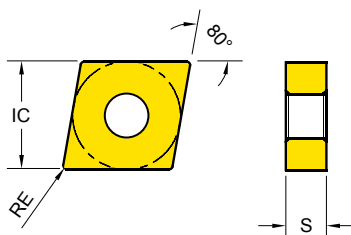


Turning Inserts - Negative

CNMA / CNMG (80° Rhombic)



Series

IC

S

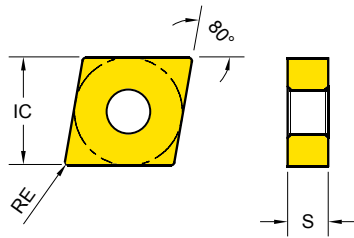
CN** 0903	9.525	3.18
CN** 0904	9.525	4.76
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35

EDP 2200..

● : Stock item ○ : Order made item

CNMA CNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..MA  Cast iron	CNMA 120404	0.4	0.15 ~ 0.50	0.5 ~ 5.0	● 0894	○ 0089	○ 0354														
	CNMA 120408	0.8	0.15 ~ 0.50	1.0 ~ 5.0	● 1484	○ 0010	○ 0355														
	CNMA 120412	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 0766	○ 0011	○ 0356														
	CNMA 120416	1.6	0.15 ~ 0.50	2.0 ~ 5.0	● 1207	○ 1188	○ 1314														
	CNMA 160612	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 0881	○ 0012	○ 0357														
	CNMA 160616	1.6	0.15 ~ 0.50	2.0 ~ 5.0	● 0937	○ 0446	○ 0447														
	CNMA 190612	1.2	0.15 ~ 0.50	1.5 ~ 9.0	● 1617	○ 0989	○ 0990														
	CNMA 190616	1.6	0.15 ~ 1.00	3.0 ~ 10.0	● 1015	○ 0448	○ 0449														
-UF  Finishing	CNMG 120404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.5		○ 0178		● 2370	● 0179	● 0180	○ 0003										
	CNMG 120408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.5		○ 0189	○ 1027	● 2204	● 0190	● 0191											
	CNMG 120412 - UF	1.2	0.05 ~ 0.25	1.5 ~ 2.5		○ 1349		● 2598	● 1360	● 1350											
-UL  Light Machining and Sticky Material	CNMG 090308 - UL	0.8	0.10 ~ 0.30	1.0 ~ 2.5		○ 1211		● 2589	● 1328	● 1212											
	CNMG 090312 - UL	1.2	0.10 ~ 0.30	1.5 ~ 2.5		○ 1274		● 2590	● 1270	● 1704											
	CNMG 090408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 2.5		○ 1338		● 2591	● 1335	● 1705											
	CNMG 090412 - UL	1.2	0.10 ~ 0.30	1.5 ~ 2.5		○ 1339		● 2592	● 1336	● 1706											
	CNMG 120404 - UL	0.4	0.10 ~ 0.30	0.5 ~ 3.0		○ 0358		● 2381	● 0359	● 0524											
	CNMG 120408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 3.0		○ 0192		● 2315	● 0193	● 0194											
	CNMG 120412 - UL	1.2	0.10 ~ 0.30	1.5 ~ 3.0		○ 0201		● 2396	● 0202	● 0203											
	-UM  Medium Machining Unstable condition	CNMG 120404 - UM	0.4	0.15 ~ 0.30	0.5 ~ 3.0		● 1074	○ 0184			● 0185	● 0186									
CNMG 120408 - UM		0.8	0.15 ~ 0.30	1.0 ~ 3.0	● 0897	● 0338	○ 0114	○ 0843			● 0100	● 0140									
CNMG 120412 - UM		1.2	0.15 ~ 0.30	1.5 ~ 3.0		● 1075	○ 0525			● 0486	● 0526										

Turning Inserts - Negative CNMG (80° Rhombic)

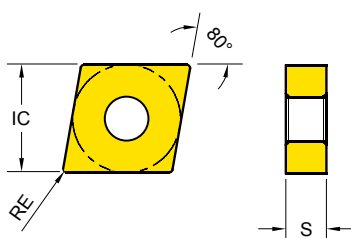


Series	IC	S
CN** 0903	9.525	3.18
CN** 0904	9.525	4.76
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35

EDP 2200..

