
	WNMG 080404 - UC	0.4	0.20 ~ 0.40	0.5 ~ 4.0	1444	0095	0875		2421	0876	0724										
	WNMG 080408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 4.0	●	○	○		●	●	●										
	WNMG 080412 - UC	1.2	0.20 ~ 0.40	1.5 ~ 4.0	0906	0097	0133		2367	0110	0134										
	WNMG 080416 - UC	1.6	0.20 ~ 0.40	2.0 ~ 4.0	●	○	○	○	●	●	●										
-UR  Roughing	WNMG 060412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 4.0	0907	0077	0135	0733	2186	0111	0136										
	WNMG 080408 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	●	○	○	○	●	●	●										
	WNMG 080412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	0909	0078	0137	0630	2168	0112	0138										
	WNMG 080416 - UR	1.6	0.30 ~ 0.50	2.0 ~ 5.0	●	○	○		●	●	●										
					1187	1055	1235		2709	1236	0743										
-KR  Cast Iron Heavy Roughing	WNMG 060412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 4.0	●	○	○		●	●	●										
	WNMG 080408 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	1317	1066	1057		2702	1058	1060										
	WNMG 080412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	●	○	○		●	●	●										
	WNMG 080416 - UR	1.6	0.30 ~ 0.50	2.0 ~ 5.0	1613	0464	0465		2353	0471	0472										
					●	○	○	○	●	●	●	○									
-KR  Cast Iron Heavy Roughing	WNMG 080416 - UR	1.6	0.30 ~ 0.50	2.0 ~ 5.0	1614	0467	0442	0631	2184	0443	0444	0057									
	WNMG 080408 - KR	0.8	0.30 ~ 0.60	1.0 ~ 5.0	●	○	○		●												
	WNMG 080412 - KR	1.2	0.30 ~ 0.60	1.5 ~ 5.0	1637	0468	0469	0889	2359	0725	0714										
					●	○	○		●												
					0932	0720	1038		2705												
				●	○	○		●													
				0933	0522	0542		2707													

Turning Inserts - Negative

WNMG (80° Trigon)



Series	IC	S
WN** 0604	9.525	4.76
WN** 0804	12.700	4.76

EDP 2200..

● : Stock item ○ : Order made item

WNGM	Designation	RE	Fn (mm/rev.)	Ap (mm)	YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10	
-MF	 Stainless steel Finishing	WNMG 060404 - MF	0.4	0.07 ~ 0.30	0.2 ~ 1.5			○ 0833				○ 0996	● 2461	● 1215	● 1217	● 2284	○ 2279				
		WNMG 060408 - MF	0.8	0.07 ~ 0.30	0.2 ~ 1.5										● 1216	● 1218	● 2285	○ 2280			
		WNMG 080404 - MF	0.4	0.07 ~ 0.30	0.2 ~ 1.5						○ 0834		● 2462	● 0667	● 0668	● 0970	○ 2281				
		WNMG 080408 - MF	0.8	0.07 ~ 0.30	0.2 ~ 1.5						○ 1098		● 2463	● 0617	● 0618	● 2268	○ 2282				
-MM	 Stainless steel Medium	WNMG 080404 - MM	0.4	0.20 ~ 0.35	0.5 ~ 3.5									● 0571	● 0572	● 2300	○ 2301				
		WNMG 080408 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5						○ 0491				● 0497	● 0498	● 0633	○ 2302			
		WNMG 080412 - MM	1.2	0.20 ~ 0.35	1.5 ~ 3.5										● 0612	● 0615	● 1926	○ 2303			
-MG	 Stainless steel General	WNMG 060404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 3.0								● 2487								
		WNMG 060408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 3.0									● 2476							
		WNMG 060412 - MG	1.2	0.20 ~ 0.40	1.5 ~ 3.0									● 2477							
		WNMG 080404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0									● 2488							
		WNMG 080408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0									● 2478	● 1496	● 1497	● 1160	● 1498			
		WNMG 080412 - MG	1.2	0.20 ~ 0.40	1.5 ~ 4.0									● 2479	● 1499	● 1500	● 1161	● 1501			
-MR	 Stainless steel Roughing	WNMG 060412 - MR	1.2	0.30 ~ 0.55	1.2 ~ 4.0						○ 1154		● 2498	● 0616	● 1787	● 1896					
		WNMG 080408 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5							○ 1099		● 2499	● 0619	● 0620	● 0835				
		WNMG 080412 - MR	1.2	0.30 ~ 0.55	2.0 ~ 5.5							○ 0837		● 2482	● 0665	● 0666	● 0836				

TURNING

PARTING & GROOVING

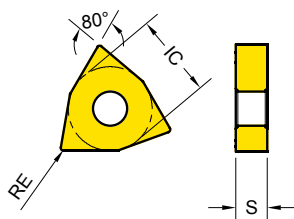
MILLING

DRILLING

TECHNICAL INFORMATION

Turning Inserts - Negative

WNGG / WNMG (80° Trigon)



Series	IC	S
WN** 0604	9.525	4.76
WN** 0804	12.700	4.76

EDP 2200..

● : Stock item ○ : Order made item

	WNGG WNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05	P10	P15	P10	P20	P30	P20	M25	M15	M30	M40	S10	P15	M15	N20	N20
						K20	K30										S30	K15				
TURNING	-SF	WNGG 080408 - SF	0.8	0.10 ~ 0.25	0.2 ~ 1.0	YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10	
																		● 1308				
		HRSA Finishing																				
PARTING & GROOVING	-SM	WNMG 080408 - SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0											○ 1199	○ 1206	○ 1859	● 1311			
																○ 1374	○ 1416	○ 1860	● 1312			
		HRSA Medium																				
MILLING	-SR	WNMG 060412 - SR	1.2	0.30 ~ 0.55	1.2 ~ 4.0													● 1439				
																		● 1310				
		HRSA Roughing																● 1309				
DRILLING	-PSF	WNMG 080404 - PSF	0.4	0.07 ~ 0.30	0.4 ~ 2.5														● 2539			
																			● 2540			
		Cermet Finishing																				
TECHNICAL INFORMATION	NEW	WNMG 080408 - PSF	0.8	0.10 ~ 0.30	0.6 ~ 2.5																	
																						