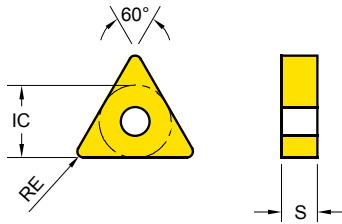


Turning Inserts - Negative

TNMA / TNMG (60° Triangle)



Series	IC	S
TN** 1604	9.525	4.76
TN** 2204	12.700	4.76

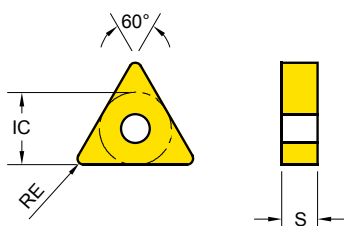
EDP 2200..

● : Stock item ○ : Order made item

TNMA TNMG	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	TNMA 160404	0.4	0.15 ~ 0.50	0.5 ~ 5.0	● 1582	○ 1446	○ 1448													
	TNMA 160408	0.8	0.15 ~ 0.50	1.0 ~ 5.0	● 1486	○ 0035	○ 1191													
	TNMA 160412	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 1485	○ 0036	○ 1192													
-UF  Finishing	TNMG 160404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.5			○ 0270		● 2363	● 0271	● 0272	○ 0039								
	TNMG 160408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.5			○ 0276		● 2217	● 0277	● 0278									
	TNMG 160412 - UF	1.2	0.05 ~ 0.25	1.5 ~ 2.5			○ 0721		● 2645	● 0588	● 1197									
	TNMG 220404 - UF	0.4	0.10 ~ 0.35	0.5 ~ 4.0			○ 0407		● 2409	● 1203	● 1205	○ 0042								
-UL  Light Machining and Sticky Material	TNMG 160404 - UL	0.4	0.10 ~ 0.30	0.5 ~ 3.0			○ 1605		● 2643	● 1606	● 1607									
	TNMG 160408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 3.0			○ 0279	○ 0752	● 2374	● 0280	● 0281									
	TNMG 160412 - UL	1.2	0.10 ~ 0.30	1.5 ~ 3.0			○ 0884	○ 0868	● 2586	● 0621	● 1198									
-UM  Medium Machining Unstable condition	TNMG 160404 - UM	0.4	0.15 ~ 0.30	0.5 ~ 3.0	○ 1669	○ 0949	○ 0948	○ 0844	● 2644	● 0952	● 0954									
	TNMG 160408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0	○ 1141	○ 1053	○ 0282	○ 0758	● 2195	● 0283	● 0284									
	TNMG 160412 - UM	1.2	0.15 ~ 0.30	1.5 ~ 3.0	○ 1143	○ 0596	○ 0597	○ 0760	● 2587	● 0586	● 0710									
-UG  Medium Machining at stable condition	TNMG 160404 - UG	0.4	0.20 ~ 0.40	0.5 ~ 3.0	● 1620	○ 0458	○ 0273		● 2171	● 0274	● 0275									
	TNMG 160408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 1140	○ 0459	○ 0144	○ 0757	● 2182	● 0145	● 0146	○ 0037								
	TNMG 160412 - UG	1.2	0.20 ~ 0.40	1.5 ~ 3.0	● 1142	○ 0605	○ 0606	○ 0759	● 2200	● 0587	● 0939									
	TNMG 220408 - UG	0.8	0.25 ~ 0.60	1.0 ~ 6.0	● 1641	○ 1061	○ 0285		● 2394	● 0286	● 0287	○ 0040								
	TNMG 220412 - UG	1.2	0.25 ~ 0.60	1.5 ~ 6.0	● 1642	○ 1526	○ 1527		● 2694	● 1528	● 1529									
	TNMG 220416 - UG	1.6	0.25 ~ 0.60	2.0 ~ 6.0	● 1647	○ 1209	○ 0851	○ 0863	● 2695	● 0852	● 1263									
-UC  Cast iron and Medium roughing	TNMG 160404 - UC	0.4	0.20 ~ 0.40	0.5 ~ 4.0	● 1316	○ 0399	○ 0400		● 2423	● 0401	● 0402									
	TNMG 160408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 4.0	● 0901	○ 0075	○ 0129		● 2382	● 0108	● 0130									
	TNMG 160412 - UC	1.2	0.20 ~ 0.40	1.5 ~ 4.0	● 0902	○ 0076	○ 0131		● 2413	● 0109	● 0132									
	TNMG 220416 - UC	1.6	0.20 ~ 0.40	2.0 ~ 4.0					● 1507											
-UR  Roughing	TNMG 160408 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	● 0880	○ 0680	○ 0669		● 2395	● 0670	● 1054									
	TNMG 160412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	● 1657	○ 0602	○ 0404	○ 0888	● 2406	● 0405	● 0406	○ 0038								
	TNMG 220412 - UR	1.2	0.30 ~ 0.65	1.5 ~ 7.0	● 1639	○ 0408	○ 0409		● 2403	● 0410	● 0411	○ 0041								
	TNMG 220416 - UR	1.6	0.30 ~ 0.65	2.0 ~ 7.0	● 1658	○ 0460	○ 0461		● 2696	● 0696	● 0711									

Turning Inserts - Negative

TNMG (60° Triangle)



Series	IC	S
TN** 1604	9.525	4.76
TN** 2204	12.700	4.76

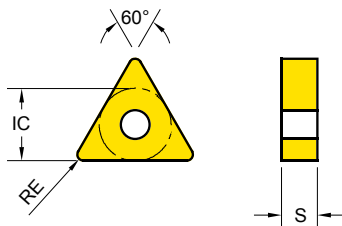
EDP 2200..