● : Stock item ○ : Order made item

CNMG	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			
-UG Medium Machining at stable condition	CNMG 120404-UG	0.4	0.20~0.40	0.5~3.0	●	○	○			●	●	●									
	CNMG 120408-UG	0.8	0.20~0.40	1.0~3.0	●	○	○			●	●	○									
	CNMG 120412-UG	1.2	0.20~0.40	1.5~3.0	●	○	○			●	●	●									
	CNMG 160608-UG	0.8	0.20~0.40	1.0~5.0	●	○	○			●	●	●									
	CNMG 160612-UG	1.2	0.20~0.40	1.5~5.0	●	○	○			●	●	●									
	CNMG 160616-UG	1.6	0.30~0.50	2.0~5.0	●	○	○			●	●	●									
	CNMG 190608-UG	0.8	0.20~0.60	1.0~6.0	●	○	○			●	●	●									
	CNMG 190612-UG	1.2	0.20~0.60	1.5~6.0	●	○	○			●	●	●									
NEW -PWM Wiper-Medium	CNMG 120404-PWM	0.4	0.10~0.50	0.5~3.5	●	○	○			●	●	●									
	CNMG 120408-PWM	0.8	0.10~0.50	0.8~3.5	●	○	○			●	●	●									
	CNMG 120412-PWM	1.2	0.10~0.50	1.0~3.5	●	○	○			●	●	●									
-UC Cast iron and Medium roughing	CNMG 120404-UC	0.4	0.20~0.40	0.5~4.0	●	○	○			●	●	●									
	CNMG 120408-UC	0.8	0.20~0.40	1.0~4.0	●	○	○			●	●	●									
	CNMG 120412-UC	1.2	0.20~0.40	1.5~4.0	●	○	○			●	●	●									
-UR Roughing	CNMG 120408-UR	0.8	0.30~0.50	1.0~5.0	●	○	○			●	●	●									
	CNMG 120412-UR	1.2	0.30~0.50	1.5~5.0	●	○	○			●	●	●									
	CNMG 120416-UR	1.6	0.30~0.50	2.0~5.0	●	○	○			●	●	●									
	CNMG 160608-UR	0.8	0.30~0.50	1.0~5.0	●	○	○			●	●	●									
	CNMG 160612-UR	1.2	0.30~0.50	1.5~5.0	●	○	○			●	●	●									
	CNMG 160616-UR	1.6	0.30~0.50	2.0~5.0	●	○	○			●	●	●									
	CNMG 190608-UR	0.8	0.30~0.80	3.0~9.0	●	○	○			●	●	●									
	CNMG 190612-UR	1.2	0.30~0.80	3.0~9.0	●	○	○			●	●	●									
	CNMG 190616-UR	1.6	0.30~0.80	3.0~9.0	●	○	○			●	●	●									
	CNMG 120408-KR	0.8	0.30~0.60	1.0~5.0	●	○	○			●	●	●									
-KR Cast Iron Heavy Roughing	CNMG 120412-KR	1.2	0.30~0.60	1.5~5.0	●	○	○			●	●	●									
	CNMG 160612-KR	1.2	0.30~0.60	1.5~6.0	●	○	○			●	●	●									
	CNMG 160616-KR	1.6	0.30~0.60	2.0~6.0	●	○	○			●	●	●									
	CNMG 190612-KR	1.2	0.30~1.00	3.0~9.0	●	○	○			●	●	●									
	CNMG 190616-KR	1.6	0.30~1.00	3.0~9.0	●	○	○			●	●	●									

Turning Inserts - Negative
CNMG (80° Rhombic)

Series IC S

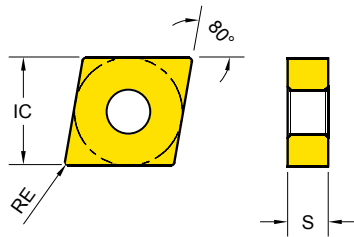
CN** 0903	9.525	3.18
CN** 0904	9.525	4.76
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35

EDP 2200..

● : Stock item ○ : Order made item

					EDT 2200..																
					K10	P05	P10	P15	P10	P20	P30	P20	M25	M15	M30	M40	S10	P15	M15	N20	N20
					K20	K30										S30		K15			
CNMG	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	CNMG 120404 - MF	0.4	0.07 ~ 0.3	0.2 ~ 1.5					○ 1185	○ 1237		● 2451	● 0609	● 0613	● 1708	○ 2271				
	CNMG 120408 - MF	0.8	0.07 ~ 0.3	0.2 ~ 1.5							○ 0652		● 2452	● 0538	● 0539	● 0627	○ 2272				
	CNMG 120412 - MF	1.2	0.07 ~ 0.3	0.2 ~ 1.5							○ 1025		● 2453			● 1139					
-MM	 Stainless steel Medium	CNMG 120404 - MM	0.4	0.20 ~ 0.35	0.5 ~ 3.5									● 0547	● 0548	● 1709	○ 2286				
	CNMG 120408 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5						○ 0360	○ 0188			● 0494	● 0495	● 0607	○ 2287				
	CNMG 120412 - MM	1.2	0.20 ~ 0.35	1.5 ~ 3.5							○ 0521			● 0549	● 0550	● 0626	○ 2288				
	CNMG 190608 - MM	0.8	0.20 ~ 0.50	2.0 ~ 5.5										● 1969	● 1970	● 1933					
	CNMG 190612 - MM	1.2	0.20 ~ 0.55	2.0 ~ 5.5										● 1971	● 1972	● 1934					
-MG	 Stainless steel General	CNMG120404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0								● 2465								
	CNMG 120408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0							○ 1371		● 2468	● 1490	● 1491	● 1090	● 1222				
	CNMG 120412 - MG	1.2	0.20 ~ 0.40	1.5 ~ 4.0									● 2469	● 1493	● 1494	● 0928	● 1221				
	CNMG 160608 - MG	0.8	0.20 ~ 0.45	1.0 ~ 4.0										● 1921	● 1917	● 1919	● 1812				
	CNMG 160612 - MG	1.2	0.20 ~ 0.50	2.0 ~ 4.0										● 1922	● 1918	● 1920	● 1813				
	CNMG 160616 - MG	1.6	0.20 ~ 0.50	2.0 ~ 4.0										● 1929	● 1930	● 1535	● 1540				
	CNMG 190616 - MG	1.6	0.20 ~ 0.50	2.0 ~ 5.0										● 1931	● 1932	● 1534	● 1541				
-MR	 Stainless steel Roughing	CNMG 120408 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5						○ 0594			● 0540	● 0541	● 0608					
	CNMG 120412 - MR	1.2	0.30 ~ 0.55	2.0 ~ 5.5							○ 0839	○ 0840		● 2480	● 0610	● 0614	● 0628				
	CNMG 120416 - MR	1.6	0.30 ~ 0.55	2.0 ~ 5.5											● 1893	● 1894	● 1895				

