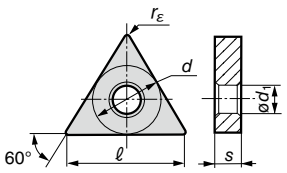
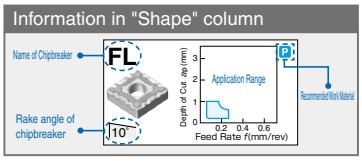
TN Triangular Type Negative With Insert Hole





(Legend) Continuous Cut ● : 1st Choice ○ : 2nd Choice | Medium Cut ● : 1st Choice ○ : 2nd Choice | Interrupted Cut ✖ : 1st Choice ✱ : 2nd Choice

TN□□1603●●

- ℓ : 16.5
- s : 3.18
- ød : 9.525
- ød$_1$: 3.81

Applicable External Holders C22 to C24

Recommended Application	AC810P	AC820P	AC830P	AC2000	AC610M	AC630M	AC6030M	AC6040M	AC405K	AC415K	AC420K	AC410K	AC503U	AC510U	AC520U	AC530U	AC Z150	T1500Z	T3000Z	T2000Z	T1000A	T1500A	T110A	T1200A	ST10P	ST20E	A30	G10E	EH510	EH520	H1
P steel	●	●	✖			○								○	✱	✱		●	✖		●	●									
M stainless steel			✱		●	○	●	✖						○	✱	✱		●	✖												
K cast iron	✱								●	●	✖			○	✱	✱					●										
N non-ferrous metal																														●
S exotic alloy													●	✖																
H hardened steel													●																	
Coat																		Coated Cermet			Cermet				Carbide					

	Shape	Cat. No.	r_ε
Medium Cut		**TNMA 160304**	0.4
		160308	0.8
		160312	1.2
		TNGA 160302	0.2
		160304	0.4
		160308	0.8
		160312	1.2

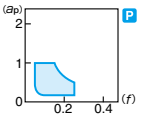
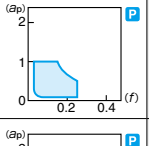
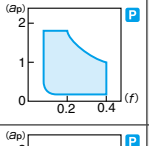
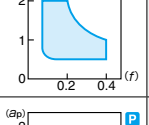
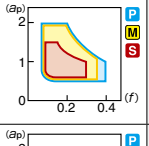
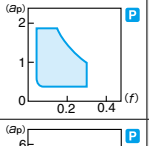
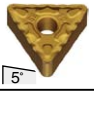
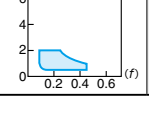
TN□□1604●●

- ℓ : 16.5
- s : 4.76
- ød : 9.525
- ød$_1$: 3.81

SUMIBORON (CBN) Inserts Front 1,02 | SUMIDIA (PCD) Inserts M14 | Ceramic Inserts B126

Applicable External Holders C19 to 25, D15, 18 | Applicable Internal Holders E33 to E35

Recommended Application	AC810P	AC820P	AC830P	AC2000	AC610M	AC630M	AC6030M	AC6040M	AC405K	AC415K	AC420K	AC410K	AC503U	AC510U	AC520U	AC530U	AC Z150	T1500Z	T3000Z	T2000Z	T1000A	T1500A	T110A	T1200A	ST10P	ST20E	A30	G10E	EH510	EH520	H1
P steel	●	●	✖			○								○	✱	✱		●	✖		●	●									
M stainless steel			✱		●	○	●	✖						○	✱	✱		●	✖												
K cast iron	✱								●	●	✖			○	✱	✱					●										
N non-ferrous metal																														●
S exotic alloy													●	✖																
H hardened steel													●																	
Coat																		Coated Cermet			Cermet				Carbide					

	Shape	Cat. No.	r_ε
Fine Finishing	**FA** 	**TNMG 160402N-FA**	0.2
		160404N-FA	0.4
		160408N-FA	0.8
		160412N-FA	1.2
	FL 	**TNMG 160404N-FL**	0.4
		160408N-FL	0.8
Finishing	**LU** 	**TNMG 160402N-LU**	0.2
		160404N-LU	0.4
		160408N-LU	0.8
		160412N-LU	1.2
	SP 	**TNMG 160404N-SP**	0.4
		160408N-SP	0.8
	SU 	**TNMG 160402N-SU**	0.2
		160404N-SU	0.4
		160408N-SU	0.8
		160412N-SU	1.2
	SU 	**TNGG 160402N-SU**	0.2
		160404N-SU	0.4
		160408N-SU	0.8
	SE  	**TNMG 160404N-SE**	0.4
		160408N-SE	0.8
		160412N-SE	1.2