● : Stock item ○ : Order made item

	TNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..															
						K10	P05	P10	P15	P10	P20	P30	P20	M25	M15	M30	M40	S10	P15	N20	N20
						K20	K30										S30	K15			
TURNING	-MF	 Stainless steel Finishing	TNMG 160404 - MF	0.4	0.07 ~ 0.3	0.2 ~ 1.5											●	●	○		
			TNMG 160408 - MF	0.8	0.07 ~ 0.3	0.2 ~ 1.5					○						●	●	●	○	
											0963						2458	0589	0776	0825	1285
PARTING & GROOVING	-MM	 Stainless steel Medium	TNMG 160404 - MM	0.4	0.20 ~ 0.35	0.5 ~ 3.5											●	●	●	○	
			TNMG 160408 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5											0567	0568	1790	2297	
			TNMG 160412 - MM	1.2	0.20 ~ 0.35	1.5 ~ 3.5											●	●	●	○	
MILLING	-MG	 Stainless steel General	TNMG 160404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0											●	●	●	●	
			TNMG 160408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0											2472	1455	1456	1219	1515
			TNMG 160412 - MG	1.2	0.20 ~ 0.50	2.0 ~ 4.0											●	●	●	●	
DRILLING	-MR	 Stainless steel Roughing	TNMG 160408 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5						○					2473	1568	1569	1713	1660
			TNMG 160412 - MR	1.2	0.30 ~ 0.55	2.0 ~ 5.5						○					2474	2104	2105	2103	2054
												0727					●	●	●	●	
TECHNICAL INFORMATION																	2493	0826	0985	0726	
																	○	●	●	●	
																	1062	2494	0995	0827	0828

Turning Inserts - Negative

TNGG / TNMG (60° Triangle)



Series	IC	S
TN** 1604	9.525	4.76
TN** 2204	12.700	4.76

EDP 2200..

● : Stock item ○ : Order made item

TNGG TNMG	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
-SF  Stainless steel Finishing	TNMG 160408 - SF	0.8	0.10 ~ 0.25	0.2 ~ 1.0													● 1427			
-SM  Stainless steel Medium	TNMG 160408 - SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0										○ 1575	○ 1576	○ 1577	● 1228			
	TNMG 160412 - SM	1.2	0.15 ~ 0.30	0.5 ~ 3.0										○ 1635	○ 1636	○ 1858	● 1508			
-SR  HRSA Roughing	TNMG 160408 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5													● 1307			
	TNMG 160412 - SR	1.2	0.30 ~ 0.55	2.0 ~ 5.5													● 1306			
NEW -PSF  Cermet Finishing	TNMG 160404 - PSF	0.4	0.07 ~ 0.30	0.4 ~ 2.5													● 2535			
	TNMG 160408 - PSF	0.8	0.10 ~ 0.30	0.6 ~ 2.5													● 2536			
NEW -C  Cermet Medium Left Hand Shown	TNGG 160402L - C	0.2	0.20 ~ 0.40	0.3 ~ 3.5													○ 2524			
	TNGG 160404L - C	0.4	0.20 ~ 0.40	0.5 ~ 3.5													○ 2526			
	TNGG 160408L - C	0.8	0.20 ~ 0.40	1.0 ~ 3.5													○ 2528			
NEW -C  Cermet Medium Right Hand Shown	TNGG 160402R - C	0.2	0.20 ~ 0.40	0.3 ~ 3.5													○ 2525			
	TNGG 160404R - C	0.4	0.20 ~ 0.40	0.5 ~ 3.5													○ 2527			
	TNGG 160408R - C	0.8	0.20 ~ 0.40	1.0 ~ 3.5													○ 2529			

TURNING

PARTING & GROOVING

MILLING

DRILLING

TECHNICAL INFORMATION

Turning Inserts - Negative
TNUX (60° Triangle)

TURNING

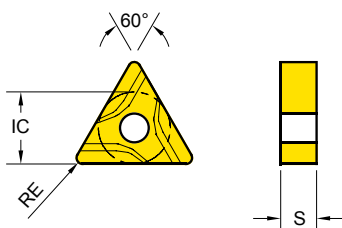
PARTING & GROOVING

MILLING

DRILLING

TECHNICAL INFORMATION

Series	IC	S
TN** 1604	9.525	4.76



EDP 2200..

● : Stock item ○ : Order made item

TNUX	Designation	RE	Fn (mm/rev.)	Ap (mm)	YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..UX  Left Hand Shown	TNUX 160404 L	0.4	0.10 ~ 0.30	0.5 ~ 4.0			○ 0412		● 2425	● 0413	● 1264	○ 0043								
	TNUX 160408 L	0.8	0.10 ~ 0.40	1.0 ~ 5.0			○ 0414		● 2198	● 0415	● 0675	○ 0045		○ 0731						
..UX  Right Hand Shown	TNUX 160404 R	0.4	0.10 ~ 0.30	0.5 ~ 4.0			○ 0288		● 2390	● 0289	● 0290	● 0044								
	TNUX 160408 R	0.8	0.10 ~ 0.40	1.0 ~ 5.0			○ 0291		● 2354	● 0292	● 0293	● 0046								