Turning Inserts - Negative

CNGG / CNMG (80° Rhombic)


Series	IC	S
CN** 0903	9.525	3.18
CN** 0904	9.525	4.76
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35

EDP 2200..

● : Stock item ○ : Order made item

	CNGG CNMG	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  HRSA Finishing		CNGG 120401 - SF	0.1	0.10 ~ 0.25	0.1 ~ 1.0													● 1882			
		CNGG 120402 - SF	0.2	0.10 ~ 0.25	0.1 ~ 1.0													● 2097			
		CNGG 120404 - SF	0.4	0.10 ~ 0.25	0.2 ~ 1.0													● 1291			
		CNGG 120408 - SF	0.8	0.10 ~ 0.25	0.2 ~ 1.0													● 0943			
- SM  HRSA Medium		CNMG 120408 - SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0										○ 1088	○ 1089	○ 1395	● 1189			
		CNMG 120412 - SM	1.2	0.15 ~ 0.30	0.5 ~ 3.0										○ 1373	○ 1394	○ 2305	● 1292			
- SR  HRSA Roughing		CNMG 120408 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5													● 0945			
		CNMG 120412 - SR	1.2	0.30 ~ 0.55	2.0 ~ 5.5													● 1279			
		CNMG 120416 - SR	1.6	0.30 ~ 0.55	2.0 ~ 5.5													● 1912			
NEW - PSF  Cermet Finishing		CNMG 120404 - PSF	0.4	0.07 ~ 0.30	0.4 ~ 3.0													● 2531			
		CNMG 120408 - PSF	0.8	0.10 ~ 0.30	0.6 ~ 3.0													● 2532			

TURNING

PARTING & GROOVING

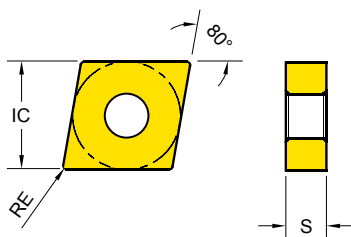
MILLING

DRILLING

TECHNICAL INFORMATION

Turning Inserts - Negative

CNMG / CNMM - Heavy Turning (80° Rhombic)



Series	IC	S
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35
CN** 2509	25.400	9.52

EDP 2200..

● : Stock item ○ : Order made item

	CNMG CNMM	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				
NEW - UH  Low cutting force		CNMM 120408 - UH	0.8	0.30~0.50	1.5~5.0																	
		CNMM 160612 - UH	1.2	0.35~0.60	2.0~5.5																	
		CNMM 160616 - UH	1.6	0.35~0.60	2.5~5.5																	
		CNMM 190612 - UH	1.2	0.35~0.70	1.5~9.0	●	●															
		CNMM 190616 - UH	1.6	0.35~0.70	2.0~9.0	●	●															
		CNMM 190624 - UH	2.4	0.35~0.70	3.0~9.0	●	●															
		CNMM 250924 - UH	2.4	0.40~0.80	3.0~10.0	●	●															
- UR  Roughing		CNMM 190616 - UR	1.6	0.30~0.80	3.0~9.0																	
		CNMG 250924 - UR	2.4	0.40~1.00	5.0~12.0																	
NEW - UT  Heavy Roughing		CNMM 120408 - UT	0.8	0.40~0.70	1.5~6.0																	
		CNMM 160612 - UT	1.2	0.45~0.70	2.0~6.0																	
		CNMM 160616 - UT	1.6	0.45~0.70	2.5~6.0																	
		CNMM 190612 - UT	1.2	0.50~1.00	3.0~12.0	●	●															
		CNMM 190616 - UT	1.6	0.50~1.00	4.0~12.0	●	●															
		CNMM 190624 - UT	2.4	0.50~1.00	6.0~12.0	●	●															
		CNMM 250924 - UT	2.4	0.55~1.20	6.0~13.0	●	●															