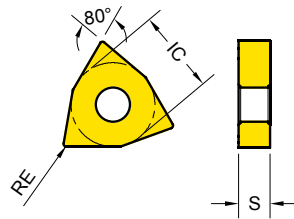


Turning Inserts - Negative

WNMA / WNMG (80° Trigon)

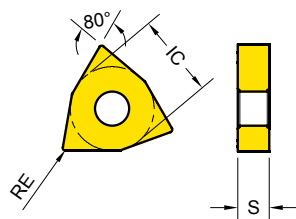


Series	IC	S
WN** 0604	9.525	4.76
WN** 0804	12.700	4.76

EDP 2200..

● : Stock item ○ : Order made item

WNMA WNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
					YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..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

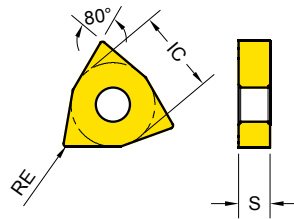
EDP 2200..

● : 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				
WNGM	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	1580	1232	0318		2392	0319	0320										
	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	0908	0463	0147	0582	2194	0148	0149	0056									
					0910	0466	0503	0648	2167	0490	0941										
					●	○	○	○	●	●	●										
					1643	1233	1056	0764	2575	0583	1238										
									●												
-UC  Cast iron and Medium roughing	WNMG 060408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 3.0					2706												
	WNMG 080404 - UC	0.4	0.20 ~ 0.40	0.5 ~ 4.0																	
	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																	
	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	●	○	○		●	●	●										
	WNMG 080408 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	1444	0095	0875		2421	0876	0724										
	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	0906	0097	0133		2367	0110	0134										
					●	○	○	○	●	●	●										
-KR  Cast Iron Heavy Roughing	WNMG 080412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	0907	0077	0135	0733	2186	0111	0136										
	WNMG 080416 - UR	1.6	0.30 ~ 0.50	2.0 ~ 5.0	●	○	○	○	●	●	●										
					0909	0078	0137	0630	2168	0112	0138										
					●	○	○		●	●	●										
					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									
					●	○	○	○	●	●	●										
					1637	0468	0469	0889	2359	0725	0714										
					●	○	○		●												
					0932	0720	1038		2705												
-KR  Cast Iron Heavy Roughing	WNMG 080412 - KR	1.2	0.30 ~ 0.60	1.5 ~ 5.0	●	○	○		●												
					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

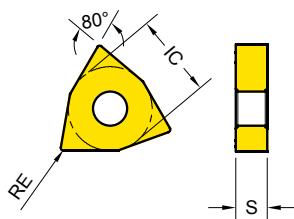
EDP 2200..

● : 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 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 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
TURNING	-SF	 HRSA Finishing	WNGG 080408 - SF	0.8	0.10 ~ 0.25	0.2 ~ 1.0												● 1308			
PARTING & GROOVING	-SM	 HRSA Medium	WNMG 080408 - SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0										○ 1199	○ 1206	○ 1859	● 1311		
			WNMG 080412 - SM	1.2	0.15 ~ 0.30	0.5 ~ 3.0										○ 1374	○ 1416	○ 1860	● 1312		
MILLING	-SR	 HRSA Roughing	WNMG 060412 - SR	1.2	0.30 ~ 0.55	1.2 ~ 4.0												● 1439			
			WNMG 080408 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5												● 1310			
			WNMG 080412 - SR	1.2	0.30 ~ 0.55	2.0 ~ 5.5												● 1309			
DRILLING	-PSF	 Cermet Finishing	WNMG 080404 - PSF	0.4	0.07 ~ 0.30	0.4 ~ 2.5												● 2539			
			WNMG 080408 - PSF	0.8	0.10 ~ 0.30	0.6 ~ 2.5												● 2540			
TECHNICAL INFORMATION